

INTELLIGENT BORDER CONTROL GATE

TECHNICAL SPECIFICATIONS



GENERAL SPECIFICATIONS

Power	<p>110/220V AC 60/50 Hz. ($\pm 10\%$), 24V DC.</p> <p>Single Master Unit : At stand-by ~281 W, during passage max. ~308 W</p> <p>Single Slave Unit : At stand-by ~33 W, during passage max. ~45 W</p> <p>Center Unit : At stand-by ~304 W, during passage max. ~335 W</p>
Passage Area	<p>Corridor with a length of 700 mm up to the entrance door.</p> <p>550 - 900 mm passage widths.</p> <p>1740 mm biometric control corridor length.</p>
Body Features	<p>304 grade stainless steel body (opt. 316 grade).</p> <p>Body contains cabinets with lockable lids for placing UPS, electronic control system, PC, etc. (3rd party products).</p> <p>10 mm tempered glass side walls (opt. colored glass).</p> <p>Installation place preparation for biometric and passport readers.</p> <p>Vertical and horizontal tilting mounting brackets for the screens to be used (optional).</p>
Wings	<p>12 mm thick tempered glass door wings in pairs at entrance and exit with heights of 1300 mm (entrance), 1500 mm (exit).</p> <p>Wings can be illuminated if required (depending on the material chosen).</p> <p>Wings have soft opening and stop feature with ramp function.</p> <p>Wings are locked with electronic locking system, there is no mechanical locking.</p> <p>Wings have opening with alarm feature in case 15-35 kg force applied according to fire regulations and in order to avoid harm to passengers.</p> <p>Visual applications (logo, etc.) on wings are available upon request.</p>
Safety Belt	<p>Manually used safety belt for disabled gate status, embedded into the body, with auto-retracting mechanism. Contains lock for opening and closing.</p>

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	Works in line with indicators (indicators illuminate red when closed/disabled, green when opened).
Indicators	<p>1 piece; 16x32 positioned at ~2250 mm to be seen from distance and 1 piece; 8x8 for lane guidance, DOT MATRIX multi-color animated status information displays (green open for passage, red closed for passage).</p> <p>High Bright RGB LED flat display reception indicators on entry and exit columns (green on stand-by, red during passage).</p>
Operating Temperature, Humidity, IP Rating	(-20°C) – (+68°C) (opt.- 50°C with heater positive), RH 95% (±2%) non-condensing, IP44 indoor use.
Control System	<p>All inputs are opto-coupler protected.</p> <p>Controlled by dry-contact (ground control).</p> <p>Optionally its functions can be controlled through RS232, RS485 or TCP IP.</p>
Integration / Compatibility	Integration and compatibility with all kinds of access control device, passport reader, biometric readers, PC, entry and exit information screens, cameras, etc.
System Features	<p>System with electronic controlled rapid wing movement for fast passages by automatic passport control.</p> <p>Industrially designed microprocessor controlled system with IR passage detection technology by multi-sensors.</p> <p>Contains long-life PWM controlled mechanism produced especially for turnstile systems with brushless motor.</p> <p>In no case, entrance and exit doors can be open at the same time.</p> <p>System detects tailgating (passage of more than one person at a time) attempts and generates visual and audio alarms. Detects and allows passages with luggage. Detects and warns users for forgotten items (luggage, etc.) in the passageway.</p> <p>Thanks to its special design structure, it has the capacity to physically support stop and start ramps.</p> <p>Provides easy intervention and adaptation to upgrades through its independent encoder structure. All wing positions can be controlled thanks to the encoder.</p> <p>With its enable/disable feature, when required, passages can be prevented even if the passage is granted with an external command.</p> <p>Sensors</p> <p>Multiscan Matrix Array sensors provide detection of single person entry, passage with luggage and forgotten item.</p> <p>Creating 29 virtual sensor points with physical 21 sensors, no uncontrolled area left within the passage way.</p> <p>Detects passages with luggage and prevents jamming through multi-scan sensors (Multiscan Matrix Array).</p> <p>Guidance and passport reading functions activate upon detection of the passenger in the entrance corridor.</p> <p>Accessibility</p>

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Prevents access of unauthorized people into gate interiors through locked lids. Lids and rail system are available for easy servicing and maintenance. Columns contain lockable, hinged and removable lids. Gate sections are equipped with different locks.

Opening of each lock by key can be traced through software. When a lid is open, indicators turn into "service mode" and opened lid data is transmitted to the industrial PC.

Diagnostic

A fixed and visible from outside diagnostic device is provided on the master unit of each lane showing the status of the gate.

Error/alarm codes can be monitored from this display without opening the gate lids.

Safety

By the torque control, system stops the wings to prevent harm to passengers and generates alarm in case of jamming. Overall system is designed in order not to give a harm to passengers. All electronic components of the system comply with RoHS.

