

About the competitive advantages of non-linear locators LORNET

LORNET

Non-linear

locator is

the only

equipment detecting electronic devices disconnected from

the power source

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The main function of a non-linear locator is to detect semiconductors and their selection into artificial (electronic components) and natural (metal-oxide-metal)



How it works: the transmitter of a nonlinear locator irradiates the object to be analyzed with a probe signal, and receives the reflected signals of the 2nd and 3rd harmonics, the level of which is indicated and further analyzed by the operator

Artificial semiconductors

have a stable quadratic voltampere characteristic and feature maximum response at the 2nd harmonic of the reflected probe signal



LORNET

In practice, search objects are semiconductor elements with

unknown detection

characteristics



Screening measures to seize electronic devices in places where their use is prohibited (places of detention, closed meetings,

Search for tacit information retrieval tools in interior elements and

Scope of application of nonlinear locators

building structures

vehicles)

Remote search and inspection of sites, objects and people to check for any presence of electronics and metal destructing agents

What to look for?



Artificial semiconductors: voice recorders, radio transmitters, wired microphones, mobile phones, SIM cards, GPS trackers, explosive electronics



Natural semiconductors: damaging elements: screws, nuts, bolts, etc.

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non-linear locators I ORNFT The reflective characteristic of the search object σ (with the covering surface) in practice has a huge dispersion exceeding 1010, i.e. 10 orders (!), which leads to the need of

using various types of nonlinear locators.

Non-linear locator Probe Search signal (f) **Object** σ **Reflected** signals (f, 2f, 3f, ...)

Among 4 well-known brands of non-linear locators such as **ORION, NR, CAYMAN and LORNET, the latter stands out with the** widest range of equipment featuring unique innovative characteristics.

None

of the existing nonlinear locators in the world cannot claim

100% efficiency

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World's unique characteristics of non-linear locators

of the LORNET

line

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The option of spectrum analyzer provides visual recognition of natural and artificial semiconductors (Lornet Star // 24c, Lornet Star // 08c)

Narrow antenna pattern in the 3600 MHz range provides spatial selection when searching (Lornet 36, Lornet 0836, Lornet Star // 36m)

The presence of interchangeable antenna modules of three
frequency ranges (800, 2400, 3600 MHz) covers the advantages of
each range in one device (Lornet Star // 08 // 24 // 36m, Lornet
Star // 08 // 24c // 36m, Lornet Star // 08s // 24s // 36m)

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Minimum overall weight characteristics (products Lornet 24, Lornet Star // 24, Lornet 0836)

The removable telescopic rod easily turns the search non-linear locator into a search one and vice versa (the entire Lornet Star product line)

non-linear locators

About misleading numbers when choosing a nonlinear locator

One can not make choices based on characteristics that the consumer cannot verify

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According to the declared parameters, the energy gain of ORION 2.4 before Lornet Star / 24s is as much as 25 dB

However, when working indoors, these products show very similar results in many tests on their detection ability non-linear locators

Criteria for

choosing non-

linear locators

When choosing a non-linear locator, the final consumer should first of all rely on three main criteria:



The real detection range of their own tests, which should take into account the conditions in which the device will be used (main criterion)

Convenience of the operator (a combination of weight and size characteristics and ease of device's control)



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State authorities' conclusions on energy flux density levels generated by a specific non-linear locator and their compliance with current environmental standards

non-linear locators

Non-linear locator Lornet Star / 24c

> today is the best choice for checking office premises

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With the advent of the Lornet 24 in 2008, the 2400 MHz band became a classic for office work



When operating indoors, these products show similar results in detection ability

Weight	2,2 kg	1,0 kg 1,4 kg 1,4 kg with rod		
Harmonic spectrum analysis	no	no	yes	-70 -70 -70 -70 -70 -70 -70 -70 -70 -70
Upgrading		Lornet Star/24c/36m —		
configuration of 3600 MHz module	no	no	yes	