



Radio wave scanner

B2scan HMS-2000

www.b2scan.ru

Radio wave
scanner

B2scan HMS-2000

The **B2scan HMS-2000** uses safe active millimeter wave technology to detect potentially hazardous materials such as metals, semiconductors, liquids, gels, plastics, glass, ceramics, composites and other materials hidden on the human body. **B2scan HS-2000** has modern object analysis and image processing technology. The generated results are displayed in the computer interface of the system operator, and the accuracy of the object definition reaches several millimeters. At the same time, the use of computer image analysis technology and virtual human body imaging technology effectively protects human privacy.

Application area: airports, customs posts, government agencies, strategic objects, data centers, military facilities, judicial institutions, prisons, stadiums, major theaters, museums, exhibition halls, etc.

Data transmission over a local network using the TCP / IP family of protocols.

Information exchange with the system of collecting results of technical monitoring and control using a unified data transfer protocol and an XML-based metadata.

- Operating power supply:
210-240 V~current, 50-60 Hz
- Max. power consumption: ≤ 2.0 kW
- Radiation power: ≤ 1 mW/cm²
- Operating ambient temperature: 0 ~ 40 °C
- Image resolution: 5 mm x 5 mm
- Typical probability of hidden object detection: $\geq 85\%$
- Imaging area: 150mm ~ 2000mm
- Passage dimensions: 500 mm x 2100 mm
- Equipment dimensions:
2100 mm x 1780 mm x 2760 mm;
- Equipment weight: ≤ 830 kg