Output Data

System provides dry contact passage feedback by relays separately for each direction. System provides busy signal during passage. Position of the person in passage corridor, presence of luggage and wing positions are detected by sensors and transmitted as data.

FUNCTIONAL SPECIFICATIONS

Passage

The system transmits personal information to the border control authority security software upon the passenger approaches to an available gate and scans his passport.

The first door opens for the passenger who is granted the authorization to use the gate after inconvenience check through the software.

System closes the first door after controlling through the sensors that "one" person is in the passageway.

Passenger scans his fingerprint in reader in the passageway.

The border control authority security software approves the conformity after processing the biometric data and the second door opens to let the passenger leave the passageway to complete the transaction.

Passenger face recognition can be applied when necessary.

The first door opens and the passenger whose passage is denied returns to his entry direction.

The person can be trapped inside, if required.

The product can be programmed according to alternative passage scenarios when necessary.

Wing Speed

Opening speed/time : ~0,8-1,2 sec.

Closing speed/time : ~0,8-1,2 sec.

Emergency Mode

Managed according to customer preferences and installation site requirements.

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SERTİFİKASYON

Compliance

CE, RoHS, TSEK

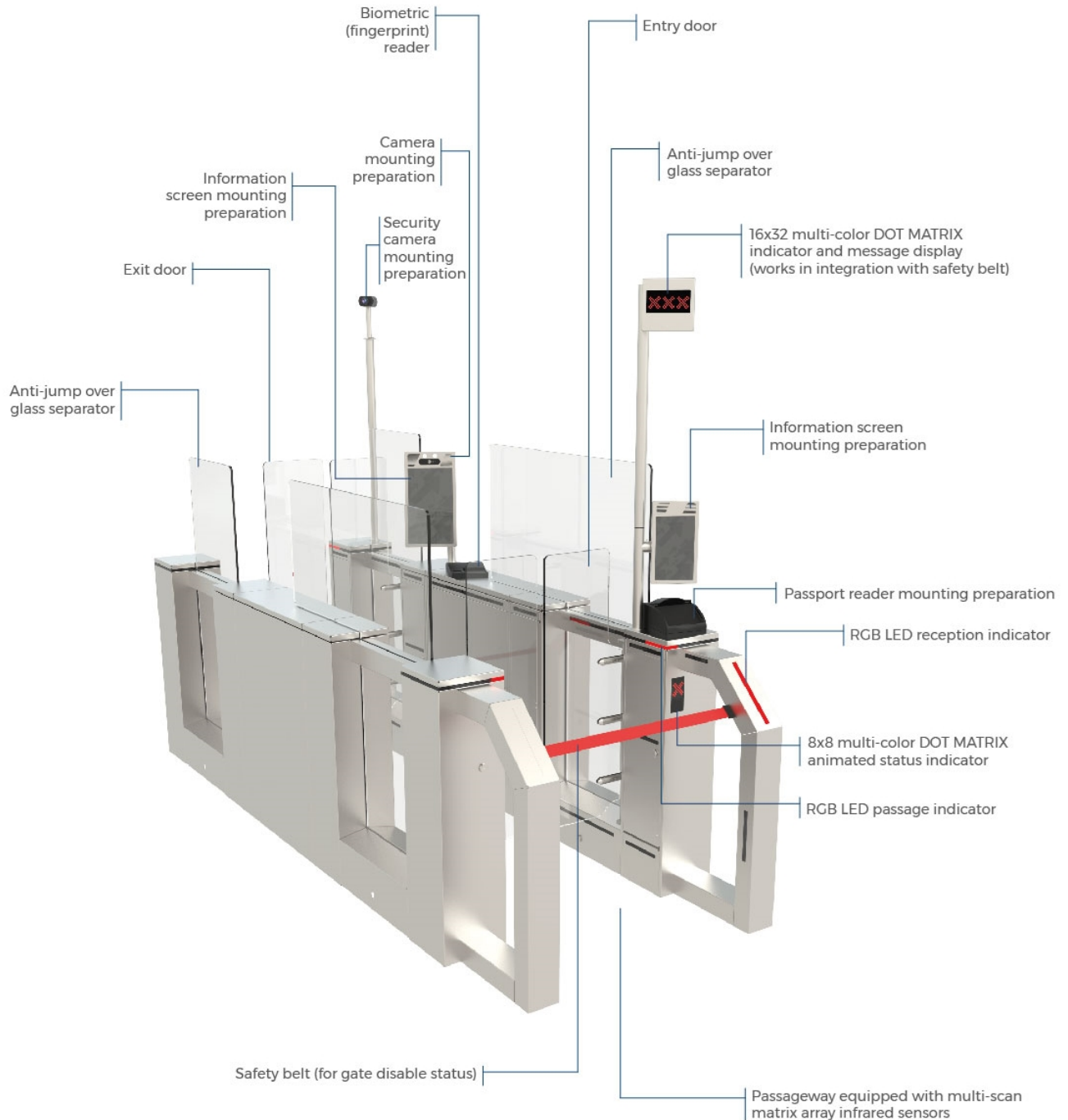
OPTIONAL ACCESSORIES AND APPLICATIONS

Options

Vertical and horizontal tilting mounting brackets for information screens, optic and biometric reader mounting housings and brackets, camera mounting brackets and poles in different heights, remote control receiver-transmitter, manual control, bottom plate, 316 grade stainless steel body, colored glass on side walls, heater positive, RS232, RS485, TCP/IP modules.

