



Full Product Catalogue

180 products across 25 categories: walk-through and handheld metal detection, X-ray baggage and cargo inspection, explosive trace detection, food-line inspection and checkpoint support equipment.

- Multi-Zone Walk-Through Metal Detectors** — 26 models
- X-Ray Baggage and Cargo Scanners** — 23 models
- Handheld Security Metal Detector Wands** — 22 models
- X-Ray Inspection Systems and Portable Scanners** — 15 models
- Industrial Metal Detectors for Food Processing** — 13 models
- Metal Detector Search Coils** — 11 models
- Educational Metal Detectors for Children** — 8 models
- Metal Detector Pinpointers** — 8 models
- Portable X-Ray Inspection Systems** — 6 models
- Explosive and Narcotics Trace Detectors** — 5 models
- Under Vehicle Inspection Mirrors and Cameras** — 5 models
- Food X-Ray Inspection Systems** — 4 models
- Certified Dual-View X-Ray Baggage Scanners** — 4 models
- Needle Detectors for Garment and Textile** — 4 models
- Metal Detectors for Beginners and Hobbyists** — 4 models
- Metal Detectors for Schools** — 4 models
- Metal Detection and Checkweighing Combination Systems** — 4 models
- Non-Linear Junction Detectors** — 3 models
- Under Vehicle Surveillance Systems** — 3 models
- RF Signal Protection and Audio Detection** — 2 models
- Dynamic Checkweighers** — 2 models
- Ultrasonic Recording Protection** — 1 models
- Metal Detectors for Pharmaceutical Production** — 1 models
- Hobby Metal Detectors** — 1 models
- Waterproof and Submersible Metal Detectors** — 1 models

Figures in this document are those published by the factory for each model. Where a value is shown as TBC it is not published, and we confirm it with the factory before order rather than estimate it. Specifications are subject to change without notice.

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Multi-Zone Walk-Through Metal Detectors

Archway gates that screen everyone entering a building and tell the operator where on the body the metal is.

1. ABX-5010-FS1 Foot and Shoe X-Ray Screening System

The ABX-5010-FS1 inspects the ankle, foot and shoe sole without asking anyone to take their shoes off. A single scan finishes in under 5 seconds over a 340 x 300 mm detection area, so a checkpoint keeps moving instead of forming a queue at the shoe bench. The cabinet occupies 780 x 650 mm of floor and weighs 76 kg, which makes it practical to place at an existing screening lane rather than rebuild one.

Key benefits

- Removes the shoe-removal step that slows every manual footwear check
- Under 5 seconds per scan keeps a single lane moving at steady throughput
- 0.5 uSv or less per inspection supports repeated screening of the same shift
- Small 780 x 650 mm footprint fits beside an existing lane without rebuilding it
- 500 GB of storage holds at least 100,000 images for later review

Specification

Dimensions	780 x 650 x 1275 mm
Weight	76 kg
Effective Detection Range	340 x 300 mm
Single Inspection Dose	0.5 uSv or less
Single Scan Time	under 5 seconds
Display	15-inch square screen plus 12.3-inch rectangular screen
Spatial Resolution	1 mm
Wire Resolution	AWG38
Power Consumption	200 W
Image Storage	500 GB, at least 100,000 images
Warranty	1 year

2. ABX-5010-LS1 Limb X-Ray Screening System

The ABX-5010-LS1 handles the checkpoint cases that a walk-through gate cannot resolve: bandages, casts and limb areas that set off an alarm every time and then need a manual pat-down. A detection arm rotating 180 degrees or more reaches the limb where it is, over a 250 mm inspection range and 180 mm maximum width, at under 0.25 uSv and under 4 seconds per scan.

Key benefits

- Resolves cast and bandage alarms without a manual pat-down
- Detection arm rotates 180 degrees or more to reach the limb in place
- Under 0.25 uSv per scan and under 4 seconds keeps the lane moving
- Under 65 dB sound pressure level suits quiet public-facing entrances
- Minimum 100,000 image storage supports later review of a disputed check

Specification

Dimensions	1100 x 740 x 1330 mm
Weight	190 kg

Effective Inspection Range	250 mm
Maximum Inspection Width	180 mm
Single Inspection Dose	under 0.25 uSv
Single Scan Time	under 4 seconds
Detection Arm Rotation	180 degrees or more
Wire Detectability	AWG38
Sound Pressure Level	under 65 dB
Power Consumption	300 W
Image Storage	minimum 100,000 images
Warranty	1 year

3. ABX-5010-AB Mobile Torso X-Ray Screening System

The ABX-5010-AB is a torso screening system that does not need a fixed installation. It plugs in, scans the band from 0.75 to 1.25 m above the ground, and can be moved to wherever the checkpoint is that week. A 120 kV generator gives AWG40 wire detectability and 1.0 mm spatial resolution at under 3 uSv per scan, with a 150 kg cabinet that a site can actually relocate.

Key benefits

- No fixed installation, so a checkpoint can be set up and moved again
- Covers the 0.75 to 1.25 m torso band where concealment is most common
- AWG40 wire detectability and 1.0 mm spatial resolution at 120 kV
- Under 3 uSv per scan and under 54 dB operating noise
- Storage for 1,000,000 pictures with 50-image playback

Specification

Dimensions	1120 x 1000 x 1570 mm
Weight	150 kg
Effective Scanning Area	0.75 to 1.25 m from ground
Generator Anode Voltage	120 kV
Single Inspection Dose	under 3 uSv
Wire Detectability	AWG40
Spatial Resolution	1.0 mm
Single Scan Time	10 to 15 seconds
Sound Pressure Level	under 54 dB
Power Consumption	700 W
Image Storage	1,000,000 pictures
Warranty	1 year

4. ABX-5010-SC3 Full-Body X-Ray Screening System

The ABX-5010-SC3 is a full-body transmission screening system built for lanes that have to clear at least 1,000 persons per hour. Each scan finishes in under 4 seconds at less than 0.20 uSv, with AWG38 wire detectability and 1.0 mm spatial resolution on a 24-inch TFT display. The three-joint construction is the part that matters on site: it goes together and aligns without a long structural installation.

Key benefits

- At least 1,000 persons per hour sustained through one lane

- Under 0.20 uSv per full-body scan with scan time below 4 seconds
- Three-joint construction shortens installation and alignment on site
- Continuous cyclic inspection mode avoids stop-start operation
- X-ray leakage below 0.19 uSv/h at 50 cm around the cabinet

Specification

Dimensions	2610 x 2300 x 2600 mm
Weight	800 kg
Scanning Height	2 m
Single Inspection Dose	under 0.2 uSv
X-Ray Leakage	under 0.19 uSv/h at 50 cm
Wire Detectability	AWG38
Spatial Resolution	1.0 mm
Throughput	1,000 persons per hour or more
Conveyor Speed	0.17 m/s
Power	800 W, 180-240 V AC, 50 Hz plus or minus 3 Hz
Image Storage	1,000,000 pictures
Warranty	1 year

5. ABX-5010-SC3A-DV Dual-View Full-Body X-Ray Screening System

The ABX-5010-SC3A-DV adds a second imaging view to the full-body lane, which is what closes the coverage gaps a single view leaves from head to toe. Throughput stays above 1,200 persons per hour on continuous autowalk movement, at under 0.20 uSv for a full-body scan and under 4 seconds each. Dual-view wire detectability is AWG40 against AWG38 in single view.

Key benefits

- Dual-view imaging widens body coverage compared with a single view
- Above 1,200 persons per hour with continuous autowalk movement
- AWG40 dual-view wire detectability against AWG38 in single view
- 2000 x 1600 mm full-body scanning area plus a 600 x 1600 mm torso area
- Three-joint construction for installation and alignment on site

Specification

Dimensions	3100 x 2400 x 2600 mm
Weight	1000 kg
Full-Body Scanning Area	2000 x 1600 mm
Torso Scanning Area	600 x 1600 mm
Full-Body Dose	under 0.20 uSv
Torso Dose	under 2 uSv
Wire Detectability	AWG38 single view, AWG40 dual view
Spatial Resolution	1.0 mm
Throughput	1,200 persons per hour or more
Conveyor Speed	0.17 m/s
Image Storage	1,000,000 pictures
Warranty	1 year

6. ABX-5010-SC3A Full-Body X-Ray Screening System

The ABX-5010-SC3A is the throughput version of the full-body line: under 3 seconds per scan and at least 1,200 persons per hour, with AWG40 wire detectability and 1.0 mm spatial resolution. Dose stays under 0.20 uSv per scan and leakage under 0.17 uSv/h at 50 cm. Like the rest of the ABX-5010 family it uses three-joint construction so a site is not closed for a long structural install.

Key benefits

- Under 3 seconds per scan, the fastest cycle in the ABX-5010 line
- At least 1,200 persons per hour through a single lane
- AWG40 wire detectability with 1.0 mm spatial resolution
- Leakage under 0.17 uSv/h at 50 cm around the cabinet
- Three-joint construction for faster installation and alignment

Specification

Dimensions	2610 x 2300 x 2600 mm
Weight	1000 kg
Scanning Height	2.1 m
Single Inspection Dose	under 0.2 uSv
X-Ray Leakage	under 0.17 uSv/h at 50 cm
Wire Detectability	AWG40
Spatial Resolution	1.0 mm
Single Scan Time	under 4 seconds
Throughput	1,200 persons per hour or more
Conveyor Speed	0.17 m/s
Power	800 W, 180-240 V AC, 50 Hz plus or minus 3 Hz
Warranty	1 year

7. ABX-5010-DC2 Dual-Channel Full-Body and Baggage X-Ray Screening System

The ABX-5010-DC2 puts person and baggage screening into one continuous workflow instead of two queues that have to be rejoined. The full-body channel runs at under 0.20 uSv and AWG38, the baggage channel through a 650 x 500 mm tunnel at AWG40 and 1.0 mm resolution, together clearing at least 1,000 persons per hour on an open-type circular conveyor.

Key benefits

- One workflow for person and baggage instead of two separate queues
- 650 x 500 mm baggage tunnel alongside a 2 m full-body scan height
- AWG38 full-body and AWG40 baggage wire detectability in one system
- Open-type continuous cyclic inspection on a circular conveyor
- Image retrieval by operator ID or capture time for audit

Specification

Dimensions	2600 x 2100 x 2600 mm
Weight	1200 kg
Baggage Tunnel	650 x 500 mm
Scanning Height	2 m

Full-Body Dose	under 0.20 uSv
Baggage Dose	under 3 uSv
Wire Detectability	AWG38 full body, AWG40 baggage
Spatial Resolution	1.3 mm full body, 1.0 mm baggage
Throughput	1,000 persons per hour or more
Conveyor Speed	0.17 m/s
Display	17-inch and 24-inch LCD, 1920 x 1200
Power	1200 W, 180-240 V AC, 50 Hz plus or minus 3 Hz
Warranty	1 year

8. VW-2025T AI Multi-Sensor Security Gate

The VW-2025T is a walk-through gate that also answers who walked through it. Eighteen detection zones with independent sensitivity sit alongside multi-point facial recognition for up to 5 people at once, body temperature monitoring, document verification and video linkage, all on one aluminium alloy structure with a 5.5-inch operating screen and 12 infrared sensors. Anti-tailgating keeps passage to one person at a time.

Key benefits

- 18 detection zones with independent sensitivity adjustment per zone
- Facial recognition on up to 5 people simultaneously
- Anti-tailgating enforces controlled single-person passage
- Alarm-zone visualisation on an on-screen human-body diagram
- Modular components so a failed part is replaced rather than the gate

Specification

Detection Zones	18, with independent sensitivity adjustment
Calibration	10-level
Operating Screen	5.5-inch
Infrared Sensors	12
Facial Recognition	multi-point, up to 5 people simultaneously
Structure	Aluminium alloy
Additional Sensing	Body temperature monitoring with threshold alerts
Identity	Document verification, video linkage
Access Control	Anti-tailgating detection
Management	Remote networking and centralised management

9. VW-2286S Intelligent Multi-Zone Security Gate

The VW-2286S is built around traceability: every passage produces an entry-exit record tied to a verified identity. It runs Android 7.1 on an 8-core CPU with 4 GB RAM and 32 GB storage, drives a 21.5-inch 1080P display, and combines 1:1 and 1:N facial recognition with document verification and rapid human-document comparison. Eighteen metal zones each take a separate 0 to 1000 sensitivity value.

Key benefits

- Personnel traceability with complete entry-exit records
- 18 metal detection zones, each with 0 to 1000 sensitivity adjustment
- 1:1 and 1:N facial verification plus rapid human-document comparison
- 21.5-inch 1080P display showing target position on alarm

- Wi-Fi, 10/100M Ethernet and Bluetooth with optional 4G

Specification

Platform	Android 7.1, 8-core CPU
Memory	4 GB RAM, 32 GB storage
Display	21.5-inch 1080P
Detection Zones	18, separate 0 to 1000 sensitivity per zone
Facial Recognition	1:1 and 1:N verification
Identity	Document verification and rapid human-document comparison
Door Design	3D switching / infrared sliding panel
Sensing	Proximity, temperature and humidity
Connectivity	Wi-Fi, 10/100M Ethernet, Bluetooth, optional 4G
Records	Personnel traceability with entry-exit records

10. VMP7000 Waterproof Walk Through Metal Detector

The VMP7000 is the gate to put outdoors. Its waterproof construction keeps it working in rain, humidity and coastal air, where an ordinary door frame fails within a season. It runs 18 zones through a 2000 x 700 mm passage at 30 W, weighs 32 kg net, and is built for rapid deployment at temporary events as well as permanent positions.

Key benefits

- Waterproof construction for outdoor, humid and coastal positions
- 18 detection zones through a 2000 x 700 mm passage
- Only 30 W working power and 32 kg net weight
- Rapid deployment for temporary events and high-traffic areas
- Operates from -20°C to 55°C on 110 to 220 V AC

Specification

Detection Zones	18
Working Power	30 W
Voltage	AC 110 V to 220 V
Working Temperature	-20°C to 55°C
External Dimension	2230 x 940 x 270 mm
Passage Dimension	2000 x 700 x 270 mm
Door Frame Packing Dimension	2280 x 420 x 410 mm
Net Weight	32 kg
Door Frame Gross Weight	38 kg
Construction	Waterproof

11. VIBOO-24D Walk Through Metal Detector Door Frame

The VIBOO-24D runs 18 detection zones from a dedicated DSP, covering the left, centre and right of the body from head to toe. Pre-set programmes cover the common security applications so a site is not tuning from scratch, and a self-test runs automatically when the door is activated, diagnosing each infrared and LED port before the lane opens.

Key benefits

- 18 detection zones covering left, centre and right from head to toe
- DSP-based signal processing rather than analogue detection

- Pre-set programmes covering a broad range of security applications
- Automatic self-test diagnosing each port when the door is activated
- Automatic counting of people passing, shown on a digital tube display

Specification

Detection Zones	18
Signal Processing	Dedicated digital signal processor
Coverage	Left, centre and right of the body, head to toe
Self Test	Automatic on activation, diagnosing each port
Display	Digital tube with pass counting and alarms
Foot Covers	Waterproof, fixing the door in position
Passage Dimensions	TBC - confirm at quotation
Power	TBC - confirm for your site voltage

12. KW-33 Zone Walk Through Security Metal Detector

The KW-33 runs 33 detection zones with a sensitivity scale reaching 1000 levels, which is the range you need to screen out coins and keys while still catching what matters. It uses a full aluminium frame and an integrated LCD touch screen host, and its uniform zone coverage means detection does not fall off toward the edges of the passage.

Key benefits

- 33 detection zones with uniform coverage on all sides
- Maximum sensitivity up to 1000 levels
- Full aluminium frame with integrated LCD touch screen host
- Simple software interface for easier installation and maintenance
- Integrates into an existing identification system

Specification

Detection Zones	33
Maximum Sensitivity	up to 1000 levels
Frame	Full aluminium
Host	Integrated LCD touch screen
Standard Equipment	Rear view monitor
Passage Dimensions	TBC - confirm at quotation
Power	TBC - confirm for your site voltage

13. Viboo Classical Walk Through Metal Detector

The classical Viboo gate is the configurable one: zone count is chosen to requirement with a 6-zone default, each zone adjusts across 100 degrees of sensitivity, and alarm time is set anywhere from 1 to 25 seconds. Temperature and humidity compensation tracks conditions automatically, which is what keeps it stable across seasons and climates.

Key benefits

- Zone count specified to requirement, default 6 zones
- 100-degree sensitivity adjustment on every zone independently
- Automatic temperature and humidity compensation for different climates
- Overlapping detection eliminates weak zones and shadow areas
- LED alarm lights show the height on the body where the item is hidden

Specification

Display	LCD
Detection Zones	specified to requirement, default 6 zones
Sensitivity Adjustment	100 degrees per zone, independently
Alarm Time	1 to 25 seconds
Backlight Time	0 to 99 seconds, adjustable
Menu Languages	Chinese and English
Detection Speed	user-defined adjustment
Environmental Compensation	Automatic temperature and humidity tracking
Single Zone Variant	Imported fire board material, light weight and waterproof, aluminium alloy side columns

14. 33 Zone High Throughput Walk Through Metal Detector

This gate is specified for patron screening at high volume: 33 pinpoint zones locate a target head to foot across left, middle and right, with left and right LEDs showing which side it is on. Eight units can stand side by side at 50 cm intervals without interfering, which is what allows several lanes at one entrance.

Key benefits

- 33 pinpoint zones locating a target head to foot on left, middle and right
- Eight gates can run side by side at 50 cm intervals without interference
- Sensitivity adjustable from 0 to 99 on every zone individually
- Digital, analogue and left-right balanced anti-interference technology
- Records passage count, alarm times and interference strength to a large LCD

Specification

Detection Zones	33, pinpoint, head to foot on left, middle and right
Sensitivity Adjustment	0 to 99 per zone, individually
Maximum Sensitivity	one coin
Side-by-Side Operation	up to 8 doors at 50 cm intervals without interference
Working Power	30 W
Voltage	AC 110 V / 220 V
Working Temperature	-20°C to 55°C
Overall Dimensions	2240 high x 900 wide x 580 deep mm
Alley Dimensions	2240 high x 760 wide x 580 deep mm
Product Exterior Dimension	2200 x 800 x 600 mm
Product Interior Dimension	2050 x 700 x 600 mm
Net Weight	75 kg
Gross Weight	90 kg

15. Airport Walk Through and Handheld Metal Detector Set

Airport screening uses two devices together: the fixed walk-through gate as the first line, and a handheld wand for the secondary check when the gate alarms. Supplying them as a pair is what makes the checkpoint work, because a gate alone cannot resolve where the metal is and a wand alone cannot screen a queue.

Key benefits

- Fixed walk-through gate plus portable handheld wand as one screening set

- Screens large numbers of people efficiently at one checkpoint
- Lower operating cost than screening with trained staff alone
- Detects knives, guns, razor blades and other concealed weapons
- Usable in airports, hotels, railway stations and other public locations

Specification

Set Contents	Fixed walk-through detector and portable handheld detector
Application	Airports, hotels, railway stations and other public and private locations
Gate Zones	TBC - specified per project
Wand Model	TBC - specified per project
Power	TBC - confirm for your site voltage

16. Viking VM-24 Zone Archway Metal Detection System

The VM-24 uses a full strong fireproof frame with an integrated LCD touch screen host, and its zone configuration is switchable between 8, 16 and 24 positions rather than fixed at manufacture. Total sensitivity runs to 4095 levels with 300 levels per location, and it keeps working normally when large metal objects such as an X-ray machine sit right beside it.

Key benefits

- Zone count switchable between 8, 16 and 24 positions
- Total sensitivity across 4095 levels, 300 per individual location
- Works normally alongside large metal equipment such as an X-ray machine
- Two units at only 20 cm apart, or 30 cm working side by side without interference
- Full strong fireproof frame with integrated LCD touch screen host

Specification

Zone Configuration	8, 16 or 24, arbitrarily switchable
Total Sensitivity	0 to 4095 levels
Per-Location Sensitivity	300 levels
Frequency Settings	1 to 99, optional
Side-by-Side Spacing	20 cm for two devices, 30 cm working side by side without interference
Frame	Full strong fireproof
Host	Integrated LCD touch screen, 7 inch
Power	10 W
Voltage	up to 240 V, 50/60 Hz
External Dimensions	2220 x 820 x 500 mm
Passage Dimensions	1990 x 710 x 500 mm
Weight	60 kg

17. 12 Zone All-Weather Walk Through Metal Detector

This gate is built to stand outdoors: IP55 rated, alloy and PVC construction, and rated from -30°C to 55°C at up to 95% humidity. It runs 12 independent detection zones with LED gatepost lights showing whether the target is on the left, in the middle or on the right, and up to 32 gates can be networked over RS485.

Key benefits

- IP55 all-weather rating with alloy and PVC construction
- Operates from -30°C to 55°C at up to 95% humidity

- 12 independent detection zones with left, middle and right indication
- Up to 32 gates networked over an RS485 port
- Complies with standard GB15210-2003

Specification

Detection Zones	12, independently distributed
Sensitivity	255 levels
Ingress Protection	IP55, all weather
Construction	Alloy and PVC
Network Connection	RS485, up to 32 gates
Outer Frame	2.2 x 0.82 x 0.5 m (H x W x D)
Inner Frame	2.0 x 0.7 x 0.5 m (H x W x D)
Electric Current	90 to 240 V AC, 50/60 Hz
Power	35 VA
Net Weight	about 65 kg
Working Environment	-30°C to 55°C, humidity up to 95%
Standard	GB15210-2003

18. Airport Gateway Security Screening Metal Detector

This gate is configurable across a wide range: 4 to 33 independent probes giving 4 to 33 detection zones, 50 selectable operating frequencies and an overall safety level from 1 to 20. Multiple network ports and a secondary development port mean it can be integrated into an existing system rather than run in isolation.

Key benefits

- 4 to 33 independent probes giving 4 to 33 detection zones
- 50 alternative operating frequencies to avoid local interference
- Overall safety level selectable from 1 to 20
- Multiple network ports plus a secondary development and upgrade port
- Smart partition function for detecting large objects

Specification

Detection Probes	4 to 33 independent
Detection Zones	4 to 33
Operating Frequencies	50 alternatives
Overall Safety Level	selectable 1 to 20
Display	Dual high-brightness red LED, super brightness SMD double zone indicators
Ports	Multiple network ports, external control alarm device port, secondary development and upgrade port
Counting	People passing and alarm times
Security	Password protection

19. Viking VM-45 Zone Archway Metal Detector System

The VM-45 is the top of the Viking archway range: 45 pinpoint detection zones, total sensitivity across 4095 levels with 0 to 300 per zone, and up to 99 selectable working frequencies. Two units run at only 20 cm apart without interfering, and it keeps working normally when a large X-ray machine stands right beside it.

Key benefits

- 45 pinpoint detection zones, the highest count in this range
- 0 to 4095 total sensitivity with 0 to 300 adjustable per zone
- Up to 99 selectable working frequencies
- Two gates at only 20 cm apart without interference
- Works normally when adjacent to large metal objects such as an X-ray machine

Specification

Detection Zones	45 pinpoint
Total Sensitivity	0 to 4095 levels
Per-Zone Sensitivity	0 to 300 adjustable
Working Frequencies	up to 99 selectable
Minimum Gate Spacing	20 cm between two devices without interference
Display	7 inch LCD touch screen
Power	10 W
Voltage	up to 240 V, 50/60 Hz
External Dimensions	2230 x 820 x 600 mm
Passage Dimensions	1995 x 710 x 600 mm
Weight	60 kg
Working Temperature	-20°C to 45°C
Optional Battery	20 hours or more off-mains operation

20. Portable Walk Through Metal Detector Gate

This gate assembles and dismantles in under 5 minutes without tools, by one person, and fits in a car or van at 35 kg net. It runs on its own rechargeable battery for 40 hours, is IP55 rated with UV protection, and is designed to comply with FAA and NILECJ-0601.00 EMC standards.

Key benefits

- Assembled or dismantled in under 5 minutes by one person, no tools
- 35 kg net, transportable in a car or van
- 40 hours on the included rechargeable battery
- IP55 with UV protection for indoor or outdoor use
- Designed to comply with FAA and NILECJ-0601.00 EMC standards

Specification

Detection Zones	3 zones or 6 zones
Sensitivity	0 to 99, 100 levels, adjustable; 300-level option
Assembly Time	under 5 minutes, single person, no tools
Battery	rechargeable, 40 hours, with AC adapter and recharge kit
Working Voltage	AC 100 V to 240 V, consumption under 10 W
Construction	ABS polycarbonate alloy
Standards	FAA, NILECJ-0601.00 EMC standard design
Outer Dimensions	225 x 97 x 58 cm
Inner Dimensions	210 x 80 x 58 cm
Portable Packing Size	107 x 66 x 71 cm

Weight	35 kg net, 48 kg gross
Temperature	-20°C to 70°C
Humidity	95% non-condensing
Protection Class	IP55 with UV protection
Warranty	Limited 12 months, parts and labour

21. Multi-Zone Walk Through Metal Detector up to 90 Zones

This WTMD platform scales its zone count from 1 up to 90, so the same gate design covers a simple single-zone door and a high-resolution 90-zone checkpoint. It is built from an electronic control unit and two door panels carrying transmitting and receiving antennas, with LED light bars top to bottom inside both panels.

