02PN20v3 Elliptic

ANTI-COVID
SECURITY SOLUTION

ANTI-COVID COMPLIANT SECURITY CHECKPOINT FOR THE AUTOMATIC INSPECTION OF PEOPLE IN TRANSIT

TRIPLE CHECK

1 DETECTION OF METALLIC THREATS WITH MINIMUM CONTACT

- Low rate of nuisance alarms and secondary checks
- High localization accuracy
- Display of individual and multiple targets

2 AUTOMATIC DETECTION OF HIGH BODY SURFACE TEMPERATURE

- Infrared, visible and multispectral images
- Automatic identification of maximum temperature zones
- Exclusive integrated thermal calibration system with double reference
- Selective measurement on one person only in transit

3 THROUGHPUT CONTROL WITH CHECK OF TRANSIT DIRECTION AND COMPLETION

- Multiple optical barriers
- Automatic count of transits and alarms

- **OPTIMIZED TOUCHSCREEN USER INTERFACE FOR MANAGING CHECKS AND DISPLAYING ALERTS**
  - Metal and high temperature alarms
  - Recording of transit and alert data
  - Integrated tools for advanced search of alarm events
- **STAINLESS STEEL AND TECHNICAL POLYMER CONSTRUCTION**
- **INTEGRATED RADIOACTIVE MATERIAL DETECTOR** (RADIATION SENSOR OPTIONAL)
- **INTEGRATED CELL PHONE FERROMAGNETIC DETECTOR** (MI2™ SENSOR OPTIONAL)
- **PATENT PENDING**

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THREAT DETECTION THROUGH ELECTROMAGNETICS

The rapid spread of COVID-19 infections has required the introduction of containment measures at all levels.

Measures include the use of face masks, social distancing and also the measurement of body temperature as an indicator of possible virus infections.

Security checkpoints at the entries to airports and other sensitive buildings should now be equipped with security systems compliant with the new measures.

This means detecting target threats with the minimum rate of nuisance alarms in order to:

- Limit the number of secondary checks necessary
- Reduce contacts between checkpoint operators and persons in transit
- Reduce waiting times upstream from the system.

All in all, this requires a metal detector with a very low nuisance alarm rate.

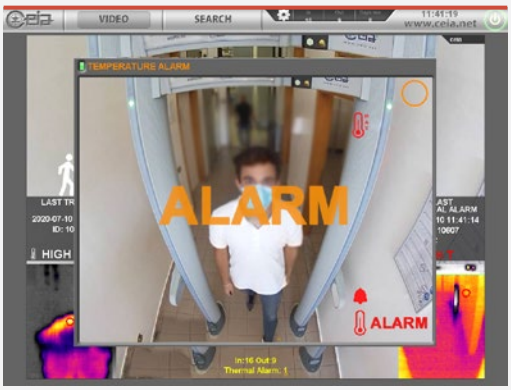
In order to comply with COVID containment measures, screening operations should also include the measurement of body surface temperature to intercept fever temperatures. This has to be done without adding any extra manual operations and avoiding any contact between screeners and the persons screened.

OPTIMIZED TOUCHSCREEN USER INTERFACE FOR MANAGING CHECKS AND DISPLAYING ALERTS

MAIN SCREEN

1. **LAST TRANSIT**
   - Date of transit
   - Transit ID
   - Transit result
2. **IR IMAGE**
3. **LAST THERMAL ALARM**
   - Date of alarm
   - Alarm ID
   - Alarm result
4. **IR IMAGE LIVE**

ALARM SIGNALING



- **VISUAL SIGNAL**
  Graphical display via pop-up window
- **AUDIO SIGNAL**
  Audible alarm

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The **02PN20v3 Elliptic** is a security checkpoint station, **compliant with COVID containment requirements** which offers state-of-the-art features for the security and protection of inspection personnel and inspected persons.

ANTI-COVID SECURITY SOLUTION

ANTI-COVID COMPLIANT SECURITY CHECKPOINT

- Detection of metallic threats in accordance with security level settings. This is done by a next-generation inductive detector with high range uniformity and excellent discrimination of metal personal effects thereby reducing the number of secondary checks necessary
- High accuracy detection zone display for individual and multiple objects to speed up screening operations
- Body surface temperature measurement using a combined visible-infrared multispectral system which automatically indicates the maximum value and signals an alarm when the legal threshold is exceeded
- Continuous calibration of the thermal measuring system using two grey stabilized bodies
- Transit direction and count verification with synchronization of the temperature measurement of the inspected person inside the gate. This ensures maximum accuracy and unique signalling

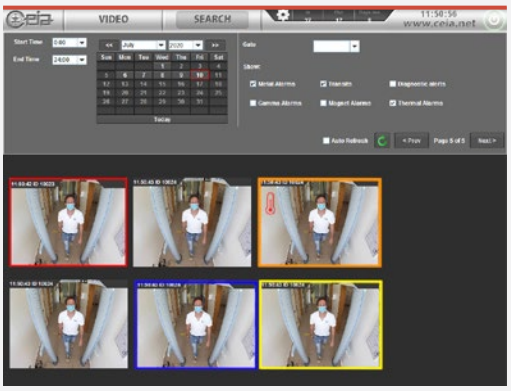
CHECKPOINT MONITORING AND RECORDING

- Detailed reporting of the transits data and the security device configuration data
- Data collection from each gate detailing the information on every single transit including body temperature, metal alarms, gamma alarms (optional) and cell phone alarms (optional)
- Monitoring of the functionality of each gate and transits flow
- Setting of the gate working parameters
- High security data encryption