INTELLIGENT BORDER CONTROL GATE

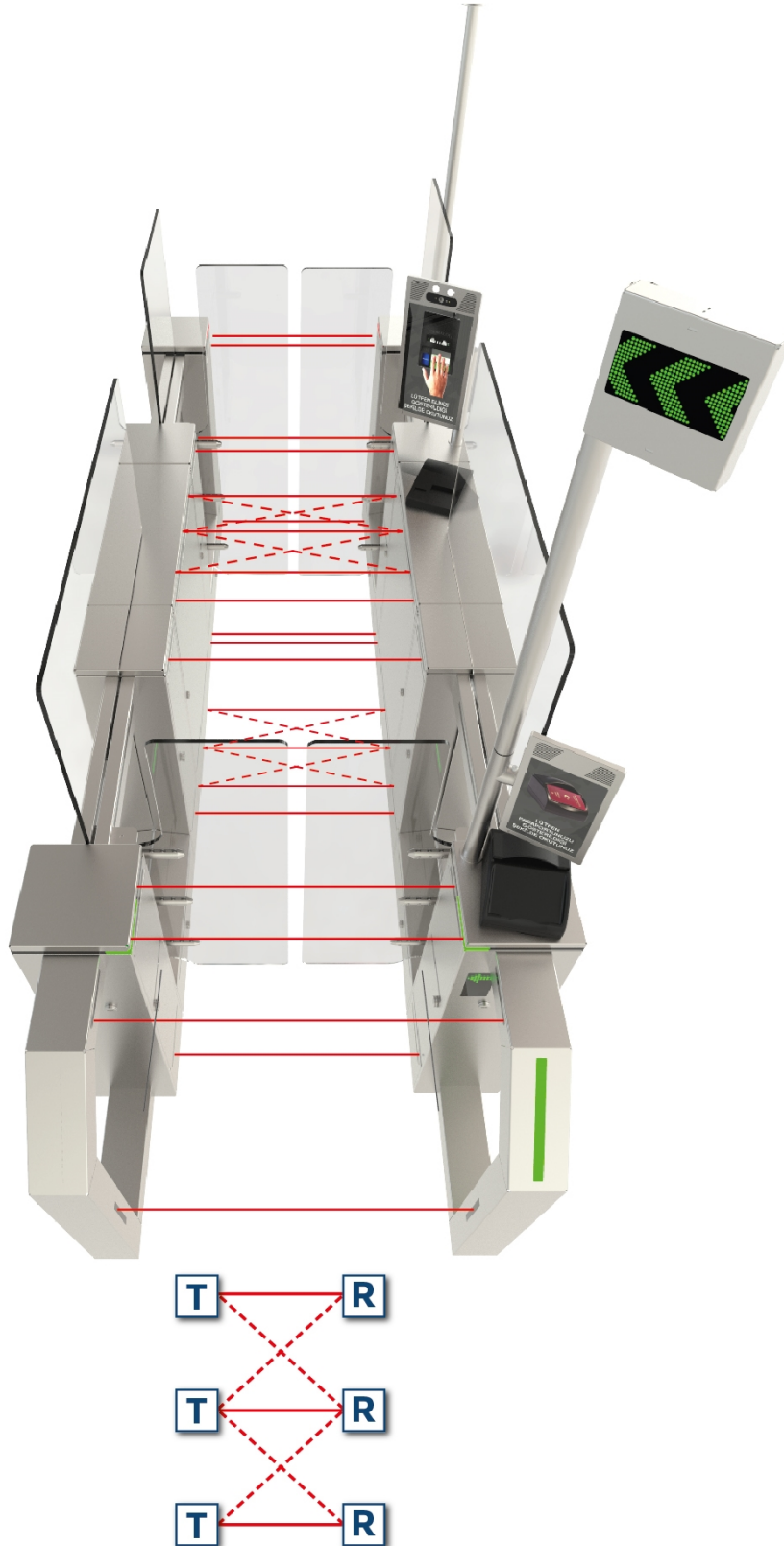
TECHNICAL SPECIFICATIONS



INTELLIGENT BORDER CONTROL GATE

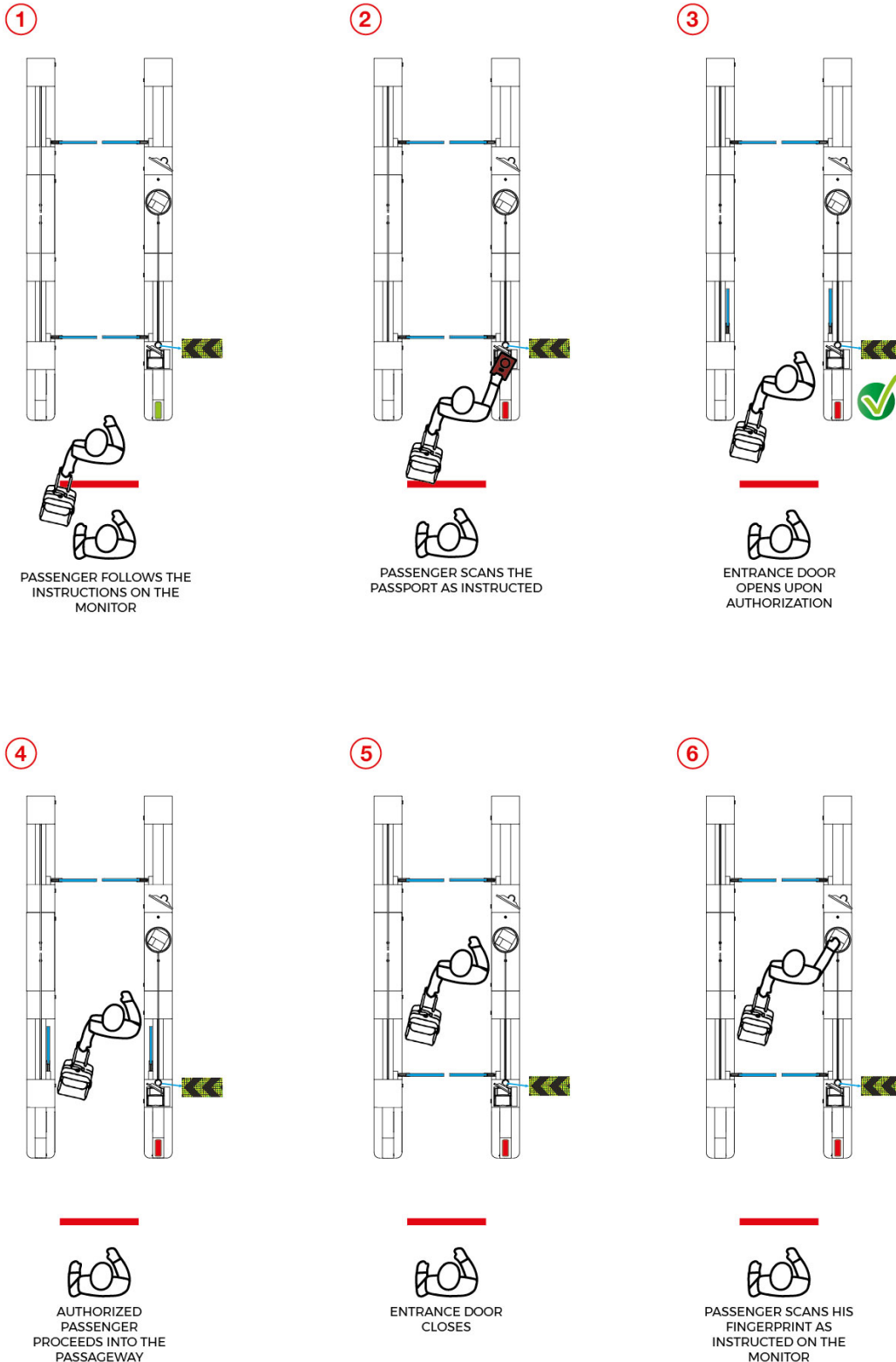
