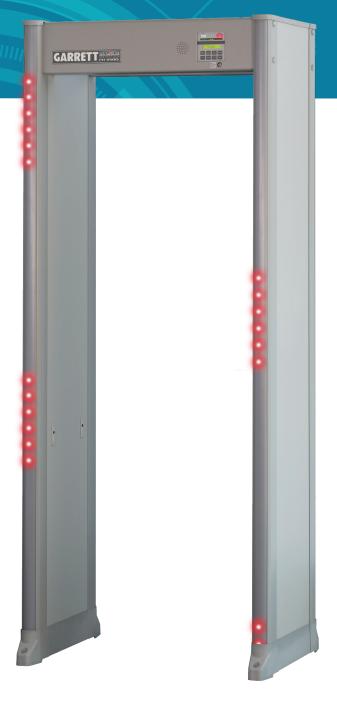
GARRETT



Meets the world's highest test certifications

Garrett's *PD 6500i* is an industry leader with superior pinpoint technology and unmatched discrimination features. This detector has proven its effectiveness at moving high volumes of patrons through such events such as the Olympic Games, World Cup 2010 South Africa, and the Pan-American Games in Mexico. The *PD 6500i* has also been trusted to safeguard international airports, hotels, government buildings, and correctional facilities. With its advanced networking and ability to pinpoint targets in 33 detection zones, the *PD 6500i* is the walk-through of choice for security professionals worldwide.





Tamper-proof

All settings are secured with a key lock and two levels of access codes. Further security is accomplished with a cabinet lock that prevents unauthorized access to physical cables, connectors and electronics.

Easy assembly

The PD 6500i's modular design allows for a quick and simple assembly of its four (4) sub assemblies using only eight (8) screws and three (3) internal cable connections.

Digital Signal Processor (DSP) based technology

DSP provides greater sensitivity, noise immunity, discrimination, detection uniformity, and overall product reliability.

PD 6500i Advantage

Bilateral detection

This unique bilateral technology has transmitters and receivers in each side panel to allow scanning from both sides, resulting in uniform detection throughout the archway. It also provides superior noise cancellation resulting in easier setup (i.e. no need to rotate the unit to avoid interference from nearby equipment such as other metal detectors or x-ray machines

Advanced broadband technology

Analyzes targets across a broad range of frequencies for greater accuracy. Provides superior ferrous and nonferrous detection. Improved discrimination means fewer false alarms and higher throughput.

More accurate pinpointing

With more than four times the detection coils of competitive models, the PD 6500i provides uniform detection and precise pinpointing. Independent zone indicator lights on both side panels identify not only height but also left, center and right locations for one or more objects passing through the archway.

Optimum Performance

More than 20 standard program settings scientifically engineered to address the needs of airports, courthouses, prisons, schools, facilities, special events, mass transit, loss prevention, and other applications.

Superior versatility

Menu based settings for feature selection such as alarm indication, count method, and language without the use of a computer. Field programmable to allow system upgrades. Multiple units can be installed as close as 2 inches.

Directional counter

Four settings for counting patrons: forward only, reverse only, subtract in reverse, and bidirectional.

Pacing lights

Universal "wait" and "proceed" symbols at the detector entrance for traffic controls.

Part No.	PD 6500i Accessories
2225420	Lithium battery module, 14AHr
1171200	I/O Relay Module
1171600	iC Module (Wirless & Wired)
1169500	IR remote control
1171100	Desktop Remote Control
1169101	Caster system
1604101	Adhesive floor mount kit
1169800	Wireless Sync SM100

Standard Programs	Over 20 application programs included	
Sensitivity	Up to 200 distinct sensitivity levels	
Optics	3 Infrared	
Zone Indications	33 independent zones	
Overhead Control Unit	All electronics—LCD, alarm light, LED bar graph, control touch pads— integrated to eliminate wire exposure.	
Tamper-Proof Settings	Three access levels of security clearance	
Self Diagnostic Program	Complete and automatic	
Calibration	Automatic and manual calibration	
Initialization Time	1 second	
Zone Sensitivity Boost	Adjustable in six areas	
Maximum Pass-Through Speed	15m/sec	
Battery Pack (optional)	10-hour (additional backup available upon request)	
Warranty	36 months, Limited Parts/Labor	
Passageway Interior Size	Width 30" (0.76 m) Height 80" (2.03 m) Depth 23" (0.58 m)	
Overall Exterior Size	Width 35" (0.90 m) Height 87" (2.21 m) Depth 23" (0.58 m)	
Shipping Size	Width 35.5" (0.90 m) Height 91.5" (2.32 m) Depth 6.25" (.16 m)	
Shipping Weight	165 lbs. (74 kg)	
Temperatures	Operating: -4° F (-20° C) to +149° F (65° C) Humidity to 95% non-condensing Storage: -22° F (-30° C) to 176° F (80° C)	
Power	Fully automatic 100 to 240 VAC, 50 or 60 Hertz, 45 watts; no rewiring, switching or adjustments needed.	
Regulatory Information	Meets international airport standards such as TSA, ECAC, STAC, AENA, CJIAC, DFT. Meets additional standards and requirements such as USMS, NIJ-0601.02, NILECJ. Meets Electrical Safety and Compatibility Requirements for CE, FCC, CSA, IEC, ICNIRP, IEEE.	
Weatherproofing	Meets IP 55, IP 65, IEC 529 Standard for moisture, foreign matter protection	
Construction	Attractive scratch and mar-resistant laminate. Detection Heads and Support: heavy duty aluminum. Immunity to electrical interference, ambient noise and mechanical vibrations.	
Control Outputs	Solid state switches (low voltage AC or DC) for operating external alarms and control devices.	
Remote Control (optional)	Desktop Remote Control with Zone Indication and/or via network with iC Module.	
Networking (optional)	Manage individual or groups of walkthroughs and perform statistical analysis of throughput with iC Module.	

USA/International	Model/Clearan	ce
1168414/1168424*	Standard 30"	IP55
1168418/1168425*	Standard 30"	IP65
1168416/1168426*	EZL^\dagger	IP55
1168432/1168427*	32.5"**	IP55

Other options available.

* Supplied with Euro plug.



PD 6500i Walk-Through Metal Detector







For more information

Email: security@garrett.com Tel: 1.972.494.6151 Toll Free (U.S. and Canada): 1.800.234.6151

[†] EZL—Standard 30" clearance with zone lights on both the entry and exit sides, allowing the operator to view the alarmed object from any position.

^{** 32&}quot; ADA-compliant passageway





Apollo ASP-2 High-Speed, 2-Reader Network Controller (2 Reader Ports, 8 Supervised Inputs, 4 Outputs)

The high-performance ASP-2 is an open-hardware architecture, clustering network controller that fully supports up to two doors. The ASP-2 is open for integration with software solutions via intuitive SDKs across multiple languages. The ASP-2 fully leverages the embedded Linux[™] OS to offer groundbreaking features like 3rd party application support. Communications are encrypted end-to-end (Host to reader), the firmware is encrypted, and user certificates are supported.

Notable Features

OPEN HARDWARE PLATFORM

- > SDK allows for hardware integration into any cloud or on-site Host software
- **▶ EMBEDDED LINUX™ OS**
- FULLY CONFIGURABLE HARDWARE INTERFACES
 - > Onboard interfaces support 4 doors using TTL or RS485 (OSDP) readers, or up to 8 doors using OSDP readers with extra licenses
- HOST-TO-READER ENCRYPTION
 - > All serial and network communications can be encrypted
- RAPID DOWNLOAD SPEEDS
 - > Performance of up to 10K cards per second
- **BIOMETRIC TEMPLATES STORED ONBOARD**
- READER PORTS SUPPORT BOTH WIEGAND & OSDP READERS

Competitive Edge

NETWORK CLUSTERING

> Controller-to-controller communications for features like shared antipassback and improved Host connection performance

OEM / 3rd-PARTY DEVELOPED & INSTALLED APPS

> User-developed, user-deployed, and user-maintained applications that run on the controller in a safe, containerized environment

ASYNCHRONOUS COMMUNICATIONS

> Events are sent to the host in real time, without polling

SCRIPTING & INTERNAL VARIABLES

> Without modifying firmware, users can create custom logic to meet specific system function requirements

COST-EFFECTIVE EXPANSION

- > Connect up to 16 OSDP readers with reader expansion licenses while reducing hardware costs
- INDUSTRIAL OPERATING TEMPERATURE (-40°C to +85°C)
- PoE+ OPTION
 - > PoE+ coupled with the auxiliary output power port enables fully securing a door without needing a DC power supply

Security

- OpenSSL
- TLSv1.3 with TLS Server /Peer certificate checking
- AES256-SHA256
- OSDP Secure Channel
- SSCPv2; Meets ANSSI encryption requirements
- FIPS 201-2
- CAC
- **TWIC**
- Firmware upgrades are signed and encrypted

Access Control

- Anti-Passback
- Threat levels
- Use Limits
- N man rule
- Occupancy Management
- Visitors and Escorts
- Elevator Control (Up to 128 floors)
- Host-Controlled Access Request
- Duress Code
- Keypad with flexible pin lengths
- Supported reader types:
- > OSDP
- > Wiegand
- > Clock & Data
- > SSCPv2
- > FIPS 201 PKI-based card and legacy types
- > Biometric

Apollo ASP-2



POWER

- Input Power (VIN):
 - > 12-24VDC; 350mA typical MAX current
 - > PoE-
- Auxiliary Output Power: VIN passthrough; 1A MAX current
- Reader Port output power:
 - > VIN passthrough with 500mA MAX per port
 - > 12VDC regulated with 500mA MAX per port or 600mA MAX combined
- USB 5VDC; 500mA MAX current
- Onboard power supervision with backup power
 - > Events and RTC maintained through power failure

ONBOARD HARDWARE INTERFACES

- 2 Reader Ports supporting up to 2 TTL readers or up to 8 RS485 readers
 - > Open-collector Buzzer output
 - > Supports single-wire and two-wire reader LED control when using the Buzzer output for LED control
- 8 Supervised or Unsupervised Inputs
 - > Configurable supervision values (12 pre-defined)
 - > High-speed input scanning with filtering/noise suppression to eliminate false alarms
- High-precision analog ICs for stability in noisy environments
-) 4 Form-C Relay Outputs
 - > 2A @ 30VDC MAX rating
- 2 Unsupervised Inputs for Cabinet Tamper & Power Failure
- 2 Network Ports
 - > 1 dedicated 10/100 Ethernet port
 - > 2nd Ethernet port possible with USB-to-Ethernet adapter
- 2 Downstream, RS485 Serial Com Ports
 - > Multidrop up to 32 IO and/or Reader Interfaces per port
 - > 9,600 to 115,200 baud
 - > 2-wire interface; half-duplex
- > Each port can be configured for a different RS485 protocol
- Micro SD card
- Micro USB 2.0 with OTG support

MEMORY CAPACITY

- Minimum Memory Specs: 512MB Flash & 256MB RAM
-) Up to 250,000 cards
- Up to 128 readers with standard configuration
- Configurable 100K+ Event buffer
-) 300 Access Levels per controller
- 50 Access Levels per cardholder
- 127 Magnetic stripe card formats
- 127 Wiegand card formats

NETWORK AND HOST

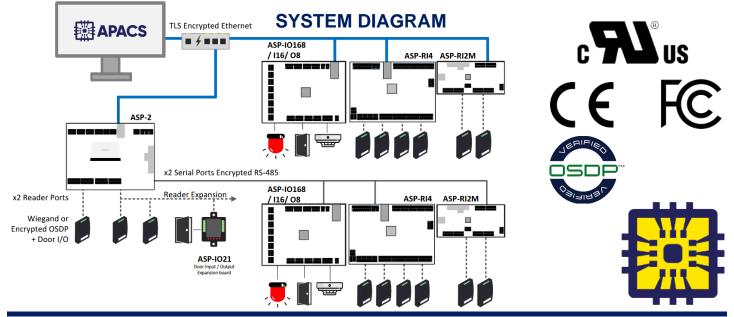
- Onboard web server for board configuration
- Host-initiated or controller-initiated connections
- Up to 5 concurrent Host connections with authorized-host list
- IPv4 / IPv6 (Static or DHCP)
- SNMF

REGULATORY COMPLIANCE

- CE Compliant
- UL 294, UL294B, UL1076, UL2610
- ULC / ORD C1076 & 60839-11-1
- FCC Part 15 Class A
- RoHS / Pb (Lead) Free

GENERAL INFORMATION

- Industrial operation and storage temperature (-40°C to +85°C)
- 5% to 95% humidity
- Dimensions: 8in (203.2mm) x 5.5in (139.7mm) x 0.88in (22.35mm)
- Weight: 0.6 pounds (272 grams)
- SKU:431600-431603 ASP-2 with PoE option 431604-431607 ASP-2 without PoE option



S-Sight

This series simplifies surveillance with high-quality images and enhanced night vision capabilities. Powered by AI (DDA™ Video Analytics) and equipped with Check Point protection for comprehensive monitoring. Choose from rainbow cameras, Motorized Varifocal options, and Anti-Vandal designs for high-security areas.



BMH-380IPSN-28

8MP Fixed Lens Bullet Camera with Hybrid LED and DDA1 Analytics

Equipped with a 2.8 fix lens, this 8MP bullet camera is designed for short-distance surveillance (up to 20m) in indoor and outdoor scenarios. With its hybrid capability, the white LED will enlighten the scene when humans being detected for full color image even in dark scenarios. The camera offers outstanding DDA Analytics (Detect, Distinguish, Alert), which can perform human and vehicle recognition. With various detection rules and triggers. This model complies with NDAA demands and ensures your device is cyber-protected round the clock with the integrated Check Point Quantum IoT Nano agent that provides an advanced threat prevention layer against the common attack vectors at runtime. With its outstanding performance, reliability, and affordable price, the BMH-380IPSN-28 camera is the perfect solution for any simple IP installation.











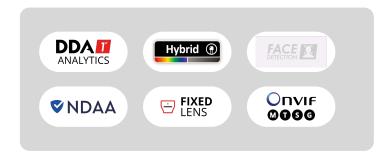












MAIN FEATURES

- BMH-380IPSN-28 8MP Fixed Lens Bullet Camera with Hybrid LED and DDA1 Analytics
- Sensor: 1/2.8" CMOS (16:9)
- Resolution: 3840×2160 20FPS (8MP)
- Lens: 2.8mm (104°) ICR + 24/7 Full-Color Day Mode
- Illumination: 20m (1 High-Power IR LED) 20m (1 High-Power White LED)
- Compression: H.265+/ H.264+ / H.265 / H.264 / MJPEG
- Quantum IoT Nano agent by Check Point™
- General Analytics: Item Monitoring, Camera Tampering

- Al (Object Recognition): DDA Sterile Area, DDA Line Crossing
- True WDR (120dB), BLC, HLC, ROI
- SD Card: Event/Schedule Record (Up to 256GB)
- Built-in Microphone + Audio input
- ONVIF: Profile M/T/S/G
- Water Proof: IP67
- Weight: ~750g
- Power: DC12V/~800mA / PoE/~11.5W



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SPECIFICATIONS

3rd Party Cyber Protection		
General	Quantum IoT Nano agent by Check Point™	
Protection Methods	Shell injection protection, File Monitor, Import-Table Protection, Dynamic- Memory Protection	
NDAA Compliant		
NDAA Compliant	Yes	
Video		
Image Sensor	1/2.8" CMOS (16:9)	
Effective Pixels	3840x2160	
Electronic Shutter	1/3s ~ 1/100000s	
Day & Night	ICR + 24/7 Full-Color Day Mode	
Min. Illumination	Day: 0.02lux / Night: 0.02lux (@F1.6, AGC on) 0lux with IR on	
Audio		
Audio compression	G.711A/G.711U	
Communication	One-Way Audio	
Image		
Image Settings	AWB, AGC Adjustable, Exposure Mode (Auto) Sharpness, Saturation, Brightness & Contrast Adjustable	
Image Enhancement	True WDR (120dB), BLC, HLC, ROI	
Noise Reduction	3D-DNR	
Image Orientation	Mirror/Flip, Corridor Mode	
Privacy Zone	Yes	
Events and Analytics		
Analytics	General Analytics: Item Monitoring, Camera Tampering AI (Object Recognition): DDA Sterile Area, DDA Line Crossing	
Motion Detection	Yes	
Compression		

BMH-380IPSN-28



Resolution	8MP (3840x2160) / 6MP (3200x1800) / 4MP (2688x1520) / 2MP (1920x1080) / 1MP (1280x720) / D1 (704x576) / VGA (640x480) / 480x240 /CIF (352x288)
Frame Rate	1-20FPS
Video Compression	H.265+/ H.264+ / H.265 / H.264 / MJPEG**
Multi-Stream	Master Stream: 8MP (3840x2160) (1~20fps) / 6MP (3200x1800) / 4MP (2688x1520) / 2MP (1~30fps) Substream: 1MP/QVGA/360p/D1/CIF (1~30fps) Third Stream: 1MP/360p/D1/CIF (1~30fps)
Bit Rate	64Kbps ~ 8Mbps@H.265 / 512Kbps ~ 12Mbps@H.264
Encode Mode	VBR/CBR
Image Quality	Five levels under VBR; Free adjustment under CBR
Lens	
Lens (Field of View)	2.8mm (104°)
Iris	Fixed Iris
Lens Mount	M12 Mount
Detect	88m(288ft)
Recognize	17m(56ft)
Identify	8m(27ft)
Network	
User Access	Supports simultaneous monitoring of up to 10 users with multi-stream real-time transmission
Network Protocol	IPv4, IPv6, TCP, UDP, DHCP, NTP, DDNS, SNMP, 802.1X, RTSP, RTMP, UPnP,

NELWOIK		
User Access	Supports simultaneous monitoring of up to 10 users with multi-stream real-time transmission	
Network Protocol	IPv4, IPv6, TCP, UDP, DHCP, NTP, DDNS, SNMP, 802.1X, RTSP, RTMP, UPnP, Email, FTP, FTPS, HTTP POST, HTTPS, QoS, Auto Report, P2P	
Remote Monitoring	IE Browsing, VMS Software, Provision Cam2 Mobile App	
Ethernet	100Mbps	
ONVIF	Profile M/T/S/G	

Connectivity	Connectivity	
Network	RJ45 (+PoE)	
Audio Connectivity	Built-in Microphone + Audio input	

BMH-380IPSN-28

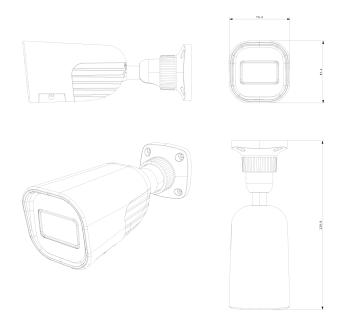


Alarm	No
SD Card	Event/Schedule based Main/Substream recording (Up to 256GB)
Wiegand	N/A
Power	DC Socket
Analog Video Output	No

Housing	
РоЕ	Yes
Illumination	20m (1 High-Power IR LED) 20m (1 High-Power White LED)
Power Supply	DC12V/~800mA / PoE/~11.5W
Protection Rate	Water Proof: IP67
Work Environment	-30°C~60°C, 10%~90% Humidity
Bracket	3-Axis Bracket
Dimensions	220.8x79.4x81.2mm
Weight (gross)	~750g
Hard Reset Button	Yes



DIMENSIONS



ACCESSORIES









CERTIFICATE OF SERVICE AUTHORIZATION

This is to certify that

Media Security srl

From

Chisinau Blv Dm Cantemir 5 | 4

V Continental Business Center

MD 2001

Republic of Moldova

Authrized to provide a service and maintenance in Moldova for

"Provision-ISR's CCTV Products"

January 16th 2022

For and on behalf of PROVISION-ISR AMITED

SWEEPER

Sweeper speed gate is a perfect solution where contemporary aesthetics and functionality are required. The glass top and side panels provide a feeling of transparency and make it ideal for the most demanding building entrances. The swinging waist-high turnstile Sweeper can operate in two modes: normally closed and normally open. Both access directions are free when the turnstile is deenergized.