SOFTWARE FEATURES

- Wide capability of data storage: 100,000+ transits
- Programmable data retention time
- Videos include time/date stamp, alarm, and all details on the alarm type
- Filters video results by alarm, date, and time
- Exports full video or still images of any frame

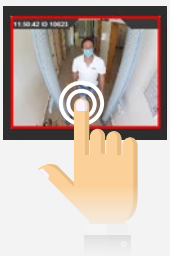
SEARCH PANEL



- Press the **SEARCH BUTTON** to display the transits
- The **TYPE OF ALARM / TRANSIT** is shown in the following color:

TRANSIT	–
METAL	RED
RADIOACTIVE MATERIAL	BLUE
HIGH BODY TEMPERATURE	ORANGE
FERROMAGNETIC	YELLOW

VIDEO PLAYBACK



- **TO PLAY THE VIDEO**, select the thumbnail, then press the play button

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METAL DETECTOR - SPECIFICATIONS

GATE STRUCTURE	State-of-the-art, robust and compact elliptical columns
	Protected against aging, weather and wear
OPERATIONAL FEATURES	High discrimination and transit flow rates five or more times greater than other metal detection systems
	Quick reset time as short as 0.2 seconds for high throughput rate
	Very high detection speed (up to 50 ft/sec.)
	Built-in operational functional verification
	One-touch key reading of inbound, outbound and Security Level Data
ALARM SIGNALING	Multi-zone display bar for "height on person" localization
	4 light bars with selectable entry/exit and pacing indication
	Green and red metering signals proportional to the mass of the detected target
	10 selectable continuous and pulsed tone plus 34 special tones
	10 selectable sound intensities ranging from 0 to 90 dbA at 3ft
TYPE OF SIGNALING	Fixed or proportional to the mass in transit - visible from 6m under lighting of 4000lux
	60 distinct zones (20 vertical x 3 lateral) entry and exit side
PROGRAMMING	Up to 50 built-in Security Programs
	Remote via Infrared Remote Control Unit, BT or Ethernet 10/100 base T (option) interface
	SECURITY LEVEL — International Standard (IS) command
	Chip card
	Local by Control Unit alphanumeric display and keyboard
	Programming and chip card access protected by user and super-user passwords
ENVIRONMENTAL DATA	Power Supply : 100...277V~ ±10%, 47...63Hz, 40 VA typical consumption
	Operating temperature: -4°F to 149°F (-34°F to 158°F upon request)
	Storage temperature: -34°F to 158°F
	Relative humidity: 0 to 95% (without condensation)

THERMAL DETECTOR - SPECIFICATIONS

MULTISPECTRAL IMAGE	Visible, 0.4 µm - 0.7 µm
	Infrared 8 µm - 14 µm
VISIBLE TECHNOLOGY	RGB C-MOS
	Resolution 1280 x 800
INFRARED TECHNOLOGY	Bolometric
	Measurement sensitive elements: 19.200
THERMAL ALARM THRESHOLD	Programmable from 93°F to 108 °F
ACCURACY	+/- 0.54°F
MEASUREMENT HEIGHT	39.5" (minimum) / 81" (maximum)
CALIBRATION	Automatic, by exclusive integrated thermal calibration system with double reference (patented)
	Each reference is constantly controlled by a sensor device that is 100% tested on a production setup that is NIST traceable and verified with equipment that is calibrated to ISO/IEC 17025 accredited standards.
WORKING ENVIRONMENT CONDITIONS	INDOOR, 59°F - 86°F
	Relative humidity < 80%

ORDERING INFORMATION

PART # **02PN20v3/EZ**

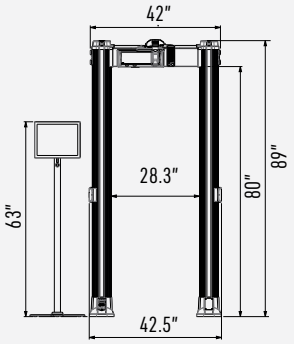
- METAL DETECTOR GATE
- APSiM3Plus INTEGRATED WEB-SERVER & LOGGER
- KIOSK WITH PC MONITOR
- SUPPORT WITH VISIBLE AND THERMAL CAMERA
- DUAL GRAY BODY CALIBRATION UNIT

OPTIONS

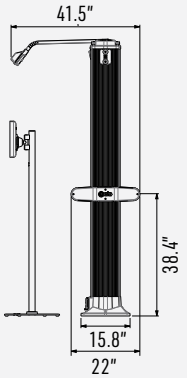
- RADIATION SENSOR: PART # 56108
- FERROMAGNETIC SENSOR: PART # 69723

DIMENSIONS

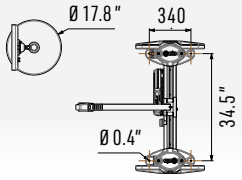
FRONT



LATERAL



TOP



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