TECHNICAL SPECIFICATIONS

Multi-scan matrix array infrared sensor



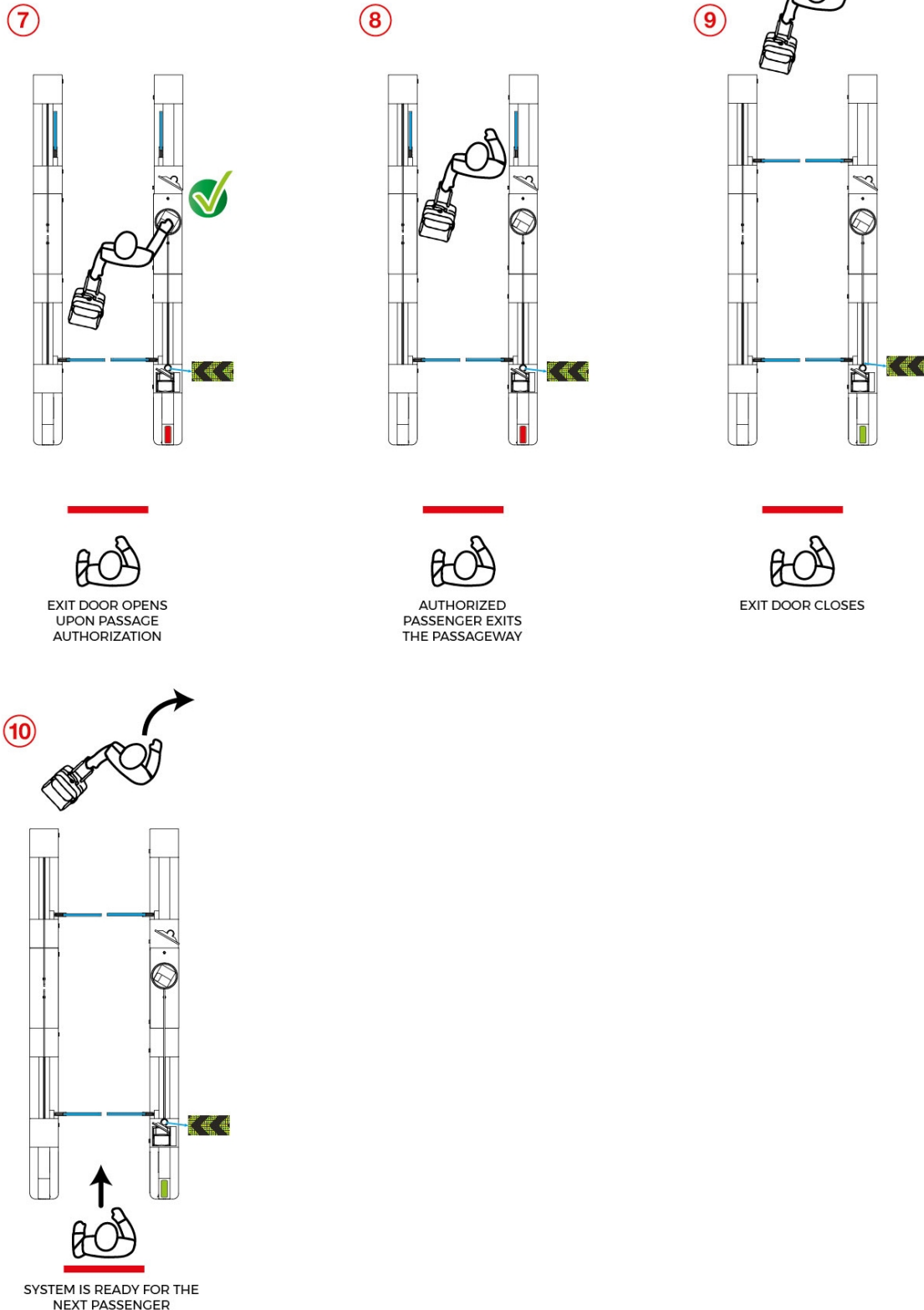
INTELLIGENT BORDER CONTROL GATE TECHNICAL SPECIFICATIONS

Authorized / Approved Passage



