



# Portable X-Ray Inspection Systems Specification Sheet

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

**Models in this sheet:** Intelligent Portable X-Ray Inspection System 150KV, Digital Portable X-Ray Inspection System Model 60, Ultra-Thin Portable X-Ray Inspection System 120KV, Smart Cloud Portable X-Ray Imaging System 125KV, High-Definition Ultra-Thin Portable X-Ray Scanner, High-Definition Ultra-Thin Portable X-Ray Examination System 270KV

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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## 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 |