WatchNET®
Security Since 2000

Message from the President

Watch_NET_ is a leading manufacturer and supplier of quality video and surveillance equipment. Since our founding in 2000, we have been providing highly developed, competitively priced, digital video solutions. With our dedication to quality and attentive customer service, **Watch**_NET_ has excelled in developing cutting-edge products that take conventional security to a new level.

Watch_NET_ is a global company with locations in Canada, the US, India and the UAE. With ongoing expansion in the US and UAE, **Watch**_NET_ now has more than 30,000 square feet of stocked and functional office facilities. Coupled with numerous partnerships across the globe, **Watch**_NET_ has become a truly international solution provider.

New to **Watch**_NET's_ product offering is Access Control. Years of research and development, and market studies enabled **Watch**_NET_ to bring access control solutions that are truly outstanding and capable of providing single door to enterprise level security with video and intrusion integration.

Watch_NET_ offers new technologically advanced products in 2019, including NVR and Hybrid Video recording technology combined with smart cameras offering the highest resolution available in Analog and Network video recording.

Watch_NET_ takes great pride in maintaining a team-based work environment. Our clients are drawn to us, because of our commitment to delivering quality solutions as well as our superior customer service.

Having built our reputation on dedication to our clients, **Watch**_NET_ remains committed to customer satisfaction. At **Watch**_NET_, we understand that quality products and reliable service and support are the exact ingredients for success in a competitive security market. With this in mind, we at **Watch**_NET_ strive to conduct our business with integrity as we continue to deliver the quality of product and support that has been our recipe for success.

Watch_NET_ has a great bond with all our customers. In fact, I would go as far to say a **Watch**_NET_ client is much more than a customer, but also a friend!

Alex Thomas
President & CEO

INDEX:

CANADA

USA

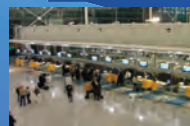Law Enforcement
Manufacturing
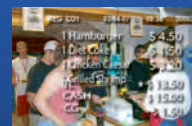Banking
Commercial
Airport
Retail

Corporate offices

CANADA   USA   UAE

ENTERPRISE CLASS INTEGRATED SECURITY SOLUTION

FROM A SINGLE SOURCE

MIDDLE EAST

Send us your next CCTV or Access Control Project Specifications and let our team of Project Managers design your next Project.

Defense

Transportation

Educational

Port Security

School District

HD Project oriented redundant video recording and storage server

Dual controller architecture for SAS interface, ensures system reliability with cost effectiveness, high performance and maximum data retention

IPVR-24R / IPVR-24DR / IPVR-48R / IPVR-48DR

Customized system design available for projects

- 64-bit high-performance multi-core processors, ensures data processing stability
- Modular, pull-out, cableless design
- Support SAS multiple cascade
- Built-in 24 HDD trays in single device and expandable to 240 HDDs, capacity up to maximum 1440TB
- Hi Speed 10-1000Mbps Ethernet port and 4 X Ultra high speed 10000Mbps Ethernet ports
- Supports 3.5 inch, 2.5inch SAS/SATA (1T, 2T, 3T, 4T, 6T)
- Supports mixed different capacity HDDs
- Hot swappable HDD trays
- IPVR-24R (Single controller 24 bay) / IPVR-24DR (Dual controller 24 bay)

- Supports standard iSCSI protocol storage and video stream direct storage
- 1536Mbps video storage bandwidth
- Modular, pull-out, cableless design
- Supports SAS multiple cascade
- Supports RAID 0, 1, 5, 6, 10, 50, 60, JBOD, hot standby
- ONVIF and GB28181 protocol support for multiple camera manufacturers
- Easy WEB configuration and setup, no software needed
- Hardware watchdog for self monitoring components
- Watch*NET* VMS can manage video and recording
- Hot swappable HDD trays
- IPVR-48R (Single controller 48 bay) / IPVR-48DR (Dual controller 48 bay)

IPVS-24R / IPVS-24DR / IPVS-48R

- Modular, pull-out, cableless design
- Supports 6TB HDDs
- Hot swappable HDD trays
- Supports online replacement, online expansion
- All modular hardware design
- IPVS-24R (Single controller 24 bay) / IPVS-24DR (Dual controller 24 bay)

- Supports expansion device cascade with redundancy
- 24 SATA hot-swappable slot
- Hot swappable HDD trays
- Redundant fans and redundant power supply, for 7x24-hour uninterrupted performance
- IPVS-48R (Single controller 48 bay)

Illustration of scalable architecture for SAS interface, with dual controller, NVR and storage units

- The Watch*NET* NVR storage unit is an integral component of the Enterprise video management solution. It can be scaled from a single camera to thousands of cameras. High performance and reliability of the storage unit makes it an ideal solution in installations of todays' demanding redundancy and storage solution.

- Watch*NET* provides High end processors and a RAID enclosure in one easy hot swappable pull-out chassis, resulting in both space and cost savings. RAID 0, 1, 5, 6, 10, 50, 60 and JBOD, support is available through a hardware-based RAID controller that removes the loading on the processor.

- A convenient web browser interface is used to manage the RAID controller and configuration of the NVR, without any software required to be installed on client computer.

- Dual controller configuration has the primary system in operation with the other controller providing backup for redundant data storage. If the primary system detects and issue, the back-up system is activated immediately, allowing the NVR to record in a continuous manner. The switch-over to the secondary system is automatic with self-adaptive 10M/100M/1000M network interfaces.

- With functionalities such as load balancing and network fault tolerance, the IPVR-24DR is capable of handling large video bandwidth to provide smooth recording and playback .

- Watch*NET* professional VMS can manage live and recorded video and also display multiple screens and virtual matrix.
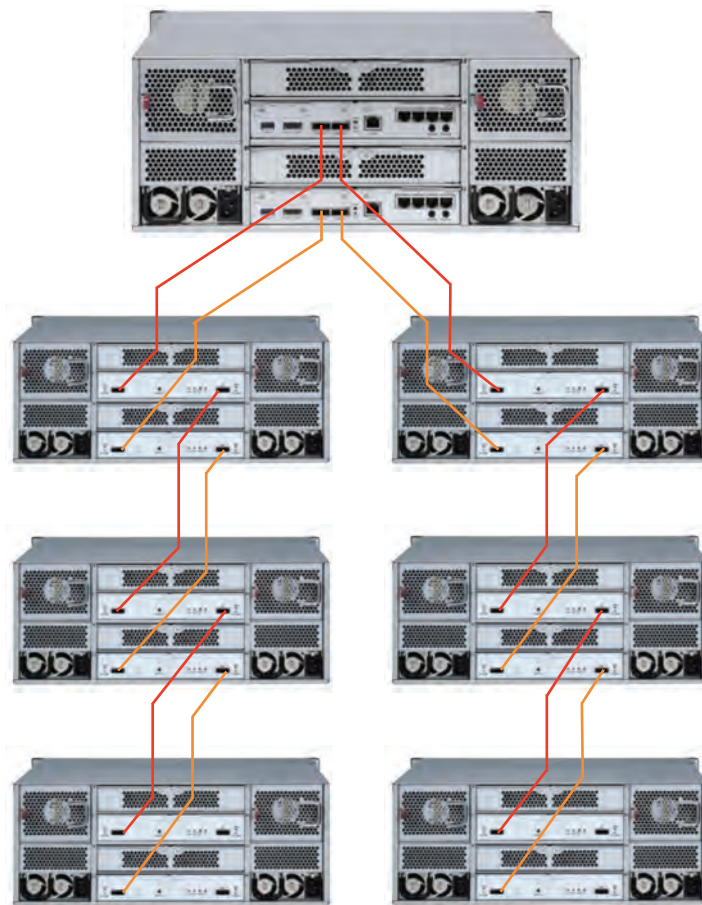
Scalable architecture with multiple options for video storage expansion
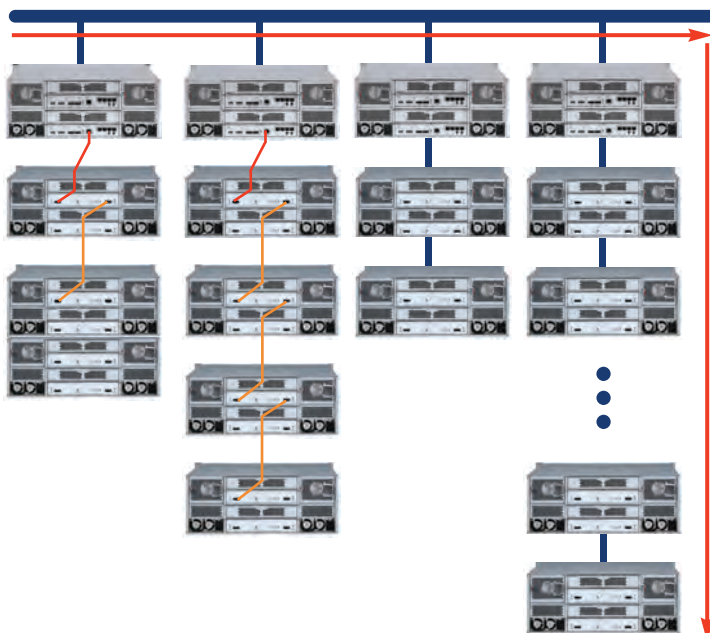
- Watch*NET* IPVS-series Video Storage provides maximum scalability to meet enterprise level requirements for video surveillance storage. Supports 48 hot-swappable SATA 6TB HDDs in a 19U standard rack-mount.

- Users can expand to unlimited units of storage as required.

- Provides high performance fault-tolerant data protection mechanisms and protection of clients' data security, supporting various data protection modes such as RAID 0,1, 5, 6,10, 50, 60 and JBOD.

- WEB based system configuration is used for easy setup, no additional software required to be installed.

  Watch*NET* NVR Recording resilience is enhanced further, with features:
- Redundant Power supplies and fans
- Dual controller
- Hot Standby
- Multiple RAID configurations
- MSAS and iSCSI interface

NVR Storage Servers

Watch*NET* **Enterprise class NVR (Network Video Recorder) and video management systems are industry-leading, enterprise class, digital video surveillance solutions. These NVRs are built on best-in-class components that provide the flexibility and scalability needed to design a video system suited to a variety of end user applications. The Watch*NET* total solution offers all the components of a reliable video surveillance solution such as cameras, encoders, management software, servers, workstations, and extended video storage.**

ENX-256HDR2

• 4U 24 HDD NVR
• Support Hot-swap, 7-inch HD LCD
  (1920 x 1080, 1280 x 1024)
• Artificial Intelligence (with AI camera)
• Max 450Mbps incoming bandwidth
• 256 Channel IP video access
• Supports RAID 0/1/5/6/10
• SAS3.0 for storage extension

• Optional 4 Giga Optical Fiber Interface
• 3 HDMI / 1 VGA video output
• H.265 / H.264 / MJPEG / MPEG4
• Hot-swap, Redundant power supply
• ONVIF cameras integration
• 24 SAS/SATA HDDs,
  Up to 10 TB capacity for each HDD,
  Independent HDD bracket, hot-swap

COMMON FEATURES
• Linux Embedded Enterprise Class NVR
• Simultaneous record, playback, live view, archive,
  or transmission of digital video
• Dual / Quad Gigabit Ethernet ports (Model dependant)
• SCSI or SAS (Serial Attached SCSI) host bus adapter (HBA)
  for external storage connectivity
• 2 HDMI, 1 VGA (Default: 2 HDMI+1VGA)
  (Optional: 6 HDMI sync output / 1 VGA+5 HDMI sync output)
• Network download / USB HDD / eSATA Device
• 4 USB ports (2 USB2.0 on front-panel, 2 USB3.0 on rear-panel)
• 4 customized zones for privacy masking for each area
• Easy Local GUI & WEB GUI with mouse control
• Smart Phone and Web Access
• ONVIF cameras integration
• Supported by Watch*NET* VMS

ENX-256HD2

• Intel Quad-core Processor
• Max 450Mbps incoming bandwidth
• SAS3.0 for storage extension
• Support 24 hot-swap HDDs / RAID 0/1/5/6/10
• 3 HDMI/1VGA video output
• AI Analytics support
  (Face detection & Recognition with use of AI camera)

ENX-128HD

E498424

• Intel Quad-core Processor
• 2x Gigabit Optical Fiber Interface
• Max 384Mbps Incoming Bandwidth
• Support 16 hot-swap HDDs / RAID 0/1/5/10
• 2 HDMI (up to 3840 x 2160, Different Source), 1 VGA
• 4 USB ports (2 USB2.0 on front-panel, 2 USB3.0 on rear panel)
• 16 SATA III Ports, Up to 8 TB capacity for each HDD

Supports multiple analytic functions

EN-644K - 2U Rack mountable NVR

E498424

• Dual Core high performance processor
• 32ch@1080P, 64ch@720P realtime recording
• 4 USB Ports (2 USB 2.0, 2 USB 3.0)
• Support 8 built-in HDDs / RAID 0/1/5/10
• High bandwidth up to 384Mbps bitrate
• 4K compatible up to 12MP
• Alarm Input & Relay Output - 16x8
• Expandable storage up to 48TB using **WN-ESS08A**

ENX-SAS24 - Expansion Storage Unit

ENX-SAS24

Model ENX-SAS24
• 4U (24x6TB), 144TB e-SATA storage
• Compatible with ENX-128HD & ENX-256HD

A Professional Video Management System integrating all Watch*NET* products including IP, Analog and XVi for Cameras, NVRs and Servers

Watch*NET* VMS provides the industry's best solution with rich and professional functions:

Supports interoperability for all Watch*NET* IP / Analog camera, NVR, XVi and Video Storage

Supports unlimited IP camera connections by multiple VMS Clients

Supports SQL Database to centralize security management information

Versatile live monitoring modes supporting eMap multi-monitor, unlimited floating windows for multiple user views, Event Popup and Auto-Switching

Support up to 256 Virtual Matrix & Video Notifications with decentralizing network bandwidth and centralizing security management

Supports Mobility work style with user group and user account with switching users to share space with security

Digital PTZ, Digital Zoom and Magnifier

Auto pop-up and thumb-nail for snapshot and backup

System event popup for network disconnection, disk failure, system down

Integrates Fish-Eye and Video Analytics cameras

Supports Video Duplicating with the similar effect of Multi-cast networking

IP Cameras

MPIX-21VDF-IR282C

2.1 MegaPixel

SENSEFIER Ultra low light enhancement

ONVIF PoE Power over Ethernet

Optional Brackets:

BRACK-PM-06   BRACK-BB-48   BRACK-WM-48

2x2MP IR Mini Dome Network Camera

• 1/2.8" 4MP progressive scan Aptina CMOS
• 2.8mm fixed focal lens
• Max. IR length 20m/66ft
• 25/30fps@2M(1920×1080)s
• WDR(120dB), Day/Night(ICR), 3DNR
• Micro SD card, Max 128GB
• DC12V, PoE (802.3af)(Class 0)
• IP67, IK10, PoE
• Operating Temperature: -30°C ~ +60°C
                        -22°F ~ +140°F

Intelligence Functions(Non AI):
  - Line Crossing, Intrusion, Object
     Abandoned/Missing
  - Face Detection

PoE | WDR | IK10 | Micro SD | 🎤 | IR | IP67

MPIX-21IRBFTL

2.1 MegaPixel

SENSEFIER Ultra low light enhancement

ONVIF PoE Power over Ethernet

Optional Brackets:

BRACK-WM-49   BRACK-BB-43   BRACK-PM-06

2.1MP WDR IR Turret Camera

• 1/2.8" 2.1MP progressive scan CMOS
• 2.8mm fixed lens
• Max. IR LEDs Length 30m/98ft
• Ultra Low Light Enhancement
• H.265 & H.264 double encoding
• 12V DC/PoE power support
• WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
• Micro SD memory slot up to 256GB, IP67, PoE
• Operating Temperature: -40°C ~ +60°C
                        -40°F ~ +140°F
• **Supports standard analytic functions:**
  Line Crossing, Intrusion

WDR | IP67 | Day / Night | H.265 | Micro SD | PoE

MPIX-LPR1050

2 MegaPixel

LPR

AC24V
DC12V

PoE Power over Ethernet

2MP IR Long Range License Plate Camera

• 2MP, 1/1.8" CMOS image sensor
• **LPR Capture Range: 8m - 30m (26.25ft-98.43ft)**
• **Detected Lane Width 6m - 7m (19.69ft–22.97ft)**
• **Max Speed that the Camera Detects:**
  60 km/h/37.28mil/h
• Video compression standards:
  H.265/H.264M/H.264H/H.264B/MJPEG
• Max. IR distance: 30m (98.43ft)
• 12V DC, 24V AC, PoE+
• Lens: 10mm - 50mm
• Audio Input: 1-channel RCA port
• Audio Output: 1-channel RCA port
• Operating Temperature: -30°C ~ +66°C
                        -22°F ~ +149°F

IP67 | WDR | Micro SD | Metadata | LPR | PoE+

MPIX-21VDF-IR28R2

Onvif **PoE** Power over Ethernet

Optional Brackets:

BRACK-BB-44   BRACK-WM-48   BRACK-PM-06

2.1MP HD IR Network Camera

• 1/2.8" 2.1MP progressive scan CMOS
• 2.8mm fixed lens
• Max. IR LEDs length 30m/98ft
• Output max. 2MP (1920 × 1080) @25/30 fps
• D-WDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
• IP67, IK10, PoE
• Smart H.265+ / Smart H.264+
• iPhone and Android Support
• Operating Temperature: -40°C ~ +60°C
                          -40°F ~ +140°F

IK10 D-WDR IP67 Day / Night H.264 PoE

DB11   2MP WiFi Video Doorbell

Mic. Speaker WiFi Micro SD H.264 IP55 PIR Detection

• 1/2.7" 2MP Progressive-scan CMOS Sensor
• 2.4 GHz, IEEE802.11b/g/n, 100m (328ft) Open Field WiFi
• H.264 Video Compression
• 2 MP at 30 fps Maximum Resolution
• 1.9 mm Fixed Lens
• Built-in Microphone & Speaker for Real-time Communication
• PIR Detection
• Maximum IR LED Length 5.0m (16.50ft)

WiN Watch*NET* Exclusive Partner Program

❖ **Sign UP today for exclusive dealer pricing**
❖ **Warranty term benefits**
❖ **Demo equipment purchase plan**
❖ **Ask your local representative on how
   to sign up today!**

IP Cameras

IP Cameras

MPIX-40LEDT-NPC28AI

4 MegaPixel

Abandoned Object · Ultra WDR · IP67 · Micro SD · Face Capture · Line Crossing · People Counting

Night Pixel Color

Onvif   PoE Power over Ethernet

Optional Brackets:

BRACK-WM-49   BRACK-BB-43   BRACK-PM-06

4MP Ultra WDR Turret AI Network Camera
• 1/1.8" 4Megapixel progressive scan CMOS
• H.265 & H.264 triple-stream encoding
• 25/30 fps@2688x1520, 50/60 fps@1080 (1920x1080)
• Ultra WDR(140dB), Day/Night (ICR), 3D DNR,
  AWB, AGC, BLC
• 2.8mm fixed lens
• LED Illuminating light source (Not IR), 40m/132ft
• Micro SD memory, IP67, built-in MIC, PoE
• Smart phones compatible
• Supports DC 12V (±30%), PoE (802.3af) (Class 0)
• Operating Conditions: -30°C ~ +60°C
                        -22°F ~ +140°F

AI Functions:
  - **Face Capture (Detect & Recognition with attributes)**
  - **Fenced Area protection**
  - **People Counting Functions**
  - **Line Crossing (Person & Vehicle Classification)**

MPIX-40VDF-NPC36AI

4 MegaPixel

IK10 · Ultra WDR · IP67 · Micro SD · Face Capture · Line Crossing · People Counting · Abandoned Object

Night Pixel Color

Onvif   PoE Power over Ethernet

Optional Brackets:

BRACK-WM-48   BRACK-BB-48   BRACK-PM-06

4MP Ultra WDR Dome AI Network Camera
• 1/1.8" 4Megapixel progressive scan CMOS
• H.265 & H.264 triple-stream encoding
• 25/30 fps@2688x1520, 50/60 fps@1080 (1920x1080)
• Ultra WDR(140dB), Day/Night (ICR), 3D DNR,
  AWB, AGC, BLC
• 3.6mm fixed lens
• 1/1 Alarm in/out, 1/1 audio in/out
• Micro SD memory, IP67, IK10, PoE
• Smart phones compatible
• Supports DC 12V (±30%), PoE (802.3af) (Class 0)
• Operating Conditions: -30°C ~ +60°C
                        -22°F ~ +140°F

AI Functions:
  - **Face Capture (Detect & Recognition with attributes)**
  - **Fenced Area protection**
  - **People Counting Functions**
  - **Line Crossing (Person & Vehicle Classification)**

MPIX-40VDF-IR282CAI

4 MegaPixel

SENSEPIER
Ultra low light enhancement

Onvif   PoE Power over Ethernet

Optional Brackets:

BRACK-PM-06   BRACK-BB-48   BRACK-WM-48

2x4MP Dual-Directional No-Splicing AI Camera
• 1/2.7" 4MP progressive scan CMOS
• 2.8mm fixed focal lens
• Max. IR length 30m/98ft
• WDR(120dB), Day/Night(ICR), 3DNR
• Micro SD card, Max 256GB
• Power Supply 12 VDC/PoE
• IP67, IK10, PoE
• Operating Temperature: -40°C ~ +60°C
                         -40°F ~ +140°F

AI Functions:
  - **Face Detection**
  - **Fenced Area protection**
  - **People Counting Functions**
  - **Line Crossing**
    (Person & Vehicle Classification)

AI Motion · Face Detection · IK10 · Micro SD · Line Crossing · IP67

MPIX-40VDV-IRVR2

4
MegaPixel

Optional Brackets:

BRACK-WM-48   BRACK-BB-48   BRACK-PM-06

SENSEFIER
Ultra low light enhancement

Motorized

Remote Zoom & Focus Lens

ONVIF   **PoE**
Power over Ethernet

4MP WDR IR Network Camera
• 1/3" 4MP progressive scan CMOS
• 2.7mm – 13.5mm motorized lens
• Max. IR LEDs length 40m/131ft
• 20fps@4MP(2560×1440)
  & 25/30fps@3M(2304×1296)
• WDR(120dB), Day/Night(ICR),
  3DNR, AWB, AGC, BLC
• H.265+ & H.264 dual-stream encoding
• Micro SD card slot, up to 256GB, IP67, IK10, PoE
• Multiple network monitoring:
  Built-in web server & Multifunction VMS
• Three Axis
• Operating Temperature: -30°C ~ +60°C
                          -22°F ~ +140°F

IR | WDR | IP67 | H.265 | IK10 | Motorized Lens | Micro SD

MPIX-40BIR-K28R2

4
MegaPixel

SENSEFIER
Ultra low light enhancement

ONVIF   **PoE**
Power over Ethernet

4MP IR Network Bullet Camera
• 1/3" 4MP progressive scan CMOS
• 2.8 mm fixed lens
• Max. IR LEDs length 30m/98ft
• Output 4MP (2560 × 1440)@25/30fps,
  Max. supports 4MP (2688 × 1520)@20fps
• H.265 & H.264 dual-stream encoding
• WDR(120dB), Day/Night(ICR), 3DNR, HLC, AGC, BLC
• IP67, PoE, Supports DC12V power supply
• Operating Temperature: -40°C ~ +60°C
                          -40°F ~ +140°F
• **Supports standard analytic functions:**
  Line Crossing, Intrusion

IR | WDR | IP67 | H.264 | Micro SD | PoE

MPIX-40SPHAI

AI
WatchNET

4
MegaPixel

SENSEFIER
Ultra low light enhancement

KIT

ONVIF   **PoE**
Power over Ethernet

4MP Covert Pinhole Network Camera - KIT
• 1/2.7" 4MP progressive scan CMOS
• 2.8mm fixed focal lens
• WDR(120dB), Day/Night, 3DNR
• Micro SD card, Max 256GB
• Power Supply 12V DC/PoE (802.3af)
• Audio I/O: 1/1; Alarm I/O: 2/2
• Operating Temperature: -40°C ~ +60°C
                          -40°F ~ +140°F
AI Functions:
  - **Fenced Area protection**
  - **Face Detection**
  - **Line Crossing**
    (Person & Vehicle Classification)

Line Crossing | Face Detection | Face Attributes | Intrusion | Micro SD | Abandoned Object | Missing Object

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IP Cameras

MPIX-50VDF-IR28AI2W

5 MegaPixel

SENSEFIER Ultra low light enhancement

Active Deterrence

AUDIO 2 WAY

Optional Brackets:

BRACK-WM-48   BRACK-BB-48

Mic. Speaker | IP67 | WDR | IK10 | Micro SD | Line Crossing | Face Detection | Missing Object | Abandoned Object | Heat Map | People Counting

ONVIF   PoE Power over Ethernet

5MP AI IR Fixed focal Dome Network Camera

- 1/2.7" 5Megapixel progressive scan CMOS
- 2.8mm fixed lens
- Output max. 5MP (2592 × 1944)@20fps
- WDR(120dB), Day/Night (ICR), 3D DNR, HLC, BLC
- Max. IR LEDs Length 30m/98ft
- Micro SD memory card up to 256GB, IP67, IK10
- Supports 12V DC/PoE
- Alarm I/O: 1/1; Audio I/O: 1/1
- Built-in Mic and speaker
- Operating Conditions: -40°C ~ +60°C
               -40°F ~ +140°F
- Supports iPhone, Android
- **Intelligent detection:**
  Fenced area protection, line crossing, fast moving (the three functions support the classification and accurate detection of vehicle and human), abandoned object, missing object, loitering detection, gathering, parking detection, heat map and face detection

MPIX-50VDV-IRVAI

5 MegaPixel

AI Motion

ONVIF   PoE Power over Ethernet

Optional Brackets:

BRACK-WM-48   BRACK-BB-48   BRACK-PM-06

WDR | IP67 | Micro SD | Intrusion | Line Crossing | AI Motion

5MP AI IR Vari-focal Dome Network Camera

- 1/2.7" 5Megapixel progressive scan CMOS
- H.265 codec, high compression rate, low bit rate
- Output max. 5MP (2592 × 1944)@20fps
- WDR(120dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- Motorized vari-focal 2.7 mm–13.5 mm
- Max. IR LEDs Length 40m/131ft
- Micro SD memory, IP67, PoE, IK10
- Smart phones compatible
- Supports 12V DC/PoE (802.3af)
- Operating Conditions: -30°C ~ +60°C
               -22°F ~ +140°F

AI Functions:
  - **Fenced Area protection**
  - **AI Motion Detection**
  - **Line Crossing (Person & Vehicle Classification)**

MPIX-50VDF-IR28AI

5 MegaPixel

AI Motion

ONVIF   PoE Power over Ethernet

Optional Brackets:

BRACK-WM-48   BRACK-BB-44   BRACK-PM-06

WDR | IP67 | Micro SD | Intrusion | Line Crossing | AI Motion

5MP AI IR Fixed focal Dome Network Camera

- 1/2.7" 5Megapixel progressive scan CMOS
- H.265 codec, high compression rate, low bit rate
- Output max. 5MP (2592 × 1944)@20fps
- WDR(120dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- 2.8mm fixed lens
- Max. IR LEDs Length 50m/164ft
- Micro SD memory, IP67, PoE, IK10
- Supports 12V DC/PoE (802.3af)
- Operating Conditions: -40°C ~ +60°C
               -40°F ~ +140°F
- Supports iPhone, Android

AI Functions:
  - **Fenced Area protection**
  - **AI Motion Detection**
  - **Line Crossing (Person & Vehicle Classification)**

IP Cameras

MPIX-50IRBFT-IR28AI

5 MegaPixel

WDR | IP67 | Micro SD | Intrusion | Line Crossing | AI Motion

Onvif | PoE Power over Ethernet

Optional Brackets:

BRACK-WM-49 | BRACK-BB-43 | BRACK-PM-06

5MP AI IR Fixed focal Turret Network Camera

• 1/2.7" 5Megapixel progressive scan CMOS
• H.265 codec, high compression rate, low bit rate
• Output max. 5MP (2592 × 1944)@20fps
• WDR(120dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
• 2.8mm fixed lens
• Max. IR LEDs Length 50m/164ft
• Micro SD memory, IP67, PoE, built-in MIC
• Supports 12V DC/PoE (802.3af)
• Operating Conditions: -40°C ~ +60°C
　　　　　　　　　　　-40°F ~ +140°F
• Supports iPhone, Android

AI Functions:
　- **Fenced Area protection**
　- **AI Motion Detection**
　- **Line Crossing (Person & Vehicle Classification)**

MPIX-50IRBFT-IR28AI-B

5 MegaPixel

WDR | IP67 | Micro SD | Intrusion | Line Crossing | AI Motion

Onvif | PoE Power over Ethernet

Optional Brackets:

BRACK-WM-49B | BRACK-BB-43B

BRACK-PM-06

5MP AI IR Fixed focal Turret Network Camera

• 1/2.7" 5Megapixel progressive scan CMOS
• H.265 codec, high compression rate, low bit rate
• Output max. 5MP (2592 × 1944)@20fps
• WDR(120dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
• 2.8mm fixed lens
• Max. IR LEDs Length 50m/164ft
• Micro SD memory, IP67, PoE, built-in MIC
• Supports 12V DC/PoE (802.3af)
• Operating Conditions: -40°C ~ +60°C
　　　　　　　　　　　-40°F ~ +140°F
• Supports iPhone, Android

AI Functions:
　- **Fenced Area protection**
　- **AI Motion Detection**
　- **Line Crossing (Person & Vehicle Classification)**

MPIX-50VDV-IRMLRAI

5 MegaPixel

PRO SERIES

SENSEFIER
Ultra low light enhancement

Onvif | PoE Power over Ethernet

AC24V DC12V

PoE | WDR | Missing Object | Micro SD | Line Crossing | Intrusion | Face Detection | Abandoned Object

Optional Brackets:

BRACK-WM-63 | BRACK-BB-63 | BRACK-CMT-44

5MP IR Vari-focal AI Dome Network Camera

• 1/2.7" 5MP progressive scan Aptina CMOS
• 7mm ~ 35mm motorized lens
• Max. IR length 80m/262ft
• 20 fps@2592×1944, 50/60 fps@1080P (1920×1080)
• WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
• Micro SD card, Max 256GB
• Dual Power DC 12V (±30%), AC 24V (±30%), PoE
• Smart Detection supported
• 1/1 Alarm in/out, 1/1 audio in/out
• IP67, IK10, PoE
• Operating Temperature: -30°C ~ +60°C
　　　　　　　　　　　　-22°F ~ +140°F

AI Functions:
　- **Face Detection**
　- **Fenced Area protection**
　- **People Counting**
　- **Line Crossing (Person & Vehicle Classification)**

IP Cameras

MPIX-50DF-IR28AI

SENSEFIER
Ultra low light enhancement

ONVIF | PoE Power over Ethernet

Optional Brackets:

BRPOLEMXC BRACK-PM-06 BRACK-BB-43 BRACK-WM-49

Icons: PoE | WDR | IK10 | Micro SD | Line Crossing | Intrusion | AI Motion

5MP IR Fixed AI Dome Network Camera
- 1/2.7" 5MP progressive scan Aptina CMOS
- 2.8mm fixed focal lens
- Max. IR length 30m/98.4ft
- Output max. 5MP (2592 × 1944) @20 fps
  Supports 4MP (2688 × 1520) @25/30 fps
- WDR(120dB), Day/Night(ICR), 3DNR
- Micro SD card, Max 256GB
- 12V DC/POE power supply
- IP67, IK10, PoE
- Operating Temperature: -40°C ~ +60°C
  -40°F ~ +140°F

AI Functions:
- Fenced Area protection
- AI Motion Detection
- Line Crossing (Person & Vehicle Classification)

MPIX-50VDV-IRMAI

PRO SERIES

SENSEFIER
Ultra low light enhancement

ONVIF | PoE Power over Ethernet

Optional Brackets:

BRACK-BB-63 BRACK-WM-63

AC24V / DC12V

Icons: IK10 | WDR | IP67 | Micro SD | Face Detection | Line Crossing | People Counting | Motorized Lens

5MP WDR IR Dome AI Network Camera
- 1/2.7" 4Megapixel progressive scan CMOS
- H.265+ & H.264+ triple-stream encoding
- WDR(120dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- 2.7mm - 13.0mm motorized lens
- 1/1 Alarm in/out, 1/1 audio in/out
- Max. IR LEDs Length 40m/131ft
- Micro SD memory, IP67, IK10, PoE
- DC 12V (±30%)/AC 24V (±30%)/PoE (802.3af)/PoE
- Operating Conditions: -30°C ~ +60°C
  -22°F ~ +140°F
- Power Consumption:
  Basic power consumption: 4.9W (12V DC);
  5.1W (24V AC); 5.2W (PoE)
  Max. power consumption (max. stream + intelligent function + IR LED + focus): 12.4W (12V DC);
  11.9W (24V AC); 11.6W (PoE)

AI Functions:
- Face Detection
- Fenced Area protection
- People Counting Functions
- Line Crossing (Person & Vehicle Classification)

MPIX-50BIMRAI

PRO SERIES

SENSEFIER
Ultra low light enhancement

ONVIF | PoE Power over Ethernet

Optional Bracket:

BRACK-BB-53
Wall Mount Bracket Included

Icons: WDR | IP67 | Micro SD | Face Detection | Line Crossing | People Counting | Motorized Lens

5MP WDR IR Dome AI Network Camera
- 1/2.7" 5Megapixel progressive scan CMOS
- H.265 & H.264 triple-stream encoding
- WDR (140dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC, Smart IR
- 2.7mm-13.5mm motorized lens
- 2/1 Alarm in/out, 1/1 audio in/out
- Max. IR LEDs Length 50m/164ft
- Micro SD card 256 GB, IP67, PoE
- Supports Electronic Image Stabilization (EIS)
- DC 12V (±30%), PoE (802.3af)
- Operating Conditions: -30°C ~ +60°C
  -22°F ~ +140°F
- Power Consumption: <10.9W