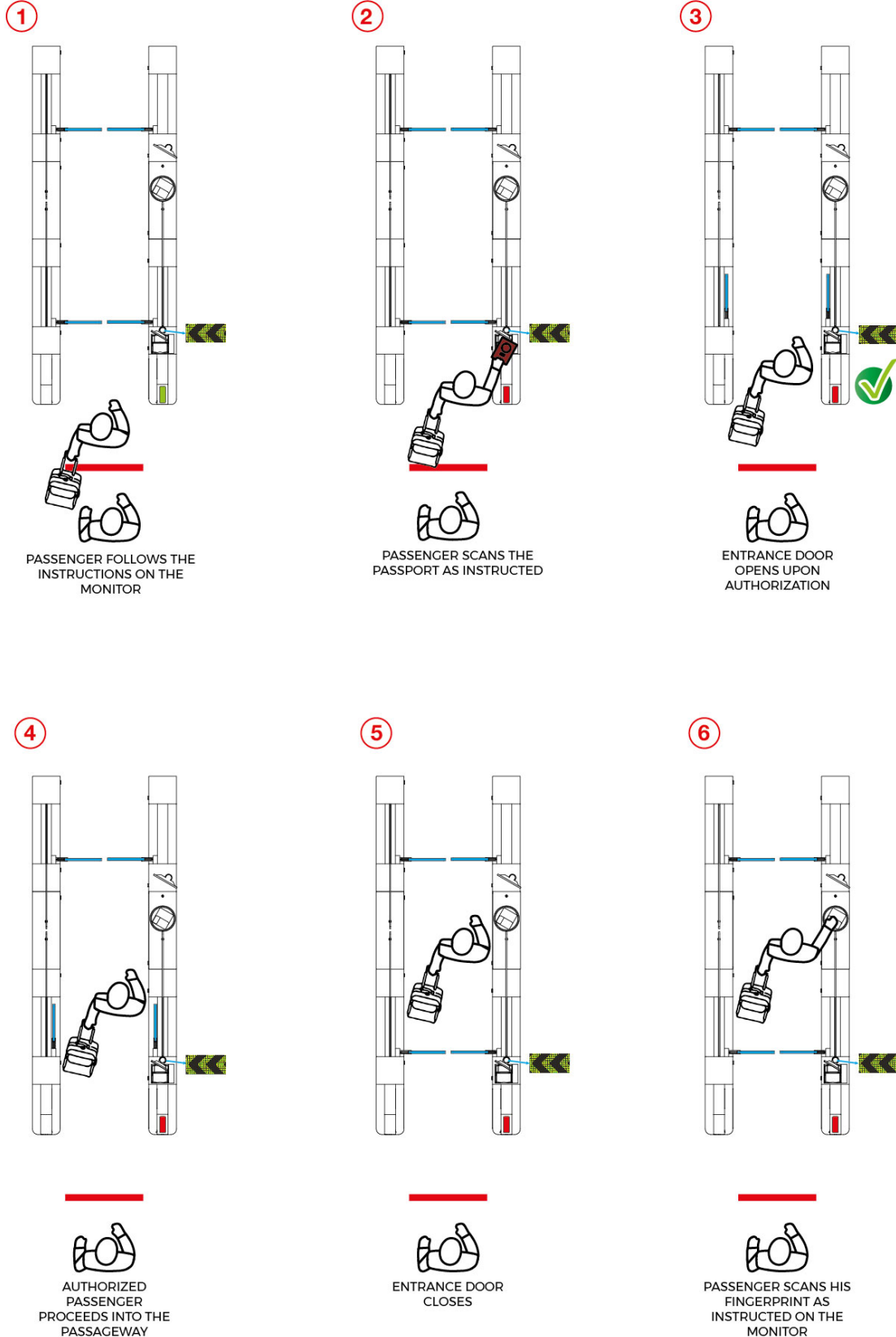
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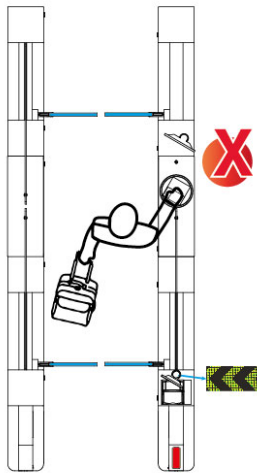
Banned Passenger Restriction



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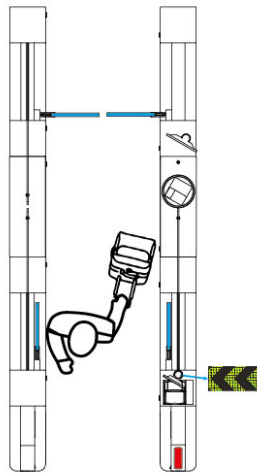
Banned Passenger Restriction

⑦



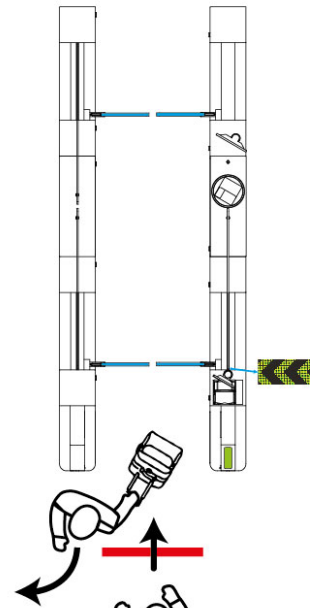
EXIT DOOR KEEPS
CLOSE DUE TO
DISAPPROVAL