PERFECT SOLUTION COMBINES FUNCTIONALITY WITH CONTEMPORARY AESTHETIC DESIGN



















Key features:

- BMDrive® a reliable mechanism with a powerful BLDC gear motor ensures long term maintenancefree operation.
- The speed gate is equipped with a smart selfdiagnosting system.
- The innovative controller with an OLED display and buttons for easy setup and configuration without special programmers.
- Digital control of force and leaf speed in combination with safety sensors prevent a person from being struck by a leaf, even in case of an unauthorized passage.
- The sensor system allows detecting the passage of a person with luggage, or arranging a free exit without the need for identification.

- Elegant cabinets are equipped with integrated LED lighting showing access status and card reader area.
- The same dimensions of cabinet for normal (550 mm) and wide lane (900 mm).
- The ability to customize housing design and top lid.
- Low power consumption.
- Can be integrated with any type of access control
- A wired remote control panel in standard kit.
- In case of power failure, leaves could be opened manually (fail-safe).







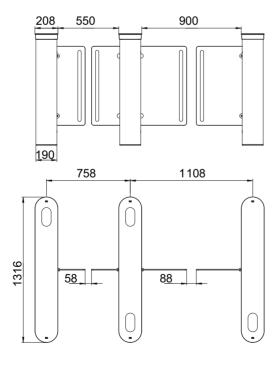


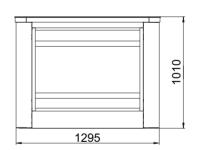




TECHNICAL SPECIFICATIONS /

Model	Sweeper 550	Sweeper 900
Cabinet width, mm	208	
Cabinet length, mm	1316	
Cabinet height, mm	1010	
Passage width, mm	550	900
Opening/closing time, sec	0,3	0,6
Mechanism	BMDrive® servo	drive (BLDC)
Blocking system	ToothLock®	
Emergency mode (fire-alarm)	Free entry/exit (leaves are	opened automatically)
Power fail	Fail safe (gates could be opened manually — standard)	
MCBF, cycles	10 000	000
MTTR, min	< 25	
Electrical Specifications:		
Maximum power consumption, W	160	
Voltage	From the AC (100-240)V, 50/6	OHz; from a DC source 12 V
Indication	DotLights®, RFIDLig	hts [®] , EdgeLights [®]
Finishing		
Standard housing	Brushed SS	AISI 304
Available housing	Brushed SS AISI 316; Polished S	S AISI 304; Polished SS AISI 316;





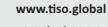
Brushed SS AISI 316; Polished SS AISI 304; Polished SS AISI 316; Powder coated RAL

Dimensions for solid glass top lid

Specifications are subject to change without prior notice





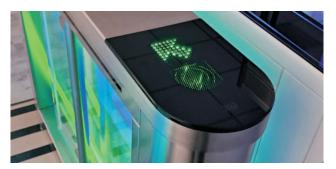








STANDARD FEATURES



LED INDICATIONS

Introducing our RFIDLight® and DotLight® features, designed to captivate attention and enhance user experience:

RFIDLight®: Illuminates card reader area. DotLight®: Displays access status.



SAFETY SENSORS, ANTI-TAILGATING FUNCTION

Our high-precision sensors excel in identifying unauthorized passage, effectively preventing tailgating by detecting two or more individuals. Additionally, our safety sensors ensure secure passage for individuals with luggage or trolleys, ensuring gates remain open until the passage is completed.



EDGELIGHTS®

Impressive illumination of the glass housing can be in three colors (standard), marking the status of passage: blue - standby mode; green - access authorized; red - access denied.



CONTROL PANEL

Included in the standard set, our wired control panel offers versatile functionality:

Facilitates single passage and free passage modes. Enables access blocking and activation of the antipanic function.



UPS FUNCTION

Introducing our advanced UPS system, seamlessly integrated to automatically switch power to the backup battery during outages. This ensures uninterrupted functionality of our speed gate, empowering you to utilize all features even in the event of a power failure.

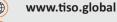


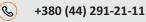
PLACE FOR RFID INSTALLATION

RFID installation space included in standard speedgate configuration.













ADDITIONAL OPTIONS /



PATTERN APPLICATION

Customize your speed gates with unique signatures, patterns, logos, and more, seamlessly placed on the leaves, housing, or top lid for a distinctive touch.



INTEGRATION OF CUSTOMISED ACS

Seamless integration of various access control systems upon request, including RFID devices, coin acceptor push buttons, fingerprint scanners, face recognition, barcode readers, and QR code readers.



CARD COLLECTOR INTEGRATION

Integration of automatic card collector directly into the speed gate housing is possible.



MP3 AUDIO MODULE

Enjoy a comprehensive audio signaling system for various gate events: access / authorised access/ closing / opening / alarm.



TWIC WIRELESS CONTROL PANEL

TiSO TWIC offers remote control for multiple lines of turnstiles. With its space-saving 10" touchscreen display, it can be conveniently placed at reception desks or within security control areas.



PASS COUNTER

Automatically counts the number of passes for efficient tracking and management.



FOOTPRINT ILLUMINATION

Illuminate the footprint of the speed gate housing with LED lighting. Customize the color of the light to suit your preferences.



SUPER CAPASITOR

Ensure uninterrupted operation with our free power package, enabling emergency automatic one-time opening of the speed gate.

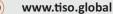


EXIT BUTTON

Introducing a convenient touchfree button option for organizing exits effortlessly.









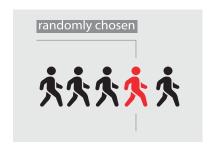
+380 (44) 291-21-11



sales@tiso.global



ADDITIONAL OPTIONS /



RANDOMISER

This mechanism autonomously selects individuals for verification without human intervention, ensuring impartiality.



JUMPING OVER TOP LEAD ALARM

Weight sensors detect impacts over 10 kg on the top lid and trigger an alarm.



RFID READERS T-PROX MINI

The reader is compatible with 125 kHz cards, Mifare, Mifare Plus, as well as mobile credentials U-Prox ID via NFC and 2.4 GHz radio.



ALARM BUZZER

Audible alarm activated upon unauthorized access.

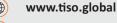


MOBILE PLATFORM

Enables rapid temporary installation of the speed gate, ideal for areas where floor drilling is not possible.













S-Sight

This series simplifies surveillance with high-quality images and enhanced night vision capabilities. Powered by AI (DDA™ Video Analytics) and equipped with Check Point protection for comprehensive monitoring. Choose from rainbow cameras, Motorized Varifocal options, and Anti-Vandal designs for high-security areas.



DH-380IPSN-28

8MP Fixed Lens Dome/Turret Camera with Hybrid LED and DDA1 Analytics

Equipped with a 2.8 fix lens, this 8MP Dome/ Turret camera is designed for short-distance surveillance (up to 20m) in indoor and outdoor scenarios. With its hybrid capability, the white LED will enlighten the scene when humans being detected for full color image even in dark scenarios. The camera offers outstanding DDA Analytics (Detect, Distinguish, Alert), which can perform human and vehicle recognition. With various detection rules and triggers. This model complies with NDAA demands and ensures your device is cyber-protected round the clock with the integrated Check Point Quantum IoT Nano agent that provides an advanced threat prevention layer against the common attack vectors at runtime. With its outstanding performance, reliability, and affordable price, the DH-380IPSN-28 camera is the perfect solution for any simple IP installation.











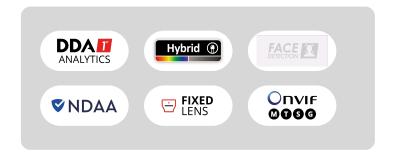












MAIN FEATURES

- DH-380IPSN-28 8MP Fixed Lens Dome/Turret Camera with Hybrid LED and DDA1 Analytics
- Sensor: 1/2.8" CMOS (16:9)
- Resolution: 3840×2160 20FPS (8MP)
- Lens: 2.8mm (103°) ICR + 24/7 Full-Color Day Mode
- Illumination: 20m (1 High-Power IR LED) 20m (1 High-Power White LED)
- Compression: H.265+/ H.264+ / H.265 / H.264 / MJPEG
- Quantum IoT Nano agent by Check Point™
- General Analytics: Item Monitoring, Camera Tampering

- Al (Object Recognition): DDA Sterile Area, DDA Line Crossing
- True WDR (120dB), BLC, HLC, ROI
- SD Card: Event/Schedule Record (Up to 256GB)
- Built-in Microphone + Audio input
- ONVIF: Profile M/T/S/G
- Water Proof: IP67
- Weight: ~550g
- Power: DC12V/~600mA / PoE/~9W



https://provision-isr.com



SPECIFICATIONS

3rd Party Cyber Protection		
General	Quantum IoT Nano agent by Check Point™	
Protection Methods	Shell injection protection, File Monitor, Import-Table Protection, Dynamic- Memory Protection	
NDAA Compliant		
NDAA Compliant	Yes	
Video		
Image Sensor	1/2.8" CMOS (16:9)	
Effective Pixels	3840x2160	
Electronic Shutter	1/3s ~ 1/100000s	
Day & Night	ICR + 24/7 Full-Color Day Mode	
Min. Illumination	Day: 0.02lux / Night: 0.02lux (@F1.6, AGC on) 0lux with IR on	
Audio		
Audio compression	G.711A/G.711U	
Communication	One-Way Audio	
Image		
Image Settings	AWB, AGC Adjustable, Exposure Mode (Auto) Sharpness, Saturation, Brightness & Contrast Adjustable	
Image Enhancement	True WDR (120dB), BLC, HLC, ROI	
Noise Reduction	3D-DNR	
Image Orientation	Mirror/Flip, Corridor Mode	
Privacy Zone	Yes	
Events and Analytics		
Analytics	General Analytics: Item Monitoring, Camera Tampering Al (Object Recognition): DDA Sterile Area, DDA Line Crossing	
Motion Detection	Yes	
Compression		

DH-380IPSN-28



Resolution	8MP (3840x2160) / 6MP (3200x1800) / 4MP (2688x1520) / 2MP (1920x1080) / 1MP (1280x720) / D1 (704x576) / VGA (640x480) / 480x240 /CIF (352x288)		
Frame Rate	1-20FPS		
Video Compression	H.265+/ H.264+ / H.265 / H.264 / MJPEG**		
Multi-Stream	Master Stream: 8MP (3840x2160) (1~20fps) / 6MP (3200x1800) / 4MP (2688x1520) / 2MP (1~30fps) Substream: 1MP/QVGA/360p/D1/CIF (1~30fps) Third Stream: 1MP/360p/D1/CIF (1~30fps)		
Bit Rate	64Kbps ~ 8Mbps@H.265 / 512Kbps ~ 12Mbps@H.264		
Encode Mode	VBR/CBR		
Image Quality	Five levels under VBR; Free adjustment under CBR		
Lens			
Lens (Field of View)	2.8mm (103°)		
Iris	Fixed Iris		
Lens Mount	M12 Mount		
Detect	88m(288ft)		
Recognize	17m(56ft)		
Identify	8m(27ft)		
Network			
User Access	Supports simultaneous monitoring of up to 10 users with multi-stream real-time transmission		
Network Protocol	IPv4, IPv6, TCP, UDP, DHCP, NTP, DDNS, SNMP, 802.1X, RTSP, RTMP, UPnP, Email, FTP, FTPS, HTTP POST, HTTPS, QoS, Auto Report, P2P		

User Access	Supports simultaneous monitoring of up to 10 users with multi-stream real-time transmission	
Network Protocol	IPv4, IPv6, TCP, UDP, DHCP, NTP, DDNS, SNMP, 802.1X, RTSP, RTMP, UPnP, Email, FTP, FTPS, HTTP POST, HTTPS, QoS, Auto Report, P2P	
Remote Monitoring	DE Monitoring IE Browsing, VMS Software, Provision Cam2 Mobile App	
Ethernet	100Mbps	
ONVIF	Profile M/T/S/G	

Connectivity	
Network	RJ45 (+PoE)
Audio Connectivity	Built-in Microphone + Audio input

DH-380IPSN-28

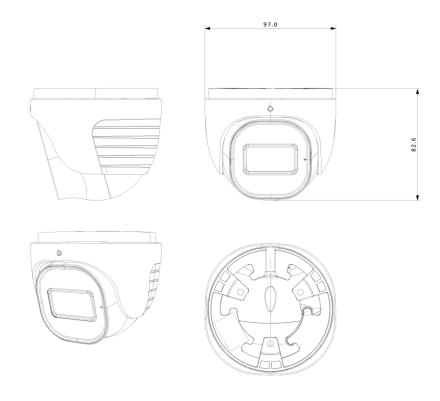


Alarm	No
SD Card	Event/Schedule based Main/Substream recording (Up to 256GB)
Wiegand	N/A
Power	DC Socket
Analog Video Output	No

Housing	
РоЕ	Yes
Illumination	20m (1 High-Power IR LED) 20m (1 High-Power White LED)
Power Supply	DC12V/~600mA / PoE/~9W
Protection Rate	Water Proof: IP67
Work Environment	-30°C~60°C, 10%~90% Humidity
Bracket	3-Axis Bracket
Dimensions	Ø97mm×82.6mm
Weight (gross)	~550g
Hard Reset Button	Yes

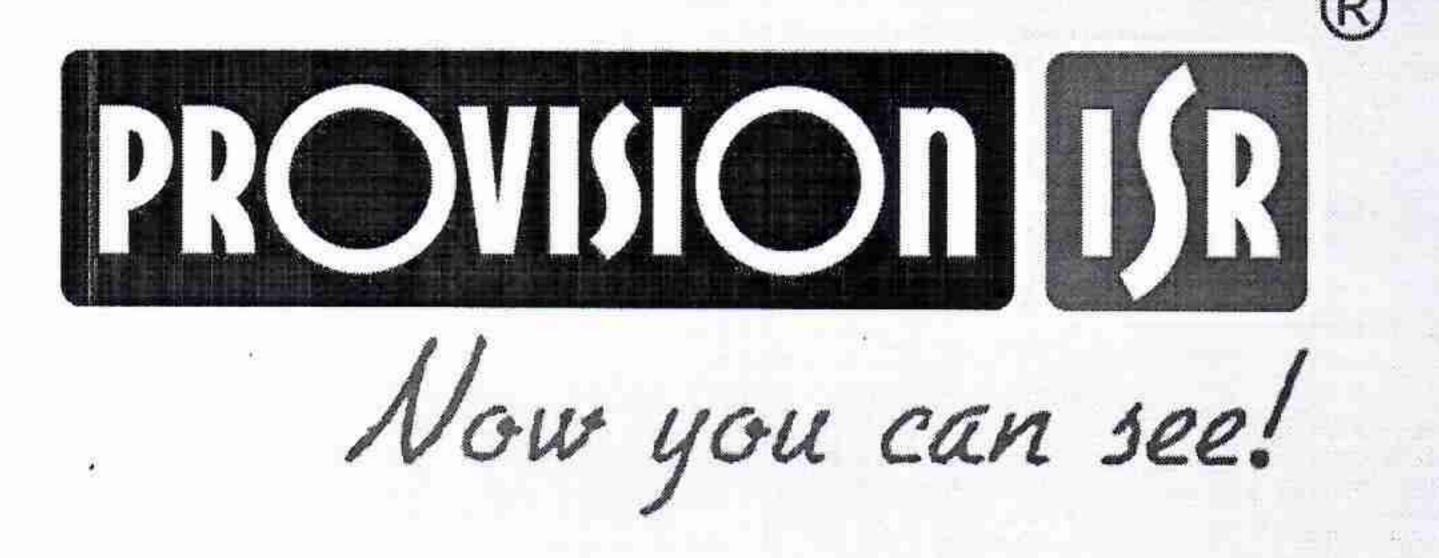


DIMENSIONS



ACCESSORIES





Hereby appoints

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For and on behalf of PROVISION SERVICED

Ari Pick, President PROVISION-ISR LTD

Authorized Signature(s)



USER MANUAL

PD 6500*i* MODEL 11684xx

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Email: international@garrett.com

Website: www.garrett.com

MANUFACTURER CAUTION

Read Thoroughly Before Operating



CAUTION! Use of this equipment in a manner not specified by the manufacturer may result in damage to property or injury to persons.

Electrical: $100 - 240 \text{ V} \sim +10\% - -15\%$

1.0 - 0.5A 50/60 Hz

Installation Category: II Pollution Degree: 2

Maximum Relative Humidity: 95% non-condensing

Operating Temperature: -4°F (-20°C) to +158°F (70°C)

Maximum Altitude: 3000 meters



CAUTION! PD 6500*i* must be firmly anchored to the floor or optional adhesive floor mounts attached to reduce the risk of injury to persons or property damage due to accidental knock down.



Warning! Battery Safety: The optional Battery Backup Module and the CMA Interface module contain rechargeable batteries that may contain small amounts of harmful substances.

- Caution: Do not short circuit. Serious burns may result.
- Caution: Do not dispose of batteries in a fire. They may explode.
- Caution: Do not open or mutilate batteries. They may contain an electrolyte which is toxic and harmful to the skin and eyes.
- Caution: Replace batteries with the same type and number of batteries as originally installed in the equipment.



- Caution: Do not put the batteries in trash that is disposed of in landfills. When disposing of the battery, comply with local ordinances or regulations and your company's safety standards.
- Recycling centers and retailers with recycling programs may be found at www.rbrc.org.

SYMBOLS:



Alternating current



Protective conductor terminal



CAUTION! Risk of electric shock



CAUTION! Refer to accompanying documentation



Recycle

Garrett Metal Detectors and garrett.com are trademarks and registered trademarks of Garrett Electronics, Inc. If further assistance is required, please contact the factory using contact information on front cover.

MEDICAL SAFETY

Garrett Metal Detectors makes every effort to ensure its products are safe for use. Extensive research by Garrett has produced no information which would indicate that its products have any adverse effects on medical implants, pregnancy, recording media or magnetic strips. Garrett makes every effort to cooperate with medical device manufacturers and to communicate with agencies such as the United States Food and Drug Administration and Health Canada as a means of assuring product safety. The electromagnetic fields produced by Garrett products are similar to those encountered in the daily environment and meet U.S. and International standards for electromagnetic emissions.

Garrett recognizes that certain medical devices may have additional requirements which may require special care. Any recommendations or directives issued by personal physicians or medical device manufacturers should be followed. If, for any reason, (e.g. doctors orders, etc.), a patron objects to being scanned with a metal detector, it is recommended that alternative procedures be used.

The following should be considered when developing a security checkpoint screening plan.

- Traffic Flow Traffic flow should remain consistent and encourage unrestricted traffic flow as a means of minimizing the time a person remains within the archway of a walkthrough metal detector.
- Alternative Screening Alternative screening methods such as scanning with a handheld metal detector, hand searching or denial of access should be clearly defined in checkpoint screening procedures as approved alternatives to screening with the walkthrough metal detector.
- Personnel Training Security screening personnel should be instructed in the care of persons with special medical needs and use of alternative screening methods that meet the requirements of medical practitioners or medical device manufacturers.

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1. GENERAL DESCRIPTION OF PD 6500i

Basic Description

The Garrett PD 6500*i* (Model #11684xx) is a digitally controlled pulse induction metal detector.