PRO AI Functions:
- Face Detection
- Fenced Area protection
- People Counting Functions
- Line Crossing (Person & Vehicle Classification)

MPIX-50BILRAI

5
MegaPixel

PRO SERIES

SENSEFIER
Ultra low light enhancement

Onvif **PoE** Power over Ethernet

Optional Bracket:

BRACK-BB-53

5MP WDR IR Motorized Bullet Camera

• 1/2.7" 5MP progressive scan CMOS
• 7mm–35mm motorized lens
• Max. IR LEDs length 120m/394ft
• Ultra Low Light Enhancement
• 20 fps@2592 × 1944, 50/60 fps@1080P (1920 × 1080)
• WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
• 2/1 Alarm in/out, 1/1 audio in/out
• IP67, max. 256GB Micro SD card
• Operating Temperature: -30°C ~ +60°C
　　　　　　　　　　　-22°F ~ +140°F

AI Functions:
　- **Face Detection**
　- **Fenced Area protection**
　- **People Counting**
　- **Line Crossing (Person & Vehicle Classification)**

Face Detection | WDR | IP67 | Intrusion | Line Crossing | Abandoned Object | Missing Object

MPIX-50VDF-IR28

5
MegaPixel

SENSEFIER
Ultra low light enhancement

Onvif **PoE** Power over Ethernet

Optional Brackets:

BRACK-WM-48　BRACK-BB-44　BRACK-PM-06

IK10 | WDR | IP67 | Intrusion | Line Crossing | PoE

5MP Lite IR Fixed-focal Dome Camera

• 1/2.7" 5MP progressive scan CMOS
• LENS: 2.8mm fixed lens
• Max. IR length 30m/98ft
• Output max. 5MP (2592 × 1944) @20 fps, and
  supports 2688 ×1520 (2688 × 1520) @25/30 fps
• ROI, SMART H.264+/H.265+
• WDR(120dB), Day/Night(ICR), 3DNR, AWB,
  AGC, BLC
• IP67, IK10, PoE, Max. 256 GB Micro SD card
• Supports iPhone, Android
• Operating Temperature: -40°C ~ +60°C
　　　　　　　　　　　-40°F ~ +140°F
• **Intelligent detection:**
  Intrusion, Line Crossing

PROJECTS MADE SIMPLE

Project Design & Implementation assistance to our Integrators from WatchNET Professional System Engineers

● Video
● Access Control
● Intercom
● Storage

PROJECTS
Schools
Multi Location
Hospital
Airport
Video Analytics
City Surveillance

Consultation, Design, Implementation

IP Cameras

MPIX-80BFT180LEDAI

PRO SERIES

180°

Night Pixel Color

SENSEFIER Ultra low light enhancement

ONVIF **PoE** Power over Ethernet

WDR | IP67 | Micro SD | Intrusion | Line Crossing | People Counting | Cyber Security

Optional Brackets:

BRACK-WM-48   BRACK-BB-48   BRACK-PM-06

2×4MP Full-Color Dual-Lens Splicing Network Camera

• 2x4MP 1/1.8" CMOS image sensor
• Output 180° wide angle splicing image
• Output max. 8 MP (4096 × 1800)@25 fps.
• 3.6mm fixed lens
• 1/1 Alarm in/out, 1/1 audio in/out
• Max. IR LEDs Length 40m/131.23"
• Micro SD card 512 GB, IP67, PoE
• EPTZ: Enlarge and track the targets of intelligent alarms
• 12 VDC (±30%)/PoE+ (802.3at)/ePoE
• Operating Conditions: -40°C ~ +60°C
     -40°F ~ +140°F

Intelligence:
  - **Fenced Area protection**
  - **Line Crossing; Intrusion**
· **EPTZ**
  - **People Counting**
  - **Smart Object Detection - Smart abandoned object; smart missing object**

MPIX-80IRBFTAI

SENSEFIER Ultra low light enhancement

ONVIF **PoE** Power over Ethernet

Face Attributes | IP67 | Micro SD | Intrusion | Line Crossing | Face Detection

Optional Brackets:

BRACK-WM-49   BRACK-BB-43   BRACK-PM-06

8MP IR Fixed-focal Turret Network Camera

• 1/1.8 8 Megapixel progressive scan CMOS
• Output max. 8 MP (3840× 2160) @30 fps
• Max. IR distance: 50m/164.0ft
• Rotation mode, WDR, 3D NR, HLC, BLC
• 2.8mm fixed lens
• Supports max. 256 GB Micro SD card, Built-in Mic
• Micro SD memory, IP67, PoE, built-in MIC
• 12 VDC/PoE power supply
• Operating Conditions: -40°C ~ +60°C
     -40°F ~ +140°F

Intelligence:
  - **Fenced Area protection - Line Crossing; Intrusion**
  - **Face Detection**
  - **Face Attributes**
  - **People Counting**

MPIX-80IRBVTAI

SENSEFIER Ultra low light enhancement

ONVIF **PoE** Power over Ethernet

Face Attributes | IP67 | Micro SD | Intrusion | Line Crossing | Face Detection

Optional Brackets:

BRACK-WM-48   BRACK-BB-48   BRACK-PM-06

8MP IR Vari-focal Turret Network Camera

• 1/1.8 8 Megapixel progressive scan CMOS
• Output max. 8 MP (3840× 2160) @30 fps
• Max. IR distance: 50m/164.0ft
• Rotation mode, WDR, 3D NR, HLC, BLC
• 2.7mm–12.0mm motorized lens
• Supports max. 256 GB Micro SD card, Built-in Mic
• Micro SD memory, IP67, PoE, built-in MIC
• 12 VDC/PoE power supply
• Operating Conditions: -30°C ~ +60°C
     -22°F ~ +140°F

Intelligence:
  - **Fenced Area protection - Line Crossing; Intrusion**
  - **Face Detection**
  - **Face Attributes**
  - **People Counting**

IP Cameras

MPIX-80VDF-IR28AI

8MP IR Fixed-focal Dome Network Camera

- 1/1.8 8 Megapixel progressive scan CMOS
- Output max. 8 MP (3840× 2160) @30 fps
- Max. IR distance: 50m/164.0ft
- Rotation mode, WDR, 3D NR, HLC, BLC
- 2.8mm fixed lens
- Supports max. 256 GB Micro SD card, Built-in Mic
- Micro SD memory, IP67, PoE, built-in MIC
- 12 VDC/PoE power supply
- Operating Conditions: -40°C ~ +60°C
                         -40°F ~ +140°F

Intelligence:
 - **Fenced Area protection - Line Crossing; Intrusion**
 - **Face Detection**
 - **Face Attributes**
 - **People Counting**

SENSEFIER
Ultra low light enhancement

ONVIF **PoE** Power over Ethernet

Optional Brackets:

BRACK-WM-48
Couple ONLY with back box

BRACK-BB-48

BRACK-PM-06

MPIX-80VDV-IRMAIFR

8MP IR Motorized Dome Network Camera

- 1/1.8 8 Megapixel progressive scan CMOS
- Output max. 8 MP (3840× 2160) @30 fps
- Max. IR distance: 40m/131.23ft
- Rotation mode, WDR, 3D NR, HLC, BLC
- 2.7-12 mm Motorized vari-focal
- Supports max. 256 GB Micro SD card, Built-in Mic
- Micro SD memory, IP67, PoE, built-in MIC
- 12 VDC/24 VAC/PoE+ (802.3at)
- Operating Conditions: -40°C ~ +60°C
                         -40°F ~ +140°F

AI Functions Highlights:
 - **Face Recognition**
 - **Face Detection**
 - **Fenced Area protection**
 - **People Counting Functions**
 - **Line Crossing (Person & Vehicle Classification)**
 - **PPE Protection**

PRO SERIES

SENSEFIER
Ultra low light enhancement

AC24V DC12V

ONVIF **PoE** Power over Ethernet

Optional Bracket:

BRACK-WM-63

BRACK-BB-63

IP Cameras

MPIX-80VDV-IRM

8
MegaPixel
4K

Optional Brackets:

BRACK-WM-63   BRACK-BB-63   BRACK-PM-63

PRO SERIES

SENSEFIER
Ultra low light enhancement

ONVIF   PoE
Power over Ethernet

8MP IP Vandal Proof Dome Camera
- 1/2.5" 8MP progressive scan CMOS
- 2.7mm ~ 12mm motorized lens
- Max. IR LEDs length 50m/164ft
- 15fps@4K(3840×2160), 25/30fps@3M(2304×1296)
- Ultra Low Light Enhancement
- WDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- H.265+/H.265/H.264+/H.264
- Micro SD card, Max 128GB
- 1/1 Alarm in/out, 1/1 audio in/out
- IP67, IK10, PoE+
- Built-in web server & Multifunction VMS
- Operating Temperature: -30°C ~ +60°C
                     -22°F ~ +140°F
- Supports iPhone, Android

| PoE+ | WDR | IP67 | H.265+ | IK10 | Motorized Lens | Micro SD |

MPIX-80BIMR

8
MegaPixel
4K

Optional Bracket:

BRACK-BB-53

PRO SERIES

SENSEFIER
Ultra low light enhancement

ONVIF   PoE
Power over Ethernet

8MP WDR IR Motorized Bullet Camera
- 1/2.5" 8MP progressive scan CMOS
- 2.7mm - 12mm motorized lens
- Max. IR LEDs length 50m/164ft
- H.265 & H.264 triple-stream encoding
- Ultra Low Light Enhancement
- 15fps@4K(3840×2160), 25/30fps@3M(2304×1296)
- WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- H.265 & H.264 triple-stream encoding
- IP67, PoE+, Micro SD memory card 128GB
- Multiple network monitoring:
  Built-in web server & Multifunction VMS
- Operating Temperature: -30°C ~ +60°C
                     -22°F ~ +140°F
- Supports iPhone, Android

| PoE | WDR | IP67 | H.265 | IK10 | Motorized Lens | Micro SD |

MPIX-80IRBVTR2

8
MegaPixel

SENSEFIER
Ultra low light enhancement

ONVIF   PoE
Power over Ethernet

Optional Brackets:

BRACK-WM-48   BRACK-BB-48   BRACK-PM-06

8MP WDR IR Turret Network Camera
- 1/2.7" 8MP progressive scan CMOS
- 2.7 mm–13.5 mm motorized lens
- Max. IR length 40m/131ft
- Day/Night(ICR), 3DNR, Auto Iris, AWB, AGC, BLC
- H.265 & H.264 double-stream encoding
- Ultra Low Light Enhancement
- WDR up to 120dB
- Micro SD memory 128GB, IP67, PoE
- Operating Temperature: -30°C ~ +60°C
                     -22°F ~ +140°F
- Supports iPhone, Android
- **Supports standard analytic functions:**
  Line Crossing, Intrusion

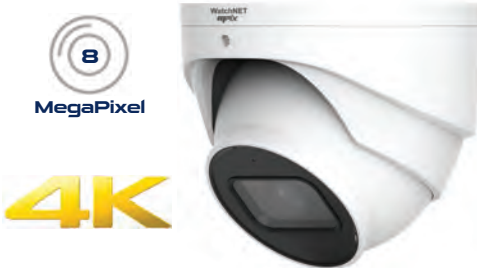| IR | WDR | IP67 | Micro SD | H.264 | H.265 | Motorized Lens |

MPIX-80VDV-IRV

8MP Lite IR Fixed-focal Dome Network Camera
• 1/2.7" 8Megapixel progressive CMOS
• Output max. 8MP (3840 × 2160) @15 fps, and supports
  2688×1520 (2688 × 1520) @25/30 fps
• WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
• 2.7 mm–13.5 mm motorized lens
• Max IR LEDs Length 40m/131.2ft
• IP67, IK10, PoE
• 12V DC/PoE power support
• Operating Temperature: -30°C ~ +60°C
                          -22°F ~ +140°F

• Supports iPhone, Android
• **Intelligent detection:**
  Intrusion, Line Crossing

SENSEFIER
Ultra low light enhancement

ONVIF PoE Power over Ethernet

Optional Brackets:

BRACK-BB-48   BRACK-WM-48   BRACK-PM-06

Intrusion | WDR | IP67 | Motorized Lens | Line Crossing | IK10

MPIX-80IRBFTL

8MP Lite IR Fixed-focal Turret Network Camera
• 1/2.7" 8Megapixel progressive scan CMOS
• 2.8mm fixed lens
• Max. IR Length 30m/98.43ft
• Output max. 8MP (3840 × 2160) @15 fps, and supports
  2688×1520 (2688 × 1520) @25/30 fps
• WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
• IP67, PoE, built-in MIC
• Micro SD slot - 256GB max
• Built-in web server & Multifunction VMS
• Operating Temperature: -40°C ~ +60°C
                          -40°F ~ +140°F

• **Intelligent detection:**
  Intrusion, Line Crossing

SENSEFIER
Ultra low light enhancement

ONVIF PoE Power over Ethernet

Optional Brackets:

BRACK-BB-43   BRACK-WM-49   BRACK-PM-06

WDR | IP67 | Micro SD | Line Crossing | Intrusion
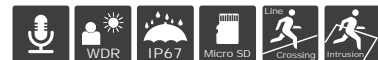
MPIX-80VDF-IR28R3

8MP WDR IR Network Dome Camera
• 1/2.7" 8Megapixel progressive CMOS
• Output max. 8MP (3840 × 2160) @15 fps,
  and supports 2688×1520 (2688 × 1520) @25/30 fps
• WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
· 2.8mm fixed lens
· Max IR LEDs Length 30m/98ft
· IP67, IK10, PoE
• 12V DC/PoE power support
• Operating Temperature: -40°C ~ +60°C
                          -40°F ~ +140°F

• Supports iPhone, Android
• **Intelligent detection:**
  Intrusion, Line Crossing

SENSEFIER
Ultra low light enhancement

ONVIF PoE Power over Ethernet

Optional Brackets:

BRACK-BB-44   BRACK-WM-48   BRACK-PM-06

Intrusion | WDR | IP67 | IR | Line Crossing | IK10

IP Cameras

MPIX-21MP4X

2.1MP Full HD 4x Network PTZ

UL LISTED
E498424

4X Optical Zoom

Optional Brackets:

BRACK-WM-48   BRACK-BB-48

• 2.7mm - 11mm (4x Optical zoom)
• Motorized Pan tilt zoom
• Max 30fps@1080p
• Built-in 2/1 alarm in/out
• WDR(120dB), Micro SD memory Max 128GB,
  IP66, IK10, PoE
  Up to 300 presets, 5 Pattern, 8 Tour,
  Auto Pan, Auto Scan
• Vandal resistance
  (IK10 for metal and polycarbonate casing)

| WDR | IP66 | Micro SD | IK10 | PoE | Day / Night |

MPIX-21MP5XIRAI

AI WatchNET

2.1MP Full HD 5x Network PTZ

SENSEFIER Ultra low light enhancement

5X Optical Zoom

Included Brackets:
Wall Mount
Deiling Mount
Pole Mount

• 2.7mm - 13.5mm (5x Optical zoom)
• SENSEFIER technology
• IR distance up to 30m/98.43ft
• Deep-learning-based fenced area protection
• IP66, Micro SD card 256GB
• Audio I/O – 1 (Built-in Mic) / 1 (Built-in Speaker)
• Power Supply – 12V DC/2A ± 10% (supports PoE)
AI Functions:
· **Fenced Area protection**
· **Line Crossing (Person & Vehicle Classification)**

| D-WDR | IP66 | Micro SD | Intrusion | Line Crossing | Mic. Speaker | H.265+ |

MPIX-21MP25XIRAIR2

AI WatchNET

2.1MP IR HD 25x Network PTZ

SENSEFIER Ultra low light enhancement

PRO SERIES

25X Optical Zoom

• 4.8 mm–120 mm (25x Optical zoom)
• Ultra Low Light Technology
• Max. IR distance up to 100m/328ft
• -40°C ~ 70°C (-40°F ~ +158°F)
• WDR, Micro SD card up to 512GB, IP66
• Wallmount bracket included
AI Functions:
- **Face Detection**
- **Fenced Area protection**
- **People Counting Functions**
- **Line Crossing (Person & Vehicle Classification)**
- **AI Motion**

| WDR | IP66 | Micro SD | Intrusion | Line Crossing | PoE+ | AI Motion | People Counting |

MPIX-21IRPTZ

SENSEFIER Ultra low light enhancement

2.1MP Full HD IR Network PTZ Camera

PRO SERIES

30X Optical Zoom

• 4.5mm - 135mm (30x Optical zoom)
• Max. 50/60fps@1080P
• Supports POE+
• IR distance up to 200m/656ft
• H.265+/H.265 Encoding
• Sensefier Technology
H.265+/H.265 Encoding
• Preset Speed: Pan: 240° /s; Tilt: 200°
• WDR(120dB), IP67, IK10
• -40°C ~ 70°C (-40°F ~ +158°F)
• Wallmount Bracket Included

UL LISTED
E498424

| WDR | IP67 | Micro SD | PoE+ | IK10 | PoE+ |

Optional Brackets:

BRPOLEMXC   BRACK-PTZ-BOX   BRACK-PTZBB120

BRACK-MPIX-21MP-PEND   BRACK-PTZ-PAR   BRACK-CMA-PTZ   BRCORNMXC

Optional Brackets:

