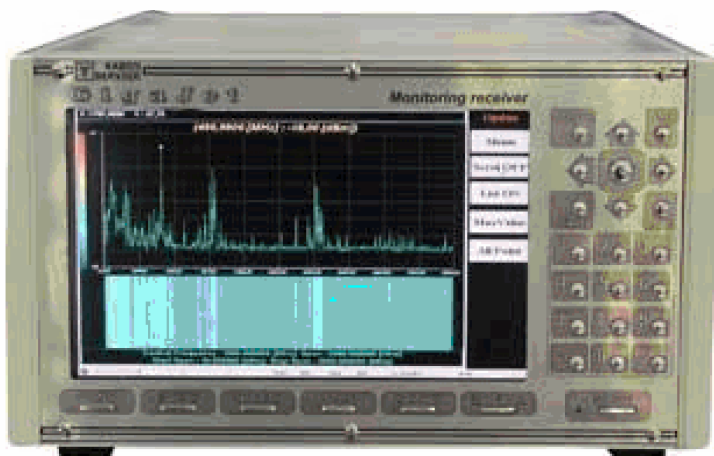


MEGAJET (700010)



High-speed Interception Scanning Receiver

MegaJet is the high-speed scanning receiver specially designed for rapid search and detection of the unauthorized radio-emitting devices and transmitters. Thanks to high interception scanning speed (66 GHz per second) it is capable to detect super-short-time radio-signals and signals with frequency hopping (FH). Besides, the receiver is capable to perform real time continuous storage of the signal spectrum in up to 8 MHz band that allows to detect wide-band noise-like signals (DSSS-Direct Sequence Spread Spectrum) and to create a background panorama practically immediately. Moreover, the radio-receiving device is capable to measure the radio-signals' parameters in order to obtain the spectrum evaluation, demodulation of the signals etc.

The receiver may be controlled from the key panel on the front panel of the receiver, from external key board or mouse connected to USB2,0 on the rear panel. Besides, the receiver may operate fully autonomously performing the set tasks or controlled via computer network. The **MegaJet** software in the embedded computer is loaded automatically when turning on, providing its serviceability.

To perform radio-monitoring the operator may load the MegaJet specialized software that allows to register any new signal including short-time ones on the background of the averaged panorama obtained beforehand, to perform statistic processing and to use the specific searching algorithms for detection unauthorized signals in the nearest area.

It is worth mentioning that the receiver is a finalized portable device and does not require connection of the external computer to perform monitoring, search of the unauthorized transmission etc.

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Technical specifications

Frequency range	20 MHz - 12 GHz, (9 KHz – 20 MHz, optional)
Interseption scanning speed with 10 KHz resolution	66 GHz/sec
Intermediate frequency	140 MHz
IF bandwidth	20 MHz
IF digital filtres	100, 300Hz, 1, 3, 10, 30, 100, 300KHz, 1, 2, 5, 8 MHz
Demodulators	AM, FM, PM, Puls, FSK
Noise figure/With preamplifier	12 dB/3 dB
Min. tuningstep	1 Hz
SFDR	Tip. 83 dB (bandwidth10 KHz)
IF rejection	More than 90 dB
Image frequency rejection	More than 70 dB
Image frequency rejection upper 3 GHz	More than 45 dB
Frequency setting time	50 mks
Phase noise at 10 KHz from carrier	-90 dBc/Hz
Frequency stability of heterodyne	+/- 6,6x 10 ⁻⁸
AGC	digital
Max. Level of input signal	20 dBm
Digital control of amplifying	60 dB
Inputimpedance	50 Om
Embedded computer VIA EDEN 1,3 GHz/512MB/HD 80MB, Windows XP	
Temperature range	0.....+50 C
Power supply	AC 200 – 240 B
Dimensions	380x240x150
Weight	5,2 Kg

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