Key benefits

- Zone count configurable from 1 up to 90
- LED light bars inside both door panels, top to bottom
- Electronic control unit with variable magnetic field generator and signal processor
- Power saving and standby modes
- Supplied with a full installation and operating manual

Specification

Zone Configuration	1 to 90 zones, including 8, 15, 16, 24, 30 and 45 zone variants
Construction	Two door panels plus main box with internal electronic control unit
Indication	LED light bars top to bottom inside both door panels
Power Adapter Input	AC 100 to 240 V
Power Adapter Output	15 V DC, 5 A
Adapter Size	114 x 50 x 30 mm
Cable Length	2.5 m
Modes	Power saving and standby
Documentation	Full user manual covering installation, operation and maintenance

22. VK-33 Zone Walk Through Metal Detector

The VK-33 carries a sensitivity calibration display, which the source describes as unique: when sensitivity is being set in one zone, the indicator lights only for that zone and the others stay quiet, so the operator knows exactly which area is being adjusted. Zone count is 33 or 36, single-zone sensitivity runs to 999 levels, and 72 built-in detection programs cover different occasions.

Key benefits

- Sensitivity calibration display showing which zone is being adjusted
- 33 or 36 zone detection with non-polar partition tracking metal movement
- Single-zone sensitivity up to 999 levels
- 72 built-in detection standard programs for different occasions
- Up to 100 working frequency bands, gates at 50 cm without interference

Specification

Detection Zones	33 or 36
Single Zone Sensitivity	up to 999 levels
Working Frequency Bands	up to 100

Side-by-Side Spacing	50 cm without mutual interference
Detection Objects	Magnetic, non-magnetic and alloy metals
Display	7 inch LCD
Shell Protection	IP55
Detection Programs	72 built-in standard programs
Interference Handling	DSP with automatic site environment scanning, no periodic adjustment needed

23. M-Scope Portable Walk Through Metal Detector

The M-Scope is self-contained and fully automatic: one person assembles it in under five minutes without tools, it runs about 40 hours on the included rechargeable batteries, and a universal power adaptor is supplied for use in countries with different sockets. It carries a 2 year warranty, and can be integrated with access control and CCTV over Ethernet.

Key benefits

- One-person assembly in under five minutes without tools
- About 40 hours on the included rechargeable batteries
- Universal power adaptor and charger supplied for any country
- 2 year warranty
- Integrates with access control, CCTV and other machines over Ethernet

Specification

Detection Zones	3 independent, head to foot
Sensitivity Settings	100, with 300-level adjustable range
Assembly Time	under 5 minutes, one person, no tools
Battery Life	approximately 40 hours on rechargeable batteries, included
Power	AC 110 to 220 V, universal adaptor and charger included
Outer Frame	2200 x 900 x 810 mm
Inner Frame	2000 x 800 x 570 mm
Portable Packing Size	107 x 66 x 71 cm
Net Weight	35 kg
Protection Class	IP55 with UV protection
Temperature	-20°C to 70°C
Humidity	95% non-condensing
Standards	FAA and NILECJ-0601.00 EMC standard design
Warranty	2 years

24. VW-8000P IP67 Waterproof Outdoor Walk Through Metal Detector

IP67 is the number that separates this gate from the rest of the range: it is washable, not merely splash resistant, so it can be cleaned down and left outdoors permanently. It runs 24 pinpoint zones with per-zone sensitivity from 0 to 355, 100 working frequencies, 100 security levels and 60 built-in detection programs, on a 7-inch HDMI LCD touch screen.

Key benefits

- IP67 waterproof, washable design for permanent outdoor use
- 24 pinpoint zones showing target location left, centre and right from head to toe
- Per-zone sensitivity from 0 to 355, with 100 security levels
- 60 built-in detection programs with upgrade services

- Detection speed of more than 60 people per minute

Specification

Detection Zones	24 pinpoint, left, centre and right, head to toe
Per-Zone Sensitivity	0 to 355 levels
Security Levels	100
Working Frequencies	100
Detection Programs	60 built-in, with upgrade services
IP Grade	IP67
Display	7 inch HDMI LCD touch screen
Detection Speed	more than 60 people per minute
LED Indicators	16 high-brightness
Mounting	Surface mount or modular mounting bracket

25. VW-6E 6 Zone Walk Through Metal Detector

The VW-6E is the six-zone gate for ordinary screening duty: schools, sporting events, concerts, courthouses and offices, where the requirement is an unobtrusive check rather than a high-security search. It draws 12 W from a 90 to 240 V supply, weighs 25 kg net, and carries CE certification.

Key benefits

- Six detection zones covering routine entrance screening
- Only 12 W power consumption from a 90 to 240 V supply
- 25 kg net, practical to install and relocate
- CE certified
- Unobtrusive operation suited to schools and offices

Specification

Detection Zones	6
Working Voltage	90 V to 240 V, 50/60 Hz
Power Consumption	12 W
Net Weight	25 kg
Gross Weight	30 kg
Installation Environment	100 cm wide x 200 cm long minimum metal-free range
Certification	CE
Passage Dimensions	TBC - confirm at quotation

26. Portable Walk-By Open Head Security Metal Detector

An open-head single-panel detector at 20 kg net, 2005 x 430 mm, for rapid screening where a full archway is not wanted. Maximum sensitivity reaches 10 g of metal, preset by weight, volume, size and part so keys, jewellery and belt buckles do not false-alarm. The manufacturer holds ISO 9001:2008, OHSAS occupational health and safety and ISO 14001, and the product carries EU CE certification.

Key benefits

- Open head single panel at only 20 kg net, rapid to deploy
- Maximum sensitivity of 10 g of metal
- Preset by metal weight, volume, size and part to exclude keys, jewellery and buckles

- EU CE certified, from an ISO 9001:2008, OHSAS occupational health and safety and ISO 14001 certified manufacturer
- Weak magnetic field technology, harmless to pacemaker wearers and pregnant women

Specification

Product Model	2018 single-chip liquid crystal
Vertical Dimension	2005 x 430 mm
Vertical Channel Dimension	2005 x 430 mm
Packing Dimension	2100 x 500 x 200 mm
Net Weight	20 kg
Gross Weight	22 kg
Operating Voltage	AC 90 V to 240 V, 50/60 Hz
Power Consumption	12 W
Operating Frequency Range	1 to 50 bands
Operating Temperature	-20°C to 65°C
Installation Environment	100 cm wide x 200 cm long metal-free minimum range
Maximum Sensitivity	10 g of metal
Electrical Standard	EN60950
Radiation Standard	EN50081-1
Anti-Interference Standard	EN50082-1
Implementation Standard	GB15210-2003

X-Ray Baggage and Cargo Scanners

Tunnel scanners from 500 x 300 mm mail-room units up to 1510 x 1810 mm palletised cargo systems.

1. VKX100100H Dual-Energy X-Ray Cargo Inspection System

The VKX100100H is sized for what a normal baggage scanner turns away: a 1005 x 1005 mm tunnel taking 250 kg evenly distributed, penetrating 38 mm or more of steel from a 160 kV adjustable tube. Sealed oil cooling with fan heat dissipation gives a 100% duty cycle, which is what a sorting centre running all shift actually needs.

Key benefits

- 1005 x 1005 mm tunnel with a 250 kg evenly distributed conveyor load
- 100% duty cycle from sealed oil cooling with industrial fan dissipation
- 38 mm or more steel penetration at 38 AWG wire resolution
- Leakage under 0.5 microgray per hour at 5 cm from the shell
- Modular architecture improves interference resistance and serviceability

Specification

Tunnel Size	1005 x 1005 mm
Conveyor Speed	0.22 m/s
Maximum Load	250 kg evenly distributed
Penetration	38 mm steel plate or more
Wire Resolution	38 AWG or better
Spatial Resolution	horizontal and vertical 1.0 mm
Conveyor Height	705 mm
Tube Voltage	160 kV adjustable
Tube Current	0.6 to 1.2 mA adjustable
Cooling and Duty Cycle	Sealed oil cooling with fan dissipation, 100% duty cycle
Leakage Dose Rate	under 0.5 microgray/h at 5 cm from the shell
Single Dose	under 5.0 microgray
Net Weight	1200 kg
Maximum Power Consumption	0.8 kW
Power Supply	AC 220 V plus or minus 10%, 60 Hz plus or minus 5%
Noise Level	under 58 dB(A)

2. VKJ-BK7555 Backscatter X-Ray Inspection System for Large Baggage

The VKJ-BK7555 runs backscatter and transmission imaging together through a 755 x 555 mm tunnel. Transmission gives the penetration view of dense contents; backscatter is what makes organic and low-Z material stand out, which transmission-only systems tend to under-represent. Between them an operator assesses a large parcel without opening it.

Key benefits

- Backscatter and transmission imaging in one pass on the same item
- 755 x 555 mm tunnel takes oversized luggage and bulk parcels
- Backscatter highlights organic and low-Z contents
- Multi-energy colour classification by effective atomic number

- 30 to 38 mm steel penetration at 40 AWG wire resolution

Specification

Tunnel Size	755 x 555 mm
Steel Penetration	30 to 38 mm
Tube Voltage	140 to 160 kV
Wire Resolution	40 AWG
Penetration Resolution	34 AWG
Display	17-inch HD LCD
Image Storage	100,000 images or more
Imaging Technology	Backscatter plus transmission
Material Differentiation	Multi-energy colour classification

3. VKJ-BK6040E Backscatter and Dual-Energy X-Ray Inspection System

The VKJ-BK6040E pairs dual-energy transmission with backscatter detection on a linear-array multi-energy detector. The two views can be shown together or separately, so an operator sees dense contents and low-density organic material in the same scan rather than choosing between them. The 615 x 454 mm tunnel is sized for parcels, bags and hand-carried items.

Key benefits

- Transmission and backscatter views shown together or independently
- Linear-array multi-energy detector captures both signals
- Reveals low-density and organic material transmission alone may miss
- Colour-coded classification by effective atomic number
- Low 0.5 kVA power consumption

Specification

Tunnel Size	615 x 454 mm
Steel Penetration	30 mm at 140 kV, 38 mm at 160 kV
Wire Resolution	40 AWG
Penetration Resolution	32 AWG
Tube Voltage	140 to 160 kV
Tube Current	0.4 to 0.7 mA
Power Consumption	0.5 kVA
Image Storage	100,000 images or more
Imaging Technology	Backscatter plus dual-energy transmission
Detector Type	Linear-array multi-energy

4. VKJ-150180D Dual-View Ultra-Large Cargo X-Ray Inspection System

The VKJ-150180D takes palletised freight and bulk shipments through a 1510 x 1810 mm opening and images them from two angles in a single pass. Two configurations are available, top-bottom or side-side, so the view pair can be matched to how cargo actually presents on the line. Penetration is 46 mm of steel at 200 kV and 58 mm at 260 kV.

Key benefits

- 1510 x 1810 mm tunnel takes palletised and large-format cargo
- Two orthogonal views in a single pass, removing most re-scanning

- Top-bottom or side-side dual-view configuration to suit the workflow
- 46 mm steel penetration at 200 kV, 58 mm at 260 kV
- X-ray leakage below 0.1 microgray per hour

Specification

Tunnel Size	1510 x 1810 mm
Steel Penetration	46 mm at 200 kV, 58 mm at 260 kV
Wire Resolution	40 AWG
Penetration Resolution	30 AWG
X-Ray Leakage	under 0.1 microgray/h
Tube Voltage	200 kV
Tube Current	1.0 mA
Image Storage	100,000 images or more
Imaging Modes	Dual view, top-bottom or side-side

5. VKJ-150180 Ultra-Large Cargo X-Ray Inspection System

The VKJ-150180 is the single-view version of the ultra-large cargo platform: the same 1510 x 1810 mm tunnel that takes a loaded pallet, in a 3.5-ton heavy-duty system built for logistics hubs and pallet inspection. Where two imaging chains are not required, it covers the same cargo envelope at lower cost and complexity.

Key benefits

- 1510 x 1810 mm tunnel accepts palletised cargo without breaking it down
- 3.5-ton heavy-duty construction built for continuous logistics use
- Single-view configuration where dual-view coverage is not required
- Shares its cargo envelope with the dual-view VKJ-150180D

Specification

Tunnel Size	1510 x 1810 mm
System Weight	approximately 3.5 tons
Imaging	Single view
Steel Penetration	TBC - confirm with the supplier for your cargo density
Tube Voltage	TBC - confirm at quotation
Conveyor Load	TBC - confirm against your pallet weight

6. VKJ-100100D Dual-View Dual-Energy Cargo X-Ray Scanner

The VKJ-100100D images oversized parcels and palletised goods from both top-bottom and side-side through a 1005 x 1005 mm tunnel, with dual-energy material differentiation on top. Penetration is 40 mm of steel from a 100 to 160 kV adjustable generator, and leakage stays below 0.1 microgray per hour. Conveyor load is 200 kg at 0.20 m/s.

Key benefits

- Top-bottom and side-side X-ray generation on the same item
- 40 mm steel penetration from a 100 to 160 kV adjustable output
- Leakage dose below 0.1 microgray per hour
- 40 AWG wire resolution and 32 AWG penetration resolution
- Industrial PLC control with an ergonomic review platform

Specification

Dimensions	3782 x 1695 x 1743 mm
Tunnel Size	1005 x 1005 mm
Conveyor Speed	0.20 plus or minus 0.02 m/s
Maximum Conveyor Load	200 kg
Penetration	40 mm steel plate
Wire Resolution	40 AWG or better
Penetration Resolution	32 AWG or better
Single Inspection Dose	3.0 microgray or less
X-Ray Generator	Top-bottom and side-side, 100 to 160 kV adjustable
Tube Current	0.4 to 1.2 mA adjustable
Leakage Dose Rate	under 0.1 microgray/h
Image Storage	more than 100,000 images

7. VKJ-100100 Large Tunnel X-Ray Cargo Scanner

The VKJ-100100 gives a 1005 x 1005 mm tunnel in a single-view system weighing 771 kg and drawing 0.8 kVA, which makes it far easier to site inside an existing warehouse than a dual-source machine. Penetration is 30 mm of steel at 140 kV and 34 mm at 160 kV, with a 304 mm conveyor height.

Key benefits

- 1005 x 1005 mm tunnel for oversized luggage, parcels and freight
- 771 kg and 0.8 kVA, practical to site in an existing building
- 30 mm steel at 140 kV rising to 34 mm at 160 kV
- 40 AWG wire resolution and 32 AWG penetration resolution
- Low 304 mm conveyor height for easy loading of heavy items

Specification

Dimensions	3450 x 1365 x 1744 mm
Tunnel Size	1005 x 1005 mm
Conveyor Speed	0.20 to 0.22 m/s
Conveyor Height	304 mm
Weight	771 kg
Penetration	30 mm steel at 140 kV, 34 mm at 160 kV
Wire Resolution	40 AWG
Penetration Resolution	32 AWG
X-Ray Generator	Top-bottom, 140 to 160 kV adjustable, 0.4 to 1.2 mA adjustable
Power Consumption	0.8 kVA
Image Storage	more than 100,000 images

8. VKJ-8065D Dual-View X-Ray Baggage Scanner for Large Parcels

The VKJ-8065D is built for parcel throughput: up to 720 pieces per hour through an 805 x 655 mm tunnel, imaged from top and side angles with dual-energy material colour. AI-assisted recognition and liquid recognition support take some of the load off the operator on a 24-inch HD display.

Key benefits

- Up to 720 pieces per hour pass rate
- Dual-view imaging from top and side angles
- AI-assisted image recognition with liquid recognition support
- 805 x 655 mm tunnel with a 200 kg conveyor load
- 24-inch HD display with organic, inorganic and mixed material colours

Specification

Dimensions	3080 x 1495 x 1393 mm
Tunnel Size	805 x 655 mm
Conveyor Speed	0.20 plus or minus 0.02 m/s
Conveyor Height	304 mm
Conveyor Load	200 kg
Penetration	34 mm steel plate
Wire Resolution	40 AWG
Penetration Resolution	32 AWG
Single Inspection Dose	3.0 microgray or less
Leakage Dose Rate	under 1.0 microgray/h
X-Ray Generator	Top-bottom and side-side, 140 to 160 kV adjustable
Pass Rate	up to 720 pieces per hour
Monitor	24-inch HD LCD

9. VKJ-6550F Intelligent Multi-View X-Ray Inspection System

The VKJ-6550F is the three-source, three-view system in the range. Three viewing angles are shown on three 24-inch HD monitors, and the system automatically identifies and alarms on contraband, explosives and hazardous liquids rather than leaving every call to the operator.

Key benefits

- Three X-ray sources giving three simultaneous views
- Automatic identification and alarm for contraband, explosives and hazardous liquids
- Three 24-inch HD monitors for comprehensive review
- Removes most of the re-scanning a single view forces

Specification

Imaging	Three sources, three views
Automatic Recognition	Contraband, explosives and hazardous liquids
Monitors	Three 24-inch HD
Tunnel Size	TBC - confirm at quotation
Steel Penetration	TBC - confirm at quotation
Tube Voltage	TBC - confirm at quotation

10. VKJ-6550D Advanced Dual-View X-Ray Scanner

The VKJ-6550D combines dual-energy imaging with dual-view scanning, taking both a bottom and a side view of the same item. Two angles on one pass is what raises detection accuracy on packed bags, which is why it is aimed at logistics hubs, customs and higher-risk environments rather than low-volume entrances.

Key benefits

- Bottom and side views captured on the same pass
- Dual-energy imaging for material differentiation
- Higher detection accuracy on densely packed items
- Specified for logistics, customs and high-risk environments

Specification

Imaging	Dual-energy, dual-view (bottom and side)
Tunnel Size	TBC - confirm at quotation
Steel Penetration	TBC - confirm at quotation
Tube Voltage	TBC - confirm at quotation
Conveyor Load	TBC - confirm at quotation

11. VKJ-6550 Professional X-Ray Baggage Scanner

The VKJ-6550 is the general-purpose scanner in the range, with a 655 x 505 mm tunnel that suits normal hand luggage and bags. Automatic image optimisation means an operator is not adjusting settings item by item, which is what keeps a busy transit or hotel entrance moving.

Key benefits

- 655 x 505 mm tunnel sized for hand luggage and bags
- Automatic image optimisation removes per-item adjustment
- Low radiation protection design for public-facing positions
- Built for high-traffic entrances rather than occasional use

Specification

Tunnel Size	655 x 505 mm
Imaging	Single view
Image Handling	Automatic image optimisation
Steel Penetration	TBC - confirm at quotation
Tube Voltage	TBC - confirm at quotation
Conveyor Speed	TBC - confirm at quotation

12. VKJ-6040D Dual View X-Ray Baggage Scanner

The VKJ-6040D is the high-end small-tunnel scanner: dual-view with multi-energy material recognition, AI-assisted threat identification and a 22-inch HD display, holding more than 100,000 images. It is aimed at airports, government buildings and VIP channels where the item stream is small but the consequence of a miss is not.

Key benefits

- Dual-view imaging with multi-energy material recognition
- AI-assisted threat identification supporting the operator
- 22-inch HD display
- Storage for more than 100,000 images
- Specified for airports, government buildings and VIP channels

Specification

Imaging	Dual view with multi-energy material recognition
Operator Assistance	AI-assisted threat identification

Display	22-inch HD
Image Storage	more than 100,000 images
Tunnel Size	TBC - confirm at quotation
Steel Penetration	TBC - confirm at quotation

13. VKJ-5332 Detachable Portable X-Ray Baggage Scanner

The VKJ-5332 separates into parts, which is the whole point of it: a 102 kg scanner that can be carried through a normal door and set up table-top where a full-size machine would never fit. The 531 x 332 mm tunnel handles luggage and parcels at 24 mm steel penetration and 40 AWG wire resolution, drawing only 0.45 kVA.

Key benefits

- Detachable structure for transport, placement and installation in tight spaces
- 102 kg total, light enough to move without lifting equipment
- 531 x 332 mm tunnel for luggage and parcels
- 24 mm steel penetration at 100 kV with 40 AWG wire resolution
- 100% duty cycle from sealed oil cooling at only 0.45 kVA

Specification

Dimensions	1024 x 759 x 812 mm
Tunnel Size	531 x 332 mm
Conveyor Speed	0.20 m/s
Weight	102 kg
Penetration	24 mm steel plate at 100 kV
Wire Resolution	40 AWG
Penetration Resolution	24 AWG
Spatial Resolution	horizontal and vertical 1.0 mm
X-Ray Generator	Top-to-bottom, 100 kV, 0.4 to 0.7 mA adjustable
Cooling and Duty Cycle	Sealed oil cooling, 100%
Power Supply	AC 220 V, 50 Hz
Power Consumption	0.45 kVA
Image Storage	more than 100,000 images

14. VKJ-6040 Professional X-Ray Baggage Scanner with AI

The VKJ-6040 is the mid-size workhorse: a 615 x 454 mm tunnel, up to 43 mm steel penetration at 160 kV, and AI-assisted image judgment with dangerous-liquid recognition support. At 354 kg, under 55 dB and 0.5 kVA it installs in a hotel, school or logistics centre without special provision, on Mitsubishi industrial PLC control.

Key benefits

- 615 x 454 mm tunnel for higher-volume baggage and parcel workflows
- Up to 43 mm steel penetration at 160 kV, 34 mm at 140 kV
- AI-assisted image judgment with dangerous-liquid recognition support
- Under 55 dB and 0.5 kVA, suitable for occupied buildings
- 100% duty cycle from sealed oil cooling

Specification

Dimensions	1845 x 865 x 1313 mm
Tunnel Size	615 x 454 mm
Conveyor Speed	0.20 m/s
Conveyor Height	700 mm
Weight	354 kg
Penetration	34 mm steel at 140 kV, 43 mm at 160 kV
Wire Resolution	40 AWG
Penetration Resolution	34 AWG
Spatial Resolution	horizontal and vertical 1.0 mm
X-Ray Generator	Bottom-to-top, 140 to 160 kV adjustable, 0.4 to 1.25 mA adjustable
Cooling and Duty Cycle	Sealed oil cooling, 100%
Noise	under 55 dB
Power Supply	AC 220 V, 50 Hz
Power Consumption	0.5 kVA
Image Storage	more than 100,000 images

15. VKJ-5030C High-Penetration X-Ray Baggage Scanner

The VKJ-5030C puts 43 mm of steel penetration behind a standard 505 x 305 mm tunnel. That combination matters when bags are normal-sized but densely packed: the tunnel fits any lane, while the 140 to 160 kV adjustable generator sees through what an 80 kV machine cannot. Weight is 302 kg at 0.45 kVA and under 55 dB.

Key benefits

- 43 mm steel penetration at 160 kV in a standard-size tunnel
- 505 x 305 mm opening fits an ordinary screening lane
- Adjustable 140 to 160 kV and 0.4 to 1.25 mA for varied contents
- 302 kg at 0.45 kVA, practical for permanent or event installations
- 100% duty cycle from sealed oil cooling

Specification

Dimensions	1690 x 790 x 1210 mm
Tunnel Size	505 x 305 mm
Conveyor Speed	0.20 m/s
Conveyor Height	752 mm
Weight	302 kg
Penetration	34 mm steel at 140 kV, 43 mm at 160 kV
Wire Resolution	40 AWG
Penetration Resolution	34 AWG
Spatial Resolution	horizontal and vertical 1.0 mm
X-Ray Generator	Bottom-to-top, 140 to 160 kV adjustable, 0.4 to 1.25 mA adjustable
Cooling and Duty Cycle	Sealed oil cooling, 100%
Noise	under 55 dB
Power Supply	AC 220 V, 50 Hz
Power Consumption	0.45 kVA
Image Storage	more than 100,000 images

16. VKJ-5030A Compact X-Ray Baggage Scanner

The VKJ-5030A is the everyday entrance scanner: a 505 x 305 mm tunnel, an 80 kV tube at 0.6 mA, 8 mm steel penetration and 265 kg. Component choice is the notable part of the specification, with Mitsubishi PLC control, ABB, Schneider and Omron electrical parts and Interroll electric rollers, which is what keeps maintenance simple years later.

Key benefits

- 505 x 305 mm tunnel for everyday bag and parcel screening
- Named international components: ABB, Schneider, Omron and Interroll
- Interroll electric rollers for smooth transport and simpler maintenance
- 265 kg at 0.45 kVA and under 55 dB
- 100% duty cycle from sealed oil cooling

Specification

Dimensions	1690 x 790 x 1210 mm
Tunnel Size	505 x 305 mm
Conveyor Speed	0.20 m/s
Conveyor Height	752 mm
Weight	265 kg
Penetration	8 mm steel
Wire Resolution	40 AWG
Penetration Resolution	34 AWG
Spatial Resolution	horizontal and vertical 1.0 mm
X-Ray Generator	Bottom-to-top, 80 kV, 0.6 mA
Cooling and Duty Cycle	Sealed oil cooling, 100%
Noise	under 55 dB
Power Supply	AC 220 V, 50 Hz
Power Consumption	0.45 kVA
Image Storage	more than 100,000 images

17. XIBS 10080C X-Ray Inspection Scanner

The 10080C is the large-tunnel scanner in the XIBS line: 100 cm wide by 80 cm high, 200 kg load, 0.23 m/s belt and 32 mm steel penetration from a 140 kV generator. Storage runs to over 1.5 million images, and radiation figures are stated against GB15208.1-2018, with four-layer lead curtains at entry and exit.