⑧



ENTRANCE DOOR
OPENS AND
PASSENGER RETURNS

⑨

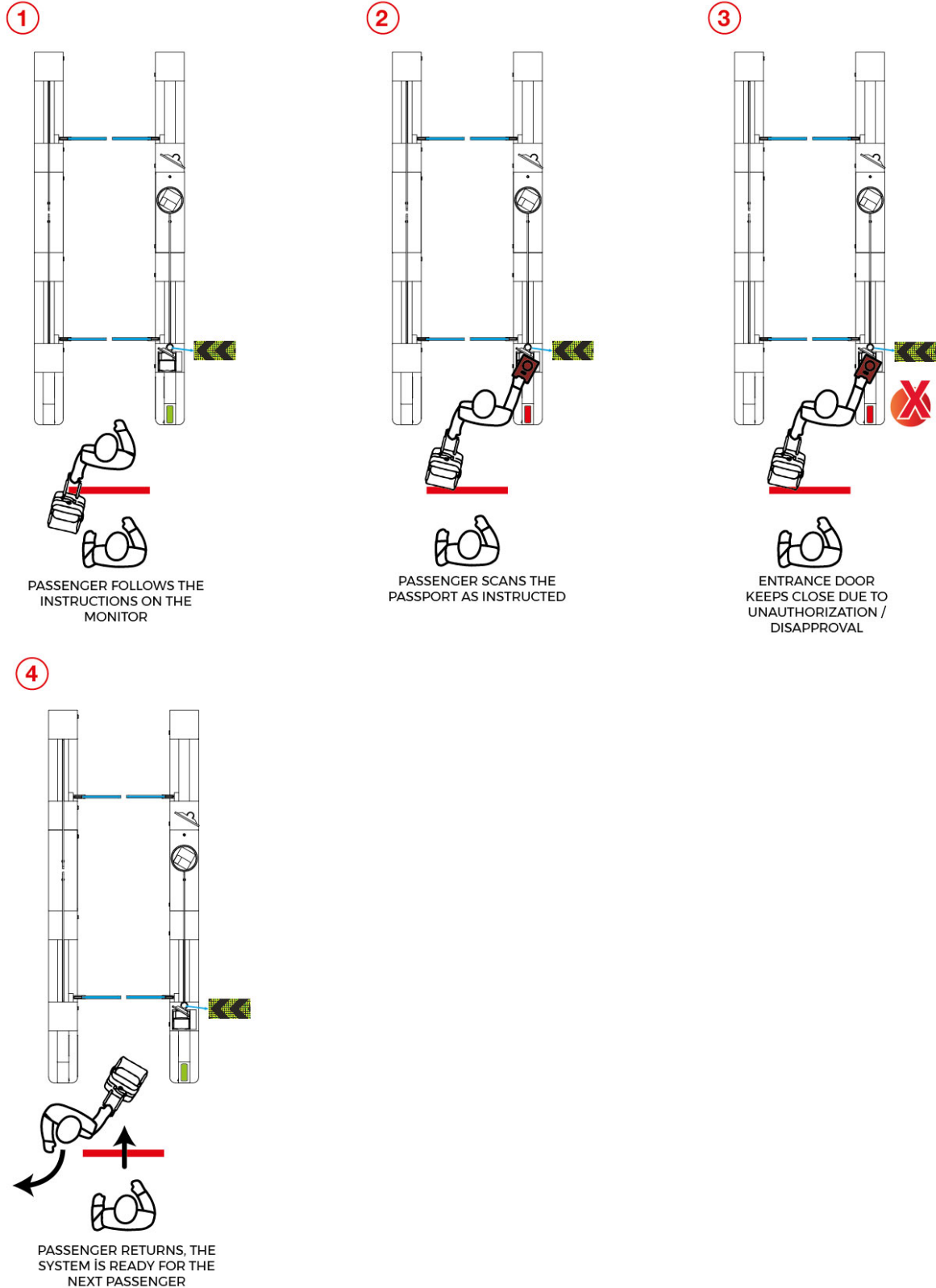


ENTRANCE DOOR
CLOSES, SYSTEM IS
READY FOR THE NEXT
PASSENGER

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Unauthorized / Disapproved Passenger Restriction

