

The comparison of the Explosive detector C04 with the rival products

The main competitive advantage of the explosive detector C04 by the Innovative center «Biruch» in comparison with the domestic equivalents and foreign analogues, is the combination of low size and weight, ultimate sensibility and possibility of the explosives remote detection, including low-volatile explosives.

Competitive advantage in comparison with the domestic and foreign analogues:

- **The best-in-class physical data;**
- **Detection of the traces of low-volatile explosives on the surface using a piezo desorber;**
- **Identification of the explosives by using defining points;**
- **Self-cleaning and automatic protection against concentration overload;**
- **Low size and weight, long-term exploitation under the operational situation;**
- **Operation over a wide temperature and humidity range.**

Designation	Detector BB C04 («IC «Biruch», CJSC, Russia)	Pilot-M1 («Lavanda-U», LLC, Russia)	MO-2M («Sibel», CJSC, Russia)	Kerber («Modus», LLC, Russia)	Sabre 5000 (Smiths Detection, USA)	Quantum Sniffer (Implant Sciences Corp., USA)	E3500 Trace Detector (Autoclear/Scintrex, Canada)
Specifications							
Threshold sensitivity, g/cm ³	10 ⁻¹⁴	10 ⁻¹³	10 ⁻¹³	10 ⁻¹⁴	10 ⁻¹²	10 ⁻¹⁴	10 ⁻⁹
Analysis time, sec	2	1,5	2	5	10	10	16
Ramp-up time, sec	6	10	10	900	900	900	60
Distance of sampling, mm	100	100	100	Remote sampling is absent	Remote sampling is absent	Remote sampling is absent	Unknown
Battery life, h	4...6	4	3	4	4	4	Unknown
Ionizer type	Radioactive source	Coronary discharge	Radioactive source	Coronary discharge	Radioactive source	Photon source	Chemiluminescence
Overall dimensions, mm	350x103x94	300x180x90	310x100x90	410x162x110	363x110x130	493x127x188	50.0 x 14.0 x 11.0 cm
Weight, kg	1,7	2	1,4	3,7	3,2	5,4	3,0
Appearance							