Memory

All program selections and settings are maintained in electrically erasable non-volatile memory. The unit will maintain all settings even when disconnected from power. No battery is required for memory retention.

Unique Target Pinpointing

The Garrett PD 6500*i* is an advanced Digital Signal Processor (DSP)-based walk-through metal detector that provides superior target detection with excellent metal discrimination capabilities. Multiple targets are pinpointed on the left, center or right side of the body from head to toe within 33 distinct areas using a unique array of Light Emitting Diodes (LED's) located on the exit side of each panel. Independent zone by zone calibration capability insures optimal archway field uniformity, regardless of installation challenges.

Improved Sensitivity

An improved multi-coil design allows programming for the detection of the smallest of metallic targets regardless of shape and orientation.

Traffic Flow

Pacing lights with international "wait" (\P) and "proceed" (\ref{N}) symbols are located on the entrance side of each panel and allow smooth and efficient traffic flow. The PD 6500i traffic counter tracks the number of patrons that have passed through the detector, the number of alarms and calculates the alarm percentage.

Security

All settings are secured with a key lock and 3 levels of user access. Further security is accomplished with a cabinet lock which prevents unauthorized access to cables, connectors and circuit boards.

Controls/ Displays

The PD 6500*i* utilizes backlit Liquid Crystal Displays (LCD's) and LED bar graphs for continuous on-line operating status and self-diagnostic reporting. All controls and settings are simplified with menu selections and touchpad controls.

Optional Accessories

Optional accessories include a Battery Back-Up Module for emergency or remote use, Desktop Remote Control, a wheel assembly for easy portability, adhesive floor mounts and a computerized Control Monitor Analyzer (CMA) interface module. CMA software provides network capabilities for remote access to data collection, alarm statistics and real-time "detector events" for monitoring and / or analyzing.

Note: This revised manual describes several new features which are available with software versions 2.23–1.37 or greater.

1.1 TECHNICAL SPECIFICATIONS

1.1.1 DIMENSIONS

Passage Interior: Width: 30" (0.76m) Height: 80" (2m) Depth: 23" (0.58m)
 Overall Exterior: Width: 35" (0.9m) Height: 87" (2.2m) Depth: 23" (0.58m)

• Shipping: Width: 35.5" (0.9m) Height: 92" (2.3m) Depth: 6.5" (0.17m)

• Shipping Weight: 165 lbs (74 kg)

1.1.2 OPERATING CONDITIONS

Temperature: -4°F (-20°C) to +158°F (70°C) Humidity: Up to 95% non-condensing.

1.2 REGULATORY INFORMATION

The PD 6500i meets or exceeds industry safety and electromagnetic compatibility (EMC) standards and conforms to international directives (CE approved).

The PD 6500*i* is made of scratch and mar resistant laminate with resilient end caps, a control panel and heavy-duty aluminum crosspiece. A smooth, rounded corner design ensures no puncturing, cutting or tearing of the skin or clothing or otherwise causing bodily injury. A key lock panel protects critical circuitry, wires, cables, data cables and power connectors to prevent tampering or injury.

1.2.1 ELECTRICAL SAFETY

The Garrett PD 6500*i* has been tested and found to comply with:

- Canadian Standard CAN / CSA-C22.2 No. 1010.1 and CAN / CSA- C22.2 No. 1010.1B-97 Safety Requirements for Measurement, Control and Laboratory Use, Part 1: General Requirements.
- United States Standard UL 3101-1 1993 Electrical Equipment for Laboratory Use, Part 1: General Requirements.
- International Standard (CB Certification) IEC 61010-1 Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use, Part 1: General Requirements.
- OSHA Regulation 1910.147 De-energizing Equipment.

1.2.2 MAGNETIC FIELD SAFETY

The Garrett PD 6500*i* has been tested and found to comply with:

- AICGH-0302 (1996), Sub-Radio Frequency (30 kHz and below) Magnetic Fields.
- Institute of Electrical and Electronic Engineers (IEEE) C95.1-1999, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz."
- International Commission for Non-lonizing Radiation Protection (ICNIRP), "Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic and Electromagnetic Field (Up to 300 GHz)."
- NBS Special Publication 500-101, "Care and Handling of Computer Magnetic Storage Media."

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- Canada Health and Welfare: Performance Standards (Walk-Through), RPB-SC-18 section 3.2.2 which addresses the issue of electromagnetic effects to cardiac pacemakers.
- Occupational and Safety Health Administration: Radiation Protection Guide, CFR 1910.97 section (2) i.
- National Institute of Law Enforcement and Criminal Justice: Standards for Walk-Through Metal Detectors for use in Weapons Detecting NILECJ-STD-0601.00 Section 4.11.
- OSHA Regulation 1910.47 (a) (2) (i) Non-Ionizing Radiation.

1.2.3 ELECTROMAGNETIC COMPATIBILITY

The Garrett PD 6500i has been tested and found to comply with:

- FCC 47 CFR, Part 15, Subpart B: 1998, Class A for Power Line Conducted Emissions.
- FCC 47 CFR, Part 15, Subpart B: 1998, Class A for Radiated Emissions.
- EN 55022: 1998, Radiated Emissions for Class A Information Technology Equipment.
- EN 55024: 1998, for Immunity.

1.2.4 PHYSICAL

The Garrett PD 6500*i* has been tested and found to comply with:

- IEC 68-2-27, 29 for Shock and Bump.
- ASTM F1468-95 Section 5.4 Tip Over (requires anchoring).
- IEC 529 IP55 for protection from water and foreign objects.

1.2.5 PRODUCT PERFORMANCE

The Garrett PD 6500*i* has been tested and found to comply with:

- United States Transportation Security Administration (TSA) Enhanced Metal Detector (EMD).
- French Service Technique de l'Aviation Civile (STAC).
- European Civil Aviation Conference (ECAC) Standards 1 and 2.
- United States Marshal Service.
- United Kingdom Department for Transport (DFT).
- Federal Aviation Administration (FAA) three-gun test.
- National Institute of Law Enforcement and Criminal Justice Standards #0601.00, levels 1-5.

1.3 DESCRIPTION OF CONTROLS, DISPLAYS AND ALARMS 1.3.1 DESCRIPTION OF VISUAL CONTROLS AND DISPLAYS

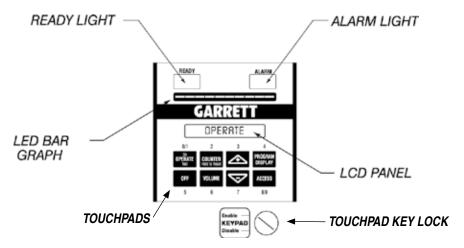


Figure 1-1

1.3.1.1 BAR GRAPH

The LED bar graph is comprised of a series of lights. The bar graph light activity represents the level of metal detection intensity occurring within the archway. The detection intensity is dependent upon the quantity and composition of the metallic object(s), and the program and sensitivity settings of the unit.

The bar graph also indicates the presence of electrical interference and interference from nearby moving metallic objects.

1.3.1.2 READY LIGHT

The green READY light appears when power is on and the PD 6500*i* is ready to detect metal. The ready light must be illuminated before a patron is permitted to enter the walk-through. A rapidly blinking ready light is an indication that AC power has been disconnected and the unit is operating on the optional battery backup system.

1.3.1.3 BACKLIT LCD

The LCD is a visual display located in the overhead panel. The LCD reports calibration and operational information, including program and sensitivity settings, operator functions and fault indication. The LCD displays all self-prompting regulation and control functions as well as traffic count information.

1.3.1.4 ALARM LIGHT

The red ALARM light is a visual indication of an alarm when the unit detects a targeted amount of metal within the walk-through according to the program and base sensitivity settings. When a target is detected the alarm light appears even if audio volume is off.

1.3.1.5 TOUCHPAD KEY LOCK

Disables touchpad to prevent tampering.

1.3.1.6 TOUCHPADS

Use to turn unit on, access and adjust setup and programming. Function of touchpad depends upon key lock and user access level.

1.3.1.6.1 *OPERATE (ON / TEST)*

The OPERATE touchpad is used to turn the PD 6500*i* on. The unit will be ready to operate within ten seconds. Activate the manual self-test at any time by pressing OPERATE.

1.3.1.6.2 OFF

The OFF touchpad is used to turn the PD 6500i off, ensuring that all of the information and settings are stored in memory until the detector is ready to resume full operation.

1.3.1.6.3 COUNTER

The COUNTER touchpad is used to obtain an automatic update on the traffic count that appears on the LCD. The counter also reports alarm statistics such as alarm count and alarm count %. If operator access is enabled, the counter may be reset by pressing the COUNTER touchpad for approximately ten seconds.

1.3.1.6.4 VOLUME

The VOLUME touchpad is used to access the volume control of the audio alarm.

1.3.1.6.5 (+) and (-)

The plus (+) and minus (–) touchpads are used to change numerical settings, activate certain on/off functions and adjust the volume of the audio alarm.

1.3.1.6.6 PROGRAM

The PROGRAM touchpad enables the user to view the current program and base sensitivity settings on the LCD.

1.3.1.6.7 ACCESS

The ACCESS touchpad is used to initiate the log-in process and to scroll through menu items.

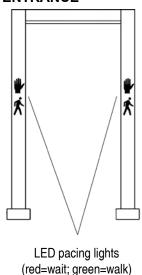
1.3.1.7 PACING LIGHTS

Pacing lights located on side panels of the entrance side indicate whether or not a patron may enter the walk-through. The green "proceed" () symbol indicates the unit is ready for a patron, while the red "wait" () symbol indicates the patron should wait. (See Figure 1-2.)

1.3.1.8 PINPOINT LIGHTS

Pinpoint lights are located on the exit side of each panel and provide location information using 11 vertical and 3 horizontal positions for a total of 33 pinpoint areas. These lights help the operator to identify the precise location of a metal object within the walk-through, whether it is on the left, right or in the center of the body, from head to toe. (See Figure 1-3.)

ENTRANCE



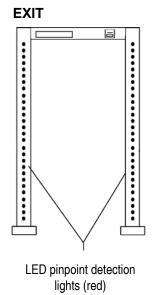


Figure 1-2

Figure 1-3

1.3.2 DESCRIPTION OF AUDIO RESPONSES

1.3.2.1 TARGET ALARMS

The steady, single pitch audio alarm indicates that a target has been identified according to the program and sensitivity settings.

1.3.2.2 WARBLE ALARM

A quickly alternating two-tone alarm occurs when a very large metal object, such as a wheel-chair, piece of furniture or metal container, moves through or near the PD 6500*i* and overloads the detector's circuits. The warble sound prompts the operator to correct the situation before allowing anyone to pass through the metal detector.

1.3.2.3 TAMPER ALARM

When the ACCESS touchpad is pressed, the detector beeps for about ten seconds until a valid user is selected and a numeric access code is entered. If a person or object passes through the archway during this time, a loud low-toned alarm will activate. If an invalid code is entered, the message: ACCESS DENIED appears on the LCD, and an audible tamper alarm momentarily sounds and normal operation resumes.

2. INSTALLATION

2.1 SITE SELECTION & REQUIREMENTS

Before choosing a site for the PD 6500*i* Walk-Through Metal Detector, it is important to consider the volume and throughput requirements of patron traffic, space availability and overall environmental conditions. The PD 6500*i* must always be installed on a level, stable floor. The following site requirements are provided as a guide to successful installation.

Garrett Metal Detectors has years of experience designing, installing and operating security screening checkpoints. Garrett's experience ranges from very small—one and two detector checkpoints—to very large, 900-detector Olympic operations. Garrett always prefers to work closely with its clients when designing checkpoints. Every client has a unique situation and needs a somewhat customized solution. Garrett is happy to assist in designing and implementing these solutions. This section is intended to provide general in formation for designing security screening checkpoints.

2.1.1 ELECTRICAL POWER

Electricity is a critical element for successful, trouble-free installations. Garrett metal detectors require 100-240 Volt, 50/60 Hertz power, and draw less than 2 amperes each. Consequently, "power load" is minimal for any group of detectors.

Due to their pulse induction technology, it is required that all PD 6500*i* units within 25' to 100' of each other be connected to the same phase of the AC power source; otherwise, a Master / Slave configuration must be used. (See Section 2.3.)

Connecting to a single power source can be easily accomplished using extension power cords connected to the same outlet if existing power does not, or cannot, meet this requirement. An optional 10' power cord jumper is available to simplify this connection. (See Section 8.2.)

Garrett metal detectors are very versatile and can be connected to power from either the top or bottom of either side. This makes connecting power very convenient and gives users more options when designing their sites. When "running" power along the ground it is recommended that cords be secured to the ground using highly visible industrial tape or cable trays. This ensures that the cord is visible to patron traffic and prevents personal injury as well as equipment damage. When "running" power overhead it is recommended that power cords be suspended above the detector. This keeps the cord accessible for maintenance, but out of reach of regular traffic.

2.1.2 PHYSICAL SITE

Appropriate selection and preparation of a site is paramount for successful, efficient and effective checkpoint screening operations. The site must be flat, level and free from obstructions. The surface must be solid and free from any vibration or movement. Most indoor surfaces are already adequate. Outdoor surfaces should be asphalt or concrete; wooden or metal platforms can NOT be used. The site should be free from running or standing water and should provide protection from weather elements. An industrial, four-walled tent is the best way to provide shelter from the weather elements when outdoors. The tent must be strong enough to repel rain, snow, sleet and a fair amount of wind.

2.1.3 CHECKPOINT CONFIGURATION

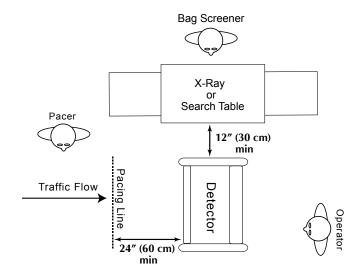
A site must also allow for efficient spacing and configuration of metal detectors. If a site is too small the operation of the checkpoint becomes "choked" and "bottlenecks" form. This severely hampers the flow of "traffic" through a checkpoint and can be troublesome when trying to operate within time constraints. If a site is too big it becomes difficult to oversee the checkpoint, and valuable space is wasted. As a general rule a rectangular block of space,

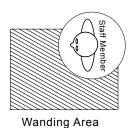
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8' wide and at least 10' deep, should be reserved for every checkpoint lane. There are many ways to arrange detectors at a checkpoint. Garrett has found the following configurations to work best. Please refer to the following illustrations.

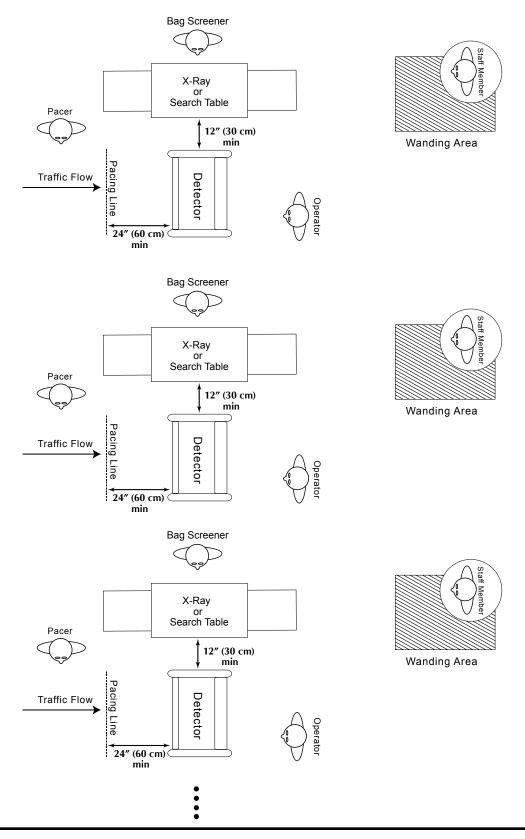
See Section 2.3 for additional equipment spacing requirements and set-up information.

SUGGESTED SINGLE LANE CONFIGURATION

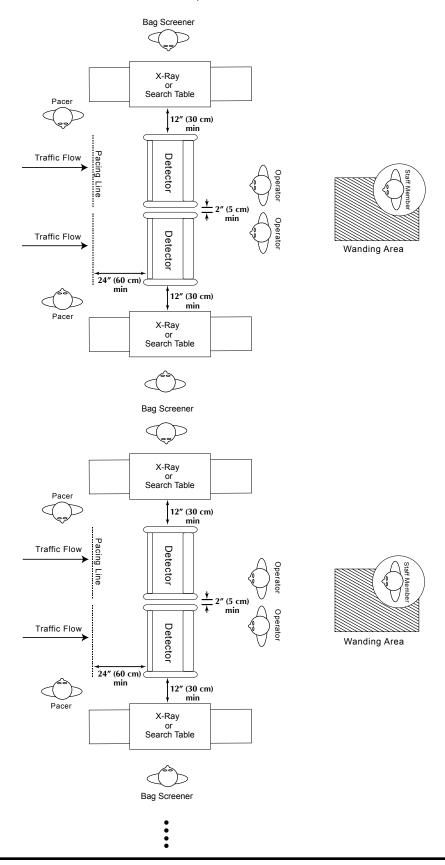




SUGGESTED MULTI-LANE CONFIGURATION-A



SUGGESTED MULTI-LANE, BACK-TO-BACK CONFIGURATION-B



2.1.4 INTERFERENCE

Many variables can potentially cause interference with any metal detector operation. However, there are some major variables which may be identified and addressed during site selection. Electrical sources of interference including generators, transformers, electrical panels, etc., should be kept as far away as possible. Large moving or stationary metallic objects such as revolving doors, elevators, garbage cans, barricades, etc., should be kept as far away as possible. Search tables and personnel should be placed a minimum of 6" from the detector. X-ray machines and other complementary screening equipment should be placed a minimum distance of 12" from the detector.

See section 6.1 for information about identifying and resolving sources of interference.

2.2 UNIT ASSEMBLY

Assemble the unit and position at the checkpoint location, connect to power, set desired program / operating procedures, check for interference and perform necessary tests.

2.2.1 ASSEMBLY

The enclosed instructional video provides detailed assembly instructions.

- **1.** Verify that the following contents are included:
- Panel "A"
- · Panel "B"
- Detection Unit (Head)
- Crosspiece (Support Brace)
- 2' AC Jumper Cord
- 10' Power Cord
- Eight 1/4-20x3" Screws
- Eight Finishing Washers

Accessories:

- User Manual
- Instruction DVD
- Pocket Item Container (Coin Tray)
- Stabilizing Plates (Optional)
- **2.** Arrange the major components as shown in Figure 2–1.

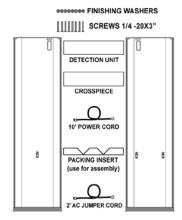


Figure 2-1

3. Place the packing insert on floor as shown in Figure 2–2. Lay detection unit (with touchpad panel facing down) on packing insert. Connect detection unit to panels A and B using four screws and finishing washers. Do not tighten!

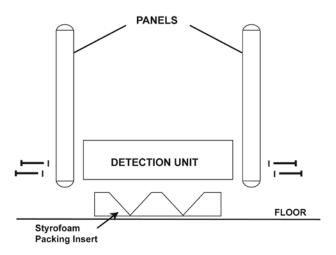


Figure 2-2

4. Connect Panel Cables

Open the door of the detection unit. Connect cables A and B into the corresponding panels. (See Figure 2–3.)

