

Cayman

Non-Linear Junction Detectors

These professional detectors are designed for search and detection of hidden electronic devices, mobile phones and SIM cards, checking of mail and packages for contraband or forbidden objects containing semiconductors as well inspection of people, whether the electronic target is radiating, hard wired, or even turned off.

Main distinctive feature of non-linear junction detectors CAYMAN is multifrequency irradiation mode, which provides wide range of advantages:

- increased selectivity (ability to distinguish electronic components with background of metal-oxide-metal structure);
- increased probability of detection electronic devices behind partially shielded surfaces (such as the grid "netting");
- optimal ratio of radiation power and detection range;
- ability to identify detected objects in Audio mode;
- high detection sensitivity at a low output power;
- ability for effective operation in complicated interference environment (reinforced structures, corrosion, etc.).

Delivery set:

- CAYMAN non-linear junction detector
- 4 Rechargeable batteries of type 18650
- Power supply charger
- Charging unit
- Headphones
- Semiconductor simulator (red marking)
- Metal-oxide-metal structure simulator (blue marking)
- Operation manual
- Transportation shockproof package



Cayman ST-400 (402)

Features ergonomic design, large telescopic bar and retractable armrest.



Cayman ST-401 (403)

Compact version of Cayman 400.



Device is used for search and detection electronic devices containing semiconductor components. Cayman 400 allows detecting and precise localizing both working devices and even turned off ones. Using this non-linear junction detector operator is able to distinguish natural semiconductor from the artificial one (metal, corrosion, metal-oxide-metal structure).

The key difference from base model 401 is lack of telescopic bar, which makes it much smaller and more convenient for transportation. This model is especially helpful when working in confined space, checking small cargo and mail, as well as *inspection of people*.

Technical characteristics:

	Cayman 400	Cayman 401
Frequency range	2-3 GHz	2-3 GHz
The maximum radiated peak power	Less than 2W	less than 2W
Antenna	circularly polarized	elliptically polarized
Operating modes	«search», «audio», «adaptation»	«search», «audio», «adaptation»
The range of sensitivity adjustment in manual mode	40 dB (5 steps of 8 dB each)	40 dB (5 steps of 8 dB each)
Indication: - visual; - audible	three 16 LEDs bars; built-in speaker, headphones	three 16 LEDs bars; built-in speaker, headphones
Power supply	2 Li-ion rechargeable batteries 3,7V (18650 type)	2 Li-ion 3.7 V rechargeable battery (18650 type)
Run time of a fully charged battery	3-4 hours (depending on the operating mode)	2 to 3 hours (depending on the operating mode)
Charge time	not more than 3 hours	not more than 3 hours
Operating conditions: - temperature - humidity (under +25C°)		+5°C...+40°C; not more than 85%
Weight with battery	1.75 kg	0.85 kg
Dimensions when folded (length, width, height)	510x130x145 mm	220x130x95 mm
Dimensions with a fully extended telescopic handle and armrest	1500x130x250 mm	-
Weight of the full set	5.8 kg	up to 3.7 kg