BRCORNMXC   BRPOLEMXC   BRACK-PTZ-BOX

BRACK-MPIX-21MP-PEND   BRACK-PTZ-PAR   BRACK-CMA-PTZ

IP Cameras

MPIX-40MP32XIRAI

4MP 32x IR PTZ AI Network Camera

32X Optical Zoom

• 4.8mm–154mm lens (32x Optical zoom)
• IR distance up to 250m/820.21ft
• Built-in heater
• Auto Tracking 3.0
• Motion Detection 4.0
• Quick Pic
• WDR(120dB), IP67, IK10
• Alarm I/O 7/2
• Audio I/O 1/1
• Micro SD memory card up to 512GB
• -40°C ~ 70°C (-40°F ~ +158°F)

AI Functions:
 - Fenced Area protection
 - Face Detection
 - Line Crossing (Person & Vehicle Classification)
 - Auto Tracking Human and/or vehicle

WDR | IP67 | Micro SD | Intrusion | Line Crossing | Face Detection | AI Auto Tracking

Optional Brackets:

BRCORNMXC BRPOLEMXC BRACK-PTZBB120 BRACK-CMA-PTZ4

MPIX-40IRPTZAIR2

4MP 40x IR PTZ AI Network Camera

40X Optical Zoom

• 5.6mm ~ 223mm (40x Optical zoom)
• IR distance up to 500m/1640ft
• AI Auto Tracking of person
  and/or Vehicle
• IP67, Micro SD card up to 256GB
• WDR(140dB), Supports Hi-PoE
• Smart wiper
• Alarm I/O 7/2
• Audio I/O 1/1
• -40°C ~ 70°C (-40°F ~ +158°F)

AI Functions:
 - Face Recognition
 - Video Metadata
 - Fenced Area protection
 - Line Crossing (Person & Vehicle Classification)
 - Auto Tracking

WDR | IP67 | Micro SD | Intrusion | Line Crossing | Face Recognition | Abandoned Object

Optional Brackets:

BRCORNMXC BRPOLEMXC BRACK-PTZBB120 BRACK-CMA-PTZ4

MPIX-80IRPTZAIR2

8MP 4K 40x IR PTZ AI Network Camera

40X Optical Zoom

• 5.6mm ~ 223mm (40x Optical zoom)
• IR distance up to 500m/1640ft
• AI Auto Tracking of person
  and/or Vehicle
•Smart wiper
• WDR(120dB), IP67
• Micro SD memory card up to 512GB
• -40°C ~ 70°C (-40°F ~ +158°F)

AI Functions:
 - Video Metadata
 - Fenced Area protection
 - Line Crossing (Person & Vehicle Classification)
 - Auto Tracking

WDR | IP67 | Micro SD | Intrusion | Line Crossing | Auto Tracking | Face Capture | People Counting

Optional Brackets:

BRCORNMXC BRPOLEMXC BRACK-PTZBB120 BRACK-CMA-PTZ4

IP Cameras

6MP 360⁰ Panoramic IR View Fisheye Network Camera

6 MegaPixel

PRO SERIES

360°

Optional Brackets:

BRACK-WM-Tilt   BRACK-MX-60-360

MPIX-60-360-FIR

- 6MP Resolution
- Low bitrate
- Excellent low light performance
- 3D DNR, D-WDR, ICR, HLC
- Lens - 1.83mm
- Max. IR LEDs length 15m (49ft)
- ONVIF system compatibility
- Max. Resolution - 3072x2048@15fps
- Micro SD card, Max 128GB
- 7 split display mode
- Panoramic view mode
- Built-in dewarping
- Dual stream
- Smart IR
- Electronic PTZ
- Audio recording
- IP67 weather proof

IR | D-WDR | IP67 | Micro SD | H.265 | H.264

12MP 360⁰ Panoramic IR View Fisheye Network Camera

12 MegaPixel

PRO SERIES

360°

4K

Built-In Audio with Microphone

Optional Brackets:

BRACK-WM-Tilt   BRACK-MX-60-360

MPIX-12-360-FIR

- 1/1.7" 12MP progressive scan CMOS
- Max 25fps@12M(4000x3000)
- Angle of View H: 180°, V:180°
- H.265 / H.264
- Multiple dewarped mode
- Smart detection supported, Intelligent Function
- 1.83mm fixed lens
- Max. IR LEDs length 15m (49ft)
- Ultra Low Light Enhancement
- 1/1 channel In/Out, Built-in Mic (Optional, Special Order)
- IP67, PoE
- Multiple network monitoring: Built-in web server & Multifunction VMS
- Operating Temperature: -30°C ~ +60°C
                         -22°F ~ +140°F
- Supports iPhone, Android
- Micro SD card, Max 128G

c(UL)us LISTED
E498424

IR | D-WDR | IP67 | Micro SD | H.265 | H.264

IP Cameras

MPIX-16MP180IRAI

16 MegaPixel

PRO SERIES

180⁰

AC24V / DC12V

ONVIF · PoE Power over Ethernet

Panoramic Splicing

Optional Brackets:

BRACK-BB120   BRPOLE150

4x4MP Multi-Sensor Splicing Panoramic Bullet Camera

- 4x4-MP 1/1.8" CMOS image sensor, low luminance, and high definition image
- Output max. 16 MP (5520 × 2700)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate
- Three streams for HD video display
- Built-in IR LED, and the max. illumination distance is 30m/98.43ft
- D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- ROI, SMART H.264+/H.265+, flexible coding
- Alarm I/O: 2/2; Audio I/O: 1/1 Analog Output: 1 RS-485; BNC; supports max. 256 GB Micro SD card
- 12 VDC/24 VAC/PoE power supply, easy for installation
- IP67, IK10
- Operating Temperature: -40°C ~ +60°C
  -40°F ~ +140°F

Intelligence:
- **Fenced Area protection**
- **EPTZ**
- **Vehicle Density**
- **Crowd Distribution Map**

MPIX-20MP360IRAI

20 MegaPixel

PRO SERIES

360⁰

ONVIF · PoE Power over Ethernet

Optional Brackets:

BRACK-MPIX-21MP-PEND   BRACK-WML

BRACK-PLATE1   BRACK-CMA-PTZ

4x5MP Multi-Sensor No-Splicing Panoramic Dome

- 4x5-MP 1/2.7" CMOS image sensor, low illuminance, high image definition
- 4-channel stream output, and each channel can output max. 5 MP (2592 × 1944) @25/30 fps.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- The intelligent functions of 4 channels can be enabled at the same time, including face detection, IVS, and people counting
- Intelligent detection: Line crossing, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human), abandoned object, missing object, loitering detection, people gathering, and parking detection
- FlexStream: The 4 channels of images can be viewed in a defined channel with 1 channel stream. That is the multiple images can be displayed in 1 channel
- Built-in IR LED illuminator, max. illumination distance is 30m/98.43ft
- Alarm I/O: 3/2; Audio I/O: 1/1; RS-485
- Supports max. 256 GB Micro SD card
- 12 VDC/PoE power supply; 12 VDC power output, and max. current 165mA; easy for installation
- IP67, IK10
- Operating Temperature: -30°C ~ +60°C
  -22°F ~ +140°F

AI Functions:
- **Fenced Area protection**
- **Face Detection**
- **Line Crossing (Person & Vehicle Classification)**

Fast Pack Kits

4 Channel NVR Fast Pack Kit

4 Channel **+** **4** Cameras

4K

4 Channel MPIX Kit
5.0 Megapixel IP Cameras
4 CH ENMR3 NVR w/ 1TB HDD
4 Port PoE Built-In

ENMR3-04KIT4-50IRBFT
(MPIX-50IRBFT-IR28AI)
2.8mm Lens
AI Functions:
· Fenced Area Protection
· AI Motion Detection
· Line Crossing
(Person & Vehicle Classification)

x4

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8 Channel NVR Fast Pack Kit

8 Channel **+** **6** Cameras

4K

8 Channel MPIX Kit
5.0 Megapixel IP Cameras
8 CH ENMR3 NVR w/ 1TB HDD
8 Port PoE Built-In

ENMR3-08KIT6-50IRBFT
(MPIX-50IRBFT-IR28AI)
2.8mm Lens
AI Functions:
· Fenced Area Protection
· AI Motion Detection
· Line Crossing
(Person & Vehicle Classification)

x6

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16 Channel NVR Fast Pack Kit

16 Channel **+** **8** Cameras

4K

16 Channel MPIX Kit
5.0 Megapixel IP Cameras
16 CH ENMR3 NVR w/ 2TB HDD
16 Port PoE Built-In

ENMR3-16KIT8-50IRBFT
(MPIX-50IRBFT-IR28AI)
2.8mm Lens
AI Functions:
· Fenced Area Protection
· AI Motion Detection
· Line Crossing
(Person & Vehicle Classification)

x8

Commercial Grade Network Video Recorders

ENMR3-04POE

Multiple network monitoring:
Watch*NET* VMS, MVS Pro mobile & Web Viewer

HDMI | Linux | PoE | OSD | USB | H.265 | H.264 | SATA | VGA

4 Channel 1U PoE NVR 4K HDMI Output
• Industrial-grade embedded processor
• 1 SATA III Port, Up to 10 TB capacity for each HDD
• VGA/HDMI simultaneous video output, maximum resolution of HDMI is 4K
• 4 Ports PoE built-in
• Max. decoding capability: 4 × 1080p@30 fps
• Audio Input: 1 × RCA input
• Audio Output: 1 × RCA output
AI by Camera: Face detection, fenced area protection, IVS, people counting, heat map, and motion detection
* (AI Features only supported when using AI Cameras)*

ENMR3-08POE

Multiple network monitoring:
Watch*NET* VMS, MVS Pro mobile & Web Viewer

HDMI | Linux | PoE | OSD | USB | H.265 | H.264 | SATA | VGA

8 Channel 1U PoE NVR 4K HDMI Output
• Industrial-grade embedded processor
• 1 SATA III Port, Up to 10 TB capacity for each HDD
• VGA/HDMI simultaneous video output, maximum resolution of HDMI is 4K
• 8 Ports PoE built-in
• Max. decoding capability: 8 × 1080p@30 fps
• Audio Input: 1 × RCA input
• Audio Output: 1 × RCA output
• **AI by Camera**: Face detection, fenced area protection, IVS, people counting, heat map, and motion detection
* (AI Features only supported when using AI Cameras)*

ENMR3-16POE

Multiple network monitoring:
Watch*NET* VMS, MVS Pro mobile & Web Viewer

HDMI | Linux | PoE | OSD | USB | H.265 | H.264 | SATA | VGA

16 Channel 1U PoE NVR 4K HDMI Output
• Industrial-grade embedded processor
• 2 SATA III Ports, Up to 10 TB capacity for each HDD
• VGA/HDMI simultaneous video output, maximum resolution of HDMI is 4K
• 16 Ports PoE built-in
• Audio I/O (RCA) -1/1, Alarm I/O - 4/2
• Max. decoding capability: 8 × 1080p@30 fps
• Audio Input: 1 × RCA input
• Audio Output: 1 × RCA output
• Alarm Input: 4
• Alarm Output: 2
• **AI by Camera**: Face detection, fenced area protection, IVS, people counting, heat map, and motion detection
* (AI Features only supported when using AI Cameras)*

Commercial Grade Network Video Recorders

Commercial NVRs

ENR3-32AI

32 Channel 1.5U AI Network Video Recorder

- Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format
- Access, storage or forwarding at 256 Mbps (160 Mbps when AI function enabled)
- Max. decoding capability: 10 × 1080p@30 fps. Supports adaptive decoding
- Security baseline 2.1

AI by NVR:
- 1-channel face detection and recognition;
- 2-channel fenced area protection;
- Up to 10 face databases and 20,000 face images;
- 4-channel AI Motion

• AI by Camera:
- Face detection and recognition, fenced area protection;
- AI Motion; ANPR; people counting; stereo analysis; heat map

EN-644K

64 Channel Ultra HD 4K Network Video Recorder

- Dual Core high performance processor
- 32ch@1080P, 64ch@720P realtime recording
- Intel Quad-core Processor
- Linux Embedded Enterprise Class NVR
- High bandwidth up to 384Mbps bitrate
- Max 64 channel IP cameras connection
- 4K campatible up to 12MP resolution preview & playback
- Support 8 built-in HDDs / RAID 0/1/5/10
- Max 384Mbps incoming bandwidth
- 2 HDMI, 1 VGA
- Network download / USB HDD / eSATA Device
- 4 USB Ports (2 USB 2.0, 2 USB 3.0)
- 4/8 bay HDD expansion storage available
- Alarm Inputs& Relay Output - 16x8
- Expandable storage up to 48TB using **WN-ESS08A**

E498424

EN-64AI

64 Channel 2U AI Network Video Recorder

- 64 Channel IP video access
- Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
- Up to 16 Channel fenced area protection
- Up to 4 Channel video stream face recognition/ 16 Channel picture stream Face Recognition when using Face Detection Camera
- Up to 24 face pictures /sec processing
- 8 SATA III Ports, Up to 8 TB capacity for each HDD
- Up to 20 face databases with 100,000 face images in total

AI Features:
- **Face Detection**
- **Face Recognition**
- **Line Crossing**
- **Fenced Area Protection**
- **Plus more when using AI Cameras dependant on model**

Industrial Grade Network Video Recorders

EN-64AIR2

64 Channels 2U Network Video Recorder

- Max. 1024/1024/800Mbps incoming/recording/outgoing bandwidth
- 8 SATA ports, up to 16 TB
- Support Raid: 0/1/5/6/10
- Drawer-like chassis design allows for HDD hot swapping
- Audio I/O - 1/2, Alarm I/O - 16/8

AI Features by camera:
· Face detection and recognition, fenced area protection, motion detection, metadata, LPR, and people counting

AI Features by recorder:
· 4-channel face detection and recognition; 8-channel metadata; 24-channel fenced area protection; 32-channel motion detection

EN-128AI

128 Channels 2U Network Video Recorder

- Max. 1024/1024/800Mbps incoming/recording/outgoing bandwidth
- 8 SATA ports, up to 16 TB
- Support Raid: 0/1/5/6/10
- Drawer-like chassis design allows for HDD hot swapping
- Audio I/O - 1/2, Alarm I/O - 16/8

AI Features by camera:
· Face detection and recognition, fenced area protection, motion detection, metadata, LPR, and people counting

AI Features by recorder:
· 4-channel face detection and recognition; 8-channel metadata; 24-channel fenced area protection; 32-channel motion detection
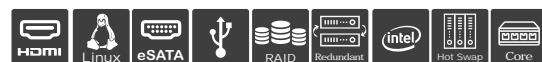
ENX-128HD

128 Channels 4K Network Video Recorder

- RAID 0/1/5/10, Supports Hot-swap
- Max 384Mbps Incoming Bandwidth
- 2x Gigabit Optical Fiber Interface
- Up to 12MP Resolution for Preview and Playback
- Quad Gigabit Ethernet ports for load balancing
- 2 HDMI (up to 3840 x 2160, Different Source), 1 VGA
- USB Device/Network/eSATA Device
- 4 USB ports (2 USB2.0, 2 USB3.0)

ENX-256HDR2

4U 24 HDD Network Video Recorder

- Intel Quad-core Processor
- Max 450Mbps incoming bandwidth
- 256 Channel IP video access
- Supports RAID 0/1/5/6/10
- SAS3.0 for storage extension
- 3 HDMI / 1VGA video output
- 24 SAS / SATA HDDs, Up to 10 TB capacity for each HDD
- 4 RJ-45 Ports (10/100/1000Mbps) Interface
- 4 Giga Optical Fiber Interface (Optional)
- Dual-ball bearing fans, Hot-swap
- 4 USB Ports (2 USB 2.0, 2 USB 3.0)

Enterprise class VMS Media Gateway

VMS-2000D

Enterprise Class VMS Solution

VMS-2000D Server is one of the advanced embedded Enterprise Class VMS Media Gateway integrating the eMVS Pro software and hardware together effectively. The VMS-2000D server is a self-adaptive hardware which seamlessly integrates with robust eVMS Pro software.

VMS-2000D completely boost the system's performance with genuine user-friendly GUI. Easy to install and operate.

• Embedded equipment with Client-Server Architecture
• High-performance media streaming transfer with storage
• Supports distribute and cascade deployment
  and best fit for 24 x 7 rugged operation
• Hot standby & local storage as well as IP-SAN storage
• GIS map (Google, Raster Map) support
• Supports ONVIF standard protocol
• Front panel displays for system service status
• Heat Map, fisheye calibration in playback
• Set up the devices, such as IP Cameras,
  NVR, Mobile DVR and so on
• Support POS function & People counting
• Support the Playback video through the video wall
• Supported by eVMS-PRO (Enterprise Class VMS software)

• Intel Quad Core CPU (3.1GHz-3.4GHz). Bus Speed 20GT/s
• Memory: 8GB & up to 16G
• Supports 2000 channels (Supports 500 input devices)
• Supports 100 ONVIF Devices
• Supports 500 devices (Auto-register)
• Unlimited accounts management and 8000 online users &
  max 500 roles
• Transfer capability of 700M
• 20 distribution server and 5-level cascade
• eMap with a maximum displays of 200 channel on a
  single screen
• 1000 channel alarm processing per second.
• eVMS Pro Client support 4K signal decoding
• Supports maximum of 300TB storage per storage server

Watch*NET* Providing Security Solutions Since 2000

Enterprise Class Security Solution
Integrated Security System
with Distributed Architecture

Netflow-EC is an ultimate management platform for Physical Security Information Management system able to support integrated security systems of any level of complexity. With Netflow-EC, it is possible to combine fire/security alarms, perimeter security, access control, video surveillance, audio detection, and various industry-specific solutions (Retail, ANPR, ATM, Face Recognition and Video Analytics). The open architecture makes it possible to add integration for other associated security & safety systems. Configuration, management, and monitoring of systems can be performed from a control center or from remote workstations.

