



Belarusian State University  
of Informatics and Radioelectronics  
R&D Department

## Announcement International Military-Technical Forum "ARMY-2022"

August 15 – 21, 2022

Patriot Expo, Kubinka, Russian Federation

### **About Forum**

A unique platform to demonstrate the best achievements of scientific and engineering thought, embodied in modern and promising models of smart weapons, military equipment and technologies, in construction and logistics projects, as well as for enterprises ready to cooperate on various levels in the interests of military and industrial complex.

### **Key areas:**

- Aviation cluster.
- Navy cluster.
- Diversification.
- Military medicine.
- Military construction.

**As part of the forum, BSUIR will showcase the following high-tech developments.**

**Control and measuring microwave devices and equipment in the frequency range from 0.01 to 220 GHz**, used for maintenance and repair of communication stations, replacement of the outdated physical infrastructure of enterprises of the defense and telecommunications industries. The equipment is included in the Registers of measuring instruments of the Republic of Belarus and the Russian Federation.

**Metrological services:** calibration of measuring instruments, testing of modules and units, material property research, software development for microwave devices.

[More about the equipment and services](#)

## Radar, communications and navigation equipment.

- **Radio altimeters** for ensuring accurate takeoff and landing of large-sized unmanned aerial vehicles, measuring the flight altitude of high-speed objects in real time. The main advantages include millimeter wavelength range, high speed of information update, all-weather resistance, minimal dimensions and weight.
- **Short-range radar** for detecting and measuring the coordinates of air and ground objects, solving problems of air and ground space protection, air traffic control as part of ground mobile points, including for ensuring the landing of large-sized unmanned aerial vehicles. The key advantages include identification of objects with a small effective scattering surface, automatic sector maintenance mode in elevation from 0 to 30 degrees, small dimensions and weight.
- **Telemetry equipment** for receiving on-board telemetry information from on-board devices and sensors located on the aircraft, transmitting it in real time to a ground-based receiving point, as well as for receiving and recording information at a ground-based receiving point, displaying the information received on a monitor.
- **Automatic multifunctional radar test system** for testing ground-based radar systems and conducting antenna measurements in laboratory conditions.

### Developer:

[MWMLab](#) – Research, industrial and training innovation center of microwave technologies and metrology support.

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