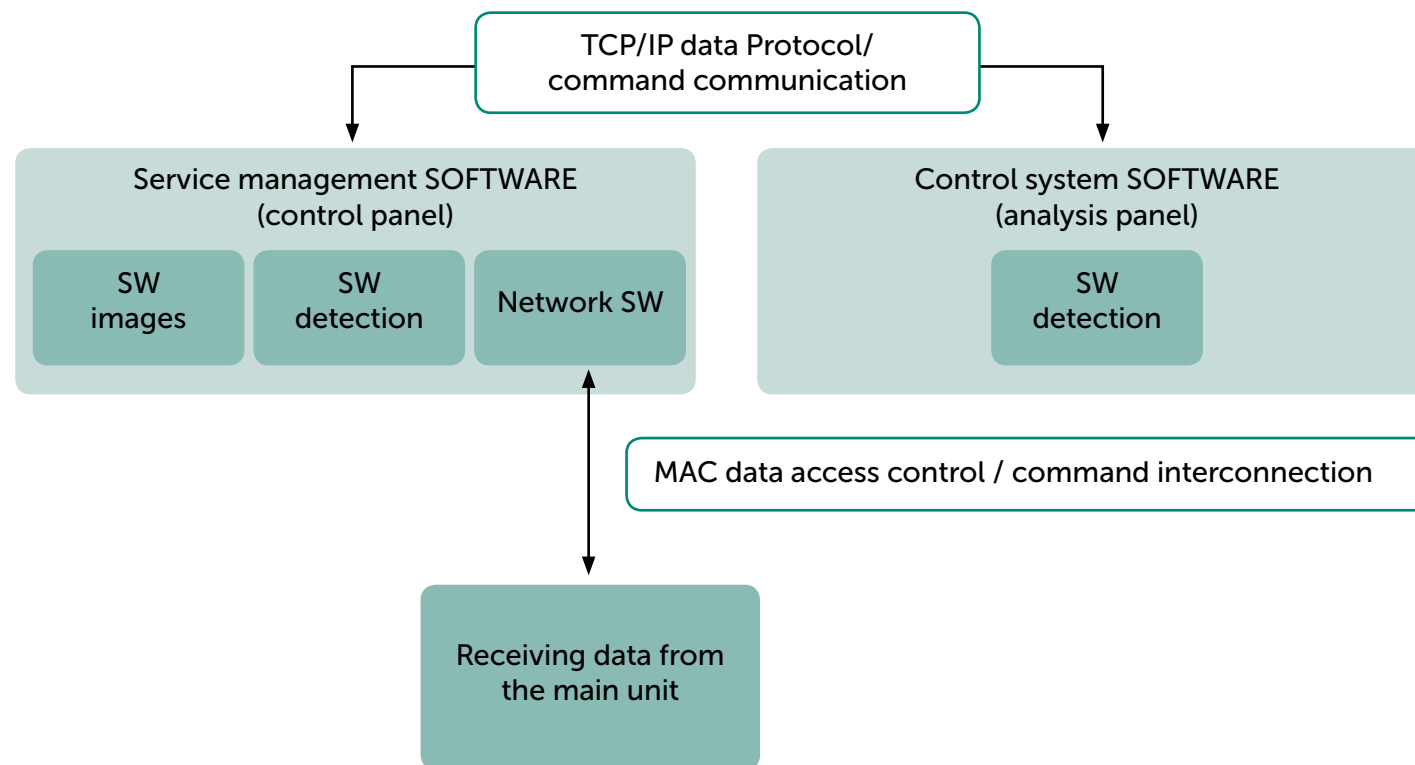


www.b2scan.ru

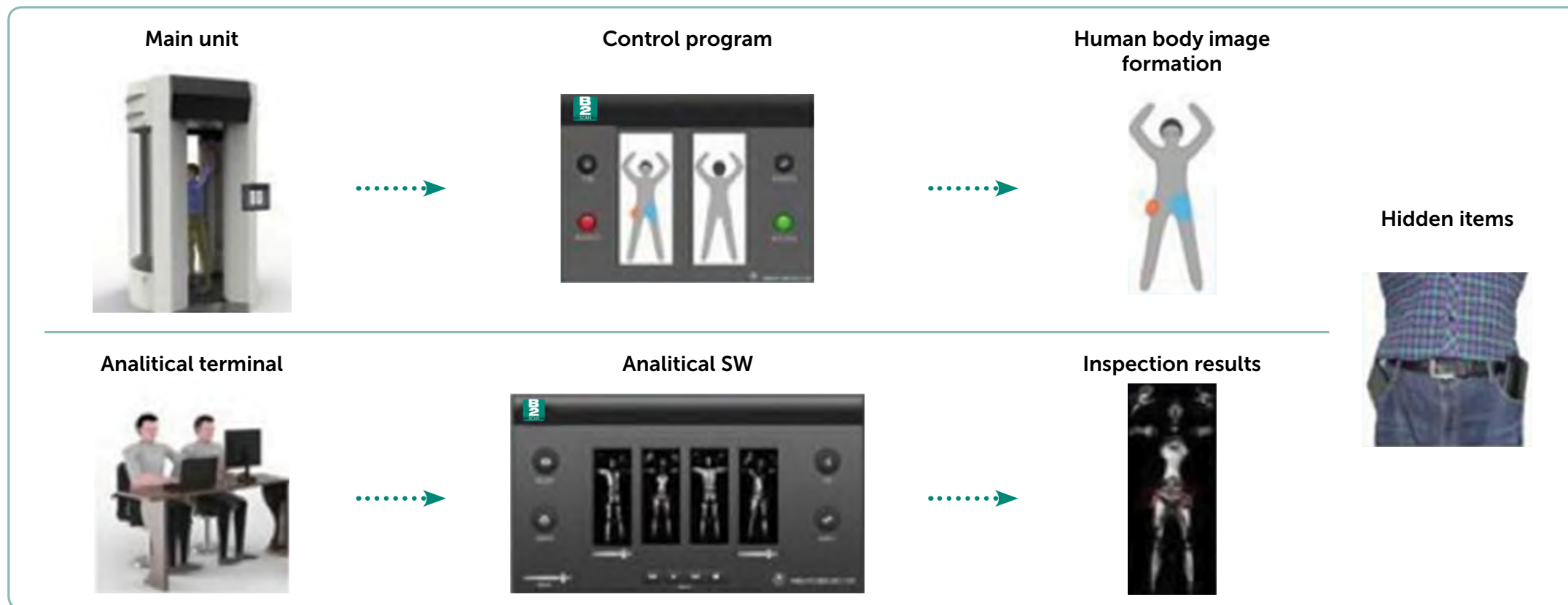


Special features

- Maximum health safety, no radiation;
- Fast, efficient and clear identification of items, privacy protection;
- Automatic detection of suspicious objects, continuous self-training system;
- Combination of automatic detection
- with manual inspection for 100% omission prevention;
- AI technology, military and civil integration.



Special features





Maximum health safety, no radiation

This system is an innovative security tool and includes more than 40 patented technologies. **B2scan HMS-2000** security technologies are qualitatively different from other types of modern universal inspection equipment. Currently, X-ray complexes of human screening are quite popular, but they cause some radiation damage to the inspection staff.

- **B2scan HMS-2000** has an absolute advantage over similar systems in efficiency and radiation safety.
- An integrated antenna can catch millimeter radio waves reflected from the surface of human skin.
- Electromagnetic radiation is less than $0.00014 \text{ mW} / \text{cm}^2$. The dose of radiation per safety check is only one thousandth of the signal of a standard mobile phone.



Fast, efficient and clear identification of items, privacy protection

To pass the inspection, the person being scanned must simply enter into the scanner and raise his hands. The scanner within 2 seconds will generate a 360 ° image in high resolution. Non-metallic dangerous items and contraband that cannot be detected by other modern inspection equipment, including caustic, flammable and explosive liquids and gels, can be automatically recognized by **B2scan HMS-2000**. The automatic detection function is intended only for certain types of dangerous items.

To meet ethical standards and protect the privacy of the person being tested, the scanner uses intelligent privacy protection technology, the system blurs the human face and intimate places. The scan mode uses the “virtual body” display technology, which is displayed on the screen behind the scanner. If prohibited or suspicious items are carried, identification is made in a specific area of the body, confidentiality and security are guaranteed.



Automatic detection of suspicious objects, continuous self-learning system