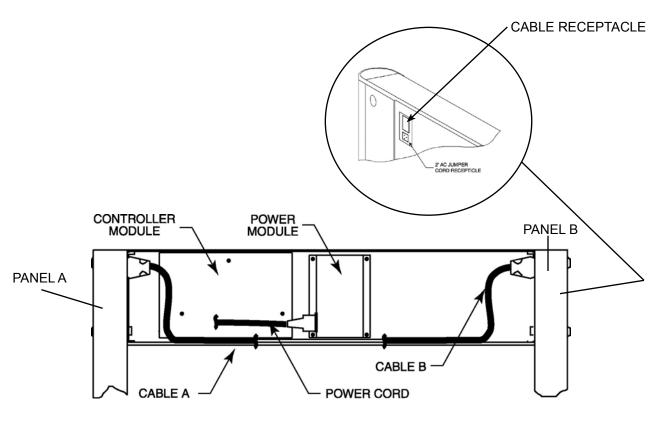


Figure 2-3

5. Determine the location of the AC power outlet and select a power connection means. If power is to be supplied from an overhead source, remove the rubber access plug in the top of the detection unit, feed the power cord (or the 2' AC jumper cord if required) into the detection unit and plug directly into the power module.

If power is to be supplied at floor level, determine the panel that is nearest the power outlet. Within the Detection Unit, plug in the 2' AC jumper cord from the selected panel to the power module. Retrieve the power cable at the bottom of the entrance side of the selected panel through the 1½ inch diameter opening in the bottom of the boot. Slip the power cord into the clamp, as shown in Figure 2-4, to prevent pinching and abrasion when the unit is set upright. Secure the connection with electrical tape or other means if required.

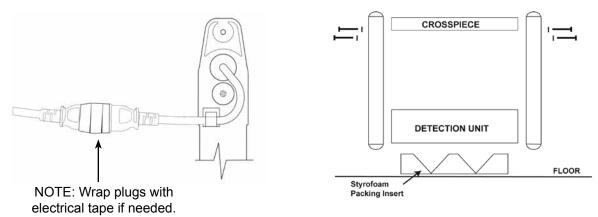


Figure 2-4 Figure 2-5

- **6.** Use the four remaining screws and washers to attach the crosspiece to the two panels. (See Figure 2–5.)
- **7.** If optional adhesive floor mounts are to be used, attach the mounting plates to side panels. Do not remove adhesive protectors at this time. Follow instructions provided in the mounting kit.
- **8.** Use two or more people to lift the PD 6500i to a vertical position and move to desired location. (See Figure 2–6, below.)







- **9.** Ensure the PD 6500*i* is physically stable and does not sit on top of power cord.
- 10. Tighten all screws with a screwdriver.

2.2.2 POWER CORD WIRING DESCRIPTION

The PD 6500*i* (Model 11684xx) includes a standard American ground power cord. To replace or remove plug, or to hard wire to an AC junction box, use:

Green To Ground
Black To line Hot
White To line Neutral

The PD 6500*i* (Model 1168420) (INTERNATIONAL) includes a European power cord. To replace or remove plug, or to hard wire to an AC junction box, use:

Green/Yellow To Ground
Brown To line Hot
Blue To line Neutral

2.3 MULTIPLE WALK-THROUGH SITE INSTALLATION

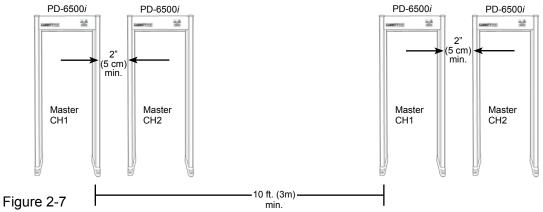
For multiple walk-through metal detector (WTMD) operation (units within 25' to 100' of each other depending on sensitivity setting), certain power requirements and installation adjustments are necessary to avoid crosstalk (interference) among units.

There are several ways to successfully install multiple walk-throughs in close proximity with no crosstalk. The following examples are aimed to help the installer determine an appropriate method for eliminating crosstalk.

2.3.1 CASE 1

Description:

- All detectors are PD 6500is. (See Figure 2–7.)
- All detectors are connected to the same AC-Line Phase.



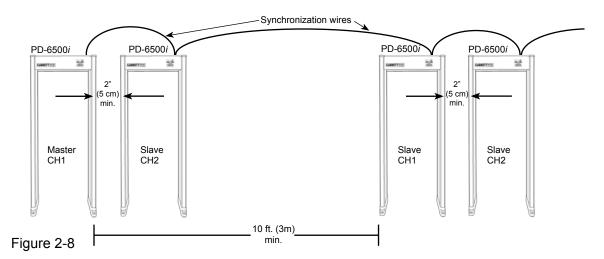
Procedure:

- 1. Set all PD 6500*i*s synchronization to Sync: MASTER.
- 2. Set end unit to CHANNEL 1.
- 3. Set next unit to CHANNEL 2.
- **4.** Set next unit to CHANNEL 1.
- **5.** Repeat alternating pattern for channels 1 and 2 for any additional PD 6500*i*s.

2.3.2 CASE 2

Description:

- All detectors are PD 6500is. (See Figure 2–8.)
- Detectors are connected to different AC-Line Phases or operating from battery back-up.



Procedure:

- 1. Switch units off and disconnect PD 6500is from power line.
- 2. Open access door of detection unit.
- 3. Remove the three screws that hold controller cover. (See Figure 2-9.)
- **4.** Use synchronization wire (18 to 24-gauge, 2 conductor) between units; connect to pins 1 and 2 as shown in Figure 2-10 and on inside of controller cover. Connector block is a plug in and may be removed to facilitate connection of the wires.
- **5.** With the exception of the end units, the SH1 jumper, located on the controller board assembly must be removed. (See Figure 2-10.)
- 6. Replace cover and reconnect power.
- **7.** Set the end unit (i.e., first or last in a series of PD 6500*i*s) synchronization to MASTER CHANNEL 1 and make sure it is always connected to either AC power or battery power.

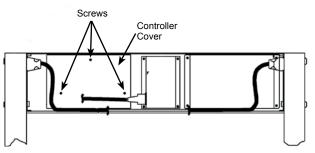
MASTER

CHANNEL 1

Remove SH1

Jumper

- **8.** Set all other units synchronize to SLAVE.
- 9. Set the remaining units alternately to CHANNEL 2 and CHANNEL 1 as shown.
- **10.** Repeat alternating pattern of channels 1 and 2 for any additional PD 6500*i*s.





SH₁

SLAVE

CHANNEL 1

SLAVE

CHANNEL 2

2.3.3 CASE 3

Description:

• A combination of PD 6500is and other Garrett walk-through metal detectors.

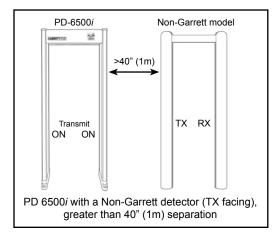
Procedure:

• This procedure is the same as Case 1 or Case 2 above. The only difference is that with other Garrett models, you may need to use Channel "A" and Channel "B" rather than Channel "1" and Channel "2".

2.3.4 CASE 4

Description:

- PD 6500*i* walk-through in use with **non-Garrett walk-through metal detectors**. (See Figure 2-11.)
- **Note:** If possible, exchange detectors from other checkpoints so that there is only one brand of detector at each checkpoint. If the PD 6500*i* must operate with another brand of walk-through metal detector, the following procedure will help ensure successful operation.
- **Note:** At distances between 20 and 40 inches (0.5 to 1 m) it may or may not be necessary to switch off a transmitter panel of the PD 6500*i*. Leave both transmitters on unless interference is observed after adjusting M Filter and Frequency. Adjustments should be made after the detectors are set to the desired detection sensitivities. See Section 3.5.36 for more detail.



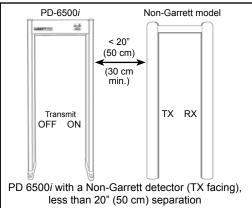
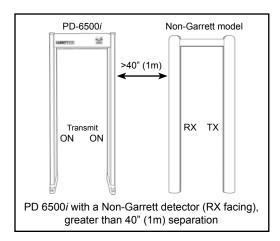
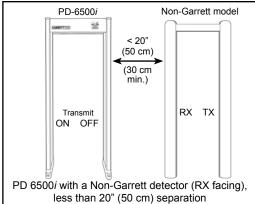


Figure 2-11





Procedure:

- **1.** Whenever possible, attempt to separate the PD 6500*i* from non-Garrett walk-through metal detectors as much as possible. Doing so will significantly reduce interference between differing brands of detectors.
- 2. Switch M Filter OFF and Line Sync OFF. (See Section 3.5.33 and 3.5.35.)
- **3.** Select the appropriate transmit configuration based on the four diagrams shown in Figure 2–11. (See Section 3.5.36.)
- 4. Determine guietest Frequency. (See Section 3.5.34.)

2.4 STABILIZING

The PD 6500i may be bolted to the floor using the holes in the unit's boot or adhesive floor mounting plates are available for securing the PD 6500i to the floor without drilling.

Stabilizing the unit is particularly important in locations where the floor slopes or tilts, disorderly crowds, high winds, etc., are possible. It is recommended that the unit be tested for functionality and interference prior to permanent mounting.

2.5 INSTALLATION COMPLETION

Complete the installation of the PD 6500*i* by:

- 1. Connecting the unit to a power source
- 2. Selecting the operating setting
- 3. Establishing the required program and settings
- **4.** Checking for interference and verifying proper operation

3. CONTROLS AND ADJUSTMENTS

There are three access levels of security clearance for the PD 6500i.

1. Operator Level: The Operator can view the Program, Base Sensitivity, Patron Count, Alarm Count, Alarm %, Random Alarm % and Sequence settings as well as alter Volume settings and reset the Counter without a User Code. See Monitor Functions (*Table 3-1*). At any time the Administrator can deny the Operator access to these Monitor Functions.

Press the PROGRAM touchpad to view Program and Base Sensitivity. Press the COUNTER touchpad to view Patron Count, Alarm Count, Alarm % and Random Alarm %. Press and hold the COUNTER touchpad to reset the Counter to zero (0). Press the VOLUME touchpad to view the volume setting; then press the + / - touchpad to increase or decrease the volume setting.

- **2. Supervisor Level:** The Supervisor requires a user code and may require a key to view and adjust authorized functions. (See Table 3-1 and Section 3.5 for more information.)
- **3. Administrator Level:** The Administrator requires a user code and may require a key to view and adjust authorized functions. (See Table 3-1 and Section 3.5 for more information.)

3.1 MENU TABLE

Table (3-1) on page 23 lists access levels and menu functions.

TABLE 3-1

	Function	Operator	Supervisor	Administrator
	Default Access Code	Not Required	1234	5678
	Power	OFF / ON	OFF / ON	OFF / ON
	Self Test	View Only	View Only	View Only
Monitoring	Program Base Sensitivity Alarm Level	View Only View Only -	- - View / Reset	- - View / Reset
	Count Real Alarm Count Real Alarm % Random Alarm % Administrator Count Admin Real Alarm Count Admin Real Alarm % Reset Counters Sequence	View / Reset View / Reset View / Reset View Only Yes View Only	View / Reset View / Reset View / Reset View Only Yes View Only	0 - 50% View / Reset View / Reset View / Reset Yes View Only
	Operating Hours Rx Balance	-	View Only -	View Only View Only
Preferences	Volume Min Volume Tone Pacing Lights Zone Lights Alarm Time I / R Analysis Count Direction Language	Min. Volume -12 - - - - - - -	Min. Volume -12 - - - - - ON / OFF -	Min. Volume -12 0-12 1-9 ON / OFF OFF, 2, 3, 4 Sec 1, 2, 3, 4 Sec ON / OFF Fwd. Only, Rev. Only, Subtract Rev., Bidirectional Select
Programming	Synchronization Channel Program Base Sensitivity Zone 1 Boost Zone 2 Boost Zone 3 Boost Zone 4 Boost Zone 5 Boost Zone 6 Boost Relay Bar Graph Detection Speed M Filter Frequency Line Sync Transmit Configuration		- Select 1-200 - - - - - - - - - - - -	Master/Slave 1, 2, A, B Select 1-200 + / - 64% + / - 15% + / - 15% + / - 15% -63 - +192% -63 - +192% NO / NC Normal/Diagnostic Normal/Expanded ON / OFF 0 - 2300 ON / OFF ON/ON, ON/OFF, OFF/ON, OFF/OFF
Access Control	Operator Enable Alter Code 1 Alter Code 2	- - -	- - -	OFF / ON W-key / ON YES YES

3.2 POWER ON / OFF

When you press the OPERATE touchpad for the first time, the READY light appears and the LCD displays the message, GARRETT SECURITY. Press OPERATE again, and the unit will report critical settings and self-test results. The LCD displays the following information, in sequence:

LCD MESSAGE	DEFINITION
1. S/N #######	serial number
2. VER ###	software version
SYNC MASTER or SLAVE	synchronization
4. CHANNEL 1 or 2	channel selection
5. PROG: XXXXXXXX	program selection
6. BASE SENSE: ###	base sensitivity setting
7. SELF-TEST	self test in progress
8. BATT POWER XX%	strength of battery if in use
9. SELF TEST OK	self test reveals no problems
10. OPERATE	resume operate mode

3.3 SELF TEST

The self-test feature within the unit is in constant operation and will reveal "critical failures" instantaneously. Press the OPERATE/TEST button to display the self-test results on the LCD screen. Should the self-test reveal a problem, a "failure" message will appear (e.g., SYNC FAIL; Refer to Table 6.2 for a list of possible failures and remedies). If the unit is in 24 hour, 7-day a week operation, a manual self-test should be conducted at least once every 24 hour period to check for non-critical failures. The operator should inform the supervisor of any problems that appear on the LCD.

3.4 SUPERVISOR AND ADMINISTRATOR LEVEL ACCESS

To log in, the user must press the "ACCESS" touchpad. The unit will prompt the Supervisor or Administrator to enter their password.

3.5 DETECTOR SETTINGS

Once their access code has been entered, each user may scroll through the menu items assigned to their particular access level. Some menu items are available as "view only". The PD 6500*i* will not allow a user to change any of the "view only" items. To scroll forward through the menu items, use the ACCESS touchpad; to scroll in the reverse order, press the PROGRAM touchpad. Press OPERATE to exit and return to normal operation.

3.5.1 **VOLUME**

VOLUME shows the current volume setting. The user may use the + / – touchpads to increase or decrease the alarm volume. Note: the minimum volume that can be selected is controlled by the Administrator using the MINIMUM VOLUME setting.

3.5.2 MINIMUM VOLUME

This is an Administrator setting that specifies the minimum volume that can be selected.

3.5.3 COUNTER

Abuilt-in and user resetable traffic counter records the number of patrons who pass through the walk-through. To reset the counter to zero, refer to section 3.5.10. The Counter will roll over to 0 after 999.999.

3.5.4 REAL ALARMS COUNT

This is a "view only" menu item that displays the number of alarms that have occurred. **Note:** The Real Alarms count does not include alarms produced by the Random Alarm feature. The Real Alarms count automatically resets to zero when the count is reset or rolls over.

3.5.5 **REAL ALARM %**

This is a "view only" menu item that displays the percentage of real alarms divided by patron counts. The Real Alarm % automatically resets to zero when the count is reset or rolls over.

3.5.6 RANDOM ALARM %

This feature provides the ability to randomly alarm on a selected percentage of non-alarming persons. The Random Alarm rate is adjustable from 0 to 50% using the + or – touchpads. If set to 10%, for example, the detector will automatically alarm on 10% of the

PD 6500i USER MANUAL

persons which would otherwise not have alarmed. Random alarms are indicated by a pulsed alarm audio and zone lights sequencing from top to bottom. The interval of these Random Alarms is randomly distributed among the non-alarming persons. Note: Random Alarms are not included in the Real Alarms count or Real Alarm %.

For Supervisor ACCESS level, this is a "view only" menu item that displays the current Random Alarm Setting.

3.5.7 ADMINISTRATOR COUNT

ADMIN COUNT is a traffic counter that can be viewed and reset only by the administrator. The Admin Count will roll over to 0 after 999,999.

3.5.8 ADMIN REAL ALARMS COUNT

AD RL ALARMS displays the number of alarms and can be viewed only by the administrator. The Admin Real Alarms Count automatically resets to zero when the Admin Count is reset or rolls over.

3.5.9 ADMININSTRATOR REAL ALARM %

ADMIN ALARM % displays the percentage of real alarms and can be viewed only by the administrator. The Admin Alarm % automatically resets to zero when the Admin Count is reset or rolls over.

3.5.10 RESET COUNTER

RESET COUNT allows the traffic and Alarm counts to be reset.

To reset counters to zero (0), press the + touchpad.

3.5.11 SEQUENCE

SEQUENCE indicates the number of times the system has been accessed via password. This is a "view only" menu item.

3.5.12 OPERATING HOURS

OP HOURS indicates the number of hours the unit has been in operation (i.e. switched on). This is a "View Only" menu item.

3.5.13 TONE

TONE, which indicates the current tone setting, appears on the LCD. The user may use the + / - touchpads to adjust the tone from 1 (bass) to 9 (treble).

3.5.14 PACING LIGHTS

Pacing lights located on the side panels of the entrance side indicate whether or not a patron may enter the walk-through. The green proceed symbol (*) indicates proceed and the red wait symbol (*) indicates wait.

PACE LIGHTS, shown either ON or OFF, appears on the LCD. The user may use the + (pacing lights on) / - (pacing lights off) touchpads to set pacing lights.

3.5.15 ZONE LIGHTS

The zone light duration may be adjusted to two, three, or four seconds, or turned off.

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The user may press the + / - touchpads to scroll through the options:

ZONE LIGHT: OFF ZONE LIGHT: 2 SEC ZONE LIGHT: 3 SEC ZONE LIGHT: 4 SEC.

3.5.16 ALARM TIME

Sets the duration for audible alarms for 1, 2, 3 or 4 seconds. The user may use the + / - touchpads to adjust the time between 1-SEC to 4-SEC in 1 second increments.

3.5.17 IR ANALYSIS

Infrared sensors have been designed to help prevent false alarms caused by nearby external moving metallic materials such as wheelchairs, elevators, persons possessing metal, etc., and when outdoors by wind causing the unit to rock and then alarm. When IR Analysis is on, the above circumstances will not cause the detector to audibly alarm when no one is passing through the unit. When IR Analysis is off, the unit may audibly alarm under these circumstances even when no one is passing through the unit. Although useful, the IR Analysis is not required for operation and may be disabled if desired.

IR ANALYSIS, shown either ON or OFF, will appear on LCD. Press the minus (–) touchpad to disable or (+) touchpad to activate.

3.5.18 COUNT DIRECTION

CNT DIR is used to select the way in which traffic flow will be counted.

FWD ONLY counts patrons passing in the normal forward direction only; passing in the reverse direction has no affect on count.

REV ONLY counts patrons passing in the reverse direction only and does not count patron passes made in the forward direction.

SUB REV counts patrons passing in the forward direction and subtracts from the count for patrons passing in the reverse direction.

BIDIRECT counts patrons passing in both directions.

3.5.19 LANGUAGE

LANGUAGE, which indicates the current language setting, appears on the LCD. If the user is authorized to change the language setting, the user may scroll through the language selections using the + / - touchpads. Choose from: English, Spanish, Turkish, German, Czech, French, Polish or Italian.

3.5.20 RX BALANCE

RX BAL refers to the balance level of the receiving antennas and is a "view only" item. Any number less than 50 is acceptable. A number greater than 50 will elicit the message, RX BAL #, and the pinpoint lights within the problem zone will illuminate. Should this occur, ensure that there is no large metal object adjacent to the PD 6500*i*. Then, ensure that the balance number has fallen below 50 and the corresponding pinpoint lights are off. (*Refer to section 6.2 for more help in resolving this issue if necessary.*)

3.5.21 SYNCHRONIZATION

Synchronization is factory preset to MASTER. (Refer to Section 2.3 for a more detailed explanation of synchronization.)