Netflow-EC allows automating system management tasks, including with user-scriptable IF...THEN event reactions.

A single script can involve multiple systems (fire/security alarms, access control, video surveillance, and more). This makes the security process seamless and more efficient than ever. Watch*NET* integrates video surveillance, access control, fire protection and other specialized systems into an single information environment which supports interaction of all subsystems, intellectual information analysis and automatic control.

Netflow-EC system that's intelligent enough to interpret people, actions and events and enforces fast, automatic actions when necessary. A system that helps employees become more efficient, more vigilant, and more effective in reducing and preventing fraud, vandalism, accidents, and other issues. An ultimate system have all these with extreme Simplicity, Flexibility and Scalability.

NetFlow-EC Applications:

- Video Surveillance with audio recording
- Video Analytics
- Access Control Integration
- Fire/Security Alarm System Integration
- Perimeter Security
- Face and License Plate Recognition
- Point-of-Sale / Retail Monitoring
- ATM network protection
- Comprehensive system monitoring
- Automatic recording of traffic violations
- Automatic number plate/license plate
  recognition for cars, railcars and cargo containers

An ultimate management platform for
Physical Security Information Management System (PSIM)

Blue Line Products
5MP Cameras

Blue Line Cameras

BLS-50BIR28

5 MegaPixel

Optional Bracket:

BLS-BB-BUL1
Back Box

5MP IR Bullet Network Camera
- 1/2.8" progressive scan CMOS
- 2.8mm fixed lens
- True WDR, 3D DNR, ROI, HLC, BLC, Defog
- Smart IR up to 30m/98.4ft
- Built-in micro SD slot, up to 256GB
- IP67, PoE
- Operating Temperature: - 40°C ~ 55°C
                                 - 40°F ~ 131°F

Smart Function:
- Supports face, human, vehicle detection and capture

Intelligent Detection:
- Fenced area
- Single virtual fence
- Double virtual fences
- Loitering
- People counting

IP67 | IR | WDR | Micro SD | PoE | Motion Detection | Face Detection | Counting

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BLS-50IRBFT28

Optional Brackets:

BLS-BB-46
Back Box

BLS-WM-03
Wall Mount Bracket

5MP IR Turret Network Camera
- 1/2.8" progressive scan CMOS
- 2.8mm fixed lens
- True WDR, 3D DNR, ROI, HLC, BLC, Defog
- Smart IR up to 30m/98.4ft
- Built-in micro SD slot, up to 256GB
- IP66, PoE, Built-in 1CH MIC
- Operating Temperature: - 40°C ~ 55°C
                                 - 40°F ~ 131°F

Smart Function:
- Supports face, human, vehicle detection and capture

Intelligent Detection:
- Fenced area
- Single virtual fence
- Double virtual fences
- Loitering
- People counting

IP66 | IR | WDR | Micro SD | PoE | Motion Detection | Face Detection | Counting | MIC

BLS-50VDF-IR28

Optional Brackets:

BLS-BB-56
Back Box

BLS-WM-02
Wall Mount Bracket

5MP IR Fixed Dome Network Camera
- 1/2.8" progressive scan CMOS
- 2.8mm fixed lens
- True WDR, 3D DNR, ROI, HLC, BLC, Defog
- Smart IR up to 30m/98.4ft
- Built-in micro SD slot, up to 256GB
- IP66, PoE, IK10
- Operating Temperature: - 40°C ~ 55°C
                                 - 40°F ~ 131°F

Smart Function:
- Supports face, human, vehicle detection and capture

Intelligent Detection:
- Fenced area
- Single virtual fence
- Double virtual fences
- Loitering
- People counting

IP67 | IR | WDR | Micro SD | PoE | Motion Detection | Face Detection | Counting | IK10

Note:
WatchNET NDAA Cameras work only with Blue Series Network Video Recorders

Blue Line Products
5MP Cameras

NDAA COMPLIANT

Blue Line Cameras

BLS-50VDV-IRM

Optional Brackets:

BLS-BB-57
Back Box

BLS-WM-01
Wall Mount Bracket

Onvif

IP67 | Motorized Lens | WDR | Micro SD | PoE | Motion Detection | Face Detection | Counting | IK10

5MP Motorized IR Dome Network Camera
- 1/2.8" progressive scan CMOS
- 2.7~13.5mm motorized lens
- True WDR, 3D DNR, ROI, HLC, BLC, Defog
- Smart IR up to 40m/131.2ft
- Built-in micro SD slot, up to 256GB
- IP66, PoE, IK10
- Operating Temperature: - 40°C ~ 55°C
                              - 40°F ~ 131°F

Smart Function:
- Supports face, human, vehicle detection and capture

Intelligent Detection:
- Fenced area
- Single virtual fence
- Double virtual fences
- Loitering
- People counting

CE FC

BLS-20IRPTZAI25X

IP66 | True WDR | Micro SD | PoE+ | Face Detection | Counting | Defog | 25X Optical Zoom | IR

2MP IR PTZ Network Camera
- 1/2.8" progressive scan CMOS
- 25x optical zoom,16x digital zoom
- Focal Length Lens - 5 ~ 125mm
- 2MP(1920×1080) @ 25/30fps
- Smart IR up to 150m/492.1ft
- Audio Interface - 1CH Input, 1CH Output
- Alarm Interface - 2CH Input, 2CH Output
- Built-in micro SD slot, up to 256GB
- IP66, PoE+
- Operating Temperature: -40°C ~ 55°C
                              -40°F ~ 131°F

Smart Function:
- Supports face, human, vehicle detection and capture

Intelligent Detection:
- Fenced area
- Single virtual fence
- Double virtual fences
- Loitering
- People counting

Wall Mount Bracket
Included

Onvif

CE FC

BLS-50IRPTZAI30X

IP66 | True WDR | Micro SD | PoE+ | Face Detection | Counting | Defog | 30 Optical Zoom | IR

5MP IR PTZ Network Camera
- 1/2.8" progressive scan CMOS
- 30x optical zoom,16x digital zoom
- Focal Length Lens - 5.3 ~ 159mm
- 5MP(2592×1944) @ 25/30fps
- Smart IR up to 150m/492.1ft
- Audio Interface - 1CH Input, 1CH Output
- Alarm Interface - 2CH Input, 2CH Output
- Built-in micro SD slot, up to 256GB
- IP66, PoE+
- Operating Temperature: -40°C ~ 55°C
                              -40°F ~ 131°F

Smart Function:
- Supports face, human, vehicle detection and capture

Intelligent Detection:
- Fenced area
- Single virtual fence
- Double virtual fences
- Loitering
- People counting

Wall Mount Bracket
Included

Onvif

CE FC

Blue Line Products
NVRs

Blue Line NVRs

BLS-NVR8POE

8 Ports PoE Built-in

ONVIF

CE FC
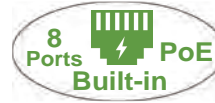
8CH 2HDD NVR with 8CH PoE

- Up to 8CH IP cameras access
- Up to 8MP resolution recording
- 2 SATA hard disk up to 12TB each
- 1 RJ45 10/100/1000M network interface
- 8CH POE ports
- Audio I/O - 1/1
- Alarm Input - 8 CH
- Alarm Output - 1 CH
- Live Video:
  1CH 4K 8MP, 4CH 1080P, 8CH D1@30fps
- Incoming Bandwidth - 60 Mbps
- Outgoing Bandwidth - 60 Mbps
- Smart search & playback

HDMI | VGA | SATA | PoE

BLS-NVR16POE

16 Ports PoE Built-in

ONVIF

CE FC

16CH 2HDD NVR with 16CH PoE

- Up to 16CH IP cameras access
- Up to 16MP resolution recording
- 2 SATA hard disk up to 12TB each
- 1 RJ45 10/100/1000M network interface
- 16CH POE ports
- Audio I/O - 1/1
- Alarm Input - 8 CH
- Alarm Output - 2 CH
- Live Video:
  1CH 4K 8MP, 4CH 1080P, 8CH D1@30fps
- Incoming Bandwidth - 120 Mbps
- Outgoing Bandwidth - 120 Mbps
- Smart search & playback

HDMI | VGA | SATA | PoE

BLS-NVR32AI

Ai WatchNET

ONVIF

CE FC

32 CH High Performance NVR

- Up to 32 Channel IP cameras access
- Up to 1-ch@12MP/32-ch@D1 decoding capacity
- Support AI face recognition
  (pre-configured face database)
- Support multi-objective recognition
- Support 2 HDMI and 1 VGA interface
- 4 SATA hard disk each up to 16TB
- 2 RJ45 10M/100M/1000M network interface
- Support RAID 5/6/10
- Smart search
  (time search, picture grid, and event)
- Fenced area protection / Intrusion detection
- Automatic Network Replenishment from SD card

HDMI | Intrusion | Face Comparison | RAID

Note:
WatchNET NDAA Network Video Recorders work only with Blue Series Cameras

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NDAA eVMS Blue Software

AVMS-BLUE Software

eVMS-BLUE is a versatile Video Management & Command Control Center Software for NDAA compliant Blue Line series Cameras & Recorders.
It provides several functionalities, including real-time live view, remote search, and playback, file backup, alarm receiving, intelligent recognition, etc. for connected devices, and meets the needs of large, medium, and small-sized projects.

The eVMS-BLUE software is widely applied to surveillance projects in financial, public security, telecommunications, transport, electricity, education, etc.

General

- Applicable to local and wide area networks
- Remote configuration for added devices
- Management of user permissions
- Resetting of password via server's UID
- Support for PC keyboard shortcuts to conveniently access commonly used actions

Client

- Hardware decoding support for live view and playback

Network

- Online user verification
- NTP time synchronization protocol
- Search active online devices
- Device addition via IP, domain name, UUID of p2p; batch importing of devices
- Two-way audio function

Live View

- Support for H.264 and H.265 video encoding formats
- Viewing of stream info
- Multi-window or Multi-screen live view or playback
- 1~64 window division configuration
- Maximum support for a 64-window standard-screen division
- Live view in Fisheye mode for fisheye cameras
- Live view in a panoramic mode for 32M panoramic cameras

PTZ Control

- Remote PTZ control, preset, patrol
- 3D positioning, auxiliary focus, and wiper function
- Support for PTZ control of one-touch patrol and one-touch park Alarm Management

Alarm Management

- Alarm configuration for motion event, intelligent analysis event
- Search and export linked alarm log pictures
- Possibility to view the latest priority alarm when viewing alarm information in the alarm pop-up window
- Support configuration alarm sounds for speech or buzzer

Recording

- Local manual recording support

Playback

- Remote playback
- Normal, event playback
- Maximum of 16-ch synchronous playback supported
- Frame extracting support for high-speed playback
- Picture grid
- Playback in Fisheye mode for fisheye cameras

* eVMS - Blue software is compatible only with Blue Series devices (Camera & Recorders)

XVi HD-CVI

XVI-21VDV-IRMS

2.1 MegaPixel

UL LISTED c US
E498424

PRO SERIES

AC24V
DC12V

SENSEFIER
Ultra low light enhancement

Optional Brackets:

BRACK-WM-63   BRACK-BB-63   BRACK-PM-63

2.1MP 1080p WDR Dual Voltage IR Dome
• 1/2.8" 2.1MP CMOS image sensor
• **Dual Voltage - AC24V±25% / DC12V±25%**
• 2.7 - 12mm motorized lens, Auto Iris
• 25/30fps@1080p, 25/30/50/60fps@720p
• Max. IR LEDs length 50m/164ft, Smart IR
• 120dB True WDR, Day/Night (ICR), AWB, AGC, BLC, 3DNR
• Audio, Alarm, Heater (special order)
• IP67, IK10, OSD Menu, Three Axis
• Smart phones compatible
• Operating Temperature: -30°C ~ +60°C
                            -22°F ~ +140°F

Motorized Lens | WDR | IP67 | IK10 | OSD | IR

XVI-21PIRR2

2.1 MegaPixel

2.1MP CVI Motion Detector Camera

• 1/2.7" 2.1MegaPixel CMOS
• HD and SD output switchable
  (video only)
• 2.8mm fixed lens
• 10m/110°detecting range/angle
• Max 30fps@1080P
• Built-in tamper switch, D-WDR
• Power Supply: 12V DC ±30%
• Close Focus Distance: 500mm / 19.7'

Day / Night | D-WDR | OSD | H.264

XVI-21SPHR2

2.1 MegaPixel

SENSEFIER
Ultra low light enhancement

2.1MP CVI Pinhole Camera

• 1/2.8" 2.1MegaPixel CMOS
• 120dB WDR, 3DNR
• Audio in interface
• HD and SD output switchable
• 2.8mm fixed lens (Pinhole)
• Max 30fp@1080P
• Power Supply: 12V DC ±30%

Day / Night | WDR | OSD | Pinhole Lens

XVi HD-CVI

XVI-21MP4X

4X Optical Zoom

Optional Brackets:

BRACK-WM-48   BRPOLEMXC   BRACK-PM-06

2.1MP Full HD 4x Network PTZ

• 2.7mm - 11mm (4x Optical zoom)
• Motorized Pan tilt zoom
• Max. 25/30 fps@1080P, 25/30/50/60 fps@720P
• IP66 Rated
• Vandal resistance
  (IK10 for metal and polycarbonate casing)

XVI-21IRPTZR2

2.1MP Full HD 25x Network PTZ Camera

PRO SERIES

25X Optical Zoom

E498424

• 4.8mm - 120mm (25x Optical zoom)
• Max. 25/30fps@1080P, 25/30/50/60fps@720P
• IR LEDs up to 150m/492ft
• Preset Speed - Pan: 240° /s; Tilt: 200° /s
• IP66, WDR(120dB), 3D DNR
• Up to 255 presets, 5 auto scan, 8 tour, 5 pattern
• -40°C ~ +70°C (-40°F ~ +158°F)
• Alarm I/O - 2/1

XVI-21MP15X

2.1MP Full HD 15x Network PTZ

15X Optical Zoom

• 5mm - 75mm (15x Optical zoom)
• 360° continuous pan rotation
• Built-in 2/1 alarm in/out
• Max. 25/30 fps@1080P,
  25/30/50/60 fps@720P
• IP66, IK10
• 1 Ch Audio Input, 2/1 Ch Alarm
  Input/Output

Included

| DC24V/2.5A Power Adapter | Wall Mount Bracket | BRACK-CMA-PTZ3 Mount Adapter |

Included

| DC12V/5A Power Adapter | Wall Mount Bracket | BRACK-CMA-PTZ3 Mount Adapter |

Optional Brackets

BRACK-MPIX-21MP-PEND
Pendant Mount

BRACK-PTZBB120
Junction Back Box

BRACK-PTZ-BOX
Hinged Back Box

BRPOLEMXC
Pole Mount Bracket

BRCORNMXC
Corner Mount

BRACK-PTZ-PAR
Parapet Mount

Optional Brackets

BRACK-MPIX-21MP-PEND
Pendant Mount

BRACK-PTZBB120
Junction Back Box

BRACK-PTZ-BOX
Hinged Back Box

BRPOLEMXC
Pole Mount Bracket

BRCORNMXC
Corner Mount

BRACK-PTZ-PAR
Parapet Mount

XVI-50IRBTR2 / XVI-50IRBTR2-B

5
MegaPixel

SENSEFIER
Ultra low light enhancement

Optional Brackets:

BRACK-WM-49   BRACK-WM-49B   BRPOLEMXC

BRACK-BB-43   BRACK-BB-43B

5MP D-WDR IR Turret Camera

- 1/2.7" 5MP HD CMOS image sensor
- Max 25 fps@5MP (16:9 video output)
- XVI/CVI/CVBS/AHD/TVI switchable
- 2.8mm fixed lens
- Max. IR LEDs length 60m/196.9ft, Smart IR
- IP67, 12V ±30% DC
- Smart phones compatible
- Operating Temperature: -40°C ~ +60°C
  -40°F ~ +140°F

| D-WDR | IP67 | Day / Night | OSD | IR | 5MP 16 : 9 Video Output |

XVI-50NPCBFT

5
MegaPixel

Night Pixel
Color

Optional Brackets:

BRACK-WM-49   BRACK-BB-43   BRACK-PM-06

5MP Night Pixel Full-Color Turret Camera

- Max 25 fps@5MP (True 16:9 video output)
- 120 dB true WDR, 3D NR
- 24/7 color imaging
- 1CH built-in MIC (-A)
- 40m/131.2ft illumination distance
- CVI/CVBS/AHD/TVI switchable
- 2.8 mm fixed lens
- IP67, 12 V DC
- Operating Temperature: -40°C ~ +60°C
  -40°F ~ +140°F

| IP67 | WDR | 5MP 16 : 9 Video Output | 🎤 |

XVI-50VDV-IRVDL

5
MegaPixel

SENSEFIER
Ultra low light enhancement

AC24V
DC12V

Optional Brackets:

BRACK-WM-48   BRACK-BB-48   BRACK-PM-06

5MP IR Vandal-proof Dual Voltage Dome

- 1/2.7" 5MP HD CMOS image sensor
- **Dual Voltage AC 24V ±25%/DC 12V ±10%**
- Max. IR LEDs length 30m/98ft
- Min. Illumination - 0.005 Lux
- **2.7mm–12 motorized lens**
- Max. 25 fps@5MP (16:9 video output)
- CVI/CVBS/AHD/TVI switchable
- D-WDR, 2D DNR, IP67, IK10, OSD Menu
- Built-in web server & Multifunction VMS
- CVI Compatible Camera
- Operating Temperature: -30°C ~ +60°C
  -22°F ~ +140°F

| IK10 | D-WDR | IP67 | Motorized Lens | OSD | IR | 5MP 16 : 9 Video Output |

XVI-50BIMRDL

5 MegaPixel

Optional Bracket:

BRACK-BB-37

5MP IR Dual Voltage Bullet Camera

• 1/2.7" 5MP HD CMOS image sensor
• **Dual Voltage AC 24V ±25%/DC 12V ±10%**
• Max. IR LEDs length **30m/98ft**
• Min. Illumination 0.005 Lux
• 2.7mm–12mm motorized lens
• Max. 25 fps@5MP (16:9 video output)
• CVI/CVBS/AHD/TVI switchable
• D-WDR, 2D DNR, IP67, OSD Menu
• Built-in web server & Multifunction VMS
• CVI Compatible Camera
• Operating Temperature: -30°C ~ +60°C
  -22°F ~ +140°F

XVI-50VDV-IRV

5 MegaPixel

Optional Brackets:

BRACK-WM-48   BRACK-BB-48   BRACK-PM-06

5MP IR Vandal Proof Dome Camera

• 1/2.7" 5MP HD CMOS image sensor
• Max. IR LEDs length 30m/98ft
• 2.7mm–12mm motorized lens
• Max. 25 fps@5MP (16:9 video output)
• Day/Night(ICR), AWB, AGC, BLC
• D-WDR, 2D DNR
• CVI/CVBS/AHD/TVI switchable
• IP67, IK10, 12V DC ±30%
• OSD Menu
• Built-in web server & Multifunction VMS
• CVI Compatible Camera
• Operating Temperature: -30°C ~ +60°C
  -22°F ~ +140°F

XVI-50VDF-IR28

5 MegaPixel

Optional Brackets:

BRACK-WM-48   BRACK-BB-44   BRACK-PM-06

5MP IR Vandal-proof Dome Camera

• 1/2.7" 5MP HD CMOS image sensor
• Max. IR LEDs length 30m/98ft
• 2.8mm fixed lens
• Max. 25 fps@5MP (16:9 video output)
• Day/Night(ICR), AWB, AGC, BLC
• D-WDR, 2D DNR, OSD Menu
• CVI/CVBS/AHD/TVI switchable
• IP67, IK10, 12V DC ±30%
• Built-in web server & Multifunction VMS
• CVI Compatible Camera
• Operating Temperature: -40°C ~ +60°C
  -40°F ~ +140°F

XVi HD-CVI

XVI-50VDF-IR28

SENSEFIER
Ultra low light enhancement

Optional Brackets:

BRACK-WM-48   BRACK-BB-44   BRACK-PM-06

5MP IR Vandal-proof Dome Camera
- 1/2.7" 5MP HD CMOS image sensor
- Max. IR LEDs length 30m/98ft
- 2.8mm fixed lens
- Max. 25 fps@5MP (16:9 video output)
- Day/Night(ICR), AWB, AGC, BLC
- D-WDR, 2D DNR, OSD Menu
- CVI/CVBS/AHD/TVI switchable
- IP67, IK10, 12V DC ±30%
- Built-in web server & Multifunction VMS
- CVI Compatible Camera
- Operating Temperature: -40°C ~ +60°C
  -40°F ~ +140°F

IK10 D-WDR IP67 OSD IR 5MP 16:9 Video Output

5 MegaPixel

XVi HD-CVI

XVI-80BIMRD

PRO SERIES

SENSEFIER Ultra low light enhancement

AC24V / DC12V

Optional Bracket:

BRACK-BB-37

E498424

8MP 4K IR Dual Voltage Bullet Camera
- 1/2" 8MP HD CMOS image sensor
- **Dual Voltage - AC24V±30% / DC12V±30%**
- 3.7 - 11mm motorized lens
- Max. IR LEDs length 80m/262ft
- 120dB True WDR, 3DNR
- Ultra Low Light Enhancement
- Day/Night(ICR), AWB, AGC, BLC
- IP67, OSD Menu
- Built-in web server & Multifunction VMS
- CVI Compatible Camera
- Smart phones compatible
- Operating Temperature: -30°C ~ +60°C
  -22°F ~ +140°F

WDR | IP67 | Motorized Lens | OSD | IR

XVI-80VDV-IRVD

PRO SERIES

SENSEFIER Ultra low light enhancement

AC24V / DC12V

E498424

Optional Brackets:

BRACK-WM-48   BRACK-BB-48   BRACK-PM-06

8MP 4K WDR Dual Voltage Dome Camera
- 1/3" 8MP HD CMOS image sensor
- **Dual Voltage - AC24V±30% / DC12V±30%**
- 3.7 - 11mm motorized lens
- Max. IR LEDs length 30m/98ft
- Max 4K resolution
- Ultra Low Light Enhancement
- Day/Night(ICR), AWB, AGC, BLC
- 120dB True WDR, 3DNR
- Built-in web server & Multifunction VMS
- IP67, IK10, OSD Menu
- Compatible with HD-CVI DVRs
- Smart phones compatible
- Operating Temperature: -30°C ~ +60°C
  -22°F ~ +140°F

IK10 | WDR | IP67 | Motorized Lens | OSD | IR

XVI-80IRBVMTD

PRO SERIES

SENSEFIER Ultra low light enhancement

AC24V / DC12V

Optional Brackets:

BRACK-WM-48   BRACK-BB-48   BRACK-PM-06

8MP 4K IR Dual Voltage Turret Camera
- 1/2" 8MP HD CMOS image sensor
- **Dual voltage - AC24V±30% / DC12V±30%**
- 3.7mm - 11mm motorized lens
- Max 4K resolution
- Max. IR LEDs length Up to 60m/197ft
- Ultra Low Light Enhancement
- 120dB true WDR, 2D/3D DNR
- Day/Night(ICR), AWB, AGC, BLC
- IP67, OSD Menu
- Built-in web server & Multifunction VMS
- CVI Compatible Camera
- Smart phones compatible
- Operating Temperature: -30°C ~ +60°C
  -22°F ~ +140°F

WDR | IP67 | Motorized Lens | OSD | IR

XVi HD-CVI

XVI-80IRBT

8 MegaPixel

Optional Brackets:

BRACK-WM-49   BRACK-BB-43   BRACK-PM-06

4K

4K HD CVI IR Turret Camera

• 1/2.7 inch CMOS IR Turret Camera
• 120dB True WDR, 3DNR
• Max. 4K resolution
• CVI/CVBS/AHD/TVI switchable
• 3.6mm Fixed lens
• Max. IR length 50m/164ft, Smart IR
• IP67, 12V±30%DC
• Compatible with HD-CVI DVRs
• Smart phones compatible
• Operating Temperature: -40°C ~ +60°C
                                         -40°F ~ +140°F

WDR   IP67   OSD   IR

XVI-80VDF-IR28

8 MegaPixel

Optional Brackets:

BRACK-WM-48   BRACK-BB-44   BRACK-PM-06

4K

4K HD CVI IR Dome Camera

• 1/2.7 inch CMOS 8MP HD image sensor
• 120dB true WDR, 3DNR
• Max. 4K resolution
• CVI/CVBS/AHD/TVI switchable
• 2.8mm Fixed lens
• Max. IR length 30m/98ft, Smart IR
• IP67, IK10, 12V±30% DC
• Compatible with HD-CVI DVRs
• Smart phones compatible
• Operating Temperature: -40°C ~ +60°C
                                         -40°F ~ +140°F

IK10   WDR   IP67   OSD   IR

4 Channel DVR Fast Pack	**4** Channel + **4** Cameras	**4CH EVI Kit** 5.0 Megapixel Cameras 4 CH PNT DVR w/ 1TB HDD **AI Functions:** · Fenced Area protection · Face Detection · AI Motion	**EVI-04KIT4-50IRBT** (XVI-50IRBTR2) 2.8mm Lens	**5MP KIT** x4
8 Channel DVR Fast Pack	**8** Channel + **6** Cameras	**8CH EVI Kit** 5.0 Megapixel Cameras 8 CH PNT DVR w/ 2TB HDD **AI Functions:** · Fenced Area protection · Face Detection · AI Motion	**EVI-08KIT6-50IRBT** (XVI-50IRBTR2) 2.8mm Lens	**5MP KIT** x6
16 Channel DVR Fast Pack	**16** Channel + **8** Cameras	**16CH EVI Kit** 5.0 Megapixel Cameras 16 CH PNT DVR w/ 2TB HDD **AI Functions:** · Fenced Area protection · Face Detection · AI Motion	**EVI-16KIT8-50IRBT** (XVI-50IRBTR2) 2.8mm Lens	**5MP KIT** x8

UTC Controller

XVI-TOOL

Application

Model	XVI-TOOL
Features	
Formats	HDCVI/AHD/HDTVI/CVBS
Power Consumption	0.3W
Power Supply	AAA battery*2 (not included)
Indicator Lights	Prompt current format
Applicable Pixel	2MP and below
Physical Properties	
Dimension (LxWxH)	Body: 90mm x 41mm x 21mm (3.54" x 1.61" x0 .83") Length: 560mm (22.05")
Outer Shell	PC & ABS
Color	White
Net Weight	48g (0.11lb)
Environmental	
Operating Temperature	0°C~+40°C / +32°F~+104°F
Humidity	0~95% (non-condensing)
Certification	
Certification	CE
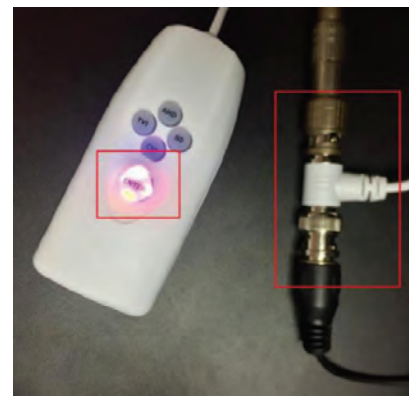
Penta-Brid 4K AI Video Recorders

XVi HD-CVI

PNT-0480AILR2

4 CH Penta-Brid 4K Mini 1U AI DVR
• Max 8 channels IP camera inputs, each channel up to 8MP
• H.265+/H.265 dual-stream video compression
• Supports HDCVI/AHD/TVI/CVBS/IP video inputs
• 1 SATA Port, up to 10TB capacity
• Max. 64 Mbps incoming bandwidth
• Up to 1 channel video stream (analog channel)
  Fenced Area Protection
• Up to 4 channels video stream (analog channel)
  Motion Detection
• Up to 1 channel video stream (analog channel)
  Human Face Recognition
AI Functions:
(Only supported on BNC Inputs 2.1MP or Higher)
  - Fenced Area Protection - 1CH, 10 IVS for each channel
  - Face Detection - Max 8 face pictures/sec processing
  - AI Motion:
   Performance - 4 channels
   AI Search by target classification (Human, Vehicle)

PNT-0880AILR2

8 CH Penta-Brid 4K Mini 1U AI DVR
• Max 16 channels IP camera inputs, each channel up to 8MP
• H.265+/H.265 dual-stream video compression
• Supports HDCVI/AHD/TVI/CVBS/IP video inputs
• 1 SATA Port, up to 16TB capacity
• Max. 128 Mbps incoming bandwidth
• Up to 2 channels video stream (analog channel)
  Fenced Area Protection
• Up to 8 channels video stream (analog channel)
  Motion Detection
• Up to 2 channel video stream (analog channel)
  Human Face Recognition
AI Functions:
(Only supported on BNC Inputs 2.1MP or Higher)
  - Fenced Area Protection - Performance AI by Recorder 2CH
  - Face Detection - Performance AI by Recorder, 2CH and a
    single channel can detect up to 12 faces
  - AI Motion:
   Full-channel Motion Detection (AI by recorder)

PNT-1680AILR2

16 CH Penta-Brid 4K Mini 1U AI DVR
• Max 32 channels IP camera inputs, each channel up to 8MP
• H.265+/H.265 dual-stream video compression
• Supports HDCVI/AHD/TVI/CVBS/IP video inputs
• 1 SATA Port, up to 16TB capacity
• Max. 128 Mbps incoming bandwidth
• Up to 2 channels video stream (analog channel)
  Fenced Area Protection
• Up to 16 channels video stream (analog channel)
  Motion Detection
• Up to 2 channel video stream (analog channel)
  Human Face Recognition
AI Functions:
(Only supported on BNC Inputs 2.1MP or Higher)
  - Fenced Area Protection - Performance AI by Recorder 2CH
  - Face Detection - Performance AI by Recorder, 2CH and a
    single channel can detect up to 12 faces
  - AI Motion:
   Full-channel Motion Detection (AI by recorder)

PNT-32EXAIR2

MegaPixel over UTP/Coax

32 CH Penta-Brid 4K (2U) DVR
• 2U Penta-Brid 4K Embedded LINUX processor
• H.265+/H.265 dual-stream video compression
• Penta-Brid supports HDCVI/AHD/TVI/CVBS/IP video inputs
• Max 32 channels IP/HD Analog camera inputs,
  each channel up to 12MP
• 2 HDMI, 1 VGA, 1 TV
• 8 SATA Ports, up to 10TB capacity for each disk
• **AI Functions:**
(Supported only on BNC inputs), 2.1MP or higher camera recommended
Fenced Area Protection:
- Up to 6 channels video stream fenced area protection
  (Analog channels only), 10 IVS for each channel
- Human/Vehicle secondary recognition for line crossing
  and intrusion
- AI Search by target classification (Human, Vehicle)
Face Recognition:
- Up to 6 channels video stream human face recognition
  (Analog channels only), max 12 face pictures/sec
  processing
- Detect strangers' faces (not in device's face database)
- Up to 8 target face images search at same time, similarity
  threshold can be set for each target face image
- Up to 10 face databases with 20,000 face images in total
  Name, gender, birthday, address, certificate type,
  certificate No., countries & regions and state can be added
  to each face picture
- Buzzer, Voice Prompts, Email, Snapshot, Recording,
  Alarm Out, PTZ Activation, etc.
AI Motion Detection:
- Up to 32 channels video stream motion detection
  (Analog channels only)
- AI Search by target classification (Human, Vehicle)

XVi HD-CVI

POESW04

UNIQUE CCTV Mode
250m / 820ft
Extended Range PoE

PoE/PoE+	Normal Mode	CCTV Mode	Protection	Total Power Budget
30W	100m 100Mbps	250m 10Mbps	6KV	≤60W

4+2 Port PoE Ethernet Switch

• 4 PoE 10/100 Downlink Ports
• 2x 10/100 Uplink Ethernet Ports
• **Special 250m/820ft CCTV Mode**
• 6KV Lightning Protection
• PoE Max. Power Output - 60W
• Power consumption - <5W
• Voltage input - DC 48V ~ 57V
• 135mm x 86mm x 27mm / 5.31" x 4" x 1.06"
• 343g / 0.76lb

POESW08

UNIQUE CCTV Mode
250m / 820ft
Extended Range PoE

PoE/PoE+	Normal Mode	CCTV Mode	Protection	Total Power Budget
30W	100m 100Mbps	250m 10Mbps	6KV	≤120W

POERACK (Optional)
Rack Mount for POESW8
Holds up to two POESW8 per mount

8+2 Port Unmanaged PoE/PoE+ Switch

• 8 PoE 10/100 Downlink Ports
• 2 Gigabit Uplink RJ45 Ethernet Ports
• **Special 250m/820ft CCTV Mode**
• No Frame Loss IP Data Transmission
• 6KV Lightning Protection
• PoE Max. Power Output - 120W
• Power consumption - <5W
• Voltage input - DC 48V ~ 57V
• 200mm x 101.8mm x 27mm / 7.87" x 4" x 1.06"
• 500g / 1.10lb

POESW16

UNIQUE CCTV Mode
250m / 820ft
Extended Range PoE

PoE/PoE+	Normal Mode	CCTV Mode	Protection	Total Power Budget
30W	100m 100Mbps	250m 10Mbps	6KV	≤270W

16+2 Port Unmanaged PoE/PoE+ Switch

• 16* 10/100Base-TX PoE RJ-45 ports
• 2* 10/100/1000Base-T RJ-45 ports
• 1* 1000 Base-X combo SFP port
• 1* PoE management port
• **Special 250m/820ft CCTV Mode**
• Power up to 16 devices that comply with IEEE 802.3af/at standards
• Each PoE port supports a maximum power of 30W
• Support 3 Working Modes through DIP switch
• 6KV Lightning Protection
• PoE Max. Power Output - 270W
• 442mm x 285mm x 44.5mm / 17.4" x 11.22" x 1.75"