The automatic identification coefficient of the device has been increased to 95% and the automatic detection time has been reduced to 0.7 seconds. 89 typical samples of dangerous objects can be identified within 1 second, and the results are compared with the virtual human body. Taking into account this functionality, **B2scan HMS-2000** is far superior to domestic and Chinese counterparts and reaches an international high level.

At the same time, **B2scan HS-2000** has an innovative self-learning function. The system can continue to learn from an endless stream of detections. Updating the **B2scan HTS-2000** SOFTWARE is very convenient and does not require any device configuration changes, "as easy as updating the mobile application".



Combination of automatic detection with manual inspection for 100% omission prevention

The **B2scan HMS-2000** system analyzes the scan data and compares the result with the virtual human body. Security personnel can clearly identify the shape and position of dangerous objects carried

through the scanner, as well as carry out manual inspections, if necessary, which can significantly improve the efficiency of security.



AI technology, military and civil integration

The **B2scan HMS-2000** system includes the leading developments of the civil industry and has a lot of advantages over analogues. Experts from leading companies in the development of the artificial intelligence industry are responsible for the artificial intelligence technology for the automatic identification of dangerous objects and the self-

- learning system. From design solutions to radar
- detection technology, from image recognition to
- artificial intelligence, all major technologies are
- transformed from military and civilian technology
- and have completely independent intellectual
- property rights.
-

The process of inspection



Preparing for the inspection

To take off the clothes, belt, lay out all the things



Waiting for the inspection

Employee gives instructions



Entrance

Entrance in accordance with the employee instructions



Start scanning



Scanning is completed

Results are delivered within 10 seconds



The inspection is passed

Employee permits passage



The inspection is not passed

Employee does not permit passage and perform manual inspection



www.b2scan.ru