SYNC MASTER provides the PD 6500i with a self-generated synchronization from the power line.

SYNC SLAVE synchronizes the PD 6500i from a secondary signal on the sync terminal located on the left edge of the transmitter controller board. SYNC, which indicates MASTER or SLAVE, will appear on LCD. The user may use the + / - touchpads to change sync to MASTER or SLAVE.

3.5.22 **CHANNEL**

This feature enables multiple Garrett walk-through metal detectors to operate simultaneously in proximity. Use Channels 1 and 2 when two or more PD 6500*i*'s are operating near each other. (See Section 2.3.)

CHANNEL, shown with either 1 or 2, will appear on LCD. The user may use the + / - touchpads to change channel to 1 or 2.

Note: If Line Sync is set to OFF, Channel Adjustment is not available.

Note: When using any other Garrett walk-through metal detectors with PD 6500*i*s, use channels A and B to coincide with other Garrett walk-through channels A and B.

3.5.23 PROGRAM

PROG, which indicates the current program setting, will appear on the LCD. If the user is authorized to change the program, the user may scroll the menu of programs using the +/- touchpads to find the new program. Stop scrolling when the desired program appears on the LCD. (Refer to Table 4-2 for a listing and description of programs.)

3.5.24 BASE SENSITIVITY

At higher sensitivity settings, smaller metal objects are detected. Conversely, at lower sensitivity settings, only larger metal objects are detected. Keep in mind that the sensitivity should be set high enough so that the smallest forbidden object (depending on your security needs) can be detected.

BASE SENSE, shown with the current base sensitivity setting, will appear on the LCD. If user is authorized to change the base sensitivity, the user may select from 1-200 using the + / - touchpads. To determine proper sensitivity setting, follow ALARM LEVEL setting instructions in section 3.5.25. (See Section 3.5.26 for instructions on adjusting sensitivity of individual zones.)

SPECIAL NOTE

A final decision on program and base sensitivity settings is the sole responsibility of the end user and must be determined by keeping the purpose of the security application in mind.

3.5.25 ALARM LEVEL

Alarm level is a useful installation tool that helps you determine the lowest level of sensitivity required to activate an alarm for a particular metal object. This information can then be used to determine the desired level of sensitivity. Alarm Level is also very useful in evaluating interference and noise levels. Alarm level is a "view only" menu item and is a measurement or readout of the signal level present on the detector.

ALARM LEVEL, followed by the current alarm level reading, will appear on the LCD. The following are examples of the use of alarm level.

Using Alarm Level to determine required sensitivity:

- 1. Press the + (plus) touchpad to reset the reading. The reading should reset to greater than 190 (>200 is ideal); otherwise, interference is present.
- **2.** Ensure that you are metal free.
- **3.** Hold the selected test object at the center of your waist.
- **4.** Walk through the metal detector.
- **5.** Note the new alarm level reading.
- **6.** Change the test object's location and/or orientation.
- **7.** Repeat steps one through six several times with the target in various locations until you are satisfied that you've performed enough tests.
- **8.** Choose the highest reading produced by the test object.
- **9.** Return to the base sensitivity menu item and enter the alarm level reading that you chose in Step 8 as the base sensitivity.
- 10. Confirm the new base sensitivity setting is appropriate by testing the selected test object at varying locations and orientations within the walk-through (alarms should occur with each pass), particularly in critical locations and orientations where you suspect detection is most difficult.
- **11.** If alarms do not occur in the critical locations, preferably increase the zone boost for that location, or increase base sensitivity.

After choosing the base sensitivity, press ACCESS to make another adjustment or OPERATE to resume normal operation.

Using Alarm Level to evaluate interference:

- **1.** Ensure the detector is not moving and there is no movement of nearby metal or people.
- **2.** Gently press the + (plus) touchpad to reset the Alarm Level reading.
- **3.** Observe the Alarm Level reading for several seconds.
- **4.** Repeat steps 2 and 3 several times to determine the background interference level.
- 5. It is desired that the Alarm Level numbers remain very close to or greater than 200, indicating small levels of interference.
- **6.** If necessary, try switching off nearby equipment or moving the detector and repeating steps 2 and 3 in order to determine the source and/or location of interference.

3.5.26 **ZONE SENSITIVITY BOOST**

Individually adjusting the sensitivity of the detector's zones helps establish an optimal detection field. The PD 6500i contains a total of 33 zones: eleven zones from top to bottom and three zones from left to right. However, for the sake of simplicity in making individual zone adjustments, these 33 zones are consolidated into six adjustable areas from top to bottom. These six adjustable areas are displayed on the walk-through's LCD as Zones 1–6. The 33 zones and their corresponding zone lights are shown in Figure 3-2 on the next page.

Each adjustment is based on a percentage of the base sensitivity. The user may increase or decrease the percentage of the base sensitivity level in 1% increments by pressing the + (to increase) or - (to decrease) touchpads. An adjustment of zero percent means the sensitivity of that area is equal to the base sensitivity.

The zones lights on the detector will light up to indicate the area being adjusted.

The following are a few examples of adjustments for a base sensitivity setting of 150.

ZONE 1= 150+0% (Zone 1 is set to the base sensitivity)

ZONE 3= 150+15% (Zone 3 sensitivity is 15% greater than the base sensitivity)

ZONE 5= 150-15% (Zone 5 sensitivity is 15% less than the base sensitivity)

The adjustment ranges for the zones are as follows:

```
ZONE 1:
1.
                    -64% to + 64%
                                          (user adjustable)
2.
     ZONE 11/2:
                            (internally adjusted based on Zone 1 and Zone 2 settings)
3.
     ZONE 2:
                    -15% to + 15%
                                          (user adjustable)
4.
     ZONE 21/2:
                            (internally adjusted based on Zone 2 and Zone 3 settings)
5.
     ZONE 3:
                    -15% to + 15%
                                          (user adjustable)
```

- 6. ZONE 31/2: (internally adjusted based on Zone 3 and Zone 4 settings)
- 7. ZONE 4: -15% to + 15% (user adjustable)
- 8. ZONE 41/2: (internally adjusted based on Zone 4 and Zone 5 settings)
- 9. ZONE 5: -63% to + 192% (user adjustable)
- 10. ZONE 5½: (internally adjusted based on Zone 5 and Zone 6 settings)
- 11. ZONE 6: -63% to + 192% (user adjustable)

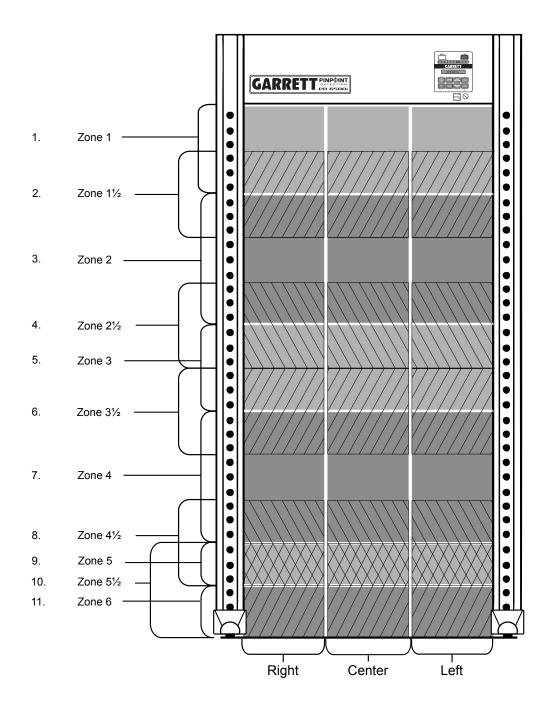


Figure 3-2: PD 6500*i* Zones

- There are 33 total detection zones: 11 from top to bottom (Zones 1, 1½, 2...6) each having 3 separate detection zones to indicate left, center or right side.
- The 11 detection zones from top to bottom are grouped into 6 adjustable areas (labeled as Zones 1-6) in order to simplify the adjustment process for the operator.
- The intermediate zones, such as Zone 1½, Zone 2½, etc. are automatically adjusted internally based on the adjustment settings of Zones 1-6.

3.5.27 RELAY

This feature enables the user to change the AC and DC relay circuits to "normally open" (RELAY N/O) or "normally closed" (RELAY N/C) depending on the installation requirements. RELAY, with either N/O or N/C, will appear on the LCD.

The user may use the + / - touchpads to change to N/O or N/C

3.5.28 OPERATOR ENABLE

This setting works in conjunction with the "Enable" or "Disable" key position at the Control Panel. It allows the PD 6500*i* to further protect menu settings from tampering. Settings are as follows on this table:

	Key Position			
Operator Enable	Enable	Disable		
ON	All touchpads are OPERATIONAL	All touchpads are OPERATIONAL except ACCESS		
OFF	All touchpads are blocked except ON, OFF and ACCESS	All touchpads are BLOCKED		
ON w/Key	All touchpads are OPERATIONAL	All touchpads are BLOCKED		

3.5.29 ALTER SUPERVISOR CODE (+ TO ALTER CODE 1)

The Supervisor Adjustments code (referred to as CODE 1) is factory preset to 1234. To change it:

- 1. Press the + touchpad.
- 2. Enter a new four-digit code.
- 3. When the LCD prompts, REPEAT CODE, re-enter the new four-digit code. The message, CODE ENTERED OK, should appear. (If the message, INVALID ENTRY, appears, repeat steps 2 and 3.)

3.5.30 ALTER ADMINISTRATOR CODE (+ TO ALTER CODE 2)

The Administrator Adjustments code (referred to as CODE 2) is factory preset to 5678. To change it:

- 1. Press the + touchpad.
- 2. Enter a new four-digit code.
- 3. When the LCD prompts, REPEAT CODE, re-enter the new four-digit code. The message, CODE ENTERED OK, should appear. (If the message, INVALID ENTRY, appears, repeat steps 2 and 3.)

3.5.31 BAR GRAPH

The LED graphical indicator on the front panel is a visual indicator to provide information about the size of metallic objects passing through the archway and provides an indication when interference from nearby moving objects and electrical sources is present. There are two bar graph settings. Press the + or - touchpads to select the desired setting, as follows:

Normal - This default setting is intended for use under normal operation and indicates activity that is significant, relative to the detection setting.

Diagnostic - This setting is intended for technical troubleshooting where a more active bar graph is useful for locating and resolving nearby noise sources.

3.5.32 DETECTION SPEED

Detection speed refers to the speed at which a metal object passes through the archway. There are two settings for the detection speed. Press the + or - touchpad to select the desired setting, as follows:

Normal - This default setting accommodates typical transient speeds ranging from a very slow walk to a very fast walk, which are commonly encountered at security checkpoints and as are specified by known international standards.

Expanded - This setting is intended for use in those rare applications where excessive detection speeds are required such as throwing a metal object through the archway. Activating the Expanded Detection Speed setting may increase the level of noise interference.

3.5.33 M FILTER - This is a special filter designed to eliminate low-frequency impulse interference such as produced by the refresh pulse of CRT monitors. Set to OFF when attempting to operate the PD-6500*i* in proximity to non-Garrett walk-through metal detectors. Set to ON when receiving interference from a CRT monitor within 40" (1m). Try both settings to determine which provides the quietest operation.

Note: Press + or – touchpads to adjust. Early software versions have this feature set to ON and there is no menu option.

3.5.34 FREQUENCY - If Line Sync is set to OFF (see Section 3.5.29), then this feature allows the detector's operating frequency to be adjusted. Adjustment of the operating frequency is very useful and often necessary when operating the PD-6500i in proximity to non-Garrett walk-through metal detectors or other environmental noise sources. The Frequency setting can be adjusted from 0 to 2300 using the + or – touchpads.

When using this feature to eliminate interference, start with a low Frequency of 10 to 50. Then, increase the value by about 2 to 3 steps per second. The interference level, as seen on the bar graph, will begin to reduce as you approach a quiet Frequency setting. Systematically step through the first 300 or 400 settings until you find the quietest Frequency. Even though there

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are 2300 frequencies available, most noise sources, including other brands of detectors, can be eliminated with a setting between 10 and 400.

In situations where adjacent PD 6500*i* units are operating with Line Sync switched OFF (free-run), select the Frequency for each unit as follows:

- Switch off all units except the first unit which is located at one end of the checkpoint.
- Select a quite Frequency for the first unit, preferably a low Frequency setting (e.g. FREQ_{1st} = 11).
- Switch on second unit and set its Frequency 38-40 points higher than first unit (e.g. FREQ_{2nd} = 50).
- Switch on third unit and set its Frequency 38-40 points higher than second unit (e.g. FREQ_{3rd} = 89).
- For each consecutive unit, continue pattern of setting Frequency 38-40 points higher than previous unit (e.g. FREQ_{4th} = 128, FREQ_{5th} = 167, etc.)
- Note: Operating adjacent units with Line-Sync switched OFF may require increased separation.

Note: This adjustment is most effective with M Filter OFF.

Note: If Line Sync is set to ON, Frequency adjustment is not available.

3.5.35 LINE SYNC - This feature is used to place the detector into free-run operation, thereby allowing adjustment of the operating Frequency. To place detector into free-run operation, set Line Sync to OFF using the + or – touchpads. To place the unit into its normal line-sync'd operation, set Line Sync to ON.

Note: Line Sync should normally be set to ON, especially when operating in proximity to other Garrett walk-through metal detectors. Line Sync should be set to OFF (i.e. free-run operation) when operating with non-Garrett walk-through metal detectors or other types of interference sources requiring elimination via Frequency adjustment.

Note: If Line Sync is set to OFF, Channel adjustment is not available.

3.5.36 TRANSMIT CONFIGURATION - This feature allows the transmitters in each panel to be independently switched on or off. This feature may be useful when attempting to operate within 20" (50 cm) of non-Garrett walk-through detectors (see illustrations in Section 2.3.4). Specifically, if the RX panel of the non-Garrett detector is closest to the PD-6500i, then it may be necessary to turn OFF the PD-6500i's adjacent transmitter to prevent excessive interference in the non-Garrett detector. If the TX panel of the non-Garrett detector is closest to the PD-6500i, then it may be necessary to turn OFF the PD-6500i's distant transmitter to prevent overload of the PD-6500i (indicated by warble audio). These are the only situations where one of the PD-6500i's transmitters should be switched OFF. For all other situations, both PD-6500i transmitters should be switched ON. An LCD reading of "ON TRANSMIT ON" indicates both transmitters are on. Press + or – touchpads to adjust.

Note: Switching off the transmitter in either panel does not reduce detection or the ability of the PD-6500i to indicate the target's vertical position with its zone lights. However, switching off either transmitter does eliminate the PD-6500i's ability to indicate the target's horizontal position with separate left and right zone lights. With either transmitter switched off, the PD-6500i is operating as a single-sided detector. It therefore can not resolve the target's horizontal position, as is the case with conventional, less advanced detectors.

3.6 FACTORY DEFAULT SETTINGS

The Garrett PD 6500*i* arrives from the factory with the following default settings:

Function: Value: Volume 05 Minimum Volume 0 0 % Random Alarm % 5 Tone **Pacing Lights** ON 2 Sec Zone Lights Alarm Time 1 Sec IR Analysis ON

Count Direction Forward Only
Language English
Synchronization Master

Channel 1

Program **Airports Base Sensitivity** 165 0% Zone 1 Zone 2 0% Zone 3 0% Zone 4 0% 0% Zone 5 0% Zone 6

Relay Normally Open

Operator Enable ON
Supervisor Access Code 1234
Administrator Access Code 5678
Bar Graph Normal
Detection Speed Normal
M Filter ON

Frequency 50 (viewable only when LINE SYNC is off)

Line Sync ON
Transmit Configuration ON / ON

3.7 CODE RESET

Should the administrator access code be forgotten or misplaced, the PD 6500*i* has a mechanical method for resetting the administrator access code to factory preset code.

- 1. Open the main cover of the detection unit.
- 2. Remove the three screws attached to the controller module cover.
- **3.** With power turned on and the unit in Operate mode, press and hold the ACCESS CODE RESET button (on the upper left side of the lower circuit board) for ten seconds. (See Figure 3-3.)

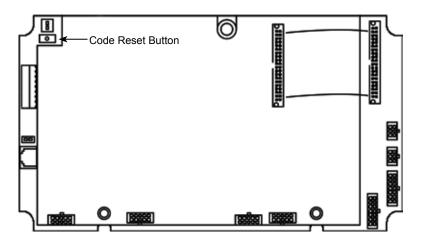


Figure 3-3

4. PROGRAM AND SENSITIVITY SETTINGS

The PD 6500*i* is shipped with program and sensitivity settings which are suitable for many general security applications. It is important that prior to placing a unit in service that the Administrator determine the specific needs of the installation and make necessary changes to the settings described in Section 3.

The required Program and Sensitivity settings of walk-through metal detectors are dependent on individual security screening requirements and therefore must be the responsibility of the checkpoint Supervisor. Program, sensitivity and zone boost settings should be established at a level that permits the detector to detect the forbidden objects that are expected to appear at a particular screening station. Included in the test procedure should be the requirement that the tester be free of all metallic items, including watches, belts, shoe shanks, cell phones, etc. prior to arming himself with the test objects. A hand-held metal detector can be used to confirm that the tester is "clean" of extraneous metallic items.

Careful determination of Program, Sensitivity and Zone Boost settings is important, since lower than required sensitivity and/or zone boosts settings can decrease the ability of the equipment to detect forbidden objects and higher than necessary settings can result in excessive nuisance alarms that may disrupt traffic flow and decrease effectiveness of the equipment and security operation.

4.1 PROGRAM SELECTION

The PD 6500*i* is equipped with several programs to address a variety of security needs. A program whose characteristics are appropriate to the application should be selected. Table 4-2 is a list of available programs and information about the characteristics of the programs. Figure 4-1 shows the detection characteristics of the Loss Prevention programs for various metals.

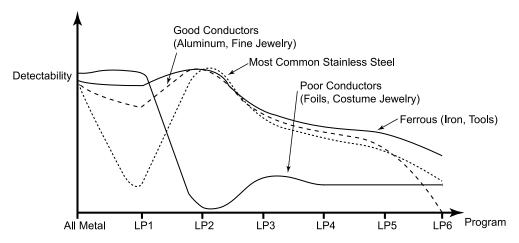


Figure 4-1 All Metal and Loss Prevention Programs

4.2 SELECTING SENSITIVITY AND ZONE BOOST SETTINGS

The procedure described in Section 3.5.19 (Alarm Level) is helpful in determining the required base sensitivity setting for the selected program. This test is often performed with the test objects carried in various orientations near the center of the body. Once the base sensitivity has been established, continue testing at various elevations to make any necessary zone boost adjustments. It is often helpful to return to the alarm level reading to evaluate the effects of the zone boost adjustments. (See Section 3.5.26.)

