

RADO 700 High Resolution 7GHz Radar for Sounding of Building Structures (700022)



The device is radar with the transmitting and receiving parts of the antenna located on one side of an evaluated surface. The reflection of electromagnetic radiation occurs from objects, permittivity of which differs from permittivity of environment. There are metallic and non-metallic objects in microwave images received by the radar. In these images, we can see inclusions, emptiness and parts of constructions with different moisture.

RADO 700 has frequency range of 6.2 - 7.0 GHz. In this new version resolution in the plane of sounding has been improved by 50% while depth of sounding is up to 10 cm.

The distinctive features of RADO 700 radar:

- Ability of executing one-sided sounding of a wall, instead of double-sided sounding as X-ray apparatus does;
- Ability to find out not only metal objects, but also non-metallic ones;
- Ability to find objects located both on the background of other object and behind it (for example, the small object located behind extended armature);
- Safety of radar's using for operator.

RADO 700 radar can be used in the following areas:

- Counterintelligence activities for detecting bugging devices;
- Inquiry activities of law-enforcement agencies;
- Inspection of building structures for determining the position of reinforcement, voids and other heterogeneities;
- Surveying of especially critical constructions (airport runways, bridges, etc.) for determining their latent flaws;
- Detection of cracks in underground parts of buildings and structures for prevention of the water infiltration.

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Specifications:

Maximal sounding depth	0.15 m
Resolution in plane of sounding	2 cm
Number of operating frequencies	5
Number of signal's polarizations	2
Transmitter power	10 mW
Power source	10 W max
AC	100-230 V 50-60 Hz
DC	12 V
The weight of equipment set	1.9 kg
Dimensions	
Control unit	157 mm x 63 mm x 200 mm
Sounding head	95 mm x 148 mm x 119 mm
Productivity	4-6 m ² per hour

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