Key benefits

- 100 x 80 cm tunnel with a 200 kg maximum load
- 32 mm steel penetration with 0.0787 mm wire resolution
- Over 1.5 million images stored in multiple formats
- Four-layer lead curtains, leakage below 1 microsievert/h at 10 cm
- Compliant with national standard GB15208.1-2018

Specification

Tunnel Size	100 cm wide x 80 cm high
Conveyor Speed	0.23 m/s
Maximum Load	200 kg
Penetration	32 mm steel plate

Wire Resolution	0.0787 mm
Penetration Resolution	0.127 mm
Spatial Resolution	1.0 mm
Tube Voltage	140 kV
Tube Current	0.3 mA
Single Inspection Dose	below 1 microgray
Leakage Dose Rate	under 1 microsievert/h at 10 cm from the surface
Standard	GB15208.1-2018
Lead Curtains	Four layers
Image Storage	over 1.5 million images
Monitor	19-inch LCD with dedicated keyboard

18. 8065A X-Ray Luggage Scanner

The 8065A covers an 80 x 65 cm tunnel at 200 kg load with 11 mm steel penetration, and stores over 2.5 million images on a 500 GB industrial host. Bi-directional scanning is available as an option, which matters where the lane has to run both ways rather than being rebuilt. The L-shaped detector array and oil-plus-fan cooled generator are built for continuous traffic.

Key benefits

- 80 x 65 cm tunnel with a 200 kg load capacity
- Over 2.5 million images on a 500 GB industrial host
- Optional bi-directional scanning without loss of image quality
- Intelligent energy-saving roller and automatic calibration
- Dual-layer lead curtains with leakage under 1 microsievert/h at 10 cm

Specification

Tunnel Size	80 cm wide x 65 cm high
Conveyor Speed	0.23 m/s
Maximum Load	200 kg
Penetration	11 mm steel
Wire Resolution	0.0787 mm
Penetration Resolution	0.127 mm
Spatial Resolution	1.0 mm
Tube Voltage	80 kV
Tube Current	0.6 mA
Single Inspection Dose	below 1 microgray
Leakage Dose Rate	under 1 microsievert/h at 10 cm from the surface
Lead Curtains	Dual layer
Storage	500 GB, over 2.5 million images
Monitor	19-inch LCD with independent operating console

19. XIBS 6550A Security Inspection X-Ray Machine

The 6550A is the standard passenger-checkpoint machine: a 65 x 50 cm tunnel, 100 kg load, 11 mm steel penetration from an 80 kV generator at 0.6 mA. Where it goes further than most is image handling, with high and low penetration views, local and edge enhancement, brightness and darkness adjustment, and organic/inorganic differentiation all on one

console.

Key benefits

- Fifteen image display and adjustment modes including edge and local enhancement
- 65 x 50 cm tunnel with 100 kg load
- Over 2.5 million images on a 500 GB industrial host
- Optional bi-directional scanning in forward and reverse
- Compliant with GB15208.1-2018, leakage under 1 microsievert/h at 10 cm

Specification

Tunnel Size	65 cm wide x 50 cm high
Conveyor Speed	0.23 m/s, adjustable up to 0.25 m/s
Maximum Load	100 kg
Penetration	up to 11 mm steel plate
Wire Resolution	0.0787 mm metal wire
Penetration Resolution	0.127 mm metal wire
Spatial Resolution	1.0 mm
Tube Voltage	80 kV
Tube Current	0.6 mA adjustable
Single Inspection Dose	less than 1 microgray
Leakage Dose Rate	under 1 microsievert/h at 10 cm from the surface
Standard	GB15208.1-2018
Lead Curtains	Double layer at entry and exit
Storage	500 GB, over 2.5 million images
Monitor	19-inch LCD with VGA interface and independent console

20. XIS 5030A High-Definition X-Ray Baggage Scanner

The 5030A is the small-footprint scanner for hotel and enterprise entrances, with a 50 x 30 cm tunnel and 100 kg load, penetrating 11 mm of steel. Its build details are what make it last in a lobby: a laser-cut, powder-coated frame for corrosion resistance, a DC 24 V silent linear roller and an embedded industrial motherboard with a 500 GB drive.

Key benefits

- 50 x 30 cm tunnel suited to hotel and office entrance screening
- 11 mm steel penetration with organic and inorganic differentiation
- Over 2.5 million images on a 500 GB drive
- Silent DC 24 V linear roller, speed adjustable 0 to 0.25 m/s
- Laser-cut powder-coated frame, anti-corrosion and rust-proof

Specification

Tunnel Size	50 cm wide x 30 cm high
Conveyor Speed	0.23 m/s, adjustable 0 to 0.25 m/s
Maximum Load	100 kg
Penetration	11 mm steel plate
Wire Resolution	0.0787 mm
Penetration Resolution	0.127 mm
Spatial Resolution	1.0 mm

Tube Voltage	80 kV
Tube Current	0.6 mA
Single Inspection Dose	less than 1 microgray
Leakage Dose Rate	less than 1 microsievert/h
Standard	GB15208.1-2018
Motor	DC 24 V silent linear electric drum
Storage	500 GB, up to 2.5 million images
Monitor	19-inch LCD with VGA interface

21. 6550C X-Ray Baggage Scanner

The 6550C puts a 140 kV generator behind the standard 65 x 50 cm tunnel, giving 34 mm of steel penetration where the 6550A gives 11 mm. Four-layer lead curtains at entry and exit hold leakage under 1 microsievert per hour, and the 500 GB host stores over 2.5 million images for later review.

Key benefits

- 34 mm steel penetration from a 140 kV generator
- 65 x 50 cm tunnel with a 100 kg load
- Four-layer lead curtains at entrance and exit
- Over 2.5 million images stored in multiple formats
- L-shaped high-definition digital detection panel

Specification

Tunnel Size	65 cm wide x 50 cm high
Conveyor Speed	0.23 m/s, adjustable 0 to 0.25 m/s
Maximum Load	100 kg
Penetration	34 mm steel plate
Wire Resolution	0.0787 mm
Penetration Resolution	0.127 mm
Spatial Resolution	1.0 mm
Tube Voltage	140 kV
Tube Current	0.3 mA
Single Inspection Dose	less than 1 microgray
Leakage Dose Rate	less than 1 microsievert/h
Standard	GB15208.1-2018
Lead Curtains	Four layers at entrance and exit
Storage	500 GB, over 2.5 million images
Monitor	19-inch LCD with dedicated console

22. XIS-5030C X-Ray Baggage Scanner

The XIS-5030C fits a 140 kV generator into the compact 50 x 30 cm tunnel, penetrating 34 mm of steel where the 5030A reaches 11 mm. Four layers of lead curtains and sealed oil plus external air cooling let it run continuously at low energy, and the 500 GB host holds over 2.5 million images.

Key benefits

- 34 mm steel penetration from a 140 kV generator at 0.3 mA

- Compact 50 x 30 cm tunnel for common luggage sizes
- Four layers of lead curtains at entrance and exit
- Sealed oil cooling plus external air cooling for low energy use and long life
- Over 2.5 million images on a 500 GB drive

Specification

Tunnel Size	50 cm wide x 30 cm high
Conveyor Speed	0.23 m/s, adjustable 0 to 0.25 m/s
Maximum Load	100 kg
Penetration	up to 34 mm steel plate
Wire Resolution	0.0787 mm metal wire
Penetration Resolution	0.127 mm metal wire
Spatial Resolution	1.0 mm
Tube Voltage	140 kV
Tube Current	0.3 mA
Cooling	Sealed oil cooling plus external air cooling
Single Inspection Dose	less than 1 microgray
Leakage Dose Rate	less than 1 microsievert/h at 10 cm
Lead Curtains	Four layers at entrance and exit
Storage	500 GB, over 2.5 million images

23. Averguard 10080D Dual-View X-Ray Luggage Scanner

The Averguard 10080D is a low-dose dual-energy, dual-view system with two independent scanning units capturing horizontal and vertical image data at the same time. Because both angles are taken together, the outline is clear no matter how the bag is laid on the belt, which is what removes the overlap problem that produces false negatives and false positives on single-view machines.

Key benefits

- Two independent X-ray scanning units capturing horizontal and vertical views together
- Accurate imaging regardless of how an item is positioned on the belt
- Eliminates the blind spots a single view leaves
- Reduces false negatives and false positives caused by object overlap
- Low-dose dual-energy imaging

Specification

Imaging	Dual-energy, dual-view
Scanning Units	Two independent, horizontal and vertical
Tunnel Size	TBC - confirm at quotation
Steel Penetration	TBC - confirm at quotation
Conveyor Load	TBC - confirm at quotation

Handheld Security Metal Detector Wands

Hand wands for the secondary check after a gate alarms, and for screening where no gate exists.

1. Handheld Hazardous Liquid Detector

This handheld detector tells a flammable liquid from a safe one without opening the container. It reads dielectric constant and conductivity through quasi-static computer tomography, so gasoline, acetone, ethanol or thinner is separated from water, cola, milk or juice in about a second, across 49 types of flammable and corrosive liquid. The unit weighs 190 g and stores over 150,000 records.

Key benefits

- Distinguishes flammable and explosive liquids from safe drinks without contact
- Covers 49 types of flammable and corrosive liquid
- Result in about one second, with one-second startup
- 190 g in the hand, at 210 x 50 x 70 mm
- Stores over 150,000 records with USB data export

Specification

Detection Method	Quasi-static computer tomography, dielectric constant and conductivity
Liquid Types Covered	49 flammable and corrosive liquids
Container Types	Non-metallic containers
Startup Time	1 second
Data Storage	over 150,000 records
Data Export	USB
Dimensions	210 x 50 x 70 mm
Weight	190 g
Operating Temperature	-10°C to 55°C

2. PD-240 High-Sensitivity Security Wand Metal Detector

The PD-240 is built around two things a checkpoint actually needs: it finds non-magnetic metal as readily as ferrous, and it does not need periodic calibration. Battery life is the other headline, at around 100 hours of standby on two AA cells and up to 500 hours on the dedicated lithium pack. It weighs about 300 g in a shock-resistant ABS body.

Key benefits

- Detects both magnetic and non-magnetic metal, including very small items
- Stable performance with no need for periodic calibration
- Around 100 hours standby on AA cells, up to 500 hours on the lithium pack
- Sound, indicator light and vibration alarms for any environment
- About 300 g in shock and impact resistant ABS

Specification

Sensitivity	Low, normal and high
Alarm Mode	Audible, visual and vibration, varying with detected metal content
Power Supply	2 x AA cells (1.2 V rechargeable or 1.5 V standard)
Continuous Use	approximately 100 hours standby, up to 500 hours with the dedicated lithium battery
Charging Interface	USB Type-C

Standby Power Consumption	30 mW
Working Temperature	-20°C to 65°C at 0 to 95% relative humidity
Dimensions	378 x 80 x 36 mm
Weight	approximately 300 g
Material	Shock and impact resistant ABS plastic

3. MD-2024 Hand Held Metal Detector

The MD-2024 is a 360 g security wand with adjustable sensitivity and a choice of audio or vibration alerting, running at 22 kHz from a 9 V supply. One-button operation is the practical point: a new officer is proficient in minutes, which matters when screening staff turn over between events.

Key benefits

- Adjustable sensitivity to suit the screening environment
- Choice of audio signal or vibration alert for discreet or noisy settings
- One-button operation, quick for new staff to learn
- 360 g net weight for long screening sessions
- Operating current under 50 mA for extended battery life

Specification

Power Voltage	9 V standard or rechargeable battery
Operating Frequency	22 kHz
Operating Current	under 50 mA
Operating Voltage	7 V to 9 V
Operating Temperature	-5°C to 55°C
Net Weight	360 g
Alert Modes	Audio signal or vibration

4. VA360 Ultra-High Sensitivity Handheld Metal Detector

The VA360 uses a digital circuit design rather than an analogue one, which is why it holds its setting without calibration and resists interference from nearby electrical equipment. A purpose-designed coil with programmable sound, light and vibration alarms raises sensitivity while keeping power draw low enough for 100 hours of continuous use. It weighs 0.30 kg in shock-resistant ABS.

Key benefits

- Digital circuit design with strong anti-interference capability
- No calibration needed, so detection does not drift between shifts
- 100 hours of continuous use per charge
- Three alarm modes: vibration, sound, or both together
- 0.30 kg at 360 x 82 x 42.5 mm in shock-resistant ABS

Specification

Sensitivity	Ultra-high, security specification
Alarm Modes	Vibration, sound, or vibration with sound
Continuous Use	100 hours
Charging	Direct charging and dock charging
Dimensions	360 x 82 x 42.5 mm

Weight	0.30 kg
Material	Shock-resistant, impact-resistant ABS plastic
Calibration	Not required

5. VA300C Handheld Wand Metal Detector

The VA300C is the lightest wand in the VA series at 0.25 kg, with a digital design that needs no periodic calibration and 80 hours or more of continuous use. Three alarm modes and an anti-slip handle make it practical across a long shift, and it works from -25°C to 60°C, which covers outdoor checkpoints in most climates.

Key benefits

- 0.25 kg with an anti-slip handle for long screening sessions
- 80 hours or more of continuous use
- Calibration-free stability from a digital design
- Three alarm modes with size indication from audio and visual cues
- Operates from -25°C to 60°C at 0 to 95% humidity

Specification

Model	VA300C
Sensitivity	Low, normal and high
Alarm Modes	Vibration, sound, or vibration with sound, with size indication from audio and visual cues
Continuous Usage Time	80 hours or more
Charging	Direct charging with charging and low battery indicators
Operating Temperature	-25°C to 60°C at 0 to 95% humidity
Dimensions	360 x 82 x 42.5 mm
Weight	0.25 kg
Material	Shock-resistant, impact-resistant ABS plastic

6. VA300 Handheld Metal Detector

The VA300 is the base model of the VA wand family: 0.25 kg, 360 x 82 x 42.5 mm, three alarm modes and 100 hours of continuous use, with direct and dock charging. Like the rest of the series it uses a digital design that holds its setting without calibration, so a wand handed between shifts behaves the same way each time.

Key benefits

- 100 hours of continuous use per charge
- Three alarm modes: vibration, sound, or both
- Direct and dock charging
- 0.25 kg at 360 x 82 x 42.5 mm
- Shock-resistant ABS construction

Specification

Alarm Modes	Vibration, sound, or vibration with sound
Continuous Use	100 hours
Charging	Direct charging and dock charging
Dimensions	360 x 82 x 42.5 mm
Weight	0.25 kg

Material	Shock-resistant, impact-resistant ABS plastic
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7. GC-613 Security Screening Handheld Metal Detector Wand

The GC-613 runs at 95 kHz with adjustable sensitivity, dual vibration and sound alerting, and a 9 V rechargeable battery drawing under 5 mA on standby. At 414 x 80 x 40 mm and 380 g it is a full-size wand, built rugged for daily use rather than occasional screening.

Key benefits

- 95 kHz operating frequency with adjustable sensitivity
- Dual alert by vibration and sound
- Standby current under 5 mA for long battery life
- Rugged construction for daily security operations
- 380 g at 414 x 80 x 40 mm

Specification

Product Model	GC-613
Alarm Modes	Dual alert with vibration and sound
Power Source	9 V rechargeable battery
Standby Current	under 5 mA
Power Consumption	270 mW
Product Dimensions	414 x 80 x 40 mm
Operating Temperature	-10°C to 65°C
Frequency	95 kHz
Weight	380 g

8. GC-1001 Handheld Metal Detector

The GC-1001 has no adjustable controller at all, which is the point: there is nothing for an operator to set wrong, and it reacts immediately on detection. It runs from a standard 9 V battery, draws under 1 mA while working and nothing at all when stopped, and alarms with sound and light together. Size is 410 x 85 mm at 500 g.

Key benefits

- No adjustable controller, so nothing can be mis-set by an operator
- Fast reaction on detection
- Under 1 mA while working and no drain when stopped
- Simultaneous sound and light alarm
- Standard 9 V battery, available anywhere

Specification

Dimensions	410 x 85 mm
Power Source	standard 9 V overlapping battery
Alarm Mode	Sound and light simultaneously
Weight	500 g
Working Current	under 1 mA
Standby Consumption	none when stopped

9. GP-008 Super Wand Handheld Metal Detector

The GP-008 publishes what most wands do not: detection distances by object. A pin is picked up at 30 to 60 mm, a 6-inch knife at 160 to 180 mm and a 64-model hand gun at 180 to 195 mm. It runs at 35 kHz from a 9 V battery, weighs 225 g without the battery, and uses a PC plus ABS moulding that survives being dropped on a hard floor.

Key benefits

- Published detection distances: pin 30-60 mm, knife 160-180 mm, hand gun 180-195 mm
- 225 g without battery, the lightest wand in this group
- Detects both ferrous and non-ferrous metal
- Two alarm methods: buzzer with LED, or vibration with LED
- PC plus ABS moulding for durability

Specification

Detection, Pin	30 to 60 mm
Detection, 6-Inch Knife	160 to 180 mm
Detection, 64-Model Hand Gun	180 to 195 mm
Power	9 V (6F22) standard or rechargeable battery (optional)
Frequency	35 kHz
Weight	225 g without battery
Size	40 x 8 x 4 cm
Operating Temperature	-20°C to 55°C
Alarm Methods	Buzzer with LED, or vibration with LED
Material	PC plus ABS mould material
Gross Weight per Unit	420 g
Packing Size per Unit	50 x 10 x 5 cm

10. V006E Handheld Security Metal Detector Wand

The V006E is an ultra-high sensitivity wand for magnetic and non-magnetic metal, with a sensing area shaped to make sweeping straightforward. It holds its setting without periodic calibration, alarms by light, sound or vibration, and runs about 100 hours on two AA cells or 500 hours on the dedicated lithium pack, at about 300 g.

Key benefits

- Ultra-high sensitivity to extremely small non-magnetic metal objects
- Stable performance without periodic calibration
- About 100 hours on AA cells, 500 hours on the dedicated lithium battery
- Indicator light, sound and vibration alarms for any environment
- About 300 g in shock and impact resistant ABS

Specification

Sensitivity	Low, normal and high
Alarm Mode	Visual and audible, or visual and vibration, varying with detected metal content
Power Supply	2 x AA cells (1.2 V rechargeable or 1.5 V standard)
Continuous Use	approximately 100 hours, or 500 hours with the dedicated lithium battery
Charging Interface	USB Type-C
Standby Power Consumption	30 mW
Working Temperature	-20°C to 65°C at 0 to 95% relative humidity

Size	378 x 80 x 36 mm
Weight	approximately 300 g
Material	Shock resistant, impact resistant ABS plastic

11. GC-1002 Handheld Security Metal Detector

The GC-1002 needs no adjustment at all, and its detection distance holds steady as the 9 V battery drops from 9 V to about 7 V, which is what stops performance quietly degrading through a shift. It runs 20 kHz with sound and vibration alarms, works about 40 hours continuously, and weighs 450 g at 417 x 87 x 41 mm.

Key benefits

- No adjustment required, nothing for an operator to set wrong
- Detection distance holds steady as the battery falls from 9 V to about 7 V
- About 40 hours of continuous work on low power consumption
- Automatic continuous alarm when the battery is exhausted
- External rechargeable socket and hand-off switch for audio, light and vibration

Specification

Model	GC-1002
Dimension	417 x 87 x 41 mm
Working Frequency	20 kHz
Alarm Mode	Sound and vibration
Weight	450 g
Power	Standard 9 V laminated alkaline battery
Continuous Working Time	approximately 40 hours
Battery Behaviour	detection distance unchanged from 9 V down to about 7 V; automatic continuous alarm when exhausted

12. V160-E Handheld Metal Detector with Object Size Indication

The V160-E changes its alarm as the amount of detected metal changes, so an operator gets a sense of object size rather than a flat alarm. It is ultra-high sensitivity for magnetic and non-magnetic metal, holds its setting without periodic calibration, and runs about 100 hours on AA cells or 500 hours on the dedicated lithium pack.

Key benefits

- Alarm indication changes with the amount of metal detected, indicating object size
- Ultra-high sensitivity to extremely small non-magnetic metal objects
- Stable performance without periodic calibration
- About 100 hours on AA cells, 500 hours on the dedicated lithium battery
- 300 g in shock and impact resistant ABS

Specification

Model	V160-E
Sensitivity	Low, normal and high
Alarm Mode	Visual and audible, or visual and vibration, changing with detected metal content
Power Supply	2 x AA cells (1.2 V rechargeable or 1.5 V standard)
Continuous Use	approximately 100 hours, or 500 hours with the dedicated lithium battery
Charging Interface	USB Type-C

Standby Power Consumption	30 mW
Working Temperature	-20°C to 65°C at 0 to 95% relative humidity
Size	378 x 80 x 36 mm
Weight	approximately 300 g
Material	Shock resistant, impact resistant ABS plastic

13. Compact Handheld Security Metal Detector with Holster

A compact security wand with published detection distances by target: a pin at 30 to 60 mm, a 64-model handgun at 150 mm, a 3.6 inch knife at 160 mm and a 20 mm steel ball at 90 mm. It needs no adjustment, holds its detection distance as the battery falls from 9 V to about 7 V, runs 40 hours continuously, and the holster is included free.

Key benefits

- Published detection distances by target type
- No adjustment required before use
- Detection distance unchanged as the battery drops from 9 V to about 7 V
- 40 hours of continuous work on low power consumption
- Holster supplied free with the detector

Specification

Detection, Pin	30 to 60 mm
Detection, 64-Model Handgun	150 mm
Detection, 3.6 Inch Long Knife	160 mm
Detection, 20 mm Steel Ball	90 mm
Continuous Working Time	40 hours
Battery Behaviour	detection distance unchanged from 9 V down to about 7 V
Charger Voltage	9 V AC, 10 V DC (battery and charger to be provided by the buyer)
Alarm	Audio, light and vibration, with hand-off switch
Included	Holster supplied free

14. V-006 Handheld Security Metal Detector Wand

The V-006 has four sensitivity levels rather than the usual three, adding an ultra-high setting for extremely small non-magnetic objects. It detects a 25-cent coin at 60 mm, runs about 100 hours on standard batteries or up to 500 hours on the dedicated lithium pack, and weighs about 200 g at 350 x 80 x 60 mm.

Key benefits

- Four sensitivity levels including ultra-high for very small non-magnetic objects
- Detects a 25-cent coin at 60 mm
- About 100 hours standby, up to 500 hours on the dedicated lithium battery
- About 200 g, the lightest wand in this range
- Three alarm forms: sound, light and vibration

Specification

Sensitivity	Low, normal, high and ultra-high
Detection	25-cent coin at 60 mm
Power	Dedicated 7.4 V lithium, 9 V laminated or 9 V Ni-MH battery

Standby Time	about 100 hours, up to 500 hours with the dedicated lithium battery
Charger	Optional
Operating Temperature	-20°C to 65°C at 0 to 95% relative humidity
Size	350 x 80 x 60 mm
Weight	about 200 g
Material	Shock and impact resistant ABS plastic

15. PD-140 Security Metal Detector Wand

The PD-140 is a compact, robust wand with three sensitivity levels and all three standard alert types including vibrate, finding both ferrous and non-ferrous metal. Practical details set it apart: a secure twist-close battery compartment that will not shed a cell when dropped, an LED light for working in poor visibility, and a low battery indicator.

Key benefits

- Three sensitivity levels with all three standard alert types including vibrate
- Detects both ferrous and non-ferrous metals
- Secure twist-close battery compartment
- LED lighting for working in poor visibility
- Low battery indicator with long battery life

Specification

Sensitivity Levels	Three
Alert Types	All three standard types, including vibrate
Detection	Ferrous and non-ferrous metals
Battery	1 x 9 V, not included
Battery Compartment	Secure twist close
Indicators	Low battery indicator
Lighting	LED
Origin	Made in China
Warranty	6 month manufacturer's warranty

16. GC-3003 Airport Metal Detector Wand

The GC-3003 publishes detection distances by object: a pin at 30 to 60 mm, a 64-model handgun at 150 mm, a 6-inch knife at 160 mm and a 20 mm steel ball at 90 mm. Detection distance holds steady as the 9 V battery falls to 7 V, it self-checks on startup, and it works 40 hours continuously before a 4 to 6 hour recharge.