PROGRAM	DESCRIPTION / USE	
Airports Schools Courthouses Buildings Special Events	Designed primarily for detection of guns and other such weapons. Exceeds FAA detection requirements (i.e. FAA3-gun test). Provides excellent discrimination against innocuous items such as coins, keys, jewelry, shoe-shanks, cigarette packs, foil, etc. Recommended for applications requiring general weapons detection while providing high traffic throughput with minimal nuisance alarms.	
Airports Enhanced Airports Enhanced - 2 AENA-1 AENA-2 ECAC JCAB STAC Nuclear	Designed for the detection of guns as well as knives and other flat or rod-shaped weapons. Meets the Transportation Security Administration's (TSA) Enhanced walk-through Metal Detector (EMD) requirements and European Airport requirements and exceeds FAA requirements. Provides good discrimination against innocuous items such as coins, keys, jewelry, cigarette packs, foil, etc. Recommended for applications requiring comprehensive detection of guns and knives while providing moderate traffic throughput with low-to-moderate nuisance alarms.	
Prisons	A specialized weapons detection program designed to detect all metals and provide the highest level of security available. Exceeds FAA and TSA detection requirements. Provides no discrimination against innocuous items and is therefore recommended for applications which allow low traffic throughput.	
All Metal Loss Prevention 1 Loss Prevention 2 Loss Prevention 3 Loss Prevention 4 Loss Prevention 5 Loss Prevention 6	The All Metal and Loss Prevention programs are used to detect metals ranging from conductive to non-conductive and/or ferrous to non-ferrous. The All Metal and Loss Prev1 programs are designed to detect most metals, ferrous and non-ferrous such as jewelry, computer components and most coins. Loss Prev 2 is similar to Loss Prev1 except it is designed to ignore poor conductors, such as cigarette or chewing gum foil and keys. Loss Prev3 to 6 are designed to detect items that are increasingly less conductive and more ferrous (i.e., contain more iron), e.g., Loss Prev3 to 5 detects most weapons; Loss Prev6 is most recommended for detecting steel tools. Low–moderate throughput. See Figure 4-1 for a graph representing detection capabilities of the All	
Alternate	Metal and Loss Prevention programs. For use as an alternative under difficult environmental conditions, including electrical interference. A general weapons program that provides moderate discrimination against pocket items while offering the best balanced response to all metals. Meets FAA requirements (i.e., three-gun test).	

Figure 4-2 - Programs Chart

5. OPERATION

5.1 OPERATIONAL TESTING

5.1.1 OPERATIONAL TEST PIECE

Actual forbidden objects should be used as targets for initial calibration. Once the detector settings are established it is recommended that a Test Piece be selected which is similar in size, shape and metallic composition to the smallest forbidden object. This Test Piece can be used to generally verify operation on a regular basis without the necessity of having actual weapons on-hand at the screening station.

Garrett offers an optional Operational Test Piece (OTP) that meets the specifications of the U.S. Federal Aviation Administration (FAA) and is a representation of a small handgun. Garrett also offers an optional Flat Test Piece (FTP) which represents a small knife (see Section 8.8.) You may want to consider other test pieces if your screening operation requires detection of objects other than guns and / or knives.

5.2 OPERATOR RESPONSIBILITIES

The Operator must follow the Supervisor's instructions regarding use of the PD 6500*i* and the appropriate response to alarms.

The Operator's ongoing responsibility is to ensure that the PD 6500*i* always operates according to the information displayed on the LCD and to determine the cause of the alarms.

The Operator should ensure that the:

- 1. PD 6500*i* is always operating properly
- 2. Program and sensitivity settings are correct by pressing PROGRAM DISPLAY
- 3. LED bar graph shows minimal interference (two lights maximum)
- 4. Green READY light is on
- 5. Operational testing is performed according to the Supervisor's instructions.

5.2.1 READY LIGHT

The Green READY light must appear before a patron is permitted to enter the walk-through for inspection.

If the READY light shuts off and remains off, the Operator should activate the self test report by pressing the OPERATE touchpad; the results will appear on the LCD. During this time, no one is permitted to enter the walk-through. Traffic may resume only when the READY light reappears and remains on. If the READY light does not reappear or a failure message is displayed on the LCD, the Operator should attempt to resolve the problem or consult the Supervisor.

5.2.2 DIAGNOSTIC PROBLEMS

As a general rule, the operator should follow the instructions regarding the appropriate response to failures revealed by the self test. However, the operator may be able to remedy the following failures:

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RX OPTIC FAIL: Ensure the openings for the optical sensor (located inside both side panels at approximately 30" from the floor) are not blocked.

RX A or B ZN # BAL FAIL: Ensure there is no large metal object near the PD 6500i.

If the self-test reveals a failure that severely limits or prohibits the PD 6500*i*'s performance, the alarm will sound, the LED display will flash and the message SYSTEM FAILURE will appear on the LCD. The LED will continue flashing until the power is turned off or the failure is remedied.

The Operator should inform the Supervisor of any problems that occur.

5.2.3 RESPONDING TO ALARMS

If a patron triggers an alarm and the alarm light appears, the Operator should instruct the individual to step outside the walk-through and remove any metal objects from their body and/or clothing. The Operator should then either scan the patron with a hand-held metal detector, such as a SuperScanner of SuperWand or ask the person to re-enter the walk-through.

If an alarm sounds after the patron reenters the walk-through, he or she must be re-scanned with a hand-held metal detector.

The pinpoint lights facilitate the screening process by indicating the location of ALL alarmable objects within 33 pinpoint areas. In cases, where there is more than one object, the lights appear in each array that requires investigation. This enables the Operator to know from which area(s) objects require removal and to concentrate on the problem areas when hand scanning, resulting in improved overall security and increased throughput.

6. MAINTENANCE / TROUBLESHOOTING

There are several factors that may cause difficulties with the PD 6500*i*. These can include installation, environmental noise, and program selection, as well as failures of the circuitry. Often a problem can be corrected quickly and easily by using the following information without the need for replacement parts or assistance from the factory or your dealer.

The following sections contain specific information and setup and should be read as part of the troubleshooting procedure:

Procedure:	Manual Section:	<u> Page(s):</u>
Site Selection & Requirements	Section 2.1	11–16
Unit Assembly	Section 2.2	16–19
Self Test	Section 3.3	24
Program and Sensitivity Settings	Section 4, 4.1, 4.2	36–37
Operation	Section 5, 5.1, 5.2	38–39

Note: If you are having difficulties during setup, it may be desirable to return the unit to the factory default settings. (See Section 3.6.)

If the above-listed sections do not take care of a specific problem, sections 6.1–6.3 cover other issues which can commonly affect performance.

6.1 LOCATING AND RESOLVING NOISE SOURCES

The PD 6500*i* uses the latest digital signal processing technologies to eliminate the effects of most external noise sources. However, the high sensitivity required to detect smaller objects may make the equipment susceptible to interference from a variety of external sources. The presence of these noise sources may be recognized through unusual bar graph activity typically spiking into the yellow or red when no one is being screened. The source of the noise may be mechanical or electrical. Two techniques are often helpful in locating external noise sources.

6.1.1 METHOD TO LOCATE CONTINUOUSLY OCCURRING NOISE INTERFERENCE

- 1. Enable the keypad by switching the TOUCHPAD KEY LOCK to the enable position. (See section 1.3.1.5.)
- 2. Enter the diagnostic mode by pressing the ACCESS touchpad and then entering the code 8721.
- 3. Press the ACCESS key incrementally to view the alarm levels for each zone. The numbers on the left and right indicate the ambient noise levels present on the left and right panels for the zone currently being observed. The number in the center indicates the zone currently being observed.
- 4. The alarm level indicates the peak level of the interference. Press the + key to reset the indicator to allow a new reading. After taking several readings for a given zone, press ACCESS to proceed to the next zone.
- 5. Observe the alarm levels of each panel for each zone. Lower numbers indicate greater ambient noise. Higher numbers (185-255) indicate low or no external interference. Zones with alarm level numbers approaching or below the selected sensitivity setting

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- should be investigated. Large differences in the left and right numbers indicate nearby noise sources. Smaller differences in the left and right numbers indicate more distant noise sources.
- 6. Attempt to identify and resolve noise sources by switching off nearby electrical equipment sequentially while observing changes to the alarm levels. Moving the detector to change the distance or angle from nearby equipment or interference sources in the floor or walls is often found to be helpful.
- 7. The interference may also be resolved by switching M Filter ON or OFF, or adjusting Frequency. (See Sections 3.5.33–3.5.35.)

6.1.2 METHOD TO LOCATE PERIODIC "SPIKING" NOISE SOURCES

- 1. Enable the keypad by switching the TOUCHPAD KEY LOCK to the enable position.
- 2. Switch the IR ANALYSIS to OFF. (See Section 3.5.17.)
- 3. Observe the Zone indicators to determine the location of the alarm source.
- 4. Adjust the BASE SENSITIVITY up or down until only a limited number of zone lights are active. This will indicate the location of the strongest interference. (See Section 3.5.24.)
- 5. After identifying the location of the strongest interference, investigate possible mechanical or electrical devices that are in the vicinity. Possible sources of interference are moving gates, loose panels on cabinet x-ray equipment, electrical components in nearby equipment. Remember that nearby sources (within a few feet) are likely to cause the zone lights to activate in only one or two zones, often on only one panel. Sources that are farther removed are likely to cause more zone lights to activate.
- 6. One method to further identify the source of noise is to switch off, disconnect or move equipment suspected of interference. A second method is to temporarily rotate or move the archway to determine an increase or decrease in interference.
- 7. The interference may also be resolved by switching M Filter ON or OFF, or adjusting Frequency. (See Sections 3.5.33–3.5.35.)
- 8. Remember to restore the Sensitivity and IR settings prior to placing the equipment back in service.

6.2 ERROR CODE TABLE-DIAGNOSTICS

CRITICAL FAILURES AND NON-CRITICAL FAILURES

Failures are classified as either "critical" or "non-critical". A critical failure prevents the PD 6500*i* from operating and must be corrected immediately. When a critical failure occurs, the audio alarm sounds, the overhead display begins flashing and the message, SYSTEM FAILURE, appears on the LCD.

A non-critical failure does not prevent the PD 6500*i* from operating; however, it should be corrected as soon as possible.

CRITICAL FAILURES • TX A or B FAIL • POWER MOD FAIL • RX BOARD FAIL • RX A or B ZN # PK FAIL • CABLE MISCONNECT • DSP FAIL • NO SLAVE OUTPUT • SLAVE SYNC • AC SYNC or SYNC FAIL • RX or TX OPTIC FAIL • RX A or B ZN # BAL FAIL

Failure	Possible Failures and Remedies Verify and / or Replace	Special Note	
TX A FAIL*	Panel A cables & connectors Transmitter control (TX) board Panel A		
TX B FAIL*	Panel B cables and Connectors TX board Panel B		
NO SLAVE OUTPUT	Verify connections to slave unit Verify TX board		
SLAVE SYNC	Verify connections from master unit Verify TX board		
SYNC FAIL	Power connections to TX board Power supply module Transmitter control board		
AC SYNC FAIL	Make sure AC power is connected	Ensure line voltage is between 100 and 240 VAC	
TX OPTIC FAIL	Make sure panel cables and PC Board are plugged in IR Emitter board assembly in panel A		
DSP*	Switch unit off and back on to reset failure Replace RX board		

^{*} Critical Failure

Failure	Possible Failures and Remedies Verify and / or Replace	Special Note
RX OPTIC FAIL	Make sure panel cables and PC board are plugged in IR Detector board assembly in Panel B	Ensure no blockage of IR beam (of Panel A and Panel B) at waist level of archway
POWER MOD FAIL*	Power Module	Ensure line voltage is between 100 and 240 VAC
RXA BOARD FAIL*	40-pin cable connection from Board to Board	Check to see all connectors are properly seated
RX Zn # BAL FAIL	1. Cable and connector to Panel A 2. Circuit Board Connects (# = zone with balance failure)	Ensure no large, metal object nearby. If necessary, move object or relocate PD 6500 <i>i</i>
RXB Zn # BAL FAIL	1. Cable and connector to Panel B 2. Circuit Board Connects (# = zone with balance failure)	Ensure no large, metal object nearby. If necessary, move object or relocate PD 6500 <i>i</i>
RXA Zn # PK FAIL*	Panel A cable and connectors Circuit Board Connections	Ensure no TX A or B FAIL. Ensure no large, metal object nearby. If necessary, move object or relocate PD 6500 <i>i</i>
RXB Zn # PK FAIL*	Panel B cable and connectors Circuit Board Connections	Ensure no TX A or B FAIL. Ensure no large, metal object nearby. If necessary, move ob- ject or relocate PD 6500 <i>i</i>
CABLE MISCONNECT*		Ensure that the cables are attached to the circuit boards are connected as described in the inside cover of the controller module.
POWER OFF FAIL	Temporary solution: Press ON button to return to full operation (self test will still indicate failure). Permanent solution: Replace TX board.	This failure does not affect operation or detection while the unit is ON. This failure does not allow proper switch OFF; however, transmitters will properly switch OFF.

^{*} Critical Failure

6.3 REPAIR

The PD 6500*i*s modular design facilitates assembly and maintenance.

If problems are site-related, see Section 2.1 or contact the factory for assistance. Often adjusting or relocating the equipment, or removing nearby objects resolves problems.

If the equipment does not perform properly, contact the factory for assistance.

6.3.1 CONTROLLER MODULE

The controller module, located in the overhead panel, contains all of the circuit boards required for operation. The cables that connect the controller module to the side panels are plugged into connectors at the top of each panel. The controller module cover should not be removed except to:

- Connect wires to remote alarm relays or synchronization circuitry (see Section 7);
- Attach the battery pack module. (see Section 8.1);
- Revert access codes to factory setting (see Section 3.6.);
- Attach remote console or CMA Interface Module.
- · Perform a repair.

6.3.2 POWER MODULE

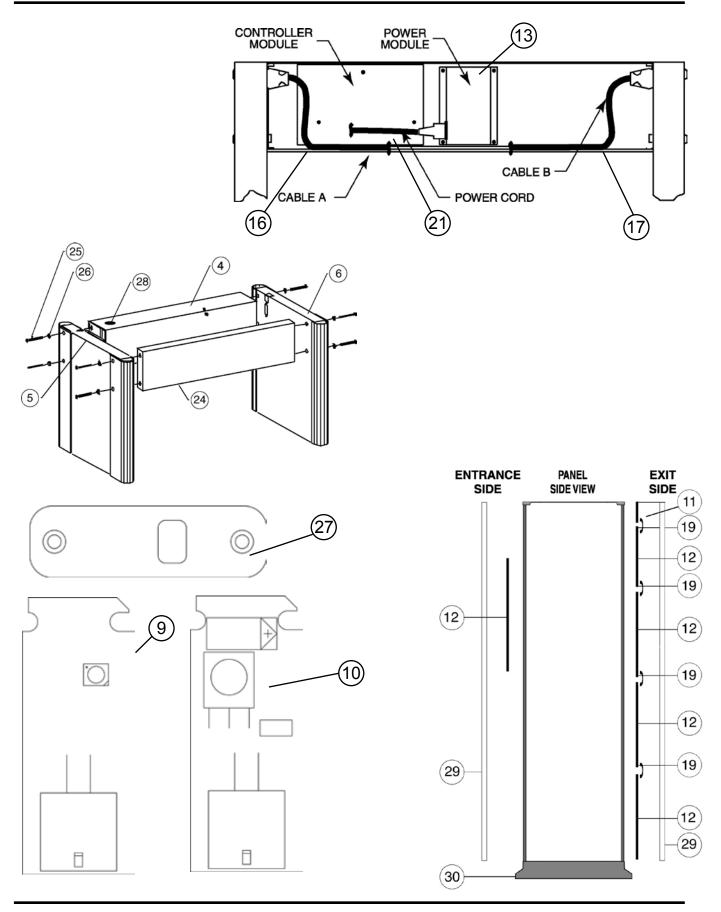
The power module supplies the power required for operation. Ensure that the power cord is plugged into the connector on the lower left side of the module.

6.4 Replacement Parts

Replacement parts are available from Garrett. Refer to Table 6-4 and following illustrations to identify parts and part number.

Table 6-4 (Replacement Parts)

ITEM	DESCRIPTION	PART#	PART#	QTY
		(Beige Models)	(Gray Models)	
1	Access Code Card	1562300	1562300	2
2	User's Manual	1532010	1532010	1
3	Video DVD	1532010	1532010	1
4	Detection Unit	2233462	2233464	1
5	Panel A	2233200	2233201	1
6	Panel B	2233350	2233351	1
7	TX/Controller Board Pcb Assembly	2340503	2340503	1
8	RX Pcb Assembly	2340702	2340702	2
9	IR Emitter Pcb Assembly	2342002	2342002	1
10	IR Detector Pcb Assembly	2342102	2342102	2
11	Light Bar Controller	2341112	2341112	2
12	Light Bar Slave Set	2341212	2341212	2
13	Power Supply Module	2338612	2338612	1
14	Touch panel	9425100	9425101	1
15	Speaker Assembly	2404900	2404900	1
16	Cable Assembly A Det Unit (Short)	2421000	2421000	1
17	Cable Assembly B Det Unit (Long)	2421150	2421150	1
18	Ribbon Cable 40 x 3.5 (Tx-Rx)	2416800	2416800	1
19	Flex Strip Jumper 20 x 1	9433100	9433100	8
20	Power Cord 110V 17'	9411500	9411500	1
21	AC Cord Jumper	9427600	9427600	1
22	Power Cord - Euro Plug	9421300	9421300	1
23	Power Cord - NEMA L5-I5P Locking	9411570	9411570	1
24	Crosspiece	9968800	9968801	1
25	Screw 1/4-20x3	9820400	9820400	8
26	Finishing Washer	9820500	9820501	8
27	Mount Assembly IR Emitter/Detector	2400202	2400203	2
28	Hole Plug	9832300	9832300	1
29	Extrusion Lens	9999200	9999201	4
30	Boot	9999900	9999901	2
31	Battery Gel Cell 12 V 5 AH	9413000	9413000	2
32	IC Extractor Tool	1623900	1623900	1



6.5 WARRANTY INFORMATION

Garrett Electronics, Inc. ("Garrett") warrants that each piece of security equipment manufactured by Garrett is protected by the following limited parts and labor warranty for a period of 24 (twenty-four) months (the "Warranty"). During this 24-month period Garrett will inspect and evaluate all equipment returned to its authorized repair station or factory to determine if the equipment meets Garrett's performance specifications. Garrett will repair or replace at no charge to the owner all parts determined faulty. This Warranty does not cover batteries nor any and all failures caused by abuse, tampering, theft, failure due to weather, battery acid or other contaminants and equipment repairs made by an unauthorized party.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE BUYER ACKNOWLEDGES THAT ANY ORAL STATEMENTS ABOUT THE MERCHANDISE DESCRIBED IN THIS CONTRACT MADE BY SELLERS' REPRESENTATIVES, IF ANY SUCH STATEMENTS WERE MADE, DO NOT CONSTITUTE WARRANTIES, SHALL NOT BE RELIED UPON BY THE BUYER, AND ARE NOT A PART OF THIS CONTRACT FOR SALE. THE ENTIRE CONTRACT IS EMBODIED IN THIS WRITING. THIS WRITING CONSTITUTES THE FINAL EXPRESSION OF THE PARTIES' AGREEMENT AND IS A COMPLETE AND EXCLUSIVE STATEMENT OF THE TERMS OF THIS AGREEMENT.

The parties agree that the Buyers' sole and exclusive remedy against Seller shall be for the repair and replacement of defective parts. The Buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost sales, lost profits, injury to person or property) shall be available to him.

7. RELAY OPTIONS

The PD6500*i* is equipped with solid state switches capable of controlling external alarms, locking devices, video recorders, etc. Several combinations of switching are available to allow control of low voltage AC and DC circuits as well as control of logic inputs. Control is activated when the red Alarm light on the control panel is activated. The control may be configured to normally open or normally close based on menu settings. (See Section 3.5.27.)

7.1 AC CONTROL

To control devices which require low voltage AC follow Figure 7-1. The optically isolated triac output is capable of controlling up to 48 Vrms at up to 100 ma. The output is electrically isolated from the ground.

To connect an external alarm, a locking device, a VCR/video monitor or other AC component, follow Figure 7-1. The optically-isolated triac output conducts only when the red Alarm light is illuminated. Control should not exceed 48Vrms and 100mA. The output is electrically isolated from ground.