POESW16M

UNIQUE CCTV Mode
250m / 820ft
Extended Range PoE

PoE/PoE+	L2 Managed	CCTV Mode	PoE Watchdog	Managed	Plug & Play
30W		250m 10Mbps			

16+2 Port Managed PoE/PoE+ Switch

• Intelligent PoE
• **Red port supports 90W IEEE802.3bt**
• **Special 250m/820ft CCTV Mode**
• Hardware supports IP and MAC binding based on port, MAC filtering based on port, and IEEE802.1x port authentication
• Layer-two managed PoE switch
• Web management with friendly interface and easy operation
• PoE watchdog, Plug and Play
• 440mm x 300mm x 44mm / 17.32" x 11.81" x 1.73"

POESW24F

PoE/PoE+	Protection	Total Power Budget	L3 Managed
30W	6KV	≤350W	

24 Ports Gigabit Switch L3-Managed

• 24 GE PoE+4*10G (2 SFP modules)
• 24* 10/100/1000Base-T PoE RJ45 (Auto-MDI/MDI-X)
• 4*1000/10G Base-X SFP
• 1*RJ45-R232 serial port
• 1*10/100Base-TX RJ45 (only used to Web management)
• 6KV Contact discharge
• PoE Max. Power Output - 350W
• Power Supply 100~240VAC 50/60Hz, Auto-sensing
• 442mm x 320mm x 44.5mm / 17.4" x 12.6" x 1.75"
• 6.5kg / 14.33lb

Industrial Grade Surveillance Switches

POESW24U

UNIQUE CCTV Mode
250m / 820ft Extended Range PoE

PoE/PoE+ **30W** | Normal Mode **100m 100Mbps** | CCTV Mode **250m 10Mbps** | Protection **6KV** | Total Power Budget **≤390W**

24 Port Unmanaged PoE/PoE+ Switch

• Provide 24*10/100 Base-T downlink PoE Ethernet ports
• 2*10/100/1000 Base-T uplink Ethernet ports and 1*1000Base-X/SFP (Combo)
• **Special 250m/820ft CCTV Mode**
• POE Web Management
  Control the total power supply;
  On-ff PoE function of single port or whole machine;
  Limit PoE power of single port & set PoE output
• Unique Feature: One-key CCTV Mode
• 6KV Lightning Protection
• PoE Max. Power Output - 390W
• Voltage Input - AC 100V ~ 240V
• 442mm x 207mm x 44.5mm / 17.4" x 8.15" x 1.75"
• 2.79kg / 6.15lb

POESW24R2

PoE/PoE+ **30W** | Normal Mode **100m 1000Mbps** | Managed | Protection **6KV** | Total Power Budget **≤390W**

24 Port Managed PoE/PoE+ Switch

• 24* 10/100/1000 Base-T PoE RJ45
• 4* 1000 Base-X SFP
• 1* RJ45-R232 serial port
• 1* 10/100 Base-TX RJ45,
  (only used to Web management)
• L2 Management
• No Frame Loss IP Data Transmission
• 6KV Lightning Protection
• PoE Max. Power Output - 390W
• Voltage Input - AC 100V ~ 240V
• 442mm x 320mm x 44.5mm / 17.4" x 12.6" x 1.75"
• 4.35kg / 9.59lb

SW08

Protection **6KV** | Anti ESD **ESD** | Bandwidth **1000m** | Switching Loop

8 Port Unmanaged Gigabit Switch

• 8 Port Gigabit Ethernet Switch
• Plug and Play
• Transmission Distance 0 to 100 Meter
• IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3x standards
• Voltage Input - DC 5V
• Power Consumption - <2W
• 150mm x 85mm x 27mm / 5.9" x 3.35" x 1.06"
• 0.490kg / 1.08lb

POEDCSPLIT

PoE/PoE+ **30W** | Normal Mode **100m 1000Mbps** | Anti ESD **ESD** | Protection **6KV**

Industrial Gigabit PoE+ Splitter

• Power Supply: Support 36~60V wide voltage input, 25W high power consumption output and DC 12V/24V switch output
• Compatible with mode A(End-span) and mode B(Mid-span)
• Conversion efficiency ≥90%, reduce the heat
• Standard: accord with IEEE802.3af/at, IEEE802.3 10 Base - T/100Base-TX/IEEE802.3ab 1000Base-T
• Reliable connection: Network connectors adopt high-power PoE flat-pin RJ45 ports with 30u gold-plated
• Power output connectors support DC terminal and green terminal two styles
• Wide-temperature design:-40^{0}C ~75^{0}C/-40^{0}F ~167^{0}F wide range, the aluminum shell is good for heat dissipation
• Structure: small volume, easy installation, accord with MIT rack and wall-mounted installation
• 82mm x 63mm x 25mm / 3.23" x 2.48" x 0.98"
• 180g / 0.40lb

Two wire network extension over Coax or UTP

IPEX-1T

IPEX-1R

IPEXT-KIT

IPEXT-KIT includes:
• **1 set of Transmitter (IPEX-1T) & Receiver (IPEX-1R)**
• **2 Power Supplies**
• **2 sets of Mounting Brackets**
• **2 Baluns (Converts Coax cable to UTP)**
• **Installation Manual**

100 Meters Bandwidth	1200 Meters Coax	Point-to-Point	2KV Surge	MIT

Features:
- IPEXT-KIT consists of two parts: Transmitter (IPEX-1T) and Receiver (IPEX-1R)
- IPEX-1T has one RJ45 input port and two output ports: BNC and RJ45, and one 12V DC port
- IPEX-1R has two input ports: BNC and RJ45, one RJ45 output port and one 12V DC port
- Adopt advanced transmission technology to transmit via:
    - **Coax up to 1200m/3937ft**
    - **Ethernet Cable up to 700m/2296ft**
    - **Single twisted pair up to 700m/2296ft**
- Ethernet delay less than 1ms; point to point
- Standard: IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX
- Protection: excellent circuit isolation protection, anti-static and anti-interference
- Meets MIT rack installation standard
- Working temperature: 0^0C ~ 55^0C / 32^0F ~ 131^0F
- Installation: Plug-and-play, no setting required

UTP Balun included
For 2 wire connection

IP and POE over Coax Module(Pair)

IPPOECOAX-KIT

IPPOECOAX-KIT includes:
• **1 set of Transmitter (SV) & Receiver (IPC)**
• **2 sets of Mounting Brackets**
• **Installation Manual**

100 Meters Bandwidth	400 Meters Cat5/5e/6	500 Meters Coax	30W PoE/PoE+	Point-to-Point	MIT

Features:
- IPPOECOAX-KIT consists of two parts: Transmitter (SV) and Receiver (IPC)
- SV has one 48-57V DC port, one PoE input port and two output ports: BNC and RJ45
- Adopt advanced transmission technology to transmit via
    - **EPOE Coax up to 500m/1640ft**
    - **EPOE Ethernet Cable up to 400m/1312ft**
- Ethernet delay less than 1ms; point to point
- Standard: IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, IEEE802.3af/a
- Protection: excellent circuit isolation protection, anti-static and anti-interference
- Meets MIT rack installation standard
- Working temperature: 0^0C ~ 55^0C / 32^0F ~ 131^0F
- Installation: Plug-and-play, no setting required

Introducing... Watch*NET* Access Partner Program

Bidding & Consulting Support

Lead Generation

Free Certificate Training

Project Materials & Support

Project Based Design Support

Dedicated Dealer Support

Elevate your company's Industrial and Commercial Reach through the Watch*NET* Access Partner Program (WAPP)

Training
Free Certified Training Program (CTP), providing training for both Sales and Technical divisions including Design and Installation to Programming and Implementation in our state of the art training facilities.

Sales Support
Direct access to our International Sales teams to assist in onsite Access Control Demo's, Design and Configuration. As well as prioritized support for all Bid and Submission requests Including writing Specifications.

Dealer Portal
All WAPP System integrators will have a dedicated portal with Login credentials to access the latest information on products, updates, pricing and specific training videos.

Technical Support
Prioritized Technical Support and Onsite Support for early installations.

Partner Pricing
To ensure your sales are secured WAPP systems Integrators receive protected pricing.

Lead Generation
Watch*NET* Access Partner Program System integrators will have access to direct leads obtained through our website as well as A&E project based leads.

Marketing
WAPP System integrators will have direct access to valuable marketing materials including Banners, Trade Show Displays and Partner Specific Private Label Brochures designed by our own In-House marketing department.

Mission
The WAPP program is structured and designed to help build your access control business form the ground up. As a trusted manufacturer of security and Access Control for 20 years, Watch*NET*, will take on the responsibility of ensuring all your Access Control needs are met and that you will be successful!

Access Controller Kits

Access Controllers ENC KITs

WAC-2D2T-ENC-KIT
2 Door 2 Reader

PoE Power over Ethernet

TCP / IP

• 32 bit controller TCP/IP in
  Cabinet with Power supply
• 2 proximity Readers
• Free Software & license
  for 2 camera integration and
  up to 8 doors & 3000 users
• 10 Proximity Cards
Controller/Aux Power Included with battery charger

c **UL** us
LISTED
E478097

WAC-2D4T-ENC-KIT
2 Door 4 Reader

PoE Power over Ethernet

TCP / IP

• 32 bit controller TCP/IP in
  Cabinet with Power supply
• 4 proximity Readers
• Free Software & license
  for 2 camera integration and
  up to 8 doors & 3000 users
• 10 Proximity Cards
Controller/Aux Power Included with battery charger

WAC-4D4T-ENC-KIT
4 Door 4 Reader

PoE Power over Ethernet

TCP / IP

• 32 bit controller TCP/IP in
  Cabinet with Power supply
• 4 proximity Readers
• Free Software & license
  for 2 camera integration and
  up to 8 doors & 3000 users
• 10 Proximity Cards
Controller/Aux Power Included with battery charger

c **UL** us
LISTED
E478097

WAC-8D8T-ENC-KIT
8 Door 8 Reader

PoE Power over Ethernet

TCP / IP

• 32 bit controller TCP/IP in
  Cabinet with Power supply
• 8 proximity Readers
• Free Software & license
  for 2 camera integration and
  up to 8 doors & 3000 users
• 10 Proximity Cards
Controller/Aux Power Included with battery charger

c **UL** us
LISTED
E478097

Access Controllers 485 Kits

WAC-2D2T-485-KIT
2 Door 2 Reader

**PoE** Power over Ethernet

TCP / IP

• 2 door, 2 readers (WAR-EHA-485)
• 32 bit controller with TCP/IP in
  cabinet w/Power Supply
• Free Software (WAS-PRO-008)
• 10 cards (WAC-EMC-SID)
Controller/Aux Power Included with battery charger

WAC-4D4T-485-KIT
4 Door 4 Reader

PoE Power over Ethernet

TCP / IP

• 4 door, 4 readers (WAR-EHA-485)
• 32 bit controller with TCP/IP in
  cabinet w/Power Supply
• Free Software (WAS-PRO-008)
• 10 cards (WAC-EMC-SID)
Controller/Aux Power Included with battery charger

Access Control

Special Application Controllers
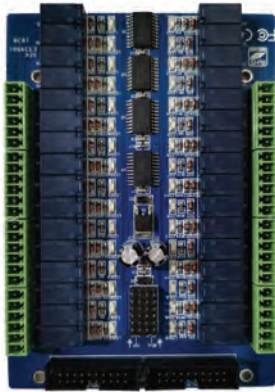
WAE-016-PCB / WAE-016-ENC
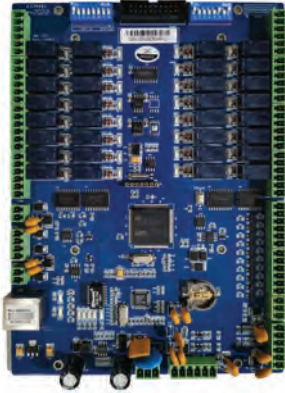
TCP / IP

Elevator Access Controller

• 32 bit ARM processor, 2 Watch-dogs
• Supports up to 16 floors
• 30,000 Cardholders, 200,000 Transactions
• Expandable up to 128 floors with
  7 x WAE-E16-PCB Modules
• Communication Mode: TCP/IP, RS-485(Option)
• Wiegand Reader: 2 pcs
• RS485 Reader: 2 pcs (Equal Wiegand)
• Operating Voltage: 12V DC (±10%)
• Operating Current: ≤800mA
• Standby Current: ≤150mA
• Working Temperature: -40^{0}C ~ 70^{0}C / -40^{0}F ~ 158^{0}F
• 1 Lithium battery backup (up to 10 years data retention)
• Metal case dimensions: 403mm x 384mm x 72mm
                         15.87" x 15.12 x 2.83"
• Weight: 0.2kg / 0.44lb (without metal case)
          4.7kg / 10.36lb (with metal case & PSU)

WAE-E16-PCB

**WAE-016-PCB with
WAE-E16-PCB Module on top**

Add-on Floor Control Module

• 3 Series Lift module, 16 Floors, 0 Readers, is a plug in
  module that increases the base 16 floors provided by
  the WAE-016-PCB controller by another 16 floors

• Connecting via a daisy chain ribbon cable, up to 7
  WAE-E16-PCB lift modules can be attach to the
  WAE-016-PCB controller

• With each WAE-E16-PCB lift module supporting 16
  floors, the WAE-016-PCB lift controller with
  7 x WAE-E16-PCB modules can support 128 floors

• If only a single module is required to give a total of
  32 floors, then this module can be piggybacked on
  top of the WAE-016-PCB

WAI-X1608-ENC / WAI-X1608-PCB

WAI-X1608-ENC   WAI-X1608-PCB

16 Input 8 Output I/O Controller

• CPU: 32 Bit Processor
• 8 Output Relays (NC/NO)
• 16 Inputs (NO)
• RS-232/RS-485/TCPIP interface
• POE: 802.1af
• TCP Communication speed: 100M
• 15 Time Groups for each relay
• Transaction Storage: 25,000 events
• Operating Voltage: 12V DC (±10%)
• WAA-ACP-004 PSU (16.5V 40VA
  Transformer & Battery Excluded)
• Operating Current: ≤200mA
• Standby Current:≤150mA
• Data Memory: 4M bit (protected)
• 1 Lithium battery backup
  (up to 10 years data retention)

Access Control

| WAR-EHO-MPX | **Multi proximity reader** |

• Multi technology / Multi format reader
• Modulation: ASK at 125 kHz
• Maximum read range: 150mm (6.00 in.)
• Output: W26/34 Options
• Operating Voltage: 7-12VDC
• Operating Current: 100mA
• Standby Current: 50mA
• Working Temperature:
  -30^{0}C to 65^{0}C / -22^{0}F to 150^{0}F
• Operating Humidity: 0 to 95%
• Buzzer Control Input: Dry Contact, Normally Open
• LED Control Input: Dry Contact, Normally Open
• Dimensions: 98mm L x 42mm W x 18mm D
  3.85" L x 1.63" W x 0.71" D
• Weight: 0.290kg / 0.63lbs

| WAR-EHA-485 | **Multi-Format Technology RS485 Proximity Reader** |

• Maximum read range: 150mm / 6.00in.
• RS485 distance to panel: ≤1200m / ≤0.746miles
• Modulation: ASK at 125 kHz
• Supports RS485 Output: AWID, EM, HID
• Operating Voltage: 7-12VDC
• Operating Current: ≤100mA
• Standby Current: ≤50mA
• Working Temperature: -30°C to 65°C
  -22°F to 150°F
• Operating Humidity: 0 to 95%
• LED Control Input: Dry Contact, Normally Open
• Buzzer Control Input: Dry Contact, Normally Open
• Dimensions: 86 (H) x 86 (W) x 21(D)mm
  (6.59 in. x 6.59 in. x 0.83 in.)
• Weight: 290g (0.63lbs)

| WAR-EHHS-VKR | **Vandal proof reader with keypad** |

• Maximum Read Range: 80mm
• Modulation: ASK at 125 KHZ
• Compatible Cards: HID, AWID, SIT, EM
• Operating Voltage: 7-15VDC
• Operating Current: ≤100mA
• Standby Current: ≤50mA
• Tamper Output: Optical Technology.
  Open collector, active low 32mA max
  sink current.
• Working Temperature:
  -30°C to 65°C (-22°F to 150°F)
• Operating Humidity: 0 to 95%RH
• Dimensions: 126mm x 90mm x 25mm
  4.96" x 3.54" x 0.98"
• Weight: 490g (1.05 lbs)

Long Range Readers

WAR-UHF-LR

Long Range UHF Reader
• RF output power up to 30dbm (adjustable)
• Standard ISM 865-868MHz, 902~928MHz
• Compliant with CE, FCC/ Multi-Tag Reading
• Support RS232, RS485, Wiegand interface
• Operation Temp.: -35°C~+50°C/-31°F~+122°F
• Storage Temp.: -10°C~+40°C/14°F~104°F
• Input Power: 100-240V, DC+9V
  (Power Adapter-included)
• Support auto-running, interactive and
  trigger-activating work mode
• SO18000-6B, ISO18000-6C (EPC G1G2)
• 12dBi antenna optional with effect distance
  up to 12m/39.4ft
• 3.5 W Power dissipation
• Dimension: 445 x 445 x 55mm
              17.5' x 17.5' x 2.16'

