

ELVIRA

LORNET

STAR



The world only one multifunctional non-linear detector featuring an integrated spectrum analyzer of 2nd and 3rd harmonics and interchangeable antenna unit of 3 frequency bands: 800 MHz, 2400 MHz and 3600 MHz

Key Features

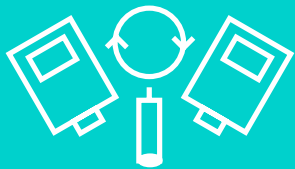


800
MHz

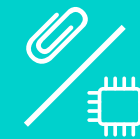
2400
MHz

3600
MHz

Offers the combination of operating options in absorbing medium with high humidity, the detection of small (less than 1 cm²) semiconductor elements and the remote detection with spatial target selection



Universal control knob with interchangeable antenna units and universal telescopic rod can easily convert the detector from discover to inspection mode and back

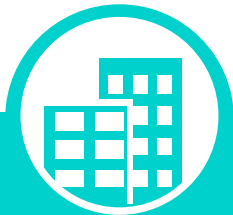


Integrated spectrum analyzer of 2nd and 3rd harmonics can significantly improve the identification of semiconductor elements. The availability of interchangeable antenna units delivers the benefit of all three frequency range



Reliable detection of the SIM-card at a distance of 15 cm (2400 MHz) and 60 cm (3600 MHz)

Application



INDOOR USE

Performing indoor search works by taking advantage of all 3 bands

DURING INSPECTIONS

Procedure Effective at inspection work

ON OPEN TERRAIN

The narrow beam of the antenna pattern at 16 degrees and the availability of laser illumination provide convenient search works on the area

Application Features

ANTIJAMMING

Lornet is equipped with an automatic system of protection against centered jamming by criterion of a minimum noise in the receiver path of the 2nd harmonic.

ANALYSIS OF THE NATURE OF SEMICONDUCTOR

For efficient identification of artificial and natural semiconductors a visual spectrum analyzer is used or a listening through a built in speakerphone or headphones after AM decoding of the signal in continuous mode is done

ENVIRONMENT

Electromagnetic radiation towards the operator is many times less than one setted by the Regulator

Control

CONSOLE

User friendly interface and unified push-button control. It does not require pre-setting before the start

INDICATION

Vivid and explicit indication of power levels of the signal and the received harmonic-waves

POWER CONTROL

Availability of the automatic and manual control modes for the levels of the 2nd or 3rd harmonic of probing signal power increases the convenience of search works

Supply Package

- Control knob Lornet Star
- Universal telescopic rod Lornet Star
- 2 removable (LI-ION) rechargeable batteries (12V),
- Battery charging container
- Battery charging adaptor (220V)
- Lornet Star Package can include up to 3 Interchangeable Antenna Unit (IAU) from 4 options:
 - IAU Lornet Star 08, 800Mhz (option)
 - IAU Lornet Star 24, 2400Mhz (option)
 - IAU Lornet Star 24s, 2400Mhz with spectrum analyzer
 - IAU Lornet Star 36m, 3600Mhz (option)
- Transportation bag
- Documentation (user manual, certificate)



Technical Characteristics

Interchangeable antenna unit	08	24	24s	36M
The frequency of the probing signal in the range	800 MHz	2400 MHz	2400 MHz	3600 MHz
The maximum power of the probing signal (max. // average):				
Pulse mode	10W//230mW	10W//230mW	10W//230mW	18W//112mW
Continuous mode	//300mW	//300mW	//300mW	
Pulse mode with CW				6W//375mW
Receiver sensitivity, not worse than	-110mdb (-140dbW)			
The adjustment range of the probing signal power	20db			
The dynamic range of the receive path	24db			
Battery life at maximum power in a pulsed (continuous) mode	3,0 h (1,5h)	3,0 h (1,5h)	2,5 h (1,5h)	2,5 h (1,5h)
The item dimensions in active status	40x20x7cm	40x20x7cm	40x20x7cm	40x20x20 cm
The Interchangeable telescopic rod dimensions	54x4x4 cm(86x4x4cm)			
The full weight of the item in active status without telescopic rod	1 kg			
The full weight of telescopic rod	0,2 kg			
The bag dimensions	65x30x20cm			
The full weight of item in the bag	8 kg			
The operating temperature range	от +5 до +40°C			

LORNET[®]

EXPORT

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RT Export is the official exporter of the Lornet Series Non linear junction detector