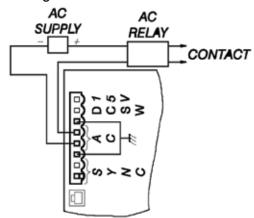


Figure 7-1

Procedure:

- 1. Disconnect from AC power.
- 2. Open access door of detection unit.
- 3. Remove the three screws that hold controller cover. Remove the terminal connector.
- **4.** Connect the relay or device to controller circuit board, as shown.
- 5. Replace terminal connector cover and reconnect power.

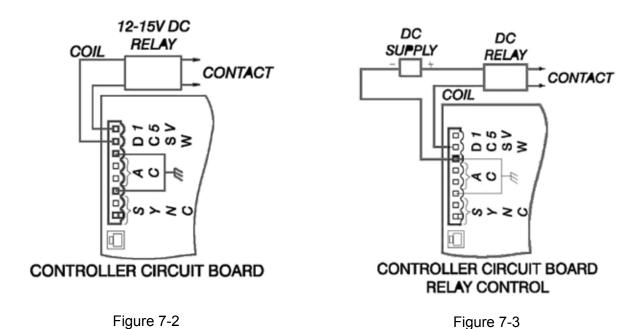
7.2 DC CONTROL

To control devices which require low voltage DC, there are three options for connection.

Cases 1 (internal power), 2 (external power) and 3 (external logic control) (see Figures 7-2, 7-3 and 7-4) show alternatives to connecting an external device that requires a low voltage, direct current. The output is an open collector configuration that can switch 15V at 100mA or less, including connections to computing devices and other equipment requiring low level DC.

Procedure for Cases 1 and 2:

- 1. Disconnect from AC power.
- 2. Open access door of detection unit.
- 3. Remove the three screws that hold controller cover. Remove the terminal connector.
- **4.** Connect the relay or device to controller circuit board, as shown.
- 5. Replace cover and reconnect power.



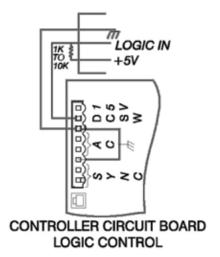


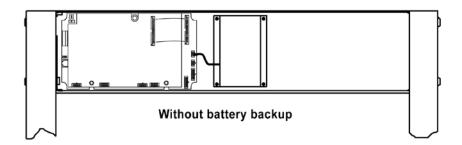
Figure 7-4

8. ACCESSORIES

8.1 BATTERY BACKUP MODULE PN 2225400 (U.S.) and 2225470 (Euro)

The battery backup module is a field-installable assembly that provides approximately 10 hours of uninterrupted operation. Amonitoring circuit ensures the batteries maintain maximum charge without battery damage. An alarm warns the operator when batteries are low.

NOTE: The green ready light rapidly blinks when AC power is disconnected and the unit is operating from battery power.



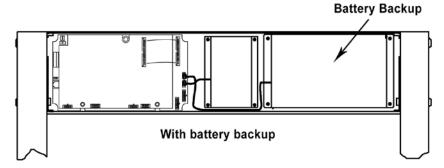


Figure 8-1

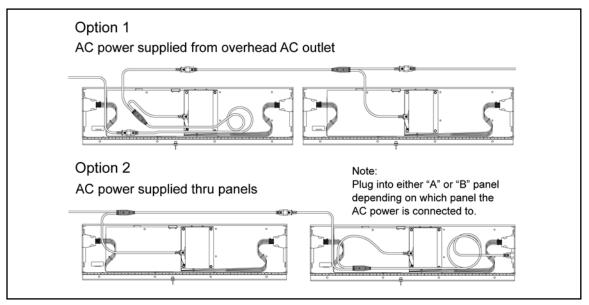
8.1.1 BATTERY BACKUP MODULE INSTALLATION

- 1. Open the access door of the detection unit.
- 2. Disconnect the AC power plug from the power supply module.
- 3. Remove the three screws that hold the controller module cover.
- 4. Remove the four acorn nuts from the package.
- 5. Install the battery pack module with the acorn nuts.
- 6. Disconnect the power supply module connector from the controller circuit board. (See Figure 8-1.)
- 7. Reconnect the power supply and battery pack modules. (See Figure 8-1.)
- 8. Reassemble the system and test.

8.2 POWER CORD JUMPER - 10' PN 9431900

The Power Cord Jumper is a convenient method of supplying power to multiple units located in close proximity. Cable length allows spacing of up to seven feet between units. Using the

power jumper is an effective method to ensure that nearby units are properly connected to the same power phase. To install, simply remove the rubber grommet in the top of the detection housing and install in series with the power cord jumper. Each PD 6500*i* requires less than two amperes of current and it is possible to safely connect five or more units to a common electrical outlet.



8.3 Desktop Remote Control PN 2266400

The desktop remote control allows the user to monitor and control the PD 6500*i* from a remote location. The remote includes a full keypad, LCD Panel, LED bar graph, zone indications, and audible alarm. A 50 foot cable is included as a standard length cable. Cables up to 200 feet are available as a special order from the factory.

Installation requires access to the detection unit housing. Remove the rubber plug in the top of the unit to allow the cable to feed into the housing. Remove the three screws that secure the circuit board cover and connect the cable at the lower left corner of the pcb.



8.4 MAGNADOLLY WHEEL TRANSPORTER

The MagnaDolly transporter system may be obtained in two versions. A permanent version is preferred when frequent relocation of the unit is required. A removable version is used when moves are infrequent or when there is a requirement to move multiple units. The removable version requires no modifications to the panels for installation.

8.4.1 INSTALLATION OF PERMANENT MAGNADOLLY PN 1169000

Follow installation instructions and use drilling template provided with the MagnaDolly to permanently install upper and lower wheel assemblies, support bar and bracket.









8.4.2 INSTALLATION OF MAGNADOLLY QUICK RELEASE PN 1168000

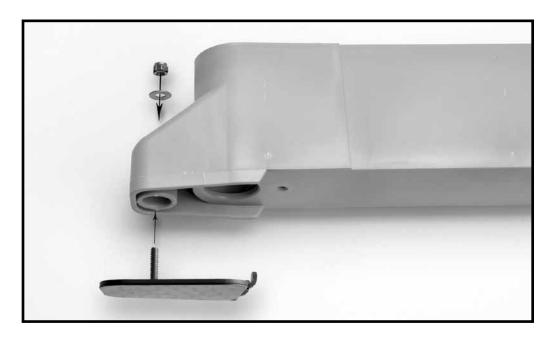
Using a slotted screwdriver, install the upper wheel assembly. Lift the edge of the detector to slip the lower wheel assembly in place.





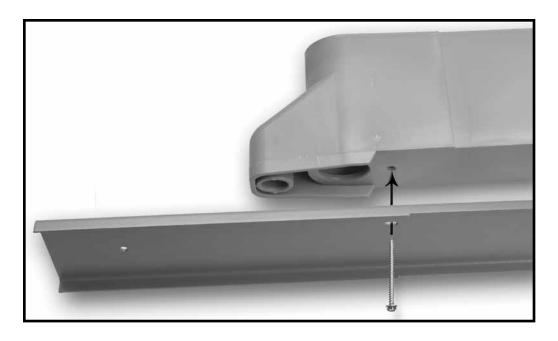
8.5 ADHESIVE FLOOR MOUNTS PN 1604100

Adhesive floor mounts may be used to fix the location of the PD 6500*i* to eliminate unauthorized relocation and to protect from tipping. The mounts are intended for smooth floors and eliminate damaging finished floors caused by anchor bolts.



8.6 STABILIZER BARS PN 1603900

Stabilizer bars may be used to prevent the PD 6500*i* from tipping over.



8.7 CMA MODULE PN 1168310

The CMA Interface Module is used in conjunction with a 10baseT network and a personal computer. It allows control, real-time monitoring and diagnostics from a remote location. The internal memory records all changes to settings and patron traffic and alarm history.

To install the module, first install the short RS485 cable on the circuit board. Attach the CMA module using the screws which attach the circuit board cover. Connect the CMA to a network hub or PC using an appropriate category 5 cable. Follow the configuration instructions supplied with the CMA.



8.8 OPERATIONAL TEST PIECE (OTP) and FLAT TEST PIECE (FTP)

Operational Test Piece (OTP) PN 1600600

OTP is designed by the FAA to represent a small hand-gun.



Flat Test Piece (FTP) PN 1620570

FTP represents a small knife or box-cutter.





INTEGRATION SYSTEMS



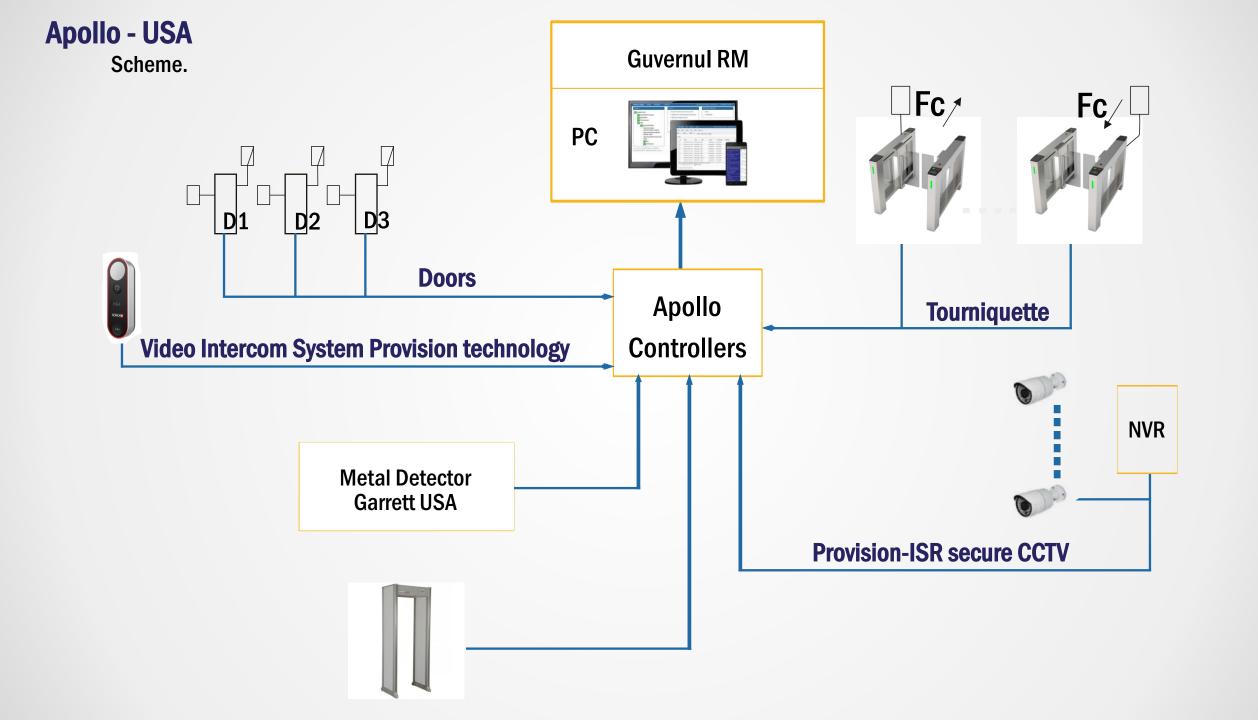


Beneficiary:

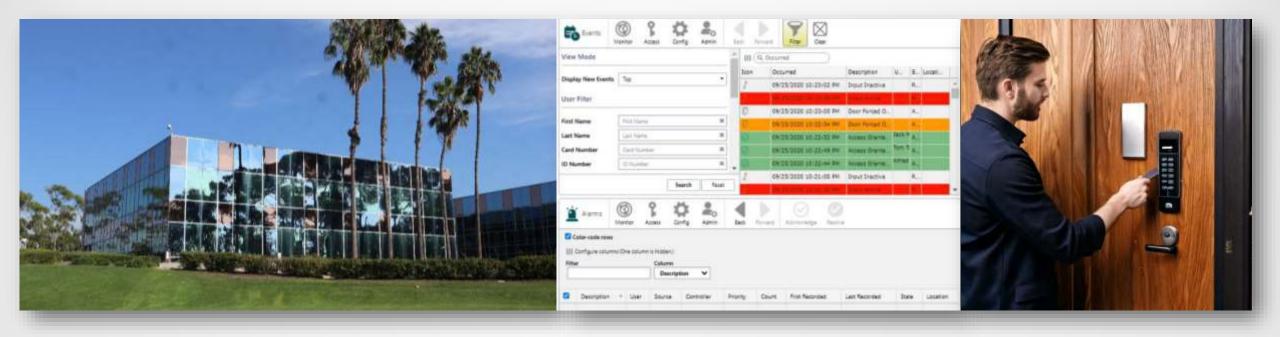
Guvernul Republicii Moldova

Integrator:

"Media Security" SRL







Apollo is a US. based developer of advanced door access control and alarm hardware and software Developing and manufacturing products for more than 40 years

Scalable products from small systems to large (1 million cards) installations with sites in multiple countries

APOLLO PRODUCTS



Access & Alarm Monitoring

Apollo Security provides site security personnel complete control and a comprehensive overview of the state of the system.



Advance and Robust Door Controller

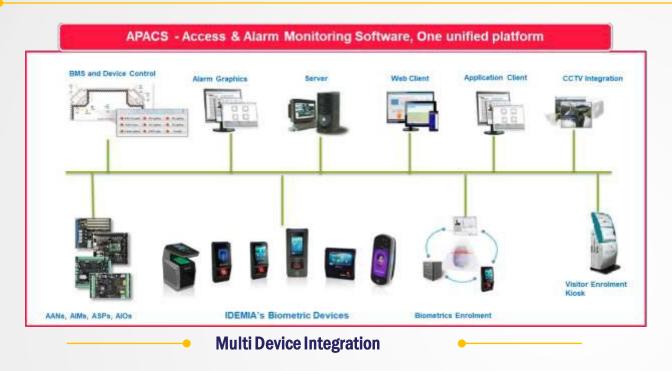
Apollo Security manufactures robust high-speed and high-capacity hardware capable of supporting large critical sites.



Mobile Access Management & Alarm Monitoring

Apollo provides both web based and mobile based alarm monitoring platform.

PRODUCT INTEGRATION



To complement Apollo's advanced access control system and deliver a complete solution, Apollo integrates with multiple technology partners to provide a comprehensive and optimized security system tailored to the specific needs of end users.

Wiegand and OSDP
Card Readers

Video

And other devices for optimum security

Biometric Devices

Visitor Management

Building Automation

License Plate Recognition

MOBILE IDENTIFICATION

In certain field use cases, a mobile identification device is required to authenticate cardholders. Telaeris Express Entry software integrates seamlessly with Apollo APACS, enabling smooth event reporting and streamlined operations.

Integrated Brands

Telaeris



CARD READERS

Apollo controllers support up to 127 card formats, giving end users the flexibility to choose from a wide range of card readers that meet their specific security requirements. Supported reader formats include OSDP, Wiegand, Clock & Data, SSCPv2, FIPS 201 PKI-based cards, and various legacy types

- Stid
- Farpointe
- HID
- Other Wiegand / OSDP readers













BIOMETRIC READERS

Apollo's biometric integration delivers fast and reliable identity verification using technologies like fingerprint and facial recognition. It enhances security, reduces reliance on physical credentials, and meets customer needs for convenience and compliance. Apollo supports biometric enrollment directly from the APACS software for Suprema and IDEMIA biometric readers, ensuring a seamless and scalable solution.

- Idemia
- Suprema
- Invixium













VIDEO

Apollo's video integration enhances situational awareness by linking real-time video with access control events. Through integration with leading VMS platforms, users can view live or recorded footage directly from the APACS interface, enabling faster incident response and improved security management. This seamless connectivity between video and access systems provides a unified solution tailored to meet the monitoring and investigative needs of modern security operations.

- Avigilon
- Milestone
- **Bosch**
- Hanwha
- **Panasonic**
- Pelco
- Infinova
- **Provision**

- Vicon
- Ganz
- Wavestore
- Verint
- HIKVision
- DaHua
- Flir



































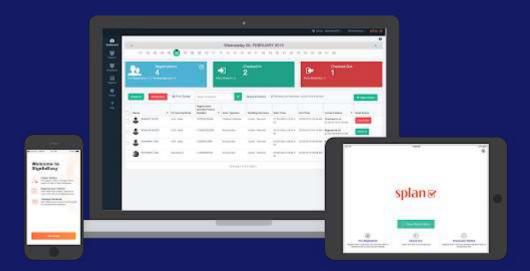




VISITOR MANAGEMENT

Apollo integrates with leading visitor management systems to streamline and secure the check-in process. This integration enables automated visitor registration, badge issuance, and real-time syncing of access permissions with the Apollo access control system. The result is enhanced security, improved operational efficiency, and a professional experience for both guests and front-desk personnel.

- BAS-IP
- Garrett
- Astrophysics Inc.
- VMI Security





Vehicle License Plate Recognition

Apollo supports integration with vehicle license plate recognition (LPR) systems to automate and enhance vehicle access control. By linking LPR data with the access control platform, authorized vehicles can be identified and granted entry without the need for physical credentials. This solution improves traffic flow, reduces manual intervention, and strengthens perimeter security for parking facilities, gated communities, and high-security sites.

- Tattile
- HT Solutions
- Hikvision





Elevator destination management

Apollo's elevator integration enables precise floor access control by linking the access control system with elevator dispatch systems. Authorized users can be restricted to specific floors based on their credentials, enhancing security within multi-level buildings. This integration ensures seamless operation, improves traffic efficiency, and supports both traditional and destination - based elevator systems for a fully secure and user-friendly experience.

- MP Spain
- OTIS
- KONE







OTHER CUSTOM INTEGRATION

"In addition to standard integrations, Apollo offers support for custom integrations to meet unique operational and security requirements. Through open APIs and flexible software architecture, Apollo can interface with a wide range of third-party systems, including HR databases, time and attendance platforms, fire alarm systems, and building management solutions. This adaptability ensures that organizations can create a unified and tailored security solution that aligns with their specific workflows and infrastructure.

- (BIS) Bosch security
- Compass Decision Management System Motorola
- VENOM PSIM Megavision
- Terminal Management System GUIDANT





Apollo's integration capabilities provide a comprehensive security solution by connecting access control with biometric authentication, video surveillance, visitor management, license plate recognition, and elevator systems. These integrations enhance security, streamline operations, and offer a seamless user experience across various environments. Whether managing people, vehicles, or facilities, Apollo delivers scalable and intelligent access solutions tailored to meet diverse customer needs.





Nov 1st 2023

NDAA Compliance

NDAA Summary

The John S. McCain National Defense Authorization Act (NDAA) for the Fiscal Year 2019 was passed on August 13, 2018.

The law, specifically Section 889, prohibits federal agencies, their contractors, and grant or loan recipients from procuring or using "telecommunications and video surveillance equipment or services" from specific Chinese companies as a "substantial or essential component of any system, or as critical technology as part of any system."

The NDAA ban includes telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation and video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company.

Provision-ISR Statement

With headquarters in Israel and manufacturing facilities located in Shenzhen, China, Provision-ISR supports NDAA compliance across its product line and is committed to complying with all government and international trade regulations. Provision-ISR is committed to providing NDAA Section 889-compliant products and does not have OEM, ODM, and JDM relationships with the named vendors in the NDAA.

Provision-ISR cameras and network video recorders (NVRs), which do not use or deploy critical components, including SoCs produced by NDAA-banned component vendors, comply with the NDAA.