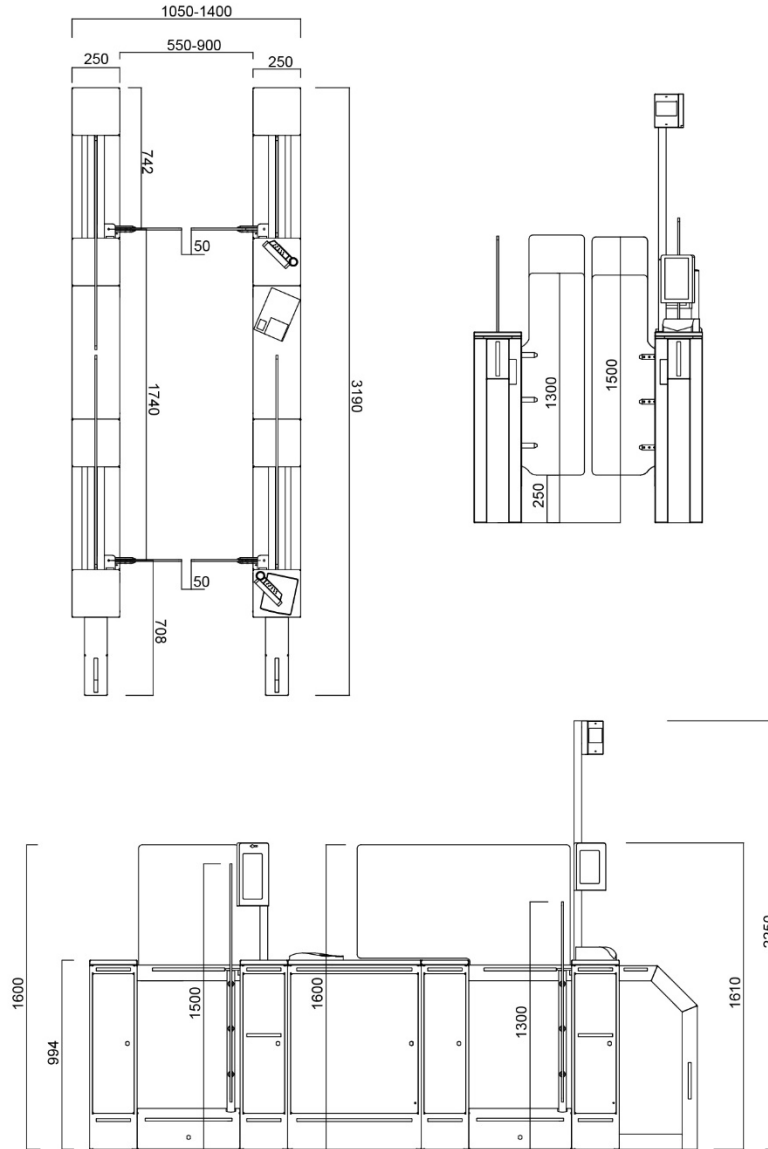


BCG 02

INTELLIGENT BORDER CONTROL GATE

TECHNICAL SPECIFICATIONS

BCG-02 Single Unit Technical Drawing



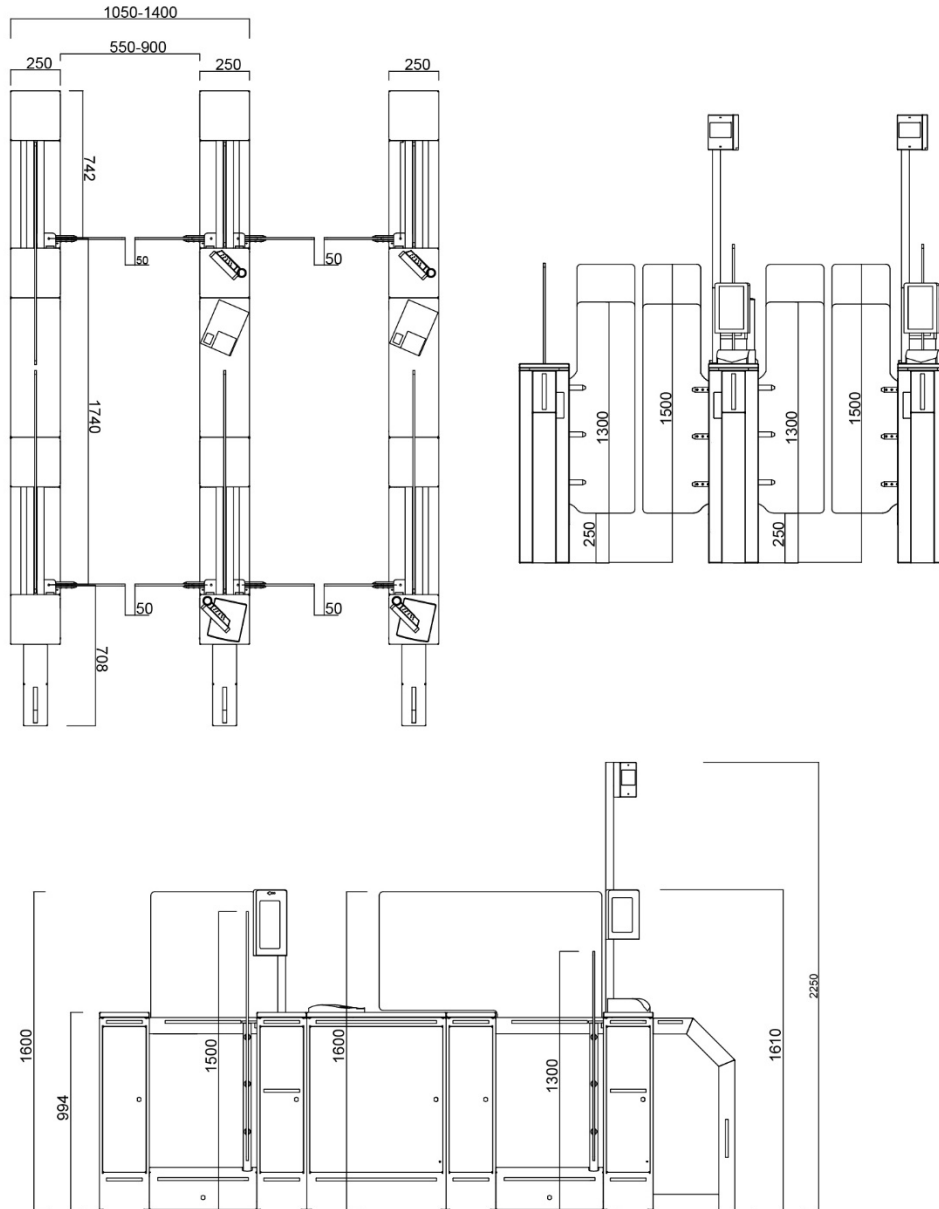
Design and specifications are subject to change without notice.

BCG 02

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BCG-02 Center Unit Technical Drawing



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