

TopScan MCD-630VIP

Walkthrough Metal Detector EyeVigil



BORDER CROSSINGS
AND TRANSPORTATION
FACILITIES



SECURITY CHECKPOINTS
AND CORRECTIONAL
FACILITIES



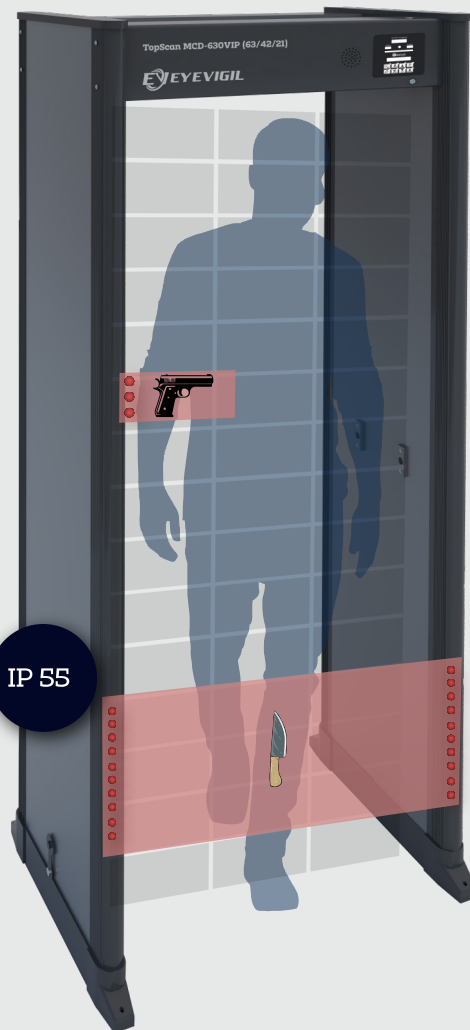
GOVERNMENTAL
BUILDINGS AND
COURTHOUSES



BANKS AND
HOTEL COMPLEXES



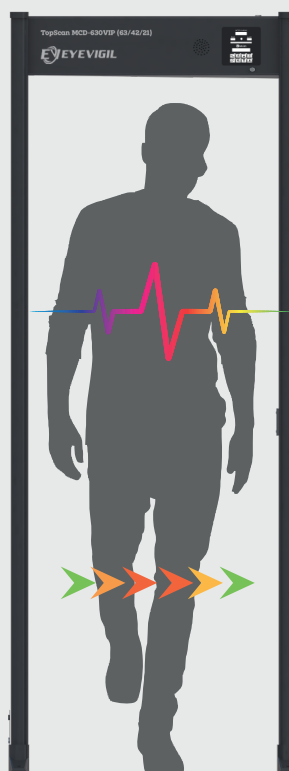
CRUISE SHIPS AND
CRITICAL
INFRASTRUCTURE



The Topsan MCD-630VIP (63/42/21) model offers a high degree of object localization on the human body. It is capable of detecting both ferrous and non-ferrous metals and can synchronize with up to 10 metal detectors placed as close as 10 cm apart. The system can be configured to detect metal objects starting from 2 grams for magnetic metals and 3.5 grams for non-magnetic metals.

The Topsan MCD-630VIP stands out for its exceptional accuracy in localizing objects on the body or concealed within a visitor's clothing. These models effectively detect both ferrous and nonferrous metals, including alloys, and are capable of identifying prohibited items as small as 2grams (magnetic metals) and 4 grams or less (non-magnetic metals). This product line is highly sought after for detecting small metal-containing valuables, as well as potentially dangerous dual-use metal objects at security checkpoints. The detection probability is at least 98%.

The Topsan MCD-630VIP (63/42/21) model features a high degree of localization accuracy and supports synchronization with up to 10 metal detectors installed as close as 10 cm apart. It can be configured to detect 2 grams of magnetic metal and 3.5 grams of non-magnetic metal.



Innovation pulse technology



It has no direct analogues on the global market



Detection of ferrous metals starting from 1 gram



Detection of non-ferrous metals starting from 3.5 grams



Precise localization of metal objects on the human body



Increased number of induction coils ensures higher sensitivity



Up to 63 detection zones

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The model offers exceptionally high noise immunity against external devices with strong electromagnetic fields. It features an accessible control unit interface with an LCD monitor, providing a high level of security, universal application, outstanding sensitivity, a wide detection range, and the ability to operate continuously for 24 hours in intelligent mode. The system simultaneously delivers sound and light alarm signals. These excellent technical characteristics make this model one of the most popular choices among users.

