



Non-Linear Junction Detectors Specification Sheet

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

Models in this sheet: VT-801 Advanced Non-Linear Junction Detector for High-End Privacy Protection, VT-802 Advanced Portable Non-Linear Junction Detector for Privacy & Asset Protection, VT-811 Advanced Non-Linear Junction Detector for High-End Privacy Protection

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. 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