



An integrated instrument Portal-3 CIC
combining advanced technologies of automated search of individuals
for metal objects, dangerous chemical
and radioactive agents
and explosives



Fully certified by Federal Security Service



DETECTABLE OBJECTS AND SUBSTANCES:

- ✓ Metal objects, including:
 - blade and fire weapons;
 - shrapnel of explosive devices.
 - ✓ Explosives
 - ✓ Hazardous radioactive agents
 - ✓ Hazardous chemical agents and poisonous substances
 - ✓ Illicit drugs and their precursors, psychotropics
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- ✓ Walk-Through metal detector
 - ✓ Automatic detector for explosives, illicit drugs and other hazardous substances
 - ✓ Radiation monitor



Characteristics of detection of weapons and metal objects

Number of detection areas	10
Displaying the location of the detected object on the built-in display	present
Displaying the location of the detected object on the ends of the side panels	present
Degree of localization of the detected object	accurate
Detection class (detectability) according to GOST R 53705-2009	4 (high)
Selectivity class (selectivity to non-detection objects) according to GOST 53705-2009	D (Г) (high)

Detection characteristics of ionizing radiation sources

Category according to GOST p 51635	IV Пy
Minimum detection threshold ¹³³ Ba	140 kBq
Minimum detection threshold ¹³⁷ Cs	170 kBq
Minimum detection threshold ⁶⁰ Co	85 kBq
False alarm rate	1/1000
Classification of detected sources by hazard level	3 grades

Characteristics for the detection of illicit drugs and/or explosives

Identified explosives	disruptive and initiating, industrial and improvised, including TNT, RDX, PETN, DNT, nitroglycerin, EGDN, HMX, tetryl, trinitrophenol, ammonium nitrate, ASDT, dinitronaphthalene, TATP, HMTD.
Detection limit in terms of TNT	1 ng
Illicit drugs traces detection function	present
Monitoring function for the detection of hazardous chemical agents in the air	present
Identification of detected substance	present
Possibility of independent activation/deactivation of detection functions for explosives, illicit drugs, hazardous chemical agents	present

General characteristics of the complex

Throughput capacity	up to 720 people per hour
Overall dimensions of the passage (WxH)	76x200 cm
Overall dimensions of the device (WxHxD)	100x230x120 cm
Weight	up to 120 kg
Supply voltage	from 110 to 240 V
Supply voltage frequency	from 47 to 63 Hz
Consumed power	350 W
Detection alarm signal	<ul style="list-style-type: none"> - displaying information about an alarm event on the built-in display - buzzer (switchable) - transmission of information about an alarm event via wired communication channel (if there is an established connection)
Relay alarm output	present
Interaction with the system of technical monitoring and control results collection when receiving and transmitting information via Ethernet local network using TCP/IP family protocol stack	present
Exchange of information with the system of technical monitoring and control results collection using unified data transfer protocol and metadata format developed on the basis of XML	present
Non-volatile memory for saving settings, event archive including event date and time	present
Operating temperature	from 0°C to +40°C
Maximum relative humidity at temperature +35°C	95%
Maintenance period	2 times a year