Key benefits

- Published detection distances by object type
- Detection distance unchanged as the battery drops from 9 V to 7 V
- 40 hours of continuous work, recharging in 4 to 6 hours
- Self-checks on startup and warns audibly or by vibration when the battery is low
- Audible, light and vibratory alarms selectable

Specification

Detection, Pin	30 to 60 mm
Detection, 64-Model Handgun	150 mm

Detection, 6-Inch Knife	160 mm
Detection, 20 mm Steel Ball	90 mm
Sensitivity	High and low
Continuous Working Time	40 hours
Charging Time	4 to 6 hours
Battery Behaviour	detection distance unchanged from 9 V down to 7 V
Alarms	Light, audible and vibratory
Material	ABS

17. GC-1002 Secure Wand Handheld Metal Detector

The GC-1002 has a graduated LED indicator: the light shifts from green to red according to the size of the object detected, so an operator judges a target rather than just hearing an alarm. It resets automatically in 0.5 seconds, runs over 40 hours on 250 mA, weighs 270 g without battery, and survives a 1 m free fall undamaged.

Key benefits

- LED colour changes from green to red with the size of the detected object
- Automatic reset in 0.5 seconds between checks
- Over 40 hours continuous working at 250 mA
- Survives a 1 m free fall without damage
- Plug-in socket charges rechargeable batteries in the machine

Specification

Power Supply	9 V battery
Power Consumption	270 mW maximum
Working Frequency	22 kHz
Standby Current	under 5 mA
Working Voltage	DC 7 to 12 V
Working Temperature	-10°C to 65°C
Reset Time	0.5 seconds, automatic
Net Weight	270 g without battery
Size	295 x 68 x 20 mm
Current Draw	250 mA, over 40 hours continuous
Drop Resistance	1 m free fall without damage
Battery Behaviour	detection range unchanged from 9 V down to about 7 V

18. GC-1001h Handheld Metal Detector

The GC-1001h uses four quick-set modes so an operator finds the right setting without trial and error, and the target indicator shows red for an alarm or green for clear. It runs at 30 kHz from a 9 V alkaline or lithium cell, resets automatically in 0.5 seconds, and weighs 225 g excluding battery at 375 x 77 x 26 mm.

Key benefits

- Four quick-set modes remove trial-and-error setting up
- Target indicator shows red for alarm and green for clear
- 30 kHz operation with 0.5 second automatic reset
- 225 g excluding battery, easy to hold for long periods

- Large detection area with rapid response

Specification

Frequency	30 kHz
Reset Time	0.5 seconds, automatic
Battery	9 V alkaline or lithium
Operating Temperature	15°C to 45°C
Size	375 x 77 x 26 mm
Weight	225 g excluding battery
Carton Size	40 x 34 x 22 cm
Carton Gross Weight	6 kg
Alarm Signal	Sound mode with buzzer and red LED, or vibration mode with red LED
Indicators	Flashing green LED on start-up, flashing red LED for low voltage

19. MD-3003B1 Super Scanner Handheld Metal Detector

The MD-3003B1 publishes detection distance by object: a .38 pistol at 20 cm, a small knife at 15 cm, a blade at 10 cm and a coin at 8 cm. Sensitivity can be dropped momentarily with a button or set permanently on a knob, which is what lets one operator pass a known metal object without re-tuning the wand. A belt holster is included.

Key benefits

- Published detection distances: pistol 20 cm, knife 15 cm, blade 10 cm, coin 8 cm
- Momentary sensitivity reduction by button, or permanent adjustment by knob
- About 60 hours of battery life with a low battery warning
- Belt holster supplied with the detector
- Balanced 409 g body, comfortable for extended use by any operator

Specification

Detection, .38 Pistol	20 cm
Detection, Small Knife	15 cm
Detection, Blade	10 cm
Detection, Coin	8 cm
Detection, Pin	30 to 60 mm
Alarm Indication	Simultaneous visual and audio LED, plus vibration
Operating Voltage	7 V to 9 V
Power Supply	9 V alkaline battery, rechargeable model available
Battery Life	approximately 60 hours, with low battery warning
Dimensions	410 x 86 x 46 mm
Weight	409 g
Material	ABS
Packing	25 units per carton
Included	Belt holster

20. MD-300 Security Handheld Wand Scanner

The MD-300 uses a circular detection area rather than a flat blade, which is what gives it a consistent response from any approach angle. It runs at 20 kHz, detects a 40 mm diameter target and 10 mm copper or aluminium sheet, weighs 272 g

including battery, and works about 40 hours from a single 9 V cell.

Key benefits

- Circular detection area giving consistent response from any angle
- 20 kHz operation with adjustable sensitivity
- 272 g including battery, light for extended screening
- About 40 hours normal working on one 9 V cell
- Audio, visual and vibration alerts plus a built-in LED flashlight

Specification

Operating Frequency	20 kHz
Weight	272 g including battery
Length	420 mm
Width	138 mm
Height	110 mm
Handle Measurement	30 x 30 mm
Control	Manual
Indicators	Buzzer and vibration motor
Battery	9 V, suitable for about 40 hours normal working
Detection, Diameter Target	40 mm
Detection, Copper and Aluminium Sheet	10 mm

21. GP-008 Handheld Metal Detector for Weapons and Explosives

The GP-008 is designed around one trade-off: combining high sensitivity with low noise, so the detection stays stable rather than chattering at the top of its range. A golden noise filter handles the interference, the detecting area is shaped for sensitivity, and the PC plus ABS moulding survives daily carrying.

Key benefits

- High sensitivity combined with low noise for stable, accurate detection
- Golden noise filter suppressing interference
- Detecting area shaped specifically to raise sensitivity
- PC plus ABS moulding, durable and easy to carry
- Rechargeable with a low battery indicator

Specification

Detected Metals	Iron, steel, copper, aluminium and others
Noise Handling	Golden noise filter
Indication	Audio tone or vibration
Material	PC plus ABS mould
Battery	Rechargeable, with low battery indicator
Frequency	TBC - the GP-008 Super Wand variant is specified at 35 kHz
Detection Distances	TBC - see the GP-008 Super Wand listing for published figures

22. VK-2022 Rechargeable Handheld Security Metal Detector

The VK-2022's Advanced Target Discrimination changes the alarm itself according to what it finds: volume alone shifts for a small target, while both tone and volume shift for a large one, so an operator hears the difference between a coin and a knife. It converts frequency automatically across 25 to 95 kHz, and has five sensitivity settings with a built-in lithium battery.

Key benefits

- Advanced Target Discrimination alters volume for small targets and tone plus volume for large ones
- Automatic frequency conversion across 25 to 95 kHz
- Five-speed sensitivity adjustment with sound, light and vibration alarms
- Built-in rechargeable lithium battery
- Clear low battery indication: audible alarm, red ALERT light and the green READY light stops flashing

Specification

Model	VK-2022
Sensitivity	Five-speed adjustment
Tone Identification	Advanced Target Discrimination, volume changes on small targets, tone and volume on large
Frequency	Automatic conversion, 25 to 95 kHz
Alarms	Sound, light, vibration and buzzer modes
Battery	Built-in rechargeable lithium
Charging	5 V, 1 A
Power Control	One-second long press to shut down, automatic shutdown after 15 minutes
Dimensions	41 cm x 8.2 cm x 4.41 cm
Low Battery Indication	Audible alarm, red ALERT light, green READY light stops flashing

X-Ray Inspection Systems and Portable Scanners

X-ray imaging beyond the fixed tunnel: handheld backscatter, portable panels and cargo systems.

1. PB-140 Handheld Backscatter X-Ray Imager

The Averguard PB-140 images from one side only, so there is nothing to place behind the target. That is what makes walls, vehicle panels, containers and aircraft panels inspectable at all in the field. A 140 kV tube penetrates 8 mm or more of steel at 1.5 mm wire resolution, and the whole system weighs 4.8 kg including battery with 8 hours of operating time.

Key benefits

- Single-sided imaging removes the need for rear access to the target
- 140 kV tube with steel penetration of 8 mm or more
- 4.8 kg including battery and 8 hours of operating time per charge
- Scan speed 150 to 300 mm/s with a maximum scan time of 25 seconds
- Rated from -20°C to 50°C for field rather than indoor-only use

Specification

Technology	Handheld backscatter X-ray, single-sided
Tube Voltage	140 kV
Steel Penetration	8 mm or more
Wire Resolution	1.5 mm
Scan Speed	150 to 300 mm/s
Maximum Scan Time	25 seconds
System Weight	4.8 kg plus or minus 0.1 kg including battery
Operating Time	8 hours
Storage	128 GB configurable
Dimensions	229 x 275 x 197 mm
Operating Temperature	-20°C to 50°C
Storage Temperature	-25°C to 60°C
Humidity	0 to 90% non-condensing

2. VKS-140S Handheld Backscatter X-Ray Imaging System

The Averguard VKS-140S is a handheld backscatter imaging system for teams that have to make a decision at the object, not back at a fixed scanner. A 140 kV / 10 W tube penetrates 4 mm or more of steel, images appear in real time on an 8-inch display, and the IP54 body with a 10.8 V / 6600 mAh battery runs 4 hours or more depending on operation mode. The whole unit is under 5 kg at 239 x 288 x 195 mm.

Key benefits

- Real-time imaging with stitching so adjacent passes read as one picture
- 140 kV / 10 W tube penetrating 4 mm or more of steel
- Under 5 kg and IP54 rated for field rather than bench use
- 4 hours or more per charge from a 10.8 V / 6600 mAh battery
- Linux system storing more than 10,000 scans

Specification

Technology	Handheld backscatter X-ray imaging
Tube Voltage	140 kV
Tube Power	10 W
Steel Penetration	4 mm or more
Scan Speed	150 to 300 mm/s
Maximum Scan Time	25 seconds
Display	8-inch
Operating System	Linux
Storage	more than 10,000 scans
Battery	10.8 V / 6600 mAh
Battery Life	4 hours or more depending on operation mode
Ingress Protection	IP54
Dimensions	239 x 288 x 195 mm
Weight	under 5 kg

3. VBXC-9000 Handheld Backscatter X-Ray Scanner

The VBXC-9000 images from one side, so objects against a wall, inside furniture, in a car door or in a tyre can be inspected at all. It discerns a 0.32 mm metal wire, reports a signal-to-noise ratio over 100 times higher than comparable foreign products, and is operated by one person from an integrated 8-inch tablet with dual laser positioning. The device weighs 5.8 kg without battery.

Key benefits

- Single-sided imaging reaches objects against walls, in doors and in tyres
- Discerns a 0.32 mm metal wire with superior noise control
- Signal-to-noise ratio over 100 times higher than comparable foreign products
- Single-person operation with a detachable 8-inch tablet
- 160 mm field of view at 5 cm, expanding with distance

Specification

Imaging Technology	Single-sided backscatter
Wire Discrimination	0.32 mm metal wire
Field of View	160 mm wide at 5 cm, expanding with distance
Detection Speed	300 mm/second with real-time image capture
Device Weight	5.8 kg excluding battery
Dimensions	212 x 300 x 143 mm excluding handle
Display	8-inch detachable tablet computer
Operating Time	approximately 4 hours

4. Logistics Security Screening X-Ray Cargo Scanner

This cargo scanner takes a 1500 x 1800 mm tunnel and 2000 kg on the conveyor, which puts full pallets inside the machine rather than beside it. Penetration is 32 mm of steel guaranteed and 34 mm typical from a 160 kV source, at 38 AWG guaranteed wire resolution, and X-ray leakage stays below 0.1 microsievert per hour at 5 cm from the housing.

Key benefits

- 1500 x 1800 mm tunnel with a 2000 kg conveyor load
- 32 mm steel penetration guaranteed, 34 mm typical
- 38 AWG wire resolution guaranteed, 40 AWG typical
- X-ray leakage below 0.1 microsievert/h at 5 cm from the housing
- Bi-directional conveyor running

Specification

Tunnel Size	1500 x 1800 mm
Conveyor Speed	0.22 m/s
Conveyor Height	350 mm
Conveyor Maximum Load	2000 kg
X-Ray Dose per Inspection	under 2.8 microsievert
Wire Resolution	38 AWG guaranteed, 40 AWG typical
Spatial Resolution	1.3 mm horizontal and vertical
Penetration	32 mm steel guaranteed, 34 mm typical
Penetration Resolution	32 AWG guaranteed, 34 AWG typical
Film Safety	ASA/ISO1600 guaranteed
X-Ray Leakage	under 0.1 microsievert/h at 5 cm from the external housing
Generator	160 kV, 1.2 mA
Conveyor Direction	Bi-directional
Noise	under 58 dB
Power	250 W

5. Ultra-Thin Portable X-Ray Baggage Scanner Panel

A 15 mm amorphous silicon panel imaging 430 x 350 mm at 2560 x 3072, with 16-bit dynamic range across 65536 grayscale levels. At 3.5 kg with a blind spot no greater than 18 mm above and below, it is the panel for portable screening where the detector has to be placed rather than the item brought to it. Gigabit Ethernet and 2.4 or 5.8 GHz wireless are both supported.

Key benefits

- 15 mm panel thickness at 3.5 kg for portable placement
- 2560 x 3072 image resolution over a 430 x 350 mm area
- 16-bit dynamic range with 65536 grayscale levels
- Blind spot no greater than 18 mm above and below
- Gigabit Ethernet plus 2.4 GHz or 5.8 GHz wireless

Specification

Receiving Screen Material	Amorphous silicon
Imaging Size	430 x 350 mm
Dimensions	460 x 460 x 15 mm
Image Resolution	2560 x 3072
Thickness	15 mm
Weight	3.5 kg
Blind Spot	not greater than 18 mm above and below
Image Dynamic Range	16 bits, 65536 grayscale levels
Wired Communication	100 Mbps and 1 Gbps Ethernet

Wireless Communication	2.4 GHz or 5.8 GHz
Storage Temperature	-15°C to 55°C
Humidity	93% non-condensing, continuous operation for 48 hours

6. VX8065 Entrance Security X-Ray Baggage Scanner

The VX8065 is an entrance scanner that works on hand luggage and checked baggage alike, with no set-up time before it is usable. It can stand alone at a door or be integrated into an existing security system, and it also handles cargo and container screening, which makes it a reasonable single purchase for a building with more than one screening need.

Key benefits

- Works equally on hand luggage and checked baggage
- Runs standalone or integrates into an existing security setup
- No set-up time required before use
- Also suitable for cargo and container scanning
- Frees staff from watching every bag entering the building

Specification

Model	VX8065
Application	Hand luggage, checked baggage, cargo and container scanning
Operation	Standalone or integrated into an existing security system
Tunnel Size	TBC - confirm at quotation
Steel Penetration	TBC - confirm at quotation
Conveyor Load	TBC - confirm at quotation

7. Customised Cargo Inspection X-Ray Luggage Scanner

This is a customised cargo and luggage X-ray system rather than a catalogue model: the configuration is built to the site. It detects concealed weapons, explosives and contraband in passenger luggage and in goods, with adjustable sensitivity, for airports, customs and border control. Machines from this line are supplied to military, police and airport customs users.

Key benefits

- Configuration customised to the site rather than a fixed catalogue model
- Adjustable sensitivity for different cargo and luggage types
- Detects concealed weapons, explosives and contraband
- Supplied to military, police department and airport customs users
- Suitable for both passenger luggage and goods

Specification

Application	Passenger luggage and cargo inspection
Sensitivity	Adjustable
Configuration	Customised to the site requirement
Tunnel Size	TBC - specified per project
Steel Penetration	TBC - specified per project
Conveyor Load	TBC - specified per project

8. Airport Bag Scanners and X-Ray Machines

This is the airport screening range rather than a single model: baggage scanners aimed at detecting explosives, liquids and hazardous materials in hand luggage, and X-ray inspection systems that scan carry-on and checked bags at the same position. The second type matters most where an airport has limited space or needs to compress screening time.

Key benefits

- Baggage scanners targeted at explosives, liquids and hazardous materials
- X-ray systems scanning carry-on and checked bags simultaneously
- Suited to airports with space constraints or accelerated screening needs
- Customisable models to match a specific airport's operation
- Reduces passenger waiting time at security checkpoints

Specification

Product Type	Airport baggage scanners and X-ray baggage inspection systems
Detection Focus	Explosives, liquids and hazardous materials
Scanning	Carry-on and checked bags, simultaneously on the inspection systems
Configuration	Customisable models per airport
Tunnel Sizes	TBC - specified per terminal requirement

9. Large Tunnel Luggage and Pallet Scan X-Ray Machine

This large-tunnel machine takes pallets and containers up to 1.5 m long, 1 m wide and 1.5 m high, so goods are screened as they are loaded rather than broken down first. It uses dual-energy imaging with backscatter reduction, LED tunnel lighting and real-time data processing, at image resolution up to 500 dpi.

Key benefits

- Accepts pallets and containers up to 1.5 x 1.0 x 1.5 m
- Dual-energy imaging with backscatter reduction technology
- Image resolution up to 500 dpi
- Real-time data processing
- LED tunnel lighting for clear item handling

Specification

Maximum Item Size	1.5 m long x 1.0 m wide x 1.5 m high
Imaging	Dual energy with backscatter reduction
Image Resolution	up to 500 dpi
Lighting	LED
Data Processing	Real time
Conveyor Load	TBC - confirm against your pallet weight

10. Airport Baggage Scanner in 6550 Tunnel Size

A 6550-size airport baggage scanner supplied with a 1 year warranty and easy installation, from a manufacturer with over 8 years in this equipment. The X-ray machine scans passenger luggage and passes the data to a computer system that flags bags for further examination, so operator attention goes to the bags that need it.

Key benefits

- 6550 tunnel size, the common standard for passenger checkpoints

- 1 year warranty included
- Easy to install with software designed for straightforward use
- Supplied by a manufacturer with over 8 years in this equipment
- Customised solutions available beyond the catalogue

Specification

Tunnel Size Class	6550
Warranty	1 year
Application	Airport and train station passenger luggage screening
Steel Penetration	TBC - confirm at quotation
Conveyor Load	TBC - confirm at quotation
Customisation	Available on request

11. VKX8065 Multi-Energy X-Ray Luggage Scanner

The VKX8065 takes an 805 x 652 mm tunnel with a 308 mm belt height, which is low enough that heavy cases are lifted onto it rather than up to it. Wire resolution is 38 AWG at 0.0787 mm, penetration 25 mm of steel from a 140 kV tube, and sealed oil cooling gives a 100% duty cycle at 53.8 dB(A).

Key benefits

- 805 x 652 mm tunnel taking carry-on through to oversized bags
- 308 mm belt height, low enough to load heavy cases easily
- 38 AWG wire resolution at 0.0787 mm metal wire
- 100% duty cycle from sealed oil cooling
- 53.8 dB(A) noise, quiet enough for a passenger terminal

Specification

Tunnel Size	805 x 652 mm
Conveyor Speed	0.20 m/s
Belt Height	308 mm
Maximum Load	under 100 kg, adequately distributed
Wire Resolution	38 AWG, 0.0787 mm metal wire
Spatial Resolution	1.0 mm horizontal and vertical
Penetration Definition	34 AWG
Penetration	25 mm steel board
Monitor	19 inch
Film Safety	ASA/ISO1600 standard
Tube Voltage	140 kV
Cooling	Sealed oil cooling, 100% duty cycle
Power Consumption	1 kVA
Noise	53.8 dB(A)

12. VKX 6550 Dual Energy X-Ray Baggage Scanner

The VKX 6550 pairs a 656 x 501 mm tunnel with 34 mm of steel penetration and a full operator toolkit: high density alarm, explosive and drug auxiliary detection, Threat Image Projection and a luggage counter, plus system and X-ray emission timers. Radiation leakage is 0.1 microgray per hour measured 5 cm from the surface.

Key benefits

- 34 mm steel penetration through a 656 x 501 mm tunnel
- Explosive and drug auxiliary detection with high density alarm
- Threat Image Projection for operator training and assessment
- System running and X-ray emitting timers for maintenance planning
- Leakage 0.1 microgray/h at 5 cm from the surface

Specification

Tunnel Size	656 x 501 mm
Conveyor Speed	0.20 m/s
Belt Height	664 mm
Maximum Load	under 100 kg, adequately distributed
Wire Resolution	38 AWG, 0.0787 mm metal wire
Spatial Resolution	1.0 mm horizontal and vertical
Penetration Definition	34 AWG
Penetration	34 mm steel board
Monitor	19 inch LED
Tube Voltage	140 kV
Cooling	Sealed oil cooling, 100% duty cycle
Single Inspection Dose	under 1.0 microgray
Radiation Leakage	0.1 microgray/h at 5 cm from the surface
Machine Size	1875 x 934 x 1300 mm
Package Size	2040 x 1020 x 1530 mm
Package Weight	220 kg
Power Consumption	1 kVA
Noise	53.8 dB(A)

13. VKX 6040 X-Ray Security Screening Machine

The VKX 6040 publishes both typical and guaranteed figures, which is the honest way to quote a scanner: 38 mm steel penetration typical against 34 mm guaranteed, AWG40 wire resolution typical against AWG38 guaranteed. It takes 150 kg on the conveyor through a 615 x 418 mm tunnel at 0.22 m/s, drawing at most 0.8 kVA.

Key benefits

- Typical and guaranteed figures published separately for penetration and resolution
- 150 kg conveyor load, higher than most scanners in this tunnel class
- 0.22 m/s conveyor speed through a 615 x 418 mm tunnel
- Maximum 0.8 kVA power consumption
- Film safety guaranteed to ASA/ISO1600

Specification

Unit Weight	455 kg
Unit Size	2648 x 844 x 1234 mm
Tunnel Size	615 x 418 mm
Conveyor Speed	0.22 m/s
Conveyor Height	680 mm

Conveyor Maximum Load	150 kg
Penetration	38 mm steel typical, 34 mm guaranteed
Wire Resolution	AWG40 typical, AWG38 guaranteed
X-Ray Dose per Inspection	2.5 microgray/h typical, 3.5 microgray/h guaranteed
Boundary Leakage	1.0 microgray/h typical, 1.5 microgray/h guaranteed
Power Consumption	maximum 0.8 kVA
Signal to Noise Ratio	under 60 dB
Film Safety	guaranteed ASA/ISO1600

14. VKX 5030C Dual Energy Baggage X-Ray Scanner

The VKX 5030C is the mail-room and parcel machine: a compact 506 x 300 mm tunnel, but 38 mm of steel penetration, which is more than the larger VKX 6550 manages. It carries the full operator toolset including explosive and drug auxiliary detection and Threat Image Projection, in a heavy-duty steel body drawing only 0.5 kVA.

Key benefits

- 38 mm steel penetration, the highest in the VKX range, in the smallest tunnel
- Compact 506 x 300 mm tunnel for mail and parcels
- Explosive and drug auxiliary detection with high density alarm
- Only 0.5 kVA power consumption at 53.8 dB(A)
- Heavy duty steel body with an internal cooling system

Specification

Tunnel Size	506 x 300 mm
Conveyor Speed	0.20 m/s
Belt Height	664 mm
Maximum Load	under 100 kg, adequately distributed
Wire Resolution	38 AWG, 0.0787 mm metal wire
Spatial Resolution	1.0 mm horizontal and vertical
Penetration Definition	34 AWG
Penetration	38 mm steel board
Monitor	19 inch LED
Tube Voltage	140 kV
Cooling	Sealed oil cooling, 100% duty cycle
Single Inspection Dose	under 1.0 microgray
Radiation Leakage	0.1 microgray/h at 5 cm from the surface
Package Size	1475 x 784 x 1100 mm
Console Desk Size	1690 x 870 x 1330 mm
Package Weight	220 kg
Power Consumption	0.5 kVA
Noise	53.8 dB(A)

15. VKX5030A X-Ray Baggage Scanner

The VKX5030A is the 80 kV entry point of the VKX line: the same 506 x 300 mm tunnel and 38 AWG wire resolution as the 5030C, at 8 mm steel penetration. It runs an embedded Windows system on a multicore ARM platform, low power and energy saving, with real-time status monitoring of the device.

Key benefits

- 506 x 300 mm tunnel for mail, parcels and small luggage
- 38 AWG wire resolution at 0.0787 mm metal wire
- Embedded Windows system on multicore ARM, low power and energy saving
- Real-time status monitoring of the device
- Explosive and drug auxiliary detection with TIP and luggage counter

Specification

Tunnel Size	506 x 300 mm
Conveyor Speed	0.20 m/s
Belt Height	664 mm
Maximum Load	under 100 kg, adequately distributed
Wire Resolution	38 AWG, 0.0787 mm metal wire
Spatial Resolution	1.0 mm horizontal and vertical
Penetration Definition	34 AWG
Penetration	8 mm steel board
Monitor	19 inch LED
Tube Voltage	80 kV
Cooling	Sealed oil cooling, 100% duty cycle
Single Inspection Dose	under 1.0 microgray
Package Weight	220 kg
Noise	53.8 dB(A)
Construction	304 stainless steel elements

Industrial Metal Detectors for Food Processing

Conveyor and gravity detectors that keep metal out of finished food, and the evidence to prove it.

1. FSD-2025 Conveyor Metal Detector

The FSD-2025 is a conveyor metal detector for food and pharmaceutical lines where the product itself interferes with detection. Multi-frequency combination detection and a product setup that accounts for temperature, moisture, shape, salt content or frozen state are what let it run on wet, salty or frozen product instead of only on dry packaged goods. Construction is mirror-finish 304 stainless steel.

