

COVERT SURVEILLANCE /
ELECTRONICS DETECTOR

ESKAN-LICA 4

ELECTRONICS DETECTOR

The unit detects electronic devices, whether active or not, as well as finding their exact location. It also enables the operator to distinguish between return signals from real semiconductors and other kinds of responses, such as those given by corrosion or metal-oxide-metal structures.

The low powered, highly sensitive ESKAN-LICA 4 detects hidden electronic devices, including SIM cards and mobile phones, regardless of whether they are radiating, hard wired, or even turned off. It will locate any electronic devices, using semiconductor technology, in walls, floors, ceilings, fixtures furniture or containers.

Features & Benefits

Detects SIM cards and mobile phones
Small, light and hand held
2.4 GHz transmitting frequency
Radiating at 3 watts ERP
Integrated extending pole optional
Detects hidden electronic devices
Automatic or manual operation



The ESKAN-LICA 4 emits probing signals and analyses the return. The primary search targets are electronic devices which consist of circuit boards with conductive elements and semiconductor parts connected to them, such as diodes, transistors, and microchips. The probing electromagnetic radiation induces variable electromotive forces in these loops, and electronic components with a non-linear current-voltage curve transform the initial signal into its higher frequency harmonics received by ESKAN-LICA 4.

Higher frequency harmonics can also be re-radiated by corroded metal or the so-called MOM-diodes, metal-oxide-metal structures but in a different spectrum. The operator can distinguish between responses given by real semiconductors and MOM-structures or corrosion. The detection of search targets behind partially shielding obstacles is achieved by simultaneously radiating several frequencies within the 2-3GHz band and analysing the composite picture of the reflection spectrum.

Physical Specifications

Display	3.3" TFT display
Response indication	visual – 3 x 16-segments aural - internal speaker or headphones
Power supply	Visual - 3 x 16 Segment display on front section, 3.5" TFT Display with options menus and graphical presentation, Internal speaker and headphone Jack
Operational temperature range	5° - 40°C; RH up to 85% at 25°C
Weight	1.2 kg including battery
Size	220 x 130 x 100 mm (LxWxH)

Technical Specifications

Range of radiated frequencies	2–3GHz
Max. peak radiated power	< 2W
Antenna polarisation	Polar
Sensitivity range in manual mode	40dB with 8dB increments