The Provision-ISR NDAA-compliant product list:

IP Cameras

DV-340SRN-36	DI-320IPSN-28-V4	DMA-320IPEN-28-V4	14-340IPEN-36
14-340IPSN-MVF-V2	DI-320IPSN-36	DMA-340IPEN-28	14-340IPEN-36-G
BMH-320SRN-MVF	DI-320IPSN-36-V2	DMA-340IPEN-28-V4	14-340IPEN-36-V4
BMH-340SRN-MVF	DI-320IPSN-36-V4	DMA-350IPSN-28-V4	I4-340IPEN-MVF
BMV-320SRN-36	DI-320IPSN-MVF-V2	DV-320SRN-28	14-340IPEN-MVF-V4
BMV-340SRN-36	DI-320IPSN-MVF-V4	DV-320SRN-36	I4-340IPSN-MVF
BSV-320SRN-36	DI-320IPSN-VF	DV-340SRN-28	14-350IPSN-MVF-V4
BSV-340SRN-36	DI-320IPSN-VF-G	12-320IPBN-36	14-380IPSN-28-V3
DAI-320IPEN-28	DI-320IPSN-VF-V2	12-320IPSN-28	14-380IPSN-MVF-V3
DAI-320IPEN-28-V4	DI-320IPSN-VF-V4	12-320IPSN-28-V2	I6-320IPEN-MVF
DAI-320IPEN-MVF-V4	DI-340IPEN-28	12-320IPSN-28-V2-G	16-320IPEN-MVF-V4
DAI-320IPSN-28-V4	DI-340IPEN-28-G	12-320IPSN-28-V4	I6-340IPEN-MVF
DAI-340IPEN-28	DI-340IPEN-28-V4	12-320IPSN-36	16-340IPEN-MVF-V4
DAI-340IPEN-28-V4	DI-340IPEN-MVF	12-320IPSN-36-V2	I6-340LPRN-MVF1
DAI-340IPEN-MVF	DI-340IPEN-MVF-V4	12-340IPSN-28	I6-340LPRN-MVF2
DAI-340IPEN-MVF-V4	DI-340IPSN-28	12-340IPSN-28-G	I6-380IPEN-MVF
DAI-340IPSN-28	DI-340IPSN-28-G	12-340IPSN-28-V2	16-380IPEN-MVF-V3
DAI-340IPSN-28-V2	DI-340IPSN-28-V2-G	12-340IPSN-28-V2-G	18-340IPEN-MVF2-V4
DAI-350IPSN-28-V4	DI-340IPSN-28-V2	12-340IPSN-36	IV-320IPSN-37
DAI-380IPSN-28-V4	DI-340IPSN-36	12-340WIPSN-28	TL-340IPERN-36
DH-320SRN-MVF	DI-340IPSN-MVF	12-350IPSN-28-V4	DI-320IPBN-36
DH-340SRN-MVF	DI-340IPSN-MVF-G	14-320IPEN-36	BX-341IPEN
DI-320IPEN-28	DI-340IPSN-MVF-V2	14-320IPEN-36-V4	DAI-380IPEN-MVF-V3
DI-320IPEN-28-V4	DI-340IPSN-MVF-V2-G	I4-320IPEN-MVF	14-320IPSN-28-V4
DI-320IPEN-MVF	DI-350IPSN-28-V4	14-320IPEN-MVF-V4	DI-380IPSN-28-G-V3
DI-320IPEN-MVF-V4	DI-350IPSN-MVF-V4	14-320IPSN-MVF-V2	DI-380IPSN-MVF-G-V3
DI-320IPSN-28	DI-380IPEN-MVF-V3	14-320IPSN-MVF-V4	DI-380IPEN-MVF-G-V3
DI-320IPSN-28-G	DI-380IPSN-28-V3	14-320IPSN-VF	DB-320WIPN
DI-320IPSN-28-V2	DI-380IPSN-MVF-V3	14-320IPSN-VF-V2	BMH-THERMAL-3
DI-320IPSN-28-V2-G	DL-340IPERN-36	14-320IPSN-VF-V4	BMH-THERMAL-7

Yongfu Road, FuyongTown, Bao'an District, Shenzhen City, China.



NVRs

NVR8-16400AN(1U)
NVR8-8200N
NVR12-32800FAN(1U)
NVR12-32800FAN-16P(2U)
NVR12-32800RFAN(2U)
NVR5-4100PXN(MM)
NVR12-8200FAN
NVR12-8200PFAN
NVR12-16400FAN(1U)
NVR12-16400PFAN(1U)
NVR5-8200PXN(MM)
NVR5-8200XN(MM)
NVR5-4100XN(MM)
NVR16-641600RFAN(2U)
NVR16-128RFAN(3U)

DVRs

SH-4050A5N-5L	SH-16200A5N-5L(1U)
SH-4050A5N-8L(MM)	SH-16200A5N-5L(1U)-V2
SH-8100A5N-2L(MM)	SH-8100A5N-8L(MM)-V2
SH-8100A5N-5L(MM)	SH-32400A5N-5L(1.5U)
SH-8100A5N-8L(MM)	SH-16200A5N-8L(1U)
SH-16200A5N-5L(MM)	SH-4050A5N-5L(MM)-V2
SH-4050A5N-5L(MM)	SH-4050A5N-8L(MM)-V2
SH-4050A5N-8L	SH-4050A5N-8L-V2
SH-4100A5N-2L(MM)	SH-8100A5N-5L(MM)-V2
SH-8100A5N-5L	SH-8100A5N-5L-V2
SH-8100A5N-8L(1U)	SH-16200A5N-5L(MM)-V2
SH-8100A5N-8L(1U)-V2	
SH-16200A5N-2L(MM)	

HD Cameras

I2-380A-28	I2-320A-28
14-380A-MVF	I4-320A-28
DAI-380A-MVF	14-320A-VF
DI-380A-28	14-320A-VF-G
DI-380A-MVF	DI-320A-28
I2-350A-28	DI-320A-VF
I4-350A-28	DI-320A-VF-G
DI-350A-28	DAI-320AU-VF
14-350A-VF	14-320AU-MVF
DI-350A-VF	DI-320AU-MVF
DI-350A-MVF	IV-390A37-V2
14-350A-MVF	DV-320AR-36
DAI-350A-MVF	BSV-320AR-36
IV-350A-37	BSV-320AR-28
DV-320AR-28	DI-33K0AB-28
	I2-33K0AB-28

PTZ

MZ-20IPM-2(IR)
I5PT-320IPMX10-P
I5PT-320IPMX4-P
Z4-25IPEN-2(IR)
Z4-25IPEN-4(IR)

Servers

OC-MS-XL(1U)
OC-MSCL-S(DT)
OC-MS-M(1U)
OC-MS-XL(1U)-V2
OC-MSCL-S(DT)-V2
OC-MSCL-S(DT)-V3

R&D Office: 11 Atir Yeda St, Kfar SABA 44643, Israel, Tel: 972-9-77417511, Fax: 972-9-7457182.

Administrative Office: Rm 102, Building B, Fuhai Technology Industrial Park,

Yongfu Road, FuyongTown, Bao'an District, Shenzhen City, China.



32CH 12MP Face Recognition NVR with alarms, RAID support, and NDAA compliance

Provision-ISR NVR12-32800RFAN(2U) is a high-performance network video recorder supporting Face Recognition and Advanced Video Analytics (DDA). The device, suitable for big-sized installations (up to 32 channels), features 16 alarm inputs + 4 alarm outputs and provides you with everything you need for a trouble-free CCTV project. All hardware components, including RAID, are validated to meet the demands for reliable high-definition surveillance. This model complies with NDAA demands and ensures that your devices are cyber-protected round the clock with the integrated Check Point Quantum IoT Nano agent that provides an advanced threat prevention layer against the common attack vectors at runtime.







































MAIN FEATURES

Video:

- Input: 32 Channel Support
- 32 Channel Standard Connection (Via RJ-45 Network Port)
- Output: HDMI1 (4K 30/60Hz, 1080P, 1280×1024), HDMI2 + VGA (1280×1024, 1080P)

Bandwidth:

- Incoming: 320Mbps
- Outgoing: 256Mbps

Decoding Support:

H.265S/H.265+/H.265/H264

Analytics:

- Camera Tampering, DDA2 With Object Classification, Line Crossing (DDA / Pixel Based), Sterile Area (DDA / Pixel Based), Object Monitoring, Loitering Detection, Illegal Parking, Audio Exception, Heat Map, Object Counting (Line), Object Counting (Area), Smart Search, Face Recognition, LPR, Thermal, Crowd Gathering, People Intrusion
- Advanced Face Recognition Mode: Supports 2 Non-Al IPCs and performs face detection and recognition.

Recording:

- 32CH 12MP Real-Time
- FPS: 800 (PAL) / 960 (NTSC)

Playback:

- Local: 16Ch Simultaneously
- Remote: 16Ch Simultaneously

Audio:

- Input: 1CH + IPC Inputs
- Output: 1CH + IPC Output
- 2 Way Audio

Alarm:

- Input: 16+IPC
- Output: 4+IPC

Storage:

- 8 x SATA (Up to 10TB each)
- 2 x E-SATA (Up to 10TB each)
- RAID: (0/1/5/6/10) Support

USB Port:

• 2 USB 2.0 Port + 1 USB 3.0 Port

Network:

• 2 x RJ-45: 10/100/1000Mbps Each

Remarks

 The following features are based on firmware v1412_76576_RD_250115 and are subject to firmware version changes.





SPECIFICATIONS

3rd Party Cyber Protection			
General	Quantum IoT Nano agent by Check Point™		
Protection Methods	Shell injection protection, File Monitor, Import-Table Protection, Dynamic- Memory Protection		
NDAA Compliant	NDAA Compliant		
NDAA Compliant	Yes		
Video			
Video Input	32Ch over Network		
Output	HDMI1 (4K 30/60Hz, 1080P, 1280x1024), HDMI2 + VGA (1280x1024, 1080P)		
View Mode	Independent*, Up to 32ch on monitor1 + 9ch on monitor2		
Fish-Eye Dewarp	Local + Web		
Decoding Format	H.265 / H.265+ / H.265S / H.264		
Decoding Capabilities	1Ch – 12MP ; 4Ch – 4MP ; 9-32Ch – D1		
Audio			
Audio-specs-Input	1CH RCA (Linear, 1kΩ) + IPC inputs		
audio-specs-Output	1CH RCA (2.0 Vp-p, 1 kΩ) + IPC Outputs IP Speaker		
Compression	G.711A/G.711U		
Two Way Audio	Yes		
Analytics			
Supported Analytics	Camera Tampering, DDA2 With Object Classification, Line Crossing (DDA / Pixel Based), Sterile Area (DDA / Pixel Based), Object Monitoring, Loitering Detection, Illegal Parking, Audio Exception, Heat Map, Object Counting (Line), Object Counting (Area), Smart Search, Face Recognition, LPR, Thermal, Crowd Gathering, People Intrusion Advanced Face Recognition Mode: Supports 2 Non-Al IPCs and performs face detection and recognition.		
Analytics Channels (IPC Based)	32Ch (requires supporting IPC)		
Analytic Channels (NVR Based)	Up to 2Ch DDA1 (Sterile Area/Line Crossing) or Up to 2Ch Face Detection + Recognition or Up to 6Ch Face Recognition (IPC does Detection) (or their combinations)		
Face Recognition Rate	18 Faces per second (6Ch supported)		
Bandwidth			
Incoming	320Mbps		



Outgoing	256Mbps
Record/ Main Stream	
Real-Time Recording	32CH 12MP Real-Time
Record Type	Video / Video + Audio
Recording Modes	Schedule, Manual, Motion, Sensor, Analytics, POS, and all of its combinations
16MP	N/A
12MP	960FPS(NTSC)/800FPS(PAL)
8MP	960FPS(NTSC)/800FPS(PAL)
5MP and lower	960FPS(NTSC)/800FPS(PAL)
Master stream over network	Up to 32CH@Recording Resolution
Substream	
Resolution substream	Depends on IPC
Remote view	
Max Channel View	160Ch (Limited to Outgoing Bandwidth Capacity)
Remote Applications	
User Access	128 Users online with Professional Autorithy Management
Mobile App	Provision Cam2 for iOS/Android
PC/Mac Software	Ossia VMS Standard / Enterprise
Plug-in free Web-Browser	Chrome, FireFox, Safari, Edge, Opera. (All Limited to 4Ch Live View / Playback) *P2P WEB connetion always requires Plugin
Plug-in free Web-Browser Plug-in based Web-Browser	
	*P2P WEB connetion always requires Plugin
Plug-in based Web-Browser	*P2P WEB connetion always requires Plugin
Plug-in based Web-Browser Playback	*P2P WEB connetion always requires Plugin Internet Exporer



Search Mode	DDA Object, Smart Search, LPR, Face Recognition, Time-Slice, Time, Event, POS
Backup	
USB	2 USB 2.0 Port + 1 USB 3.0 Port
Backup Format	AVI (Unencrypted) / Private Format (Encrypted / Unencrypted)
Alarm	
Alarm-in	16+IPC
Alarm-out	4+IPC
Storage	
HDD	8
E-Sata Support	2
RAID	Yes (0/1/5/6/10)
PTZ	
Connection	via Network
Supported Controls	Pan, Tilt, Zoom, Preset, Cruise, Scan, Iris, Focus
RS-485	Yes (C06 Keyboard Connection)
Network	
Ethernet	2x1000/100/10Mbps self-adaptive Ethernet interface with Fault Tolerance / Dual Network Configuration
Protocols	TCP/IPv4/IPv6, DHCP, DDNS, NTP, SMTP, SSL/TLS, UPnP, P2P, RTSP, FTP, HTTPS, 820.1X, SNMP, Auto Report Input + Output (Ossia VMS)
ONVIF	Full Device Support (Profile T/G, ONVIF Version 20.12)
PoE	
PoE Ports	N/A
Speed	N/A
Standard	N/A



CCTV Mode	N/A
Total Power	N/A
Max. Power Output (Per Ch.)	N/A

Others	
Power Supply	AC100/240V
Power consumption (No HDD)	30W
Dimension	W445xD436xH90mm
Operation Temperature	0°C~50°C

Main Features	Channels: 32 over Network Video output: HDMI1 (4K, 1080P, 1280X1024), HDMI2+VGA (1080P, 1280X1024) 32CH per monitor Max. Recording: 32CH 12MP 20FPS, 32CH 8MP real-time HDD: 8 SATA (10TB each) with Smart Management RAID Support Alarms: 16 in / 4 out (+ IPC inputs/outputs) Audio: 1 in / 1 out (+ IPC inputs/outputs) Video Analytics: Yes (Must be supported by IPC) DDA, Face recognition, LPR, and Fish-Eye support
Video Output	2xHDMI+VGA



DIMENSIONS







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Check Point Software Partners with Provision-ISR to Provide on-device IoT Security for Video Surveillance Solutions

New partnership will see Check Point IoT nano technology embedded in Provision-ISR's video surveillance devices making them the industry's best secure CCTV cameras

SAN CARLOS (CA) and TEL AVIV (IL) — April 19th, 2022 — Check Point® Software Technologies Ltd. (NASDAQ: CHKP), a leading provider of cyber security solutions globally, has announced it is partnering with an international CCTV market leader Provision-ISR (Israel). The partnership will involve Check Point Quantum IoT Protect Nano Agent being embedded in Provision-ISR's CCTV cameras for on-device runtime protection against zero-day attacks. The solution brings an entirely new level of cybersecurity to the video surveillance market.

CCTV plays an integral role in keeping people and organizations safe, everywhere from transport hubs to retail, banks, and critical infrastructure. According to cctv.co.uk, there are about 691,000 CCTV cameras in London. As surveillance video is increasingly IoT connected, unfortunately, these devices are prime targets for cybercriminals. Nano Agent is an embedded runtime protection solution that provides built-in security against attacks such as access control, memory corruption, shell injection, import table hijacking, control flow hijacking, and more. It guarantees 100% firmware coverage, including third party components, without compromising the device's performance.

Modern CCTV cameras are essentially functioning as small computers that run operating systems, applications, have various networks and radio frequency (RF) interfaces. As such, they are also susceptible to hacking attacks. One of the biggest issues is that end-users will often keep the default usernames and passwords, essentially leaving the door open for hackers. Even with a strong password, traditional CCTV cameras are not supplied with adequate on-board security. But why even hack a CCTV camera? Criminals may wish to gain access to the camera's controls, to turn it off, point it in a different direction, and manipulate images and associated information or just to watch the activity covered by the camera. In addition, as a network device, once hacked, it can be used to gain access to sensitive resources on the corporate network via lateral movement, where cybercriminals can then exploit vulnerabilities and deploy botnets or crypto miners.

Ami Finer, VP Sales at Provision-ISR commented, "On a global scale, even the companies with the most considerable market share have been proven to have crucial vulnerabilities. This is because IP cameras have limited processing power, leaving little room for traditional security software. At Provision-ISR, we want to lead from the front with 100% secure CCTV devices that will give customers peace of mind. To do that, we needed an optimized threat solution with an extremely small footprint that would also be completely reliable. This is where Check Point comes in. From uncovering firmware security risks, hardening the devices with runtime protection, and managing devices with granular policies, we now have a robust end-to-end security solution."

Oded Gonda, VP Technology & Innovation at Check Point Software says, "The expanding threat landscape is making it an absolute must to protect IoT devices from cyberattacks. And the technology is available to do it. From IP cameras, such as Provision-ISR's, to routers, medical devices and industrial controllers, Quantum IoT Protect provides on-device runtime protection against even the most sophisticated fifth generation cyberattacks – serving as a powerful line of defense for all IoT devices."

Availability

Launching at IFSEC International 2022, May 17-19, Check Point Quantum IoT Protect Nano Agent will be integrated into Provision-ISR's product lines. The protection is automatic and does not require any configuration or setup.

Follow Check Point via:

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About Check Point Software Technologies Ltd.

Check Point Software Technologies Ltd. (www.checkpoint.com) is a leading provider of cyber security solutions to corporate enterprises and governments globally. Check Point Infinity's portfolio of solutions protects enterprises and public organisations from 5th generation cyber-attacks with an industry leading catch rate of malware, ransomware and other threats. Infinity comprises three core pillars delivering uncompromised security and generation V threat prevention across enterprise environments: Check Point Harmony, for remote users; Check Point CloudGuard, to automatically secure clouds; and Check Point Quantum, to protect network perimeters and datacenters, all controlled by the industry's most comprehensive, intuitive unified security management. Check Point protects over 100,000 organizations of all sizes.

About Provision-ISR

PROVISION-ISR (<u>www.provision-isr.com</u>) is the Israeli CCTV market leader, providing high value to security professionals through a global partners network. Since its foundation, Israel has come to excel in the homeland security arena: many Israeli security manufacturers hail from various specialties, including emergency management, cyber-security, intelligence, critical infrastructure protection, smart cities, and, in case of Provision-ISR, leading-edge CCTV solutions. Today Provision-ISR serves more than 40 countries

worldwide with branches and official exclusive distributors, who are working as partners to promote the Bran in their countries.



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«07» May, 2024

TO WHOM SO EVER IT MAY CONCERN

MANUFACTURER'S AUTHORIZATION

We, "TISO-Production" Ltd. (hereinafter referred to as TiSO), established and operating in Ukraine, manufacturer of turnstiles and high-security road blocking equipment, pleased to certify that "Media-Security" SRL, located in Moldova is our official partner in part of STAR-GS turnstiles supply to Parliament of the Republic of Moldova.

"Media-Security" SRL responsibilities under the project cover supply, installation, maintenance, warranty and post-warranty support.

Authorization is valid until December 31, 2024.

Yours sincerely,

Victor Goncharent

Director General

"TiSO-Production" LTD.