Key benefits

- Multi-frequency combination detection technology for difficult product effect
- Product setup accounts for temperature, moisture, shape, salt content or frozen state
- Conveyor speed fixed or adjustable from 5 to 50 m/min to match the line
- Mirror-finish 304 stainless steel construction for washdown areas
- Reject signal output plus optional gantry rejection for automated removal

Specification

Detection Technology	Multi-frequency combination detection
Conveyor Speed	5 to 50 m/min, fixed or adjustable
Power Supply	AC 220 V, 50 to 60 Hz
Alarm Modes	Sound/light alarm, alarm shutdown, shutdown reversal, reject signal output
Rejection	Optional gantry rejection
Conveyor Belt	Food-grade PU belt or chain plate
Construction	Mirror-finish 304 stainless steel
Operating Temperature	0 to 38°C
Operating Humidity	below 80%

2. FSD-2024SS Stainless Steel Conveyor Metal Detector

The FSD-2024SS is a full stainless steel conveyor metal detector built around an imported German control unit. It detects both magnetic and non-magnetic contaminants in bulk and packaged product, and uses a sealed stainless-steel detection coil, which is the part that normally fails first in a washdown line.

Key benefits

- Detects magnetic and non-magnetic metal contaminants alike
- Imported German control unit rather than a generic controller
- Sealed stainless-steel detection coil survives daily washdown
- Full stainless steel construction throughout
- Alarm-stop reject method halts the belt on detection

Specification

Detection	Magnetic and non-magnetic metal contaminants
Control Unit	Imported German control unit
Detection Coil	Sealed stainless steel

Transport	Conveyor
Reject Method	Alarm and stop
Construction	Full stainless steel

3. FSD-2023 Conveyor Belt Metal Detector

The FSD-2023 is the model to quote when a specification asks for numbers. It publishes a 500 x 150 mm detection window, empty-machine sensitivity of Fe 1.0 mm and non-Fe 1.5 mm, a 50 kg maximum product weight and 20 to 30 m/min belt speed, all in 304 stainless steel with a food-grade PU belt and a sealed detection coil.

Key benefits

- Published empty-machine sensitivity: Fe 1.0 mm and non-Fe 1.5 mm
- 500 x 150 mm detection window on a 2000 x 400 mm conveyor
- Handles product up to 50 kg at 20 to 30 m/min
- 304 stainless steel construction with a food-grade PU belt
- Only 0.25 kW power consumption on a standard AC 220 V supply

Specification

Detection Window	500 x 150 mm
Conveyor Dimensions	2000 x 400 mm
Overall Dimensions	2000 x 900 x 1080 mm
Height	800 mm plus or minus 100 mm
Construction	304 stainless steel
Power Supply	AC 220 V, 50/60 Hz
Power Consumption	0.25 kW
Detection Sensitivity (empty machine)	Fe 1.0 mm / non-Fe 1.5 mm
Maximum Product Weight	50 kg
Conveyor Speed	20 to 30 m/min
Conveyor Belt	Food-grade PU belt
Alarm Type	Alarm and stop reject method

4. FSD-2020S Digital Touchscreen Conveyor Metal Detector

The FSD-2020S is aimed at lines that change product often. It stores up to 12 detection parameter sets, so a changeover is a screen selection rather than a re-tune, and its automatic product-effect learning builds the setting for a new item instead of an operator guessing it. Digital signal processing on an imported chipset drives a potted detection coil.

Key benefits

- Stores up to 12 detection parameter sets for fast product changeover
- Automatic product-effect learning and memory for new items
- Multiple selectable operating frequencies to suit different product types
- Potted detection coil for durability and interference resistance
- Optional reject mechanism for automated removal

Specification

Technology	Digital signal processing with imported chips
Detection Coil	Potted, sealed construction

Display	Touchscreen interface
Product Memory	up to 12 detection parameter sets
Frequency	Multiple selectable frequencies
Conveyor Belt	Needle-free food-grade PU belt
Alarm	Sound/light alarm with automatic stop
Reject	Optional reject mechanism

5. FSD-2010SS Digital LCD Conveyor Metal Detector

The FSD-2010SS is the entry point into the FSD conveyor range: a digital LCD conveyor metal detector for packaged and bulk food inspection lines. It covers the same job as the rest of the family, inline detection of metal contamination before product leaves the line, with an LCD interface rather than a touchscreen.

Key benefits

- Inline metal contamination check on packaged and bulk food
- Digital LCD interface for straightforward operator use
- Conveyor format that drops into an existing line layout
- Part of the FSD family, so parts and service are shared across models

Specification

Type	Digital LCD conveyor metal detector
Application	Packaged and bulk food inspection lines
Detection Window	TBC - confirm with the supplier for your pack size
Conveyor Speed	TBC - confirm against your line speed
Power Supply	TBC - confirm for your site voltage

6. VXR-G2 X-Ray Food Inspection Machine

The VXR-G2 catches what a metal detector cannot: glass and ceramic down to 1.0 mm diameter alongside SUS304 balls at 0.3 mm and wires at 0.2 x 2 mm. A 210 W source works through a 0.4 mm detector over a 200 x 150 mm pass-through, at belt speeds from 10 to 60 m/min, in a full 304 stainless steel frame.

Key benefits

- Detects glass and ceramic at 1.0 mm diameter, not only metal
- SUS304 ball detection at 0.3 mm and wire at 0.2 x 2 mm
- 200 mm pass-through width and 150 mm height for a wide product range
- Belt speed adjustable from 10 to 60 m/min
- Full 304 stainless steel construction for hygiene and corrosion resistance

Specification

X-Ray Source	210 W
Detector	0.4 mm
Pass-Through Width	200 mm
Pass-Through Height	150 mm
Conveyor Speed	10 to 60 m/min adjustable
Detection, SUS304 Ball	0.3 mm diameter
Detection, SUS304 Wire	0.2 x 2 mm
Detection, Glass Ball	1.0 mm diameter

Detection, Ceramic Ball	1.0 mm diameter
Construction	Stainless steel 304
Power Supply	220 V

7. Conveyor Belt Metal Detector with Flap Reject

This conveyor detector publishes what most do not: Fe 0.5 mm, Cu 0.8 mm and SUS 1.2 mm sensitivity through a 400 x 80 mm tunnel. Phase-adapted technology cancels product effect, a DSP and microprocessor pair handles the signal, and a self-learning function stores product settings so a changeover is a selection rather than a re-tune.

Key benefits

- Published sensitivity: Fe 0.5 mm, Cu 0.8 mm, SUS 1.2 mm
- Phase-adapted technology cancels product effect
- Self-learning stores product settings, 12 as standard and 100 optional
- Automatic flap rejection removes failed product without stopping the line
- 304 stainless construction, with 316 available

Specification

Detecting Tunnel	400 mm wide x 80 mm high, customisable
Belt Height from Ground	670 mm, customisable
Detecting Method	Electromagnetic wave
Sensitivity	Fe 0.5 mm, Cu 0.8 mm, SUS 1.2 mm
Sensitivity Degree	100 degrees
Alarm Mode	Flap reject, sound and light alarm, belt stop, other reject devices
Conveyor Speed	fixed 20 m/min or adjustable 15 to 30 m/min
Product Memory	12 products, 100 optional
Input Power	single phase 220 V AC or 110 V AC, 200 W
Construction Material	304 SUS, 316 SUS available
Machine Weight	140 kg
Language	Chinese and English by default, others customisable

8. Pipe Feed Metal Detector for Sauce and Liquid Lines

A conveyor detector cannot inspect a product that travels through a pipe. This pipe feed detector sits in the pipeline itself, checking sauce and similar pumped product for metal particles before they reach filling, which is the last point at which a contaminated batch can still be stopped.

Key benefits

- Inspects product inside the pipeline, where a conveyor detector cannot reach
- Catches metal particles before the product reaches filling
- Fits into an existing sauce production line
- Also usable in food packaging and machinery manufacturing applications
- Protects both product quality and downstream equipment

Specification

Installation	In-line, pipeline mounted
Application	Sauce and pumped food products

Pipe Diameter	TBC - confirm against your pipework
Sensitivity	TBC - confirm against your product
Reject Method	TBC - confirm at quotation
Construction Material	TBC - confirm at quotation

9. Food Safety Conveyor Metal Detection System

A complete conveyor detection system in AISI 304 stainless with profiles closed on all sides, which is the construction detail that decides whether a frame can actually be cleaned. It carries CE conformity and DDM declarations, runs 12 to 24 m/min, and supports in-process or end-of-line protection under IFS, BRC, HACCP and ISO 22000 requirements.

Key benefits

- AISI 304 stainless frame with profiles closed on all sides for cleaning
- CE Declaration of Conformity and Declaration of Manufacturer supplied
- Belt speed 12 to 24 m/min to match different food lines
- Different belt types and ejection systems available per application
- Usable in process or at end of line

Specification

Frame	Stainless steel AISI 304 / ISO 1.4301 CrNi 18/10, profiles closed on all sides
Feet	Adjustable feet standard, castor wheels available
Enclosure Rating	IP54
Height	800 mm plus or minus 100 mm, other heights possible
Belt Speed	12 to 24 m/min with belt controls STR/STL, other options on request
Motor	0.25 kW, or 0.25 kW worm gear motor
Product Weight	16 kg standard, other weights available
Power Supply	220 to 240 V AC 1ph 50/60 Hz, or 110 V AC 1ph 60 Hz
Conformity	CE Declaration of Conformity and Declaration of Manufacturer

10. VMF-Inclined All Metal Detector for Food Manufacturing

The VMF-Inclined publishes detection down to Fe 0.25 mm, with non-ferrous at 3.8 mm and SUS304 at 4.0 mm, through an aperture selectable from 100 to 1500 mm wide by 80 to 60 mm high. Its inclined conveyor is what lets it sit under a drop or feed point rather than needing a flat run of line.

Key benefits

- Fe 0.25 mm detection sensitivity, the finest published in this range
- Aperture selectable from 100 to 1500 mm wide
- Inclined conveyor fits under a drop or feed point
- Memory for 12 or 100 product types with advanced auto-learn
- Stainless steel structure meeting HACCP requirements

Specification

Model	VMF-Inclined
Detection Method	Balanced coil
Aperture Size	100 to 1500 mm width x 80 to 60 mm height, optional
Sensitivity	Fe 0.25 mm, non-ferrous 3.8 mm, SUS304 4.0 mm

Conveyor Length	1840 mm
Outfeed Height	1078 mm
Belt Width	410 mm
Belt Speed	20 m/min
Alarm Method	Beeper and stop
Power Source	220 V, 50 Hz, single phase
Dimensions	1840 x 910 x 1290 mm
Weight	260 kg
Product Memory	12 or 100 types

11. All-Purpose Food Metal Detector with Stainless Conveyor

An all-purpose food line detector in solid AISI 304 stainless with profiles closed on all sides, detecting ferrous and non-ferrous metals including stainless steel. It runs 12 to 24 m/min, stands 800 mm high plus or minus 100 mm, and ships with CE Declaration of Conformity and Declaration of Manufacturer.

Key benefits

- Detects ferrous and non-ferrous metals including stainless steel
- 100% stainless steel construction, easy to clean
- Belt speed 12 to 24 m/min for a variety of food lines
- Different belt types and ejection systems per application
- CE Declaration of Conformity and Declaration of Manufacturer supplied

Specification

Frame	Stainless steel AISI 304 / ISO 1.4301 CrNi 18/10, profiles closed on all sides
Feet	Adjustable feet standard, castor wheels available
Enclosure Rating	IP54
Height	800 mm plus or minus 100 mm, other heights possible
Belt Speed	12 to 24 m/min with STR/STL belt control, others on request
Motor	0.25 kW or 0.25 kW worm gear, stronger on request
Product Weight	16 kg as standard, other weights possible
Power Supply	220 to 240 V AC 1ph 50/60 Hz, or 110 V AC 1ph 60 Hz
Detected Metals	Ferrous and non-ferrous, including stainless steel
Conformity	CE Declaration of Conformity and Declaration of Manufacturer

12. LCD Auto-Learning Conveyor Belt Metal Detector

Automatic phase adjustment is what makes this detector usable on product that defeats ordinary machines: frozen food, meat, fish, pickled products and rice all carry a strong product effect, and the phase adjustment blocks it. Sensitivity is then set automatically per product and stored, with memory for more than 50 products.

Key benefits

- Automatic phase adjustment blocks product effect on frozen food, meat, fish, pickled goods and rice
- Intelligent setting adjusts sensitivity automatically for each product
- Memory storing detection parameters for more than 50 products
- Detects ferrous, non-ferrous and stainless steel
- SUS304 stainless construction with a removable rack for cleaning

Specification

Detection	Ferrous, non-ferrous and stainless steel
Product Effect Handling	Automatic phase adjustment
Product Memory	more than 50 products
Display	LCD touch screen, English and Chinese menus
Construction	Stainless steel SUS304, removable rack
Motor	High-grade protection motor selectable
Aperture Size	TBC - confirm against your product
Belt Speed	adjustable, confirm range at quotation

13. Food Grade Stainless Steel Metal Detector with Rejection

A stainless steel conveyor detector for food production, supplied with a rejection system so contaminated product leaves the line automatically. Conveyors can be built from non-metal materials and combined with the detector, which is what allows the detection field to stay clean of interference from the conveyor itself.

Key benefits

- Rejection system removes contaminated product automatically
- Non-metal conveyor materials available to keep the detection field clean
- Detection requirements customised to the specific metal objects of concern
- Stainless steel construction for food-industry cleaning
- Protects both the product and the consumer

Specification

Type	Conveyor metal detector with rejection
Construction	Stainless steel
Conveyor Materials	Non-metal materials available
Detection Specification	Customised to the customer's metal object requirement
Aperture Size	TBC - confirm against your product
Sensitivity	TBC - customised to the application
Reject Type	TBC - confirm at quotation

Metal Detector Search Coils

Replacement and upgrade search coils from 5 to 25 inches, in mono and DD, made rather than rebadged.

1. 25 Inch Mono Search Coil for Gold and Metal Detectors

A 25 inch mono coil covers far more ground per sweep than a standard coil, which is what makes it the size most often chosen for open gold ground. These coils are built to work with a range of detector makes, in durable materials specified to hold up in rain, snow and wind, and are offered alongside 12, 20 and 30 inch sizes.

Key benefits

- 25 inch diameter covers more ground per sweep on open terrain
- Designed to work with a range of detector makes
- Durable construction for rain, snow and wind
- Part of a size range including 12, 20 and 30 inch coils
- Available in clear and black finishes

Specification

Type	Mono search coil
Size	25 inches
Application	Gold and metal detectors
Finishes	Clear and black
Other Sizes Available	12, 20 and 30 inch
Connector and Cable Length	TBC - confirm against your detector model

2. 22 Inch DD Search Coil for Metal Detectors

A 22 inch DD coil is the large-coverage option for ground that a mono coil struggles with. These are manufactured by Viboo in Dongguan rather than rebadged, designed to be compatible with common detector brands, and built in durable materials for repeated digging and rough handling.

Key benefits

- 22 inch DD configuration for large-area coverage
- Designed for compatibility with popular detector brands
- Manufactured directly rather than rebadged
- Durable materials for intensive digging use
- Available in a range of lengths and diameters

Specification

Type	DD search coil
Size	22 inches
Application	Gold and metal detectors
Manufacturer	Viboo, Dongguan
Connector and Cable Length	TBC - confirm against your detector model

3. 18 Inch Mono Search Coil with 2 Ohm Impedance

An 18 inch mono coil wound in copper with a 2 ohm impedance, for detecting coins, jewellery and other metallic objects. The 2 ohm figure is the one that matters when matching a coil to a detector circuit, because it determines whether the coil will tune correctly with the machine you already have.

Key benefits

- 2 ohm impedance stated, so it can be matched to a detector circuit
- Copper winding for consistent sensitivity
- 18 inch diameter balances coverage against weight
- Switch control allows power to be cut when not needed
- Supplied with the accessories needed to fit it

Specification

Type	Mono search coil
Size	18 inches
Impedance	2 ohm
Winding Material	Copper
Control	Switch for current flow and coil selection
Documentation	No instruction manual supplied
Connector and Cable Length	TBC - confirm against your detector model

4. 14 Inch Mono Search Coil in Yellow Housing

A 14 inch mono search coil in a yellow housing, supplied with a 2 x 3 inch mounting bracket so it can be fitted to a range of stems. It detects both ferrous and non-ferrous metal, including gold, brass, copper, silver and aluminium, and is built for outdoor exposure rather than occasional use.

Key benefits

- 14 inch mono coil, a practical balance of coverage and sweep weight
- Supplied with a 2 x 3 inch mounting bracket
- Detects ferrous and non-ferrous metal alike
- Built to withstand outdoor weather exposure
- High-visibility yellow housing, easy to find if put down in the field

Specification

Type	Mono search coil
Size	14 inches
Housing Colour	Yellow
Mounting Bracket	2 x 3 inch, supplied
Detected Metals	Ferrous and non-ferrous, including gold, brass, copper, silver and aluminium
Connector and Cable Length	TBC - confirm against your detector model
Impedance	TBC - confirm against your detector circuit

5. 14 Inch Pure Colour Metal Detector Search Coil

The same 14 inch search coil in a pure white housing, manufactured rather than resold, with coil sizes customisable to a buyer's requirement. It detects iron, copper, nickel, gold, silver, platinum and zinc, in the ground or under water, and is straightforward to fit to an existing detector.

Key benefits

- Coil size customisable to the buyer's requirement
- Detects iron, copper, nickel, gold, silver, platinum and zinc
- Usable for objects in the ground or under water
- Easy to install on an existing detector
- Manufactured directly rather than resold

Specification

Type	Search coil
Size	14 inches, custom sizes available
Housing Colour	Pure white
Detected Metals	Iron, copper, nickel, gold, silver, platinum and zinc
Use Conditions	In the ground or under water
Connector and Cable Length	TBC - confirm against your detector model
Impedance	TBC - confirm against your detector circuit

6. 12 x 15 Inch Mono Search Coil

An elliptical 12 x 15 inch mono coil, which is the shape to choose when you want the coverage of a large coil without the width getting in the way. It fits handheld, walk-behind and pull-behind detectors, and is made from fine wire in a construction specified for long service.

Key benefits

- Elliptical 12 x 15 inch shape gives coverage without excess width
- Fits handheld, walk-behind and pull-behind detector types
- Fine wire winding for sensitivity
- Durable construction for long service life
- Manufactured and exported directly

Specification

Type	Mono search coil
Size	12 x 15 inches, elliptical
Detector Types	Handheld, walk-behind and pull-behind
Winding	Fine wire
Connector and Cable Length	TBC - confirm against your detector model
Impedance	TBC - confirm against your detector circuit

7. 12 x 15 Inch DD Search Coil in Pure Copper

The DD version of the 12 x 15 inch elliptical coil, wound in pure copper. Copper resists corrosion and conducts well, which is what holds sensitivity over a long service life, and the DD winding is what makes the coil usable on mineralised ground where a mono coil struggles.

Key benefits

- DD winding handles mineralised and trashy ground
- Pure copper winding resists corrosion and conducts efficiently
- 12 x 15 inch elliptical form for coverage without excess width
- Sensitive to small amounts of precious metal

- Part of a coil range including water, ground-level and concrete types

Specification

Type	DD search coil
Size	12 x 15 inches, elliptical
Winding Material	Pure copper
Target Metals	Gold, silver and other precious metals
Connector and Cable Length	TBC - confirm against your detector model
Impedance	TBC - confirm against your detector circuit

8. 11 Inch DD Search Coil with Strong Structure

An 11 inch DD coil offered in three sensitivity builds rather than one: standard for general work, reduced for low-level conditions, and ultra-sensitive where extra response is needed. It detects aluminium, steel, copper, iron and other metals, in a structure specified to hold up under daily field use.

Key benefits

- Three sensitivity versions: standard, reduced and ultra-sensitive
- 11 inch DD size, light enough to sweep all day
- Detects aluminium, steel, copper, iron and more
- Strong structure for the rigours of everyday use
- DD winding suits mineralised and trashy ground

Specification

Type	DD search coil
Size	11 inches
Sensitivity Versions	Standard, reduced and ultra-sensitive
Detected Metals	Aluminium, steel, copper, iron and others
Connector and Cable Length	TBC - confirm against your detector model
Impedance	TBC - confirm against your detector circuit

9. 11 Inch Mono Search Coil in Camouflage

An 11 inch mono coil in a camouflage housing, which is the point for anyone detecting where a bright coil would be conspicuous. The smaller mono form is easier to store and carry than a large coil, and it works with any handheld detector that takes a regular mono coil.

Key benefits

- Camouflage housing for discreet field use
- 11 inch mono form, compact to store and carry
- Works with handheld detectors that take a regular mono coil
- Lightweight and portable for long sessions
- Durable materials for regular outdoor use

Specification

Type	Mono search coil
Size	11 inches
Housing	Camouflage colour

Compatibility	Handheld detectors using regular mono coils
Connector and Cable Length	TBC - confirm against your detector model
Impedance	TBC - confirm against your detector circuit

10. 8 Inch Mono Search Coil in Blue Polypropylene

An 8 inch mono coil housed in polypropylene, a material chosen because it takes the heat the coil generates in use and resists chemicals, oil and water. Average resistance is 4 ohms, which is the figure to check against your detector circuit. Supplied as a kit of 2 coils with one 6 foot cable.

Key benefits

- Polypropylene housing resists heat, chemicals, oil and water
- 4 ohm average resistance stated for circuit matching
- Small 8 inch coil for confined and trashy ground
- Supplied as 2 coils with one 6 foot cable
- Good sensitivity on coins and jewellery

Specification

Type	Mono search coil
Size	8 inches
Housing Material	Polypropylene
Average Resistance	4 ohms
Housing Colour	Blue
Kit Contents	2 coils with 1 cable, 6 feet
Target Metals	Gold, silver and other precious metals, coins and jewellery

11. 5 Inch DD Search Coil for Gold Detectors

A 5 inch DD coil is the smallest practical size in this range, and it exists for one job: separating small gold targets from the ground and junk around them. A small coil concentrates the field over a narrow area, which is what lets a detector resolve a nugget that a larger coil would blur into the background.

Key benefits

- 5 inch size concentrates the field for small gold targets
- DD winding suits mineralised gold-bearing ground
- Light on the stem, so slow careful sweeping is practical
- Reaches into rock gaps and confined ground a large coil cannot
- Part of a coil range covering 5 to 25 inches

Specification

Type	DD search coil
Size	5 inches
Application	Gold metal detectors
Connector and Cable Length	TBC - confirm against your detector model
Impedance	TBC - confirm against your detector circuit

Educational Metal Detectors for Children

Light, simple detectors that get a child outdoors and teach them how detection actually works.

1. MD-1008A Junior Metal Detector

The MD-1008A is a junior detector built around a 55.3 kHz circuit that picks up a single coin at 10 mm, with both sound and LCD indication so a child can see as well as hear a find. It stretches to 6.1 inches with a 6.77 inch coil, weighs 0.495 kg, and runs from a single 9 V battery.

Key benefits

- 55.3 kHz operating frequency detecting a single coin at 10 mm
- Both sound and LCD indication modes
- 0.495 kg, light enough for a child to carry on a walk
- Standard 9 V battery, replaceable anywhere
- Simple operation with sensitive control

Specification

Power	9 V (6F22)
Frequency	55.3 kHz
Current	standby 20 mA, maximum 70 mA
Voltage	7 V to 9 V
Sensitivity	one coin at 10 mm
Indication Mode	Sound mode and LCD mode
Stretch Length	6.1 inches
Detector Diameter	6.77 inches
Colour	Black
Weight	0.495 kg
Package Weight	0.7 kg
Package Size	13.58 x 7.28 x 3.15 inches

2. MD-1006 Toy Metal Detector

The MD-1006 is a complete starter set rather than a bare detector: carrying case, manual, 9 V battery, headphones and a shovel are included. It runs at 22 kHz, detects a single coin at 100 to 300 mm, and an alkaline battery lasts over 45 hours because detection distance holds steady even as the 9 V cell drops toward 7 V.

Key benefits

- Complete kit: case, manual, 9 V battery, headphones and shovel included
- Detection of a single coin at 100 to 300 mm
- Over 45 hours on an alkaline battery
- Detection distance stays steady as the battery drops from 9 V to 7 V
- Sound alarm when switching on and off confirms it is working

Specification

Power	9 V (6F22)
Frequency	22 kHz
Current	standby 10 mA, maximum 30 mA

Voltage	7 to 9 V
Sensitivity	one coin at 100 to 300 mm
Indication Mode	Sound mode
Stretch Length	15 to 27 inches
Colour	Black and yellow
Weight	540 g excluding battery
Package Weight	650 g
Package Size	23.6 x 7.1 x 2.4 inches
Battery Life	over 45 hours on alkaline

3. MD-1005 Handheld Kids Metal Detector

The MD-1005 has exactly one button: on and off. When it finds metal it alarms with sound and an LED, and that is the whole interface. It runs at 22 KHz from a 9 V battery, detects a hat pin at 30 mm and a US 25 cent coin at 50 mm, and ships with an English user manual, six pieces per carton.