WAC-UHF-ISO
UHF Access Card

WAC-UHF-HLD
Windshield
Card Holder

WAC-UHF-TAG
UHF Sticker for vehicles/articles

WAR-EM1-LRR

Long range card reader

• Range in cm - 20cm
• Output - 26/34 bit
• Indicators - Blue/Green
• Size in mm - 260 x 260 x 35
• Frequency - 125 KHz
• Voltage - 7- 12V DC
• Operating Current - <100mA
• Standby Current - <50mA
• Working Temperature:
  -35^{0}C to 65^{0}C / -22^{0}F to 150^{0}F
• Operating Humidity - 0 to 95%
• LED Control Input - Dry Contact, N/O
• Buzzer Control Input - Dry Contact, N/O
• Weight - 1200g (2.64 lb)

Access Control

WAR-HAM-LRW
WAR-HAM-SRW

Long Range Wireless Receiver
• Frequency: 433 MHz
• Installation:Indoor & Outdoor (IP65)
• Cabling: 24 AWG min, multi-conductor
  stranded with an overall foil shield
• Interface: Wiegand
  (26 bit standard and custom formats)
• Voltage: 12 VDC
• Transmission: Rolling code + encryption
• Operating Temp.:
  -40° C to +65° C / -40° F to 149° F
Model WAR-HAM-LRW
• Weight: 12 oz. (340g)
• Current Draw: 120 mA typical @ 12VDC
• Read Range: Up to 200 feet (61 m),
  Installer adjustable
Model WAR-HAM-SRW
• Weight: 8 oz. (227g)
• Current Draw: 80 mA typical @ 12VDC
• Read Range: Up to 100 feet (30.5 m),
  Non-adjustable

WAC-HIT-WT2
WAC-HIT-WT4
433 MHz
Long Range Identification
Transmitters
with built-in proximity
access
HID (HIT) or AWID (AIT)
Format

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Mobile-Ready Proximity Readers

WAR-BLU-HIT — Mobile-ready Bluetooth Proximity Reader

- Technology: Proximity and Bluetooth Low Energy (BLE)
- Frequency: 125 kHz (proximity) and 2.4 GHz (BLE)
- Mounting: A single reader for metal door and window frames, single-gang wall boxes, and flat surfaces
- Dimensions:
  Mullion: 1.7" W × 4.7" H × 1.2" D
  (43mm × 119mm × 30mm)
  Switch Plate: 3" W × 5.1" H × 1.2" D
  (76mm × 130mm × 30mm)
- OEM Label Area:
  Backlit; Dimensions: 0.9" W × 0.35" H
  (22.86mm × 8.89mm)
  with corner radius of 0.06" (1.5mm)
- Certifications: FCC, ICC, CE
- IP Code IP67
- Voltage: +8 – 14 VDC
- Current Draw 60 mA typical @ 12 VDC, 90 mA peak
- Read Range: Physical Credentials: Up to 4 inches (102mm)
  Mobile Credentials: Up to 12 inches (306mm)
- Cabling: 24 AWG minimum, multiconductor stranded with an overall foil shield
- Interface: Wiegand (26-bit)
- Operating Temperature: –31°F to 150°F (–35°C to +66°C)
- Audio Tone: Beeper included standard
- Indoor & Outdoor Installation: Electronics sealed in weather and tamper-resistant epoxy potting
- LED: Five-state standard (blue, red, green, amber, and off)

WAR-BLU-HITKEYM / WAR-BLU-HITKEY — Mobile-ready Proximity Reader & Keypad

- Technology: Proximity and Bluetooth Low Energy (BLE)
- Frequency: 125 kHz (proximity) and 2.4 GHz (BLE)
- Mounting:
  WAR-BLU-HITKEYM: Mullions, including metal door and window frames, as well as flat surfaces
  WAR-BLU-HITKEY: Single-gang wall box, as well as flat surfaces
- Dimensions:
  WAR-BLU-HITKEYM: 1.78" W × 6.1" H × 0.91" D (45 mm × 155 mm × 23 mm)
  WAR-BLU-HITKEY: 3" W × 4.6" H × 0.75" D (76 mm × 117 mm × 19 mm)
- OEM Label Area:
  Backlit; Dimensions: 0.9" W × 0.35" H
  (22.86mm × 8.89mm)
  with corner radius of 0.06" (1.5mm)
- Certifications: FCC, ICC, CE
- IP Code IP67
- Voltage: +8 – 14 VDC
- Current Draw 60 mA typical @ 12 VDC, 90 mA peak
- Read Range: Physical Credentials: Up to 4 inches (102mm)
  Mobile Credentials: Up to 15 feet (4.6m)
- Cabling: 24 AWG minimum, multiconductor stranded with an overall foil shield
- Interface: Wiegand (26-bit)
- Operating Temperature: –31°F to 150°F (–35°C to +66°C)
- Audio Tone: Beeper included standard
- Indoor & Outdoor Installation: Electronics sealed in weather and tamper-resistant epoxy potting
- LED: Five-state standard (blue, red, green, amber, and off)

WAC-BLUCRED — Mobile Access Credential

- Technology: Bluetooth Low Energy (BLE)
- Frequency: 2.4 GHz
- Type: Smartphone mobile access credential, downloadable via WatchNET Access Wallet App
- Operation: iPhone or Android-based smartphones
- Formats Wiegand (26-bit)
- Marking: Date code and ID

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Access Control

WAB-P-FCKS — Biometric Access with Card Reader & Keypad

- Sleek Industrial design with an elegant white LCD
- New generation fully sealed, waterproof and dust-proof fingerprint sensor
- BioNano core fingerprint algorithm that can take care of damaged fingerprints
- Current version of algorithm that makes it a solid platform for T & A and Access Control
- High performance and reliability
- Easy user enrollment on the unit via Enroll Card or through the BioPAZZ management software installed on a computer
- Identification method: fingerprint, card, fingerprint + card
- EM RFID, Mifare card module. Compatible with industrial standard
- Fingerprint Storage Capacity: 2000 Internal
- Standard record capacity: 50000
- Communication to server via TCP/IP, RS485 and Mini USB port
- Standard Wiegand 26 bit output to connect with most access control systems

WAB-P-FCRS — High Security Biometric Finger Print Reader

- Wiegand output format following the card
- Dustproof, suitable for any installation site
- Fast response, anti-interference, low power consumption and good stability
- WDT watchdog, having a power-on self-test function
- Fast fingerprint matching speed, 480 fingerprints within one second
- Multithreaded code designed to take advantage of multi-core CPU
- 500dpi optical fingerprint sensor, anti scratch
- The world's leading fingerprint algorithm, refusing false fingerprints
- POE (Power Over Ethernet)
- Blue / Green light to show Valid or Invalid
- Production under ISO: 9001 standard system, high quality
- Wiegand output, TCP / IP
- 16MB Flash memory +4 MB RAM
- CPU - ARM, 32 Bits, Cortex-M4, 400MHz DSP

WAB-P-USB — USB Fingerprint Enrolment Reader

- USB fingerprint reader exclusively for fingerprint and card enrollment through the software from a centralized location
- This device utilizes an optical fingerprint scanner which is scratch proof, unbreakable and durable
- This enrollment reader utilizes blue area source (a stable light in spectrum) as background light
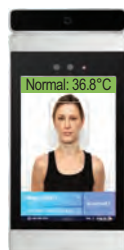- The generated image fully matches the real one making it accurate and interference free

Contactless Access Control Face Recognition Device With Built-In Thermal Temperature Detection

Applications:
- Office entrances
- Access gates
- Corporate buildings
- Factories and warehouses
- Labs and pharmacies
- Data Centers

Normal: 36.8°C

Caution: 38°C

WAF-428DT

Access Granted   Access Denied

Stand alone operation supported

Access Controller – 2 Door 2 Reader
- Supports RS232/RS485/TCP/IP
- Cards holder capacity: 30,000/100,000 (online mode)
- Transactions storage: up to 270,000
- Supports output activation using PIN from Keypad Readers
- 4 Built-in Inputs & 4 Built-in Outputs
- Up to 365 holidays
- 15 Time Zones for each door
- 24 sets of Flow Control
- Local and Global Anti-Pass back
- Programmable Door Status
- 32 KB ROM / 512B SRAM
- Multiple types of Events
- Data can be kept for 180 days without power

WAC-2D2T-ENC

E478097

Access Controller – 2 Door 4 Reader
- Cards holder capacity: 30,000/100,000 (online mode)
- Transactions storage: up to 100,000
- Supports output activation using PIN from Keypad Readers
- Up to 365 holidays
- Supports 500 Visitors
- 24 sets of Flow Control
- Local and Global Anti-Pass back
- Programmable Door Status
- 32 KB ROM / 512B SRAM
- Multiple types of Events
- 127 controllers for each RS485
- 4 Built-in Inputs & 2 Built-in Outputs
- Supports Master + Slave Group cards
- POE as Option is ready

WAC-2D4T-ENC

E478097

Access Controller – 4 Door 4 Reader
- Cards holder capacity: 30,000/100,000 (online mode)
- Transactions storage: up to 270,000
- Supports output activation using PIN from Keypad Readers
- Up to 365 holidays
- 24 sets of Flow Control
- Local and Global Anti-Pass back
- Programmable Door Status
- 32 KB ROM / 512B SRAM
- Multiple types of Events
- 127 controllers for each RS485
- 2 Built-in Inputs & 6 Built-in Outputs

WAC-4D4T-ENC

E478097

Access Controller – 8 Door 8 Reader
- Cards holder capacity: 30,000/100,000 (online mode)
- Transactions storage: up to 270,000
- Supports output activation using PIN from Keypad Readers
- Up to 365 holidays
- 24 sets of Flow Control
- Local and Global Anti-Pass back
- Programmable Door Status
- 32 KB ROM / 512B SRAM
- Multiple types of Events
- 6 Built-in Outputs
- 127 controllers for each RS485
- Up to 1,200 m for each RS485

WAC-8D8T-ENC

E478097

# Enterprise Class Management Software

Watch*NET* Access software is a powerful, network-based enterprise-level security management software that accommodates widely-dispersed applications with an unlimited number of users, controls thousands of doors, and allows you to simultaneously access the system.

The enhanced user experience makes navigation and operation easy and intuitive. Watch*NET* Access Software platform offers the ultimate balance between power and affordability in a network environment. It offers the flexibility to securely connect controllers directly on the network, as well as over RS-485.

Watch*NET* Access software is a fully integrated solution for Access Control, Intrusion Detection, CCTV, Time & Attendance, and Building Management. This powerful software manages multiple tasks using Windows 7 and Win 8 Professional Versions and supports databases such as MSSQL and MS Access.

The software's multi-database capabilities allow the customer the flexibility to choose either MS Access database or MS SQL database. Multiple users (software operators) with different levels of access can simultaneously access the system. The system starts with only a single user called "Administrator", and the administrator can create different users with different access levels enabling them with access only to data as allowed by their access rights or privileges. The same software supports stand-alone, small two-four doors installations, medium-size installation, and enterprise global systems. Just add more doors as you grow. Our licensing process is simple. There is a one-time cost based on hardware and functionalities needed. As you expand your operations, simply add features to your license via eMail while adding, not replacing, existing equipment.
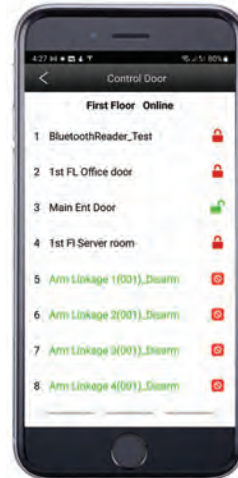
**Mobile Phone
&
Web Server Control**

Software Features:

- Easy icon based navigation
- Choice of colors & sounds for every event
- Auto detection of controllers on the network
- Auto or manual backup of the database
- Exporting events
- Quick Search / Add / Delete
- Interactive dynamic maps
- NVR / IP camera video integration
- Event Email notification
- Pop-up screens on specific events
- Unlimited users and user profiles
- SQL database standard
- Graphic Design – 4 layers of site maps. Maps can be any
- Picture type, JPEG, BMP File. Easy to use, just "Drag & Drop Doors Operation from ANY client (Based on permission)"

- Remote access support
- Email alerts
- Flow control-logical scenario response configuration using any of over 120 systems events as well as input or output statuses
- Time and Attendance built-in
- Visitor management
- Event response configuration
- Alarms and alerts functionality allow the use of auxiliary inputs
- and outputs to be configured as alarm points and alerts
- Supports most alarm sensors in the market
- Muster / Evacuation support
- Lockdown and active shooter scenario supported
- iOS and Android apps (Watc*NET* Access) available for remote controls of doors
- Software in multiple languages

Access Control Cards & Fobs

High Security Proximity Card

WAC-EMC-SID

- Card Type - Proximity Card
- Sensing Distance - Up to 15cm/5.90"
- Input Format - WG55,
  Customized Format
- Color - White
- Thickness - 0.76mm/0.30"
- Operating Frequency - 125KHz
- Size - 85.6mm × 54mm × 0.76mm
  3.37" × 2.13" × 0.20"
- Security Level - High

High Security Proximity Card

WAC-SID-CSH

- Card Type - Proximity Card
- Sensing Distance - Up to 15cm/5.90"
- Input Format - WG55,
  Customized Format
- Color - White
- Thickness - 2mm/0.079"
- Operating Frequency - 125KHz
- Size - 85.6mm × 54mm × 0.76mm
  3.37" × 2.13" × 0.20"
- Security Level - High

UHF Card

WAC-UHF-ISO

- Chip: ALIEN H3
- Support agreement: ISO18000-6C
  (EPC GEN2)
- Working mode: Broad spectrum
  frequency hopping (FHSS)
- Memory capacity: EPC: 96 bits, USER:
  512bits
- Card reader speed: Set by the software,
  single card read every 64bits less than
  10ms
- Label material: PVC / PET, the surface
  can be customized according to the
  printing pattern
- Working distance: With the reader
  and antenna (up to 10 meters or more)
- Working temperature:
  -20^{0}C~+80^{0}C / -4^{0}F~+176^{0}F

Clamshell Card

WAC-EMC-CSH

- Case Material: Shell / Cover: PVC
- Operation Temperature: -15^{0}C ~ +55^{0}C
  5^{0}F ~ +131^{0}F
- Storage Temperature: -20^{0}C ~ +60^{0}C
  -40^{0}F ^{0} +140^{0}F
- Chip Type Functionality: EM Card
- Operation Frequency: 125K Hz
- Protocol: ISO 7816
- Read Distance: Up to Max. 80mm / 3.15"
- Data Retention: Up to 10 year
  (<55^{0}C/<131^{0}F)

Printable Cards

WAC-HIC-ISO

- Case Material: PVC Blank White
- Operation Temperature:
  -15^{0}C ~ +55^{0}C / 5^{0}F ~ +131^{0}F
- Storage Temperature:
  -20^{0}C ~ +60^{0}C / -40^{0}F ^{0} +140^{0}F
- Chip Type Functionality: HID Card
- Operation Frequency: 125K Hz
- Protocol: ISO 7816
- Read Distance: Up to Max. 80 mm / 3.15"
- Data Retention: Up to 10 year

High Security Proximity Tag

WAC-EMT-SIT

- Tag Type: Proximity Tag
- Sensing Distance:
  Up to 10cm/3.9
- Data Format: WG55,
  Customized Format
- Thickness: 0.76mm/0.30"
- Operation Frequency: 125K Hz
- Security Level: High
- Size: 44mm × 31mm × 5mm
  1.73" × 1.22" × 0.20"

Proximity Tag

WAC-HIT-BLK

- Case Material: Poly carbonate
- Sensing Distance:
  Up to 10cm/3.94"
- Color: Blue
- Thickness: 4mm/0.16"
- Operating Frequency: 125KHz
- Size: 40mm × 32mm × 4mm
  1.57" × 1.26" × 0.16"

Access Control Accessories

WAA-USB-485 — USB to RS485 Protocol Converter

Protocol Converter to convert USB or RS-232 serial port data to RS-485. Enables 1 x USB or serial port to communicate with 127 controllers via RS-485.
Note: Suitable for testing only & should not be used to replace an onboard RS-232 Serial Card.
• USB Com Port
• Plug in after installing the driver
• Temperature: -30°C ~ 70°C / -22°F ~ 158°F
• Humidity: 5% ~ 95%
• Easy and User friendly installation
• Stable performance

ACC SERVER — Desktop Server (Preloaded software)

• Windows 7 Professional 64bit Operating System
• Intel® Core™ i3 / i5 / i7 Processor (Model specific)
• 4 Gigabyte 1600Mhz Memory
• 1TB SATA HDD
• HD Integrated Graphics
• VGA Port, DVD RW Drive, Ethernet Port, USB Ports
• Compact ATX Case
• Logitech USB Keyboard & Mouse

ACC-134-Server
ACC-154-Server
ACC-174-Server

WAC-1D2T-MICRO