The metal detector does not respond

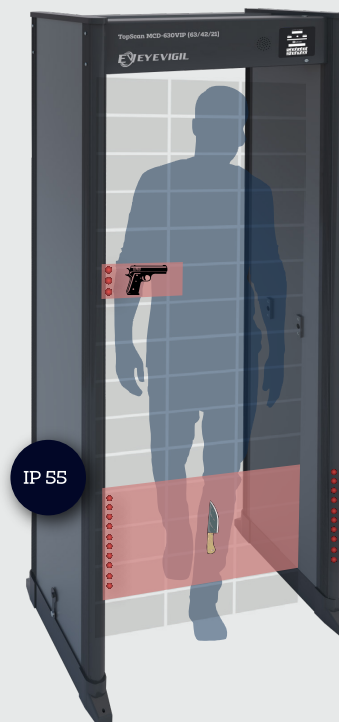
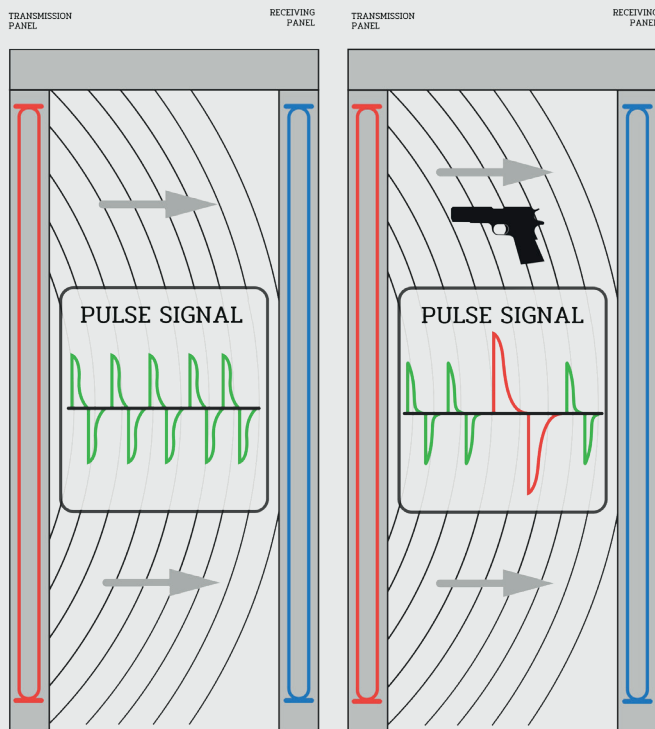


The metal detector reacts



Operating principle

Metal detectors work by using radio waves. One side of the device (the antenna) sends a signal towards the other side, which receives and then returns the signal. Since radio waves cannot pass through metal objects, when a person carrying metal passes through the arch, some waves are reflected back faster than others. The device measures the reflection time, and if the time interval changes, the alarm is triggered. A multi-zone metal detector can precisely locate one or more metal objects on the human body, significantly reducing inspection time.



The multi-zone metal detector can accurately pinpoint the location of one or more metal objects on the human body, thereby reducing inspection time.

The Top san MCD-630VIP (63/42/21) model is designed for use in manufacturing facilities, jewelry factories, specialized exhibitions, warehouses, railway stations, laboratories, and other places with large gatherings of people.

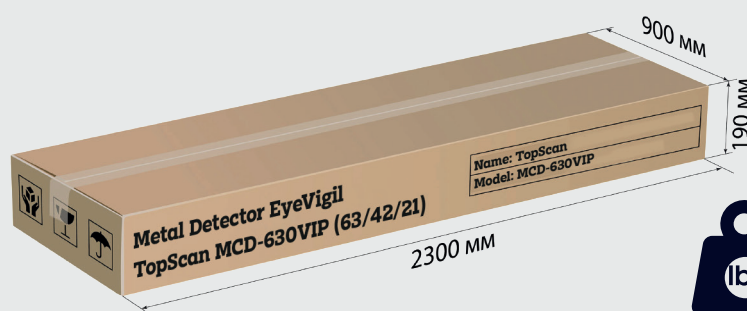
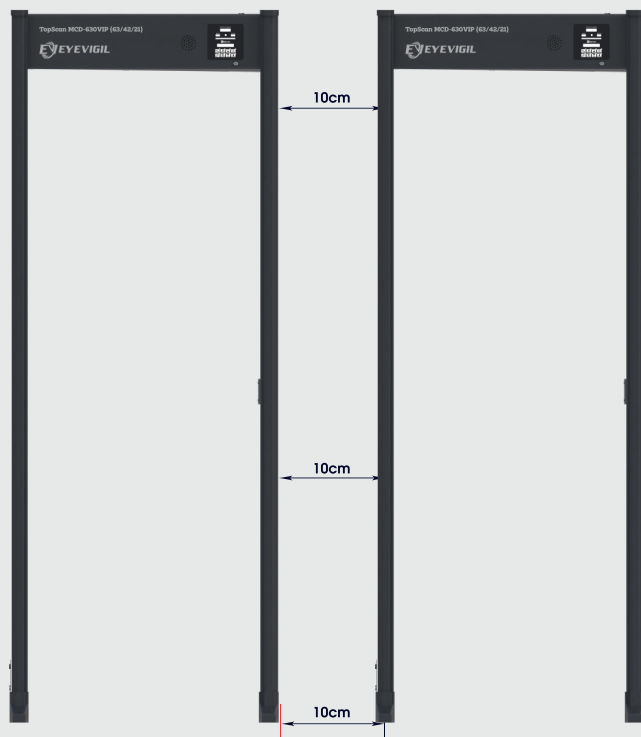
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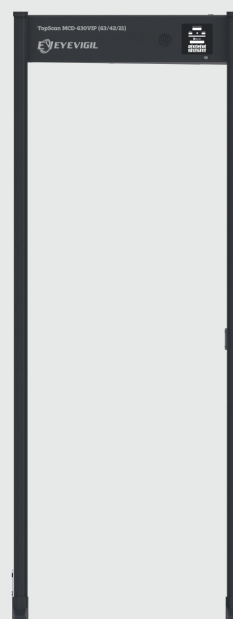
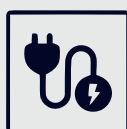
Dimensions of the Metal Detector

The TopScan MCD-630VIP (63/42/21) metal detectors are packed in a protective box. The transport packaging safeguards the equipment from damage during delivery to the client and ensures the equipment's appearance is preserved during loading, unloading, transportation, storage, and securing in vehicles.



TopScan MCD-630VIP kit includes:

- 1) Power cable – 1 pc.
- 2) Fasteners for the control unit – 8 pcs.
- 3) Remote control for adjusting the metal detector – 1 pc.
- 4) Battery for the remote control – 1 pc.
- 5) Control unit – 1 pc.
- 6) Crossbar – 1 pc.
- 7) Antenna panels – 2 pcs.
- 8) Keys – 4 pcs.
- 9) Power cable for the control unit – 1 pc.
- 10) Connection cables to the antenna panels – 2 pcs.
- 11) Instructions for use / technical passport–1pc.



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Integration into Access Control System

Due to the presence of an output for controlling actuators (dry contacts), PASO metal detectors can be integrated into access control systems.

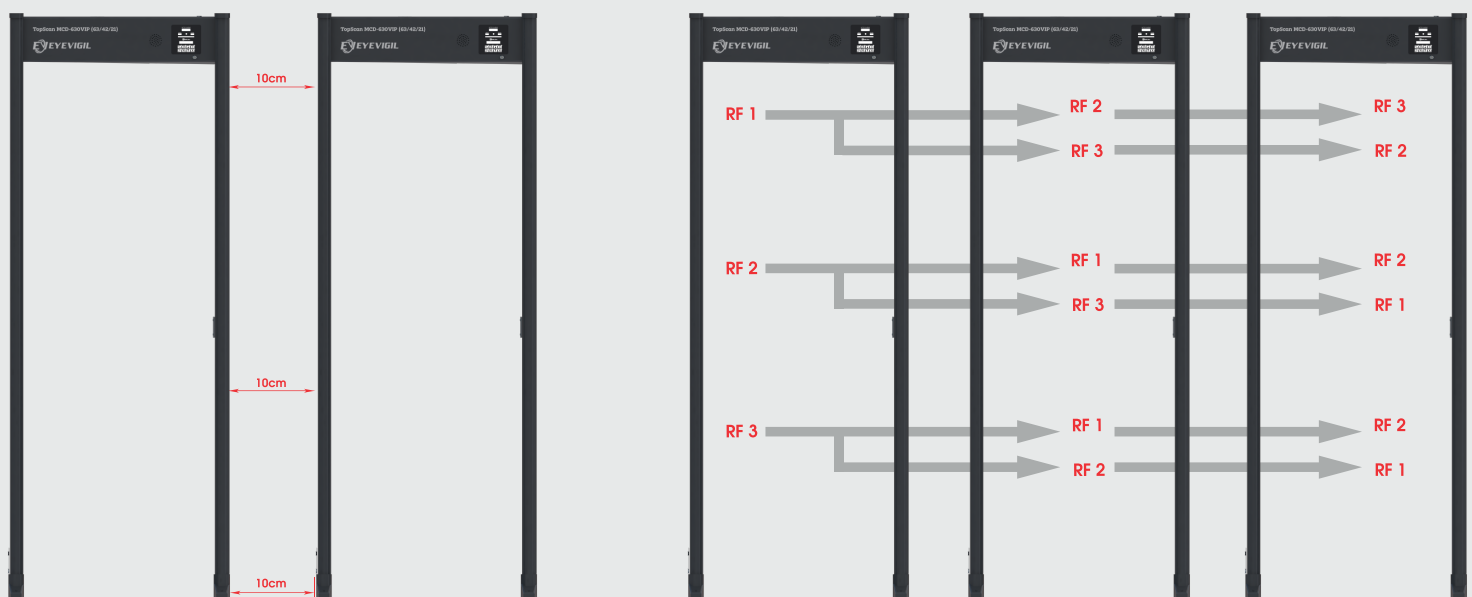
They can be installed alongside airlock cabins, vestibule airlocks, turnstiles, tripods, automatic doors, full-height turnstiles, and wickets.

When a person carrying a prohibited item passes through the metal detector, light and sound alarms are triggered, and a signal is transmitted via a wired connection to the turnstile (airlock cabin, automatic door, etc.), which blocks further passage. If no prohibited items are detected, the turnstile grants access.



Parallel operation

The Topsan MCD-630VIP (63/42/21) metal detector supports parallel operation of up to 10 units placed 10 cm apart. With 63 operating frequencies, mutual interference between adjacent detectors is minimized, enabling effective parallel use. It is recommended to assign different operating frequencies to metal detectors positioned next to each other. The minimum distance between parallel detectors depends on the sensitivity settings and frequency combinations and should be determined based on the specific installation conditions.



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Characteristics

Series.....	Topscan
Number of detection zones.....	63 ,42 ,21
Passage width (mm).....	760
Dimensions of passage (mm) LxWxH.....	590x760x2000
External dimensions (mm) LxWxH.....	690x880x2200
Package dimensions (mm) LxWxH.....	2300x900x190
Net weight (kg).....	65
Gross weight (kg).....	74
Dust and moisture resistant housing coating.....	Yes
Protection class (IP).....	55
Number of metal detectors in parallel use (number of operating frequencies).....	50
Number of levels of adjustment of overall sensitivity.....	60
Independent sensitivity adjustment for each zone.....	Yes
Sound alarm notification.....	Yes
Number of alarm tones.....	12
Light signal alarm.....	Yes
Dimensions of passage (mm) LxWxH.....	2000x760x590
Presence of LEDs in antenna panels.....	Yes
Number of standard programs.....	34
Number of IR sensor response modes.....	4
Pass counter.....	Yes
Maximum value of the pass counter.....	99999
Alarm counter.....	Yes
Maximum value of alarm counters.....	99999
Infrared (IR) analysis function.....	Yes
Selectivity.....	Magnetic and non-magnetic metals
Degree of object localization.....	Accurate
Non-volatile memory for storing settings.....	Yes
Self-diagnostic test mode.....	Yes
Throughput (persons/min).....	60
LCD – display.....	Yes
Automatic counting of real alarms.....	Yes
Automatic counting of random alarms.....	Yes
Filter for eliminating low-frequency impulse interference.....	Yes
Automatic sensitivity setting function in all zones simultaneously.....	Yes
Protection against mutual interference.....	Yes
Protection against vibration interference.....	Yes
Possibility of working with metal detectors of other brands.....	Yes
Ability to synchronize multiple devices.....	Yes
Light board with STOP/GO symbols to regulate the flow of people.....	Yes (international symbols)
Enhanced detection speed.....	Yes
Number of passwords to change settings.....	2
Four-digit password.....	Yes
Control unit menu lock.....	Yes
Remote control.....	Yes
Increased noise immunity (minimum distance between models, mm).....	300
Alarm output for controlling third-party equipment (dry contacts).....	Yes
Possibility of synchronization with PC.....	No
Power (W).....	≤ 15
Voltage (V).....	240-110V/50Hz
Operating temperature range.....	from -20 to +60 °C
Autonomous work.....	Yes, option
Average service life.....	10 years
Battery Packs (included).....	Lithium modules provide typical 4 hour 8 hour operation
Warranty.....	24 Months Limited Parts