Key benefits

- One button only, on and off, nothing for a child to mis-set
- Sound and LED alarm together on detection
- Detects a hat pin at 30 mm and a 25 cent coin at 50 mm
- Standard 9 V battery
- English user manual supplied

Specification

Power	9 V (6F22)
Operating Frequency	22 kHz
Operating Current	under 50 mA
Operating Voltage	7 V to 9 V
Sensitivity	30 mm at a hat pin, 50 mm at a USD 25 cent coin
Packing	6 pieces per carton
Colour	Blue or other colour
Weight	540 g
User Manual Language	English

4. MD-1011 Outdoor Metal Detector for Kids

The MD-1011 is the latest of the children's detectors in this range: light, easy to operate and fitted with an LCD, for finding lost coins, jewellery and other metal objects. It is aimed squarely at getting a child outdoors and interested in how detection works, and it packs 20 pieces per carton for retail supply.

Key benefits

- Latest model in the children's detector range
- LCD display rather than sound-only indication
- Light weight with easy operation for young users
- Suited to science education and parent-child activity
- Packed 20 pieces per carton for retail supply

Specification

Display	LCD
Unit Box Size	59.5 x 17.5 x 6 cm, 0.8 kg
Carton Size	62 x 36.5 x 61.5 cm, 18 kg
Carton Quantity	20 pieces
Frequency	TBC - confirm at quotation
Sensitivity	TBC - confirm at quotation

5. MD-1010 Junior Metal Detector

The MD-1010 is a junior detector that carries adult features rather than a stripped-down circuit: target identification, discrimination, pinpoint and ground cancellation to suppress false signals from mineralised soil. It runs from two AA cells, reaches 10 cm on a US quarter and has a waterproof, interchangeable search coil, so a beach or grassland session is not cut short.

Key benefits

- Target identification with discrimination so junk metal can be ignored
- Ground cancellation circuitry suppresses false signals from mineralised soil
- 10 cm on a US quarter, with detection depth from 10 to 50 cm by target
- Waterproof, interchangeable search coil
- Two AA cells, replaceable anywhere

Specification

Battery	2 x 1.5 V AA
Sensitivity	10 cm on a US 25/50 cent coin
Detection Depth	10 to 50 cm depending on target
Search Coil	Waterproof, interchangeable
Search Modes	LCD and sound
Indications	Target ID, depth, low battery, overload warning
Unit Box Size	50 x 24 x 13 cm, 0.8 kg
Carton Size	65 x 49 x 53 cm, 9.2 kg, 10 pieces
Included	1 metal detector, 1 English user manual

6. GC-1061 Child's Metal Detector

The GC-1061 dismantles for carrying, which is the practical difference for a school or family that has to store and transport it. It runs All Metal and DISC modes with motion discrimination, reads out on a viewmeter rather than an LCD, and reaches more than 16 cm on a US quarter in All Metal mode through a 170 mm waterproof coil.

Key benefits

- More than 16 cm on a US quarter in All Metal mode
- 170 mm waterproof search coil
- Dismountable for easy carrying and storage
- All Metal and DISC modes with motion discrimination
- 1.2 inch speaker with an earphone jack

Specification

Operation Modes	All Metal and DISC
Target Indication	Viewmeter

Audio	1.2 inch speaker or earphone jack
Sensitivity	maximum depth over 16 cm on a US quarter in All Metal mode
Discrimination	Motion discrimination
Search Coil	170 mm waterproof
Power Supply	Two 9 V batteries
Construction	Dismountable for easy carry

7. MD-3005 II Metal Detector for Children

The MD-3005 II is the second-generation children's detector in this family, built around an easy-to-read screen and a light, portable body that a child can carry to the yard, the beach or a school field. It is the display version of the MD-3005, which publishes 0.6 m maximum detection depth and ferrous/non-ferrous discrimination.

Key benefits

- Screen readout so a child can see as well as hear a find
- Lightweight and portable enough to carry anywhere
- Second-generation update of the MD-3005 platform
- Suitable for yard, school and beach searching
- Straightforward operation for young users

Specification

Type	Children's metal detector with display
Power	Battery operated
Frequency	TBC - confirm at quotation
Maximum Detection Depth	TBC - the MD-3005 in the same family is rated 0.6 m
Search Coil	TBC - confirm at quotation
Packing	TBC - confirm at quotation

8. MD-3005 Kids Metal Detector

The MD-3005 reaches 0.6 m maximum depth with ferrous and non-ferrous discrimination and one-touch auto-tune, which is more capability than most children's detectors carry. It runs at 22 kHz from a 9 V battery through a 170 mm coil, weighs 850 g and includes volume, tune control and a battery test on an adjustable stem.

Key benefits

- 0.6 m maximum detection depth
- Ferrous and non-ferrous discrimination
- One-touch auto-tune, no setup procedure
- 170 mm search coil with adjustable stem
- Battery test function built in

Specification

Power	9 V
Working Frequency	22 kHz
Working Current	under 50 mA
Working Voltage	7 V to 9 V
Maximum Detect Depth	0.6 m

Search Coil	170 mm
Stem	Adjustable
Earphone Jack	1/8 inch
Weight	850 g
Packing	5 pieces per carton

Metal Detector Pinpointers

Probes that find the exact position of a target in a dug hole, where a full-size coil is useless.

1. VD2003 Handheld Metal Detector Pinpointer

The VD2003 is a static pinpointer: it detects without needing to be moved, which is what lets it find the exact position of a target in a dug hole rather than somewhere in the general area. Pinpointing is within 1.5 inches of the probe tip. It runs at 6.8 kHz from one 9 V battery, draws 0.03 A, and weighs 74 g at 25.5 x 4.3 x 3.5 cm.

Key benefits

- Static operation, no motion required to detect
- Pinpoints within 1.5 inches of the probe tip
- Used alongside a main detector to find the exact target location
- 74 g and 25.5 cm long, carried on a belt
- One 9 V battery, drawing only 0.03 A

Specification

Power	9 V battery
Operating Frequency	6.8 kHz
Operating Current	0.03 A
Operating Temperature	-5°C to 55°C
Pinpointing	within 1.5 inches at the probe tip
Operation	Static, no motion required
Gross Weight per Unit	74 g
Size	25.5 x 4.3 x 3.5 cm
Battery Life	approximately 10 hours

2. Dual Use Metal Detector Pinpointer

This pinpointer switches between detector and pinpointing modes at the push of a button, so one tool covers both the general search and the exact location. Detection distances are published by target: a pin at 30 to 60 mm, a 6-inch knife at 160 mm, a 64-model handgun at 150 mm and a 20 mm diameter steel ball at 90 mm.

Key benefits

- Switches between detector and pinpointing modes with one button
- Published detection distances by target type
- Detects a 64-model handgun at 150 mm and a 6-inch knife at 160 mm
- Covers both general search and exact location with one tool
- Suitable for security screening and precious metal work

Specification

Operation	Dual mode, detector and pinpointer
Detection, Pin	30 to 60 mm
Detection, 64-Model Handgun	150 mm
Detection, 6-Inch Knife	160 mm
Detection, 20 mm Steel Ball	90 mm
Mode Switching	Push button

3. GP-Pinpoint Metal Detecting Probe

The GP-Pinpoint plugs into most detectors through a 1/4 inch male plug, so it works with equipment a detectorist already owns rather than requiring a matched set. It has a super-sensitive head for small targets such as coins and jewellery, a rechargeable battery, an LED light, and a high-strength plastic housing that survives being dropped.

Key benefits

- 1/4 inch male plug fits most detectors already in use
- Super-sensitive head for small targets like coins and jewellery
- Rechargeable battery supplied, no cells to buy
- LED light for working in poor visibility
- Durable high-strength plastic housing

Specification

Connector	1/4 inch male plug, fits most detectors
Battery	Rechargeable, supplied
Light	Built-in LED
Housing	Durable high-strength plastic
Use Conditions	Land, water and mud
Operating Frequency	TBC - confirm at quotation
Detection Distance	TBC - confirm at quotation

4. GC-2007 Metal Detecting Pinpointer

The GC-2007 signals three ways at once: LED, audio and vibration, plus a bright LED flashlight for working in darkness. Sensitivity is 3.5 to 4 cm on a US quarter, it runs from a single 9 V battery, and it packs 50 pieces per carton at 495 x 245 x 300 mm, which makes it practical to stock as a retail line.

Key benefits

- LED, audio and vibrating indications together
- Bright LED flashlight for use in darkness
- Sensitivity of 3.5 to 4 cm on a US quarter
- Single 9 V battery operation
- 50 pieces per carton for retail stocking

Specification

Indications	LED, audio and vibrating
Flashlight	Bright LED for use in darkness
Sensitivity	3.5 to 4 cm on a US quarter
Power	1 x 9 V battery, not included
Packing Size	495 x 245 x 300 mm
Carton Quantity	50 pieces

5. GC-2005 Pinpointing Metal Detector

The GC-2005 shows how close you are to a target rather than just that one exists: a first green LED lights on detection, then a second and third as the probe approaches, with sound and vibration throughout. It runs a flashlight continuously,

initialises in about 2 seconds, and suspends detection after about 10 seconds on the same target to save battery, recovering after about 1 second.

Key benefits

- Three-stage LED indication showing how close the probe is to the target
- Sound and vibration alongside the LED sequence
- Flashlight stays lit during operation for working in a dug hole
- Automatic power saving after about 10 seconds on the same target
- Ready to use about 2 seconds after switch-on

Specification

Indication	Three-stage LED, sound and vibration
Flashlight	Built in, lit during operation
Initialisation Time	approximately 2 seconds
Power Saving	suspends after about 10 seconds on the same target, recovers after about 1 second
Controls	Single POWER ON/OFF button
Water Resistance	Not waterproof, cannot be used in water
Targets	Coins, gold, silver, relics and jewellery

6. HS-12 Signal Indicating Metal Detector Pinpointer

The HS-12 shows a signal reading rather than only alarming, so an operator can judge approximate distance to the target instead of guessing. It is rated IP68 to 30 m depth, detects in all 360 degrees, and reaches 5 to 6 cm on a one-yuan coin, with a choice of sound, vibration or both.

Key benefits

- Signal display indicating approximate distance to the target
- IP68 waterproof to 30 m depth
- 360 degree detection direction
- 5 to 6 cm sensitivity on a one-yuan coin
- Three alarm modes: sound, vibration, or both

Specification

Working Environment	-20°C to 60°C
Alarm Mode	Sound, vibration, or sound plus vibration
Power Supply	9 V battery, not included
Sensitivity	5 to 6 cm on a one-yuan coin
Waterproof Level	IP68, to 30 m depth
Detection Direction	360 degrees
Display	Signal display

7. HS-11 LED Display Waterproof Pinpointer Metal Detector

The HS-11 publishes a detection accuracy figure most pinpointers do not: a 2 mm small needle. It reaches 5 to 8 cm on a one-yuan coin, is IP68 rated to 30 m, detects across 360 degrees, and carries a live quantity display alongside the signal display so battery state and signal strength are both visible.

Key benefits

- Detection accuracy stated at a 2 mm small needle
- 5 to 8 cm sensitivity on a one-yuan coin, the deepest in the HS range
- IP68 rated to 30 m depth
- Live quantity display plus signal display
- 360 degree detection direction

Specification

Working Environment	-20°C to 60°C
Alarm Mode	Sound, vibration, or sound plus vibration
Power Supply	9 V battery, not included
Detection Sensitivity	5 to 8 cm on a one-yuan coin
Detection Accuracy	2 mm small needle
Waterproof Grade	IP68, to 30 m depth
Detection Orientation	360 degrees
Display	Live quantity display and signal display
Tip Material	Hardened stainless steel

8. HS-08 IP68 Waterproof Gold Detector Pinpointer

The HS-08 is the compact waterproof probe in the HS range, rated IP68 to 8 m and detecting across 360 degrees at 4 to 4.5 cm on a one-yuan coin. It is aimed at gold nugget and jewellery recovery in dirty soil and in water, where a non-waterproof probe cannot be used at all.

Key benefits

- IP68 waterproof to 8 m depth
- 360 degree detection direction
- 4 to 4.5 cm sensitivity on a one-yuan coin
- Three alarm modes: sound, vibration, or both
- Works in dirty soil as well as in water

Specification

Working Environment	-20°C to 60°C
Alarm Mode	Sound, vibration, or sound plus vibration
Power Supply	9 V battery, not included
Sensitivity	4 to 4.5 cm on a one-yuan coin
Waterproof Grade	IP68, to 8 m depth
Detection Direction	360 degrees

Portable X-Ray Inspection Systems

Field X-ray panels and sources for EOD, customs and investigation work away from any fixed installation.

1. Intelligent Portable X-Ray Inspection System 150KV

This portable system pairs a 150 kV adjustable source with a 430 x 350 mm amorphous silicon panel at 3072 x 2560 resolution, and runs a Cloud-Network-End architecture so images do not stay trapped on the device. Steel penetration is 50 mm, with 3D imaging and AI-assisted threat detection, in an IP67 body that survives being used outdoors.

Key benefits

- 50 mm steel penetration from a 30 to 150 kV adjustable source
- 3072 x 2560 resolution on a 430 x 350 mm panel
- 3D imaging plus AI-assisted threat detection
- IP67 waterproof for field deployment
- Cloud-Network-End architecture for image sharing beyond the device

Specification

X-Ray Source	150 kV, 30 to 150 kV adjustable
Panel Size	430 x 350 mm
Resolution	3072 x 2560
Steel Penetration	50 mm
Ingress Protection	IP67
Imaging	3D imaging supported

2. Digital Portable X-Ray Inspection System Model 60

The Model 60 is the lightweight option in the portable range: 6 kg for the complete system, with an 80 kV constant-current source penetrating 40 mm of aluminium over a 305 x 254 mm imaging area at 1920 x 1080. Two hours of battery covers a typical call-out for EOD, smuggling and drug control work.

Key benefits

- 6 kg total system weight, carried by one person
- 40 mm aluminium penetration from an 80 kV constant-current source
- 1920 x 1080 progressive digital imaging
- 2-hour battery life per deployment
- 305 x 254 mm imaging area

Specification

X-Ray Source	80 kV constant current
Imaging Size	305 x 254 mm
Resolution	1920 x 1080
Aluminium Penetration	40 mm
System Weight	6 kg total
Battery Life	2 hours

3. Ultra-Thin Portable X-Ray Inspection System 120KV

The 12 mm panel is the point of this system. It slides into gaps a thicker detector cannot enter, with only a 7 mm bottom blind spot, and it is compatible with all X-ray sources on the market so it can be added to equipment a team already owns. Penetration is 200 mm of aluminium or 25 mm of steel at 60 to 120 kV.

Key benefits

- 12 mm ultra-thin panel fits into tight gaps
- 7 mm bottom blind spot, so little is lost at the panel edge
- Compatible with all X-ray sources on the market
- 200 mm aluminium or 25 mm steel penetration
- 3D imaging supported

Specification

Voltage	120 kV, 60 to 120 kV adjustable
Panel Size	350 x 430 mm
Panel Thickness	12 mm
Resolution	2.5 Lp/mm
Bottom Blind Spot	7 mm
Penetration	200 mm aluminium or 25 mm steel
Imaging	3D imaging supported

4. Smart Cloud Portable X-Ray Imaging System 125KV

The Smart Cloud system combines a 430 x 430 mm panel at 4302 x 4302 with a 5 mm blind spot, which is the finest combination in this portable range. Cloud storage and AI recognition move the analysis off the device, and IP67 with -20 to 50°C operation means it stays usable outdoors. Steel penetration is 42 mm at 40 to 125 kV.

Key benefits

- 4302 x 4302 resolution on a 430 x 430 mm panel
- 5 mm blind spot, the smallest in this portable range
- 42 mm steel penetration at 40 to 125 kV adjustable
- IP67 and rated -20 to 50°C for outdoor operation
- Cloud storage with AI recognition

Specification

X-Ray Source	125 kV, 40 to 125 kV adjustable
Panel Size	430 x 430 mm
Resolution	4302 x 4302
Blind Spot	5 mm
Steel Penetration	42 mm
Ingress Protection	IP67
Operating Temperature	-20°C to 50°C
Imaging	3D imaging

5. High-Definition Ultra-Thin Portable X-Ray Scanner

A 15 mm amorphous silicon panel with 140 micron pixels over a 430 x 350 mm imaging area, driven entirely from a touch screen with automatic image enhancement. The fine pixel size is what makes it useful for item authentication and fire investigation, where the question is fine internal structure rather than simple presence.

Key benefits

- 140 micron pixel size for fine internal detail
- 15 mm panel thickness for awkward placements
- 430 x 350 mm imaging area
- Full touch-screen control with no separate console
- Automatic image enhancement

Specification

Imaging Size	430 x 350 mm
Panel Thickness	15 mm
Pixel Size	140 microns
Detector	Amorphous silicon
Control	Full touch screen
X-Ray Source	TBC - confirm at quotation

6. High-Definition Ultra-Thin Portable X-Ray Examination System 270KV

At 270 kV and 110 mm of steel penetration, this is the portable system for targets nothing else in the range will see through. It keeps the 4302 x 4302 panel resolution and 5 mm blind zone of the cloud system, adds IP67 and 1 m drop resistance, and backs every scan to encrypted cloud storage so a remote specialist can review it during the operation.

Key benefits

- 110 mm steel penetration from a 270 kV pulse generator
- 4302 x 4302 pixel imaging on a 350 x 450 mm panel
- 5 mm blind zone so little is lost at the panel edge
- IP67 and 1 m drop resistance for rough field handling
- Encrypted cloud backup enabling remote collaborative analysis

Specification

X-Ray Source	270 kV pulse X-ray generator
Steel Penetration	110 mm at optimal conditions
Imaging Panel Size	350 x 450 mm
Image Resolution	4302 x 4302 pixels
Detection Blind Zone	5 mm or less
Protection Rating	IP67
Drop Resistance	1 m
AI Recognition	Weapons, explosives, contraband
Cloud Storage	Supported with encrypted transmission

Explosive and Narcotics Trace Detectors

Trace and bulk detection for explosives, narcotics and dangerous liquids at a checkpoint.

1. VPM-2018 Handheld Explosive and Narcotics Trace Detector

The VPM-2018 uses Ion Mobility Spectrometry to identify trace explosives and narcotics from a wipe sample, down to 200 picograms for both TNT and cocaine. Explosives and drugs are detected on the same machine, including mixed samples, and the library covers TNT, PETN, C4, Semtex and TATP alongside cocaine, heroin, methamphetamine and fentanyl, with new samples addable as required.

Key benefits

- Explosives and drugs on one machine, including mixed detection
- Detection limit of 200 pg for TNT and 200 pg for cocaine
- Selectable analysis time from 2 to 32 seconds
- One-touch startup with automatic readiness
- Over 5 hours continuous operation and over 10 hours standby

Specification

Detection Principle	Ion Mobility Spectrometry (IMS)
Sample Collection	Solid particulate or liquid wipe sampling
Explosives Detected	TNT, HMX, Tetryl, Nitroglycerin, Ammonium Nitrate, Black Powder, DNT, PETN, Octogen, Picric Acid, GNA, C4, Semtex, TATP, Nitromethane, Comp B and others
Drugs Detected	Cocaine, heroin, THC, methamphetamine, ketamine, morphine, pethidine, MDMA, ephedrine, methadone, fentanyl, oxazepam and others
Sensitivity	nanogram to picogram range; TNT 200 pg, cocaine 200 pg
Preheating Time	10 minutes or less
Analysis Time	2 to 32 seconds, selectable
Alarm Format	Audio, visual and concealed
Display	4.3-inch colour LCD touchscreen, Chinese and English
Data Storage	not less than 300,000 detection records
Communication	Ethernet, USB and wireless
Input Voltage	AC 110 V / 220 V, DC 24 V at 50/60 Hz
Battery	18 V lithium, over 5 hours continuous, over 10 hours standby
Operating Temperature	-20°C to 55°C

2. Portable Trace Explosives Detector for Anti-Terrorism Screening

This portable trace detector uses fluorescent polymer sensing and gives a result in 2 seconds or less. It samples two ways, by direct suction or by heating a test strip, so a surface, a hand or an item of luggage can all be checked. The complete instrument, including battery and heating head, weighs 2 kg or less.

Key benefits

- Detection response time of 2 seconds or less
- Two sampling modes: direct suction and heated test strip
- 2 kg or less complete, including battery and heating head
- Preheating under 1 minute in heating mode and under 4 seconds by direct suction
- Sound, light and on-screen word alarm prompts

Specification

Sensing Technology	Fluorescent polymer
Detection Mode	Heating mode and direct suction mode
Detection Response Time	2 seconds or less
Preheating Time	1 minute or less (heating mode), 4 seconds or less (direct suction)
Cleaning Time	10 seconds or less
Alarm Mode	Sound, light and word alarm prompt
Instrument Host Size	296 x 88 x 65 mm or less
Instrument Heater Size	64 x 73 x 43 mm or less
Host with Heater Connected	326 x 88 x 65 mm or less
Total Weight	2 kg or less including battery and heating head
Battery Life	approximately 8 hours

3. Handheld Liquid Detector for Sealed Containers

This handheld detector identifies the chemical composition of a liquid still sealed in its bottle or can, covering more than 30 dangerous liquids including gasoline, kerosene, diesel, hydrochloric acid and sulfuric acid. It uses ultra-wideband pulse microwave reflection with thermal conductivity measurement, emits no radiation, and returns a result in about 8 seconds from a 200 g instrument.

Key benefits

- Identifies liquids without opening the bottle or can
- Covers more than 30 dangerous liquids including fuels and strong acids
- No radiation, harmless to the operator and the person being screened
- Result in about 8 seconds
- 200 g instrument at 216 x 50 x 79 mm

Specification

Detection Method	Ultra-wideband pulse microwave reflection plus thermal conductivity
Outer Size	216 x 50 x 79 mm
Dangerous Liquids Identified	more than 30 sorts, including gasoline, kerosene, diesel, hydrochloric acid, sulfuric acid, nitric acid, sodium hydroxide, potassium hydroxide, benzene, carbon disulfide and hexane
Analysis Time	approximately 8 seconds
Weight	200 g
Power	10 W, 110 to 240 V at 50/60 Hz
Radiation	None

4. Double-Frequency Metallic Mine Detector

Single-frequency mine detectors struggle in seawater and magnetic soil, which is exactly where they are often needed. This double-frequency detector is built to work across that full range of ground: laterite, clay, magnetic soil, beach and fresh or salt water, from -40°C to 55°C. Positioning accuracy is 4 cm or better to the mine edge, with mean detectivity of 97% or above.

Key benefits

- Works in seawater and magnetic soil where single-frequency detectors cannot
- Positioning accuracy of 4 cm or better to the mine edge
- Mean detectivity of 97% or above

- 24 hours or more continuous working on lithium battery
- Waterproof to 1 metre depth and rated -40°C to 55°C

Specification

Detecting Sensitivity	GLD111 anti-personnel mine 12 cm or more, GLD212 anti-tank mine 13 cm or more
Positioning Accuracy	4 cm or better, measured to the mine edge
Mean Detectivity	97% or above
Continuous Working Hours	24 hours or more on lithium battery
Temperature Range	-40°C to 55°C, excluding the battery
Watertightness	waterproof at 1 metre depth
Search Coil Diameter	250 mm
Staff Length	750 to 1450 mm
Host Weight	2.9 kg or less with lithium battery, 3.2 kg or less with 3 LR20 batteries
Sensitivity Settings	Three selectable

5. Desktop Liquid Dangerous Goods Detection System

Most liquid screeners tell you a liquid is dangerous. This desktop system names the component, the hazard type and the leakage treatment method, which is what a checkpoint supervisor actually needs to act. Two independent channels handle non-metallic and metallic containers at the same time and alarm separately, with no radiation and no dangerous source in the system at all.

Key benefits

- Component identification giving the main component name, hazard and leakage treatment
- Independent dual channels for non-metallic and metallic containers, working simultaneously
- No radiation and no dangerous source in the system
- Non-contact, non-destructive sampling
- Built-in printer issuing an alarm voucher as a test certificate

Specification

Detection Channels	Two independent, non-metallic and metallic container
Sampling	Non-contact, non-destructive
Radiation	None, no dangerous source
Sensitivity	detects 1 mol/L sodium hydroxide solution
Component Identification	Names main component, hazard method and leakage treatment
Databases	Separate safe and dangerous liquid databases, user-upgradable on site
Printing	Built-in printer for real-time alarm voucher
Networking	Real-time upload to a back-end management platform
Power	Mains plus built-in battery

Under Vehicle Inspection Mirrors and Cameras

Undercarriage inspection tools from a 260 g pocket mirror to a recording infrared camera on wheels.

1. Vfinder Portable Under Vehicle Search Camera

The Vfinder is the modular portable camera in this range: a 170 degree adjustable infrared head on a three-section aluminium rod extending from 90 to 110 cm, with a 4.3-inch 640 x 480 LCD that adjusts through 150 degrees. It runs about 5 hours on its lithium battery at 1.5 kg, and a DVR module can be added for recorded inspections.

Key benefits

- 170 degree adjustable infrared camera head
- Three-section aluminium rod from 90 to 110 cm, collapsing without tools
- 4.3-inch colour LCD adjustable through a 150 degree arc
- About 5 hours of use from a lithium battery, 3 hours charging
- Modular design configurable to the customer's requirement

Specification

Camera	170 degree adjustable infrared, CCD with or without IR
Monitor	4.3-inch 16:9 colour LCD, 640 x 480 pixels, adjustable through 150 degrees
DVR	up to 8 GB SD card recording, on the DVR model
Eye-Wear Monitor	42 inches visual size, optional
Rods	Three-section light aluminium, 90 cm to 110 cm
Battery	Lithium
Using Time	about 5 hours
Charging Time	about 3 hours
Unit Weight	1.5 kg
Unit Packing	62 x 36 x 9 cm
Carton	11 kg, 5 pieces
Power	12 V DC, charger 110 to 230 V AC

2. WD-MP Pocket Under Vehicle Search Mirror

The WD-MP folds flat into a jacket pocket at 260 g, with a telescopic handle extending to 460 mm that stays completely rigid, which is what keeps the image stable at full extension. An integral flashlight works with the mirror open or closed, and a tactical version with an acrylic mirror is available for unobtrusive close-in observation.

Key benefits

- Folds flat for a jacket or uniform pocket at only 260 g
- Telescopic handle extends to 460 mm and stays completely rigid
- Integral flashlight usable with the mirror open or closed
- Tactical acrylic-mirror version for unobtrusive observation
- Supplied with 2 x AAA batteries and a spare lamp in a stowage compartment

Specification

Weight	260 g (9.2 oz)
--------	----------------

Maximum Rod Length	460 mm (18.1 in)
Overall Dimensions Closed	155 x 90 x 20 mm
Mirror	Convex glass, or acrylic on the tactical version
Wheels	Pocket type, without wheels
Material	Acrylic lens, alloy mirror housing and telescopic rod
Lighting Source	LED torch
Supplied With	2 x AAA batteries and a spare lamp in a stowage compartment

3. UVSM Compact 14 cm Under Vehicle Search Mirror

A 14 cm inspection mirror on an aluminium alloy rod that stretches from 45 to 110 cm, so the operator checks under a vehicle without bending over. The mirror turns through 180 degrees, which is what lets a single pass cover both sides of a wheel arch or chassis member.

Key benefits

- Rod stretches from 45 to 110 cm so the operator does not bend over
- 180 degree turn covers both sides of a structure in one pass
- Aluminium alloy rod, light weight with high strength
- Only 0.3 kg per piece, practical for long shifts
- Acrylic lens rather than breakable glass

Specification

Category	Inspection mirror
Diameter	14 cm
Weight	0.3 kg per piece
Length	45 to 110 cm
Lens Material	Acrylic
Rod Material	Aluminium alloy
Rotation	180 degrees
Packing	One piece per box, 10 pieces per carton

4. UVSM-2 Under Vehicle Search Mirror with LED Light

A 30 cm convex mirror on a three-wheel trolley with an 88 cm rod and superpower LED white light, running from a 12 V DC rechargeable battery. The mirror tray uses materials specified not to age or break easily, and the whole thing folds for transport at 1.75 kg net.

Key benefits

- 30 cm convex mirror giving a wide view of the undercarriage
- Superpower LED white light for dark undercarriages
- Three wheels so the mirror rolls rather than being carried
- Non-friable acrylic mirror instead of mercury-plated glass
- Folding design at 1.75 kg net, easy to carry between checks

Specification

Mirror Size	30 cm diameter convex
Connecting Rod Length	88 cm, adjustable from 46 cm

Supplementary Lighting	Superpower LED white light
Power	12 V DC rechargeable battery
Net Weight	1.75 kg
Gross Weight	5.2 kg
Package Size	61 x 39 x 18 cm
Mirror Material	Non-friable acrylic
Rod Material	Aluminium alloy
Wheels	Three, rotating

5. UVSM-1 Illuminated Under Vehicle Search Mirror

A 12 inch convex mirror on castor wheels with a long non-slip handle that swings to the horizontal, which is how it reaches deep under a vehicle rather than stopping at the sill. The magnetic LED wand detaches from the mirror and works as a separate search light, and the kit ships with a carry bag at 2.5 kg per unit.

Key benefits

- Handle swings to horizontal to reach far under a vehicle
- Detachable magnetic LED wand doubles as a hand search light
- Mounted on castor wheels so it rolls rather than being carried
- 2.5 kg per unit with a carry bag supplied
- Detects under vehicles with a minimum ground clearance of 10 cm

Specification

Mirror	12 inch convex
Viewing Angle	170 degrees
Detectable Minimum Height	10 cm ground clearance
Unit Weight	2.5 kg
Package Size	640 x 470 x 350 mm, 5 pieces per carton
Carton Gross Weight	14 kg
Kit Contents	Convex mirror, 3-piece tube set, torch holder, LED torch, wheel set
Carry Bag	Supplied
Rod Material	Aluminium

Food X-Ray Inspection Systems

X-ray inspection for the contaminants a metal detector cannot see: glass, stone, bone and hard plastic.

1. AVG-FX-Mini Compact Food X-Ray Inspection System

The AVG-FX-Mini puts X-ray inspection on a QC bench instead of a production line. It needs under 1.0 square metre of bench area and a standard AC outlet, but runs the same AI detection algorithm as the production-line models, so a result from the lab matches what the line will see. Minimum ferrous detection is 0.3 mm or better through a 250 x 100 mm tunnel.

Key benefits

- Fits on a standard QC bench in under 1.0 square metre, no floor mounting
- Runs on a standard AC outlet with no special power infrastructure
- Same AI detection engine as the production-line models
- R&D; mode gives high-resolution capture for product development and failure analysis
- Minimum ferrous detection of 0.3 mm or better

Specification

X-Ray Tube	60 to 80 kV adjustable
Tube Power	under 0.4 kW
Tunnel Size	250 x 100 mm
Belt Width	250 mm
Belt Speed	5 to 30 m/min
Minimum Detection (Fe)	0.3 mm or better
Image Resolution	0.4 mm pixel pitch
Display	12-inch touchscreen
Housing	SUS304 stainless, IP54
Footprint	under 1.0 square metre bench area
Power Supply	AC 220 V, 50 to 60 Hz, 0.8 kVA

2. AVG-FX-S Food X-Ray System with Auto Reject

The AVG-FX-S is the model to specify when the X-ray point is a documented Critical Control Point. Contaminated packs are removed automatically by flap arm, pneumatic pusher or air-blast into a lockable key-access bin, and every reject is logged with image, timestamp and operator ID, which is the record a HACCP audit actually asks for.

Key benefits

- Every reject logged with image, timestamp and operator ID for audit
- Choice of flap arm, pneumatic pusher or air-blast rejector per product
- Lockable key-access reject bin prevents tampering and recontamination
- Reject pulse synchronised with sub-second precision at line speed
- Documented Critical Control Point for food-safety audits

Specification

X-Ray Tube	80 to 130 kV adjustable
Tube Power	under 1.2 kW
Tunnel Size	400 or 600 mm wide by 150 to 200 mm high

Belt Speed	5 to 60 m/min
Minimum Detection (Fe)	0.3 mm or better
Rejector Type	Flap, pusher or air-blast
Reject Bin	Lockable, key access
Display	15-inch or 19-inch industrial touchscreen
Audit Log	Image, time and operator ID
Housing	SUS304 stainless, IP65/66
Power Supply	AC 220 V, 50 to 60 Hz, 2.5 kVA

3. AVG-FX-600 Wide-Belt Food X-Ray Inspection System

The AVG-FX-600 exists for product that will not fit or will not image on a standard belt: large pouches, multi-pack bundles, frozen meat, seafood and pet food. A 600 x 200 mm tunnel takes the pack, and a 100 to 130 kV source with a larger detector array holds sensitivity across the wider field, including through aluminium-foil packaging. The IP66 washdown housing is built for seafood and meat areas.

Key benefits

- 600 mm belt takes large pouches, multi-pack bundles and trays
- 100 to 130 kV source penetrates dense and foil-packaged product
- Sensitivity held across the wider field by a larger detector array
- IP66 washdown stainless for seafood and meat processing
- Dual-energy option separates organics from minerals

Specification

X-Ray Tube	100 to 130 kV adjustable
Tube Power	under 1.2 kW
Tunnel Size	600 x 200 mm
Belt Width	600 mm
Belt Speed	5 to 60 m/min
Minimum Detection (Fe)	0.4 mm or better
Minimum Detection (SUS)	0.6 mm or better
Image Resolution	0.4 mm pixel pitch
Display	15-inch or 19-inch industrial touchscreen
Housing	SUS304 stainless, IP66
Power Supply	AC 220 V, 50 to 60 Hz, 2.0 kVA

4. AVG-FX-400 Food X-Ray Inspection System

The AVG-FX-400 is the standard daily-production model: a 400 x 150 mm tunnel, 60 m/min belt speed and IP65 SUS304 housing compatible with CIP cleaning. Its onboard deep-learning detection covers what a metal detector cannot, identifying glass, stone, bone and hard plastic as well as metal, at 0.3 mm or better for ferrous.

Key benefits

- Detects glass, stone, bone and hard plastic as well as metal
- 0.3 mm Fe and 0.5 mm SUS minimum detection
- 60 m/min line speed runs without creating a bottleneck
- IP65 SUS304 housing compatible with CIP cleaning protocols

- Multilingual interface with role-based access and a full audit log

Specification

X-Ray Tube	80 to 100 kV adjustable
Tube Power	under 0.8 kW
Tunnel Size	400 x 150 mm
Belt Width	400 mm
Belt Speed	5 to 60 m/min
Minimum Detection (Fe)	0.3 mm or better
Minimum Detection (SUS)	0.5 mm or better
Image Resolution	0.4 mm pixel pitch
Display	15-inch industrial touchscreen
Housing	SUS304 stainless, IP65
Power Supply	AC 220 V, 50 to 60 Hz, 1.5 kVA

Certified Dual-View X-Ray Baggage Scanners

The VMS dual-view range, certified by the Ministry of Public Security, with named imaging components.

1. VMS-5030D Dual-View X-Ray Machine

The VMS-5030D is certified by the Ministry of Public Security and penetrates more than 40 mm of steel from both bottom and side views, at 0.0787 mm line resolution on a single solid copper wire (40 AWG). Component sourcing is named rather than implied: a British Sens-Tech acquisition system, Japanese Hamamatsu detectors and dual digital X-ray sources, displayed on a 21.5-inch 1920 x 1080 LCD.

Key benefits

- More than 40 mm steel penetration on both bottom and side views
- 0.0787 mm line resolution, equivalent to a 40 AWG copper wire
- Sens-Tech acquisition system and Hamamatsu detectors with dual digital sources
- Three-dimensional outline from two independent sources at any item angle
- Certified by the Ministry of Public Security

Specification

Imaging	Dual view, bottom and side
Penetration, Bottom View	greater than 40 mm steel plate
Line Resolution	0.0787 mm single solid copper wire (40 AWG), bottom and side view
Penetration Resolution, Bottom View	0.202 mm
Spatial Resolution	1.0 mm vertical
Tube Voltage	160 kV
Tube Current	1.2 mA
Conveyor Speed	0.22 m/s
Maximum Load	150 kg
Tunnel Size	500 x 300 mm
Power	500 W
Lead Shielding	2 to 6 mm lead sheet
Display	21.5-inch 1920 x 1080 LCD
Certification	Certified by the Ministry of Public Security

2. VMS-6550D Dual-View X-Ray Security Inspection Equipment

The VMS-6550D takes the certified dual-view platform to a 650 x 500 mm tunnel and 43 mm of steel penetration, with 0.127 mm penetration resolution on the bottom view. Two independent sources produce a three-dimensional outline at any item angle, and noise stays under 58 dB with a 170 kg load capacity.

Key benefits

- 43 mm steel penetration with 0.0787 mm line resolution at 40 AWG
- 650 x 500 mm tunnel with 170 kg load capacity
- Three-dimensional outline from two independent sources at any angle
- Material recognition by effective atomic number with colour coding
- Under 58 dB operating noise

Specification

Imaging	Dual view, bottom and side
Penetration	43 mm steel plate, bottom view up to 46 mm
Line Resolution	0.0787 mm single solid copper wire (40 AWG)
Penetration Resolution, Bottom View	0.127 mm
Spatial Resolution	1.0 mm vertical
Tube Voltage	160 kV
Tube Current	1.2 mA
Conveyor Speed	0.22 m/s
Maximum Load	170 kg
Tunnel Size	650 x 500 mm
Noise	under 58 dB
Certification	Certified by the Ministry of Public Security

3. VMS-10080D Dual-View X-Ray Security Inspection Machine

The VMS-10080D is the large-tunnel member of the certified dual-view family: 1000 x 800 mm, 200 kg load and 46 mm of steel penetration on the top view, with two perpendicular views that cut the need for secondary inspections. Line resolution stays at 0.0787 mm for a 40 AWG copper wire.

Key benefits

- 1000 x 800 mm tunnel with 200 kg load capacity
- 46 mm steel penetration on the top view
- Two perpendicular views reduce secondary inspections
- 0.0787 mm line resolution at 40 AWG
- Certified by the Ministry of Public Security

Specification

Imaging	Dual view, top and side
Tunnel Size	1000 x 800 mm
Maximum Load	200 kg
Penetration, Top View	46 mm thick steel plate
Line Resolution	0.0787 mm single solid copper wire (40 AWG), top and side view
Penetration Resolution, Top View	0.127 mm
Spatial Resolution	horizontal 1.0 mm, vertical 1.0 mm
Tube Voltage	160 kV
Tube Current	1.2 mA
Conveyor Speed	0.22 m/s
Overall Length	3205 mm
Certification	Certified by the Ministry of Public Security

4. Viboo5030A Single Energy X-Ray Baggage Scanner

The Viboo5030A is a 500 x 300 mm tunnel scanner for briefcases, carry-on baggage and small parcels, built around operator support rather than raw penetration. It flags explosives and narcotics by atomic number signature, alarms on impenetrable high-density areas, and carries Threat Image Projection so operator performance can be trained and assessed on the live machine.

Key benefits

- Explosives and narcotics alarmed and highlighted by atomic number signature
- High-density area alarm flags regions the X-ray cannot penetrate
- Threat Image Projection inserts test images for operator training and assessment
- Uninterruptible power supply and secure access key
- 100,000 images archived automatically, exportable to USB as JPG or BMP

Specification

Tunnel Size	500 x 300 mm
Conveyor Speed	0.2 m/s
Conveyor Height	663 mm
Conveyor Maximum Load	50 kg
Dose per Inspection	3.0 mGy
X-Ray Leakage	1.0 mGy/h
Penetration	6 mm steel
Wire Resolution	0.0787 mm copper wire (AWG40)
Penetration Resolution	0.202 mm copper wire (AWG32) under a three-step aluminium wedge, 9.5 / 15.9 / 22.2 mm
Spatial Resolution	1.0 mm horizontal and vertical
Anode Voltage	80 kV
Anode Power	0.4 to 1.2 mA adjustable
Generator Angle	80 degrees upward, from bottom to top
Cooling and Duty Cycle	Oil cooling, 100%
Energy Consumption	maximum 1 kW
Noise	56.3 dB
Film Safety	ASA/ISO1600 compliant
Unit Weight	284 kg, 400 kg gross on a wooden pallet
Unit Size	1660 x 746 x 1165 mm
Image Archive	up to 100,000 images, USB export as JPG or BMP

Needle Detectors for Garment and Textile

Broken-needle detection for finished garments, fabric and sealed cartons.

1. Needle Detection Conveyor System with 6010 mm Tunnel

This needle detection conveyor runs a 6010 mm tunnel, which is what lets it take long or bulky goods that a standard aperture turns away. Sensitivity levels are adjustable per product, and the data output function pushes inspection results into a production management system rather than leaving them on the machine.

Key benefits

- 6010 mm tunnel accommodates a wide range of product dimensions
- Adjustable sensitivity tuned to the material being inspected
- Data output function feeds results to a production management system
- Touch screen interface with a short operator learning curve
- Conveyor construction built for continuous product flow

Specification

Tunnel Size	6010 mm
Interface	Touch screen
Data Output	Real-time output for production management integration
Sensitivity	Customisable levels
Voltage	110 to 220 V
Belt Speed	TBC - confirm against your line speed

2. KND-6040 Large Tunnel Conveyor Needle Detector for Cartons

The KND-6040 inspects sealed carton boxes rather than individual garments, which removes the step where a carton has to be opened and repacked to be checked. A wide detection area covers the whole box, sensitivity is adjustable to the product, and the conveyor keeps cartons moving through the check rather than stopping the line.

Key benefits

- Wide detection area covers the whole carton in one pass
- Cartons are checked sealed, with no opening and repacking
- Adjustable sensitivity levels for different packed products
- Conveyor integration keeps boxes moving through the check
- Detects small metallic contaminants including broken needles

Specification

Application	Large carton box inspection
Transport	Conveyor system
Sensitivity	Adjustable levels
Detection Aperture	TBC - confirm against your carton dimensions
Belt Speed	TBC - confirm at quotation
Power Supply	TBC - confirm for your site voltage

3. Double Headed Conveyor Needle Detector for Garment and Fabric

This needle detector uses two heads and four poles, with front and rear sensors whose angles can each be adjusted to improve accuracy. New coil units homogenise the sensor aperture, which reduces material effect and improves passage of product that would otherwise trigger false rejects. Setup time is cut because the system checks all sensors automatically rather than coil by coil.

Key benefits

- Two heads and four poles for high-precision detection
- Front and rear sensors with individually adjustable angles
- Homogenised sensor aperture reduces material effect and improves passage
- Automatic sensor self-check, no coil-by-coil pre-checking
- Patent-pending Environment Check Mode for the surrounding conditions

Specification

Detection System	Two heads, four poles
Sensors	Front and rear, each with adjustable angle
Sensitivity Setting	2 sensitivity types at 100 steps, or sizing method at 6 steps
Display	7-inch colour LCD with touch panel
Peripherals	RFID reader, barcode reader and others connectable
Optional Sorter	HS-601 automatic sorter
Records	History downloadable
Belt Width and Speed	TBC - customised to customer requirement

4. Twin Sensor Broken Needle Detector with Conveyor Belt

This needle detector uses twin sensor heads set at different angles, which is how it resolves a needle lying in an orientation a single head would miss. A conveyor reverse function returns flagged product for re-checking without handling it, and a sensitivity monitor shows the detail behind a result rather than only a pass or fail.

Key benefits

- Twin sensor heads placed at different angles for precise detection
- Conveyor reverse function returns flagged product without manual handling
- Sensitivity monitor showing detailed detection results
- Blue back LCD panel for improved visibility, with optional touch screen
- Product counter and alarm counter as standard

Specification

Detection Method	Magnetic induction with digital processing
Sensor Configuration	Twin heads at different angles
Display	Blue back LCD panel, optional touch screen
Counters	Product counter and alarm counter, standard
Conveyor	Reverse function fitted
Power Supply	AC 220 V, 50/60 Hz
Rated Output	140 W
Weight	280 kg
Detection Width	600 mm net width, non-standard sizes to order
Printer	Optional data printer

Metal Detectors for Beginners and Hobbyists

Entry-level ground detectors with enough discrimination that a beginner stops digging junk.

1. MD-4050 Metal Detector for Beginners

The MD-4050 gives a beginner the two things that decide whether the hobby sticks: an LCD that names the probable metal type and target depth before digging, and three-tone audio so different metals sound different. It has All Metal and Discrimination modes, plus a notch function to ignore junk metal, and the build is specified for use in saltwater as well as fresh.

Key benefits

- LCD shows probable metal type, target depth, DISC/NOTCH range and sensitivity
- Three-tone audio discrimination separates metal types by sound
- Notch function ignores junk metal and keeps valuable targets
- Built for saltwater as well as fresh water use without corrosion
- Super slow sweep identification for careful target discrimination

Specification

Modes	All Metal and Discrimination
Display	LCD showing metal type, target depth, DISC/NOTCH range, sensitivity and battery condition
Audio	Three-tone discrimination, high, medium and low
Discrimination	Notch and DISC, with super slow sweep identification
Headphone Jack	3.5 mm
Water Use	Suitable for fresh water and saltwater

2. MD-4060 Entry Level Metal Detector

The MD-4060 is the entry-level model that adds manual ground balance, which is the control that actually matters when the ground changes. It runs VCO circuitry with digital signal processing and three-tone audio discrimination, weighs just over 2 pounds, and carries the same LCD as the rest of the range showing metal type, depth and sensitivity.

Key benefits

- Manual ground balance for accurate results across different terrain
- VCO circuitry with digital signal processing
- Three-tone audio discrimination to learn what each signal means
- Just over 2 pounds, light enough for a long session
- Usable in all weather conditions

Specification

Ground Balance	Manual
Circuitry	VCO with digital signal processing
Audio	Three-tone discrimination
Display	LCD with metal type, depth, DISC/NOTCH range, sensitivity and battery condition
Weight	just over 2 pounds
Shaft	Adjustable length
Headphone Jack	3.5 mm

3. MD-3030 LCD Display Starter Metal Detector

The MD-3030 keeps the controls to a minimum: two sensitivity modes, normal and high, set from an LCD rather than guessed at by sound. It has a waterproof design for wet and saltwater conditions, and it is light and compact enough to carry anywhere, which is what a starter detector is actually judged on.

Key benefits

- Two sensitivity modes, normal and high, set from the display
- Waterproof design for wet conditions and saltwater environments
- Lightweight, compact and portable
- Built-in speaker with LCD showing target type and depth
- No complicated controls to learn

Specification

Sensitivity Modes	Normal and high
Display	LCD with metal type, depth, DISC/NOTCH range, sensitivity and battery condition
Audio	Built-in speaker with three-tone discrimination
Construction	Waterproof design for wet and saltwater conditions
Shaft	Adjustable length
Headphone Jack	3.5 mm

4. MD-3008 Ground Beginner Metal Detector

The MD-3008 sets its own sensitivity: an automatic function adjusts to surrounding conditions so detection stays stable without the user re-tuning. It carries a 170 mm waterproof search coil usable in shallow water, gives more than 10 cm on a US quarter, and powers down the display after 5 seconds of inactivity to save the six AA cells.

Key benefits

- Intelligent automatic sensitivity keeps detection stable as conditions change
- 170 mm waterproof search coil usable under shallow water
- More than 10 cm detection on a US quarter
- LCD powers down after 5 seconds of inactivity to save battery
- Adjustable stem and meter indication of detected metal

Specification

Sensitivity	Adjustable, more than 10 cm on a US quarter
Search Coil	170 mm waterproof, usable under shallow water
Display	LCD, powers down after 5 seconds of inactivity
Batteries	6 x AA
Headphone Jack	1/8 inch
Stem	Adjustable
Unit Packing	1 piece per box, 67 x 18 x 12 cm, 1.1 kg gross
Carton	5 pieces, 61 x 19 x 69 cm, 6.4 kg gross and 4.8 kg net

Metal Detectors for Schools

Entrance screening sized and priced for a school, including accessible and outdoor positions.

1. XLD Single Panel One Sided Walk Through Metal Detector

A single-panel gate takes half the width of a conventional archway, which is what makes it fit doorways and corridors that cannot accept a full frame. It uses an infrared sensor with mechanical interference rejection, sensitivity adjustable anywhere from 0 to 255, and a display panel showing the alarm area and exact location of the detected item.

Key benefits

- Single panel design fits doorways too narrow for a full archway
- Sensitivity adjustable from 0 to 255 per area
- Display shows alarm area and exact location of the detected item
- Password protection stops unauthorised parameter changes
- Alarm time 0 to 25 s, volume 0 to 255 and tone 1 to 10 all adjustable

Specification

Configuration	Single panel, one sided
Sensitivity Range	0 to 255, adjustable per area
Alarm Time	0 to 25 seconds, adjustable
Alarm Volume	0 to 255, adjustable
Alarm Tone	1 to 10
Panel Material	Imported synthetic, moisture and fire resistant
Sensing	Infrared sensor with mechanical interference rejection
Access Control	Password protected parameters
Statistics	People counted and alarm times

2. Oval Shape Waterproof Walk Through Metal Detector

This gate is specified to work in heavy rain, which is a stronger claim than splash resistance and the reason to choose it for a permanently outdoor position. It runs 18 pinpoint zones, sensitivity from 0 to 299, and adjustable operating frequencies that remove interference from X-ray units and radios standing nearby.

Key benefits

- Waterproof design specified to work in heavy rain
- 18 pinpoint zones identifying target locations from head to toe
- Sensitivity adjustable from level 0 to 299
- Adjustable operating frequencies eliminate X-ray and radio interference
- Broadband detection covering ferrous and non-ferrous articles

Specification

Detection Zones	18 pinpoint
Sensitivity	level 0 to 299
High Sensitivity Setting	can detect a pin
Low Sensitivity Setting	detects large items such as knife, gun, copper, aluminium or zinc over 150 g, ignoring belt buttons and shoes
Electric Current	AC 100 V to 240 V, 50/60 Hz

Power	10 W
Work Environment	-20°C to 45°C
Gross Weight	70 kg
Outer Frame	2220 x 820 x 610 mm
Inner Frame	2000 x 700 x 610 mm
Minimum Gate Spacing	0.3 m at low sensitivity, 0.5 m at high sensitivity
Waterproofing	Works in heavy rain

3. 8 Zone Waterproof Door Frame Metal Detector for Schools

An 8-zone gate that extends to 12 or 18 zones by splitting left, right and middle detection, with 255 sensitivity levels per zone and a preset for metal size, weight, volume and location so coins, keys and belts are excluded. Four hours of battery backup preserves the parameters through a power cut, and the PVC body with the control unit mounted on top is built for outdoor use.

Key benefits

- 8 zones extending to 12 or 18 by splitting left, right and middle detection
- 255 sensitivity levels per zone with high, middle and low patterns
- Preset by metal size, weight, volume and location to exclude coins, keys and belts
- 4 hours of battery backup preserving parameters through a power cut
- PVC body with top-mounted control unit, waterproof and moisture proof

Specification

Detection Zones	8, extendable to 12 or 18
Sensitivity per Zone	255 levels, with high, middle and low patterns
Alarm Time	1 to 25 seconds
Alarm Volume	255 settings
Alarm Tones	12
Frequency Range	4 kHz to 8 kHz
Preset Programs	6
Battery Backup	4 hours, uninterruptible, preserving parameters
Passing Speed	up to 100 persons per minute
Background Light	0 to 99 seconds
Construction	PVC with top-mounted control unit, waterproof and moisture proof
Access	Authorised operators only

4. VW-Wide Extra Wide 6 Zone Walk Through Metal Detector

The VW-Wide runs a 2000 x 1000 mm channel, which is what lets wheelchairs, trolleys and wide crowds through a screening point that a standard 700 mm archway cannot serve. It detects 4 g of flaky ferrous metal accurately, uses patented 3D multi-angle infrared to reject strong sunlight, and links to turnstiles, wing gates and access control.

Key benefits

- 2000 x 1000 mm extra wide channel for wheelchairs, trolleys and wide flow
- Detects 4 g of flaky ferrous metal accurately
- Patented 3D multi-angle infrared rejects strong light and sunlight interference
- Links to three roller gates, wing gates, access control and attendance systems

- Full wraparound high booties with double pivot, stable on uneven ground

Specification

Model	VW-Series extra width
Detection Zones	6
Detection Capability	4 g ferrous metal, flaky
Vertical Dimension	2200 x 500 x 1130 mm
Vertical Channel Size	2000 x 1000 mm
Main Box Packing Size	1055 x 340 x 210 mm
Net Weight	62.1 kg main box and detection door
Gross Weight	69.1 kg
Working Voltage	90 V to 240 V, 50/60 Hz
Power Consumption	20 W
Working Frequency Range	1 to 50 bands
Working Temperature	0°C to 65°C
Installation Environment	100 cm wide x 200 cm long minimum metal-free range
Security	Password management

Metal Detection and Checkweighing Combination Systems

One frame that checks a pack for metal and weighs it, rejecting on either result.

1. Rectangular Conveyor Metal Detector Head for Bulk Material

This detection head separates so it can be fitted over an existing conveyor without cutting the belt, which is the difference between a half-day installation and rebuilding the conveyor. It is aimed at bulk material: coal, cement, paper stock, mineral and food, where metal fragments damage the machinery downstream as much as they contaminate product.

Key benefits

- Detector head separates, so the existing belt does not need to be cut
- Stainless steel detection head
- Stores test data for more than 100 product types
- Self-learning digitally learns and stores product features, no manual parameter setting
- Sends a stop signal to the conveyor system through intermediate relays

Specification

Installation	Horizontal as standard, other angles on request
Detector Head	Separable, stainless steel, no belt cutting required
Product Memory	more than 100 products
Learning	Self-learning, automatic digital storage of product features
Alarm	Sound and light with automatic stop
Line Control	Stop signal sent to the conveyor via intermediate relays
Display Languages	Chinese and English, others selectable
Tunnel Size	made to order

2. Pipeline Feed Metal Detector for Liquid and Juice

This pipeline detector works on electromagnetic induction, so it catches non-ferrous contaminants as well as iron: copper, aluminium, tin and stainless steel all disturb the field, ferrous by changing the magnetic distribution and non-ferrous by eddy current. It combines an induction coil with an automatic removing device, so contaminated product leaves the flow without stopping the line.

Key benefits

- Detects iron plus copper, aluminium, tin and stainless steel
- Induction coil paired with an automatic removing device
- Works on liquid and beverage product inside the pipeline
- Shell in A3 painted steel plate or 304 stainless steel
- Acts as both a detector and a metal separator

Specification

Detection Principle	Electromagnetic induction
Detected Metals	Iron, plus copper, aluminium, tin and stainless steel
Construction	Induction coil plus automatic removing device
Shell Material	A3 steel plate with painted coating, or 304 stainless steel plate

Separator Action Time	0.5 s
Pipe Diameter	TBC - confirm against your pipework
Sensitivity	TBC - confirm against your product

3. VMS-4 Tunnel Metal Detector Search Head

The VMS-4 is a detector head rather than a complete machine, so it can be attached to an existing conveyor instead of replacing it. It runs variable-frequency detection from 31 to 882 kHz, carries a 7-inch touchscreen with 33% more space than the previous generation, and its Auto-Learn gives working sensitivity out of the box. The sealing arrangement is rated beyond IP69K.

Key benefits

- Variable-frequency detection from 31 to 882 kHz
- Auto-Learn delivers high detection sensitivity straight out of the box
- 7-inch touchscreen with 33% more space than previous generations
- Sealing arrangement rated beyond IP69K for washdown areas
- Attaches to an existing conveyor rather than replacing it

Specification

Type	Tunnel metal detector search head
Frequency Range	31 to 882 kHz, variable
Display	7-inch colour touchscreen
Product Setup	Auto-Learn with product selection from the interface
Ingress Protection	Beyond IP69K rating
Standards	Configurable for IFS, BRC and FSMA compliance
Aperture Size	TBC - confirm against your product
Mounting	Attaches to an existing conveyor, or supplied with one

4. HKN-800D Conveyor Belt Needle Detector

The HKN-800D publishes what a needle detector should: detection capability from Fe 0.8 mm at a 100 mm working height, stepping down as height rises to Fe 1.5 mm at 250 mm. Sensitivity adjusts across 12 levels from the touch screen, and a safety lock fixes the setting so it cannot be changed without authority.

Key benefits

- Published detection capability against working height, Fe 0.8 mm at 100 mm up to Fe 1.5 mm at 250 mm
- Sensitivity adjustable across 12 levels from the touch screen
- Safety lock fixes the sensitivity setting against unauthorised change
- Location display indicating where the needle is on the product
- Counter system tracking qualified and unqualified items

Specification

Model	HKN-800D
Detection Method	Magnetic induction, digital process
Detection Capability	Fe 0.8 mm at 100 mm, Fe 0.8 mm at 120 mm, Fe 1.0 mm at 150 mm, Fe 1.2 mm at 200 mm, Fe 1.5 mm at 250 mm
Detection Height	100, 120, 150, 200 or 250 mm
Detection Width	600 mm net width, non-standard sizes to order

Detection Adjustment	Touch, levels 1 to 12
Alarm Method	Sound and light alarm, return, then restart
Power Supply	AC 220 V, 50 to 60 Hz
Rated Output	140 W
Machine Size	1820 x 1050 x 900 mm
Weight	280 kg

Non-Linear Junction Detectors

Instruments that find electronic devices hidden in walls and furniture, even when switched off.

1. VT-801 Advanced Non-Linear Junction Detector for High-End Privacy Protection

The VT-801 finds electronic devices that are switched off. It emits an S-band fundamental signal and reads the second and third harmonics that semiconductors return, so a recorder hidden in a wall, ceiling, light fitting or piece of furniture shows up whether or not it is transmitting. An AI algorithm analyses the harmonic pattern to keep the false alarm rate down.

Key benefits

- Detects devices that are powered off and not transmitting
- Second and third harmonic detection identifies semiconductor content
- AI analysis of harmonic patterns for a low false alarm rate
- Visual, vibration and sound alerts for locating a target
- Complies with HJ/T10.2 radiation environmental protection guidelines

Specification

Detection Principle	Non-linear junction, S-band fundamental with 2nd and 3rd harmonic reception
Alerts	Visual, vibration and sound
Transmit Power	4 W
Battery	7.4 V
Operating Time	approximately 4 hours
Weight	1.52 kg, probe 0.05 kg
Standards	GA1236-2015 Nonlinear Junction Detectors
Safety	Complies with HJ/T10.2 radiation environmental protection guidelines
Interface Language	Chinese as supplied - confirm localisation options before ordering

2. VT-802 Advanced Portable Non-Linear Junction Detector for Privacy & Asset Protection

The VT-802 is the version you can carry in a bag: around 0.52 kg and folding down to 295 x 96 x 38.5 mm, with the same S-band harmonic detection principle that finds electronics whether or not they are powered on. It shuts down automatically when folded or left idle, so a sweep kit does not arrive with a flat battery.

Key benefits

- Around 0.52 kg and folds to 295 x 96 x 38.5 mm for transport
- Detects electronic devices whether transmitting, powered on or off
- Automatic shutdown when folded or idle conserves the battery
- Display, sound and vibration alerts
- Graphical interface with few buttons for fast operation

Specification

Detection Principle	Non-linear junction, S-band fundamental with 2nd and 3rd harmonic reception
Alerts	Display, sound and vibration
Transmit Power	1 W

Operating Time	approximately 3 hours
Weight	0.52 kg, probe 0.05 kg
Folded Dimensions	295 x 96 x 38.5 mm
Extended Length	up to 370 mm
Operating Temperature	-20°C to 55°C
Standards	GA1236-2015 Nonlinear Junction Detectors
Safety	Complies with HJ/T10.2 radiation environmental protection guidelines

3. VT-811 Advanced Non-Linear Junction Detector for High-End Privacy Protection

The VT-811 combines harmonic detection with a wireless signal detection unit, so a sweep covers both devices that are dormant and devices that are actively transmitting, including 5G at 2.6, 3.5 and 4.9 GHz. Differential detection rejects distant signal sources, which is what stops a city-centre sweep alarming on everything. Detection distance reaches 400 to 500 mm for a GPS module.

Key benefits

- Harmonic detection plus a wireless signal detection unit in one instrument
- Detects 5G signals at 2.6 GHz, 3.5 GHz and 4.9 GHz with on-screen alert
- Differential detection excludes interference from distant signal sources
- High-gain antenna gives long range on SIM-card devices
- 400 to 500 mm detection distance on a GPS module, 150 to 220 mm on a cell phone

Specification

Detection Principle	Non-linear junction plus wireless signal detection
Wireless Bands	5G at 2.6 GHz, 3.5 GHz and 4.9 GHz
Detection Distance, GPS Module	400 mm to 500 mm
Detection Distance, Cell Phone	150 mm to 220 mm
Transmit Power	4 W
Battery	7.4 V
Operating Time	approximately 2.5 hours
Weight	1.6 kg
Extended Length	up to 750 mm
Operating Temperature	-30°C to 55°C

Under Vehicle Surveillance Systems

Automatic undercarriage imaging that scans a vehicle while it drives over, without stopping traffic.

1. VIKING 170 Degree Under Vehicle Search Camera with LCD Display

The VIKING under-vehicle camera puts a 170-degree adjustable infrared head on a three-section aluminium rod that extends to 110 cm and collapses to 90 cm without tools. The 4.3-inch colour LCD tilts through 150 degrees so a tall operator does not have to stoop, and the unit runs about 5 hours on its lithium battery at 1.5 kg.

Key benefits

- 170 degree adjustable infrared camera covering the full undercarriage
- Three-section aluminium rod extending to 110 cm, collapsing to 90 cm without tools
- 4.3-inch colour LCD adjustable through a 150 degree arc
- About 5 hours operating time from a lithium battery, 3 hours charging
- 1.5 kg unit weight with an arm rest and handle grip for long sessions

Specification

Camera	170 degree adjustable infrared, CCD with or without IR
Monitor	4.3-inch 16:9 colour LCD, adjustable through 150 degrees
DVR (DVR model)	up to 8 GB SD card recording
Eye-Wear Monitor (option)	42-inch visual size
Rods	Three-section light aluminium, extends to 110 cm, collapses to 90 cm
Trolley	Three wheel
Battery	Lithium
Using Time	about 5 hours
Charging Time	about 3 hours
Unit Weight	1.5 kg
Unit Packing	62 x 36 x 9 cm
Carton Weight	11 kg for 5 pieces
Power	12 V DC, charger 110 to 230 V AC

2. Mobile Under Vehicle Scanning System

This mobile UVSS scans a vehicle's undercarriage while it drives over, at speeds from 1 to 65 km/h, so traffic never stops. The scanning head weighs 18 kg at 410 x 370 x 93 mm, is IP68 rated for round-the-clock outdoor work, and bears more than 30 tonnes, which covers loaded trucks as well as cars.

Key benefits

- Scans while the vehicle drives over, at 1 to 65 km/h, with no stopping
- Bears more than 30 tonnes, covering loaded trucks
- IP68 rated for continuous round-the-clock outdoor operation
- 18 kg scanning head at 410 x 370 x 93 mm, genuinely portable
- 2048 pixel vertical resolution over a viewing width of at least 4 metres

Specification

Vertical Image Resolution	2048 pixels
Viewing Width	not less than 4 metres

Vehicle Speed	1 to 65 km/h
Effective Field of View	not less than 170 degrees
Auxiliary Light	100 W
Bearing Weight	more than 30 tonnes
Waterproof Grade	IP68, suitable for round-the-clock working
Scanning Device Weight	18 kg
Scanning Device Size	410 x 370 x 93 mm
Communication Interface	RS232 / RS422
Operating Temperature	-10°C to 55°C
Storage Temperature	-40°C to 75°C
Operating Voltage	110 to 240 V AC, 50/60 Hz

3. VX3300 Fixed Under Vehicle Surveillance System

The VX3300 is the fixed installation version, with a line-scan CCD camera at 5000 x 2048 pixels behind a 150 W LED illuminator, driven by a dedicated Grantech system host and a 22-inch 1920 x 1080 monitor. It scans while the vehicle moves, and its induction coil inputs trigger the capture automatically rather than needing an operator.

Key benefits

- 5000 x 2048 pixel line-scan CCD camera with 150 W LED illumination
- Scans during the vehicle's manoeuvre without stopping it
- Two induction coil channels triggering capture automatically
- Undercarriage images stored, retrieved, searched and compared
- 22-inch 1920 x 1080 operator monitor with a dedicated system host

Specification

Camera Sensor	Line-scan CCD
Camera Resolution	5000 x 2048 pixels
Camera Power Supply	24 V DC, 3 A
Illumination	LED, 24 V DC, 150 W
Screening Unit Size	1200 x 350 x 300 mm
Screening Unit Temperature Range	-20°C to 60°C
Controller Input	2 channels induction coil
Controller Output	1 channel switch type, 12 V DC
Communication Port	RS485, Ethernet optional
Controller Operating Temperature	-10°C to 55°C
System Host	Grantech SYM76941VGGA, Intel Celeron E3400 at 2.6 GHz
Memory	2 GB, 4 GB optional
Graphics	512 MB
Hard Disk	SATA2 500 GB
Networking	Dual LAN, at least one Intel Gigabit
Monitor	22 inch LCD, up to 1920 x 1080

RF Signal Protection and Audio Detection

Counter-surveillance instruments for phones, recorders and mechanical timer devices.

1. VT-808 Electronic Audio Detector

The VT-808 listens for mechanical movement inside a sealed package. Using RF audio detection it picks up a mechanical watch through 100 mm of polyethylene foam plus 200 mm of A4 paper, which is the kind of concealment a visual or metal check will not resolve. Remote listening lets the detector be carried to the package by a drone or robot rather than by a person.

Key benefits

- Detects electronic and mechanical timer devices inside packaging
- Remote distortion-free listening when paired with a drone or robot
- Mechanical watch detected at 2.5 m or more
- Up to 20 hours of operation from low power consumption
- IP65 rated for field use

Specification

Working Voltage	3.7 V
Antenna Polarisation	Circular
Display	LCD
Noise-Cancelling Headphones	-20 dB(A) or better
Remote Listening	Supported
Battery Operating Time	lithium battery, 10 hours or more at maximum power consumption
Standby	up to 20 hours
Protection Level	IP65
Detection Distance, Mechanical Watch	2.5 m or more
Detection Distance, Alarm Clock / Electronic Timer / Digital Timer	0.5 m or more
Penetration	100 mm polyethylene foam plus 200 mm A4 paper (70 g)
Product Size	209 x 132 x 154 mm
Outer Case Size	410 x 290 x 268 mm
Product Weight	0.96 kg
Operating Temperature	-30°C to 55°C
Operating Humidity	not more than 93%, no condensation

2. VT-818 Cell Phone and Non-Linear Junction Detector

The VT-818 separates three things that other detectors lump together: cell phones, semiconductor junctions and metal oxide junctions. It pairs non-linear junction detection with a spectrum signal unit, and offers two modes, so a trained operator can read spectrum, waterfall and peak curve diagrams while a lightly trained one gets an automatic classification instead.

Key benefits

- Identifies cell phones, semiconductor junctions and metal oxide junctions separately
- Professional Mode gives spectrum, waterfall and peak curve diagrams
- General Mode classifies automatically for less experienced operators

- Detects cell phone signals at up to 0.5 metres
- Adjustable transmission power for different environments

Specification

Detection Types	Cell phones, semiconductor junctions, metal oxide junctions
Detection Modes	General and Professional
Analysis Views	Spectrum, waterfall and peak curve diagrams
Cell Phone Detection Range	up to 0.5 m
Sensitivity	Adjustable transmission power
Operating Time	approximately 4 hours
Operating Temperature	-30°C to 55°C
Storage Temperature	-40°C to 70°C

Dynamic Checkweighers

In-motion weighing that checks every pack on the line, not a sample.

1. VKD-II Conveyor Metal Detector and Check Weigher

The VKD-II does two jobs on one frame: it checks each pack for metal contamination and weighs it, then rejects on either result. Combining them removes a second conveyor, a second control panel and a second reject point from the line, which is usually where the space and the money go on a packing hall floor.

Key benefits

- Metal detection and checkweighing on a single conveyor frame
- One reject point handles both contamination and weight failures
- Removes a second machine, panel and footprint from the line
- Detects ferrous, non-ferrous and stainless steel contaminants
- Stainless steel construction for food-industry washdown

Specification

Function	Combined conveyor metal detector and check weigher
Detected Metals	Ferrous, non-ferrous and stainless steel
Construction	Stainless steel, 304 grade elements
Power Supply	AC 220 V
Detection Aperture	TBC - confirm against your pack size
Weighing Range and Accuracy	TBC - confirm at quotation
Belt Speed	TBC - confirm against your line speed

2. Small Roller Dynamic Checkweigher

A dynamic checkweigher weighs every pack on the line in motion and diverts the ones outside tolerance before they reach the customer. This small roller model uses load cells that filter out environmental noise, which is what cuts false rejects on a plant floor where vibration would otherwise corrupt the reading.

Key benefits

- Weighs every product on the line rather than a sample
- Load cells filter environmental noise to reduce false rejects
- Removes underfilled and overfilled packs before they reach consumers
- Reduces product waste and rework time
- Produces production data usable for process improvement

Specification

Type	In-motion dynamic checkweigher, small roller
Function	Weighs every product and diverts those outside tolerance
Weighing Range	TBC - confirm against your pack weight
Accuracy	TBC - confirm at quotation
Belt or Roller Speed	TBC - confirm against your line speed
Reject Method	TBC - confirm at quotation

Ultrasonic Recording Protection

Desktop protection that stops phones and recorders capturing usable audio in a meeting.

1. VT-316 Desktop Signal Protector with Ultrasonic Mixing for Meeting Security

The VT-316 sits on a meeting table and prevents phones and voice recorders from capturing usable audio, using ultrasonic mixing across 72 probes. It is inaudible to people in the room and emits no electromagnetic radiation. Interference distance is beyond 2 metres for a Huawei Mate 40 and beyond 1.5 metres for an iPhone 12, measured at 70 dB.

Key benefits

- Ultrasonic mixing across 72 probes for omni-directional coverage
- Inaudible to people in the room and no electromagnetic radiation
- Three adjustable levels of ultrasonic mixing power
- Up to 32 units linked by Bluetooth or RS232 for a large room
- Compact at 325 x 96 x 64 mm and approximately 730 g

Specification

Whole Machine Power	under 45 W
Standard Voltage	DC 20 V (PD 3.0)
Interference Objects	Android phones, Apple phones, voice recorders, eavesdropping devices
Interference Distance	Huawei Mate 40 over 2 m at 70 dB, iPhone 12 over 1.5 m at 70 dB
Probe Quantity	72
Interference Angle	60 degrees at 1 m
Communication Interface	BLE and RS232
Wireless Networking Distance	over 10 m
Electrostatic Level	Contact 6 kV, air 8 kV
Weight	approximately 730 g
Colour	Silver grey
Dimensions	325 x 96 x 64 mm
Operating Temperature	-10°C to 45°C
Operating Humidity	not more than 85%, no condensation

Metal Detectors for Pharmaceutical Production

Gravity-fall detection after a tablet press, capsule filler or sieve, in pharmaceutical-grade materials.

1. IMD-M150 Metal Detector for Pharmacy

The IMD-M150 is a gravity-fall pharmaceutical metal detector sized to sit after a tablet press, capsule filling machine or sieve, with a 137 x 25 mm detection aperture. It finds ferrous, non-ferrous and stainless steel at Fe 0.3 to 0.5 mm and SUS304 0.6 to 0.8 mm, through a food-grade plexiglass channel with SUS316 product-contact parts.

Key benefits

- 137 x 25 mm aperture sized for tablet and capsule streams
- Detects ferrous, non-ferrous and stainless steel contaminants
- Fe 0.3 to 0.5 mm and SUS304 0.6 to 0.8 mm sensitivity
- SUS316 product-contact parts with a food-grade plexiglass channel
- Stores 100 product settings with auto-learning

Specification

Detection Width	137 mm
Detection Height	25 mm
Sensitivity	Fe 0.3 to 0.5 mm, SUS304 0.6 to 0.8 mm
Display Mode	TFT touch screen
Operation Mode	Touch input
Product Storage	100 products
Channel Material	Food-grade plexiglass
Rejecter Mode	Automatic rejection
Power Supply	AC 220 V (optional)
Pressure Requirement	0.5 MPa or more
Main Material	SUS304, product-contact parts SUS316

Hobby Metal Detectors

Dual-frequency ground detectors for hobbyists who have outgrown an entry-level machine.

1. MD-4080 Hobby Metal Detector

The MD-4080 is the upgraded version of the MD-4030, with a new search coil that reacts faster in detection. It runs on two frequencies, 7 kHz and 18 kHz, and offers four search modes including discrimination with automatic ground balance, so a user can tell metal types apart by tone rather than digging everything. Battery life is around 10 hours.

Key benefits

- Upgraded search coil giving quicker reaction than the MD-4030
- Dual frequency operation at 7 kHz and 18 kHz
- Discrimination mode with automatic ground balance identifies target type by tone
- View meter mode for searching in electrically noisy areas
- Around 10 hours of battery life

Specification

Operating Frequencies	7 kHz and 18 kHz
Modes	Discrimination, target, all metal, view meter
Ground Balance	Automatic in discrimination and all-metal modes
Battery Life	approximately 10 hours
Headphone Jack	Yes, headphones not supplied
Stem	Adjustable, with arm support
Unit Size	54 x 22 x 11 cm
Carton Size	59 x 23 x 56 cm
Carton Weight	8.5 kg for 5 pieces

Waterproof and Submersible Metal Detectors

IP68 detectors and probes built to be used in water, not merely near it.

1. Handheld Underwater Metal Detector with IP68 Rating

This handheld underwater detector is supplied as a kit rather than a bare probe: detector, instruction sheet, waist sleeve and lost rope, all in a 44.5 x 12.5 x 5 cm package at 0.318 kg net. It is IP68 rated, detects a one-yuan coin at 8 to 9 cm, and alarms by sound, vibration or both.

Key benefits

- 8 to 9 cm sensitivity on a one-yuan coin, the deepest coin figure in this group
- IP68 waterproof rating for submerged use
- Supplied with a waist sleeve and lost rope so the probe is not dropped and lost
- 0.318 kg net, light to hold while swimming
- Sound, vibration or combined alerting

Specification

Working Environment	-20°C to 60°C
Alarm Mode	Sound, vibration, or sound plus vibration
Power Supply	9 V battery, not included
Detection Sensitivity	8 to 9 cm on a one-yuan coin
Waterproof Grade	IP68
Product Size	44.5 x 12.5 x 5 cm
Net Weight	0.318 kg
Package Contents	Detector x 1, instruction x 1, waist sleeve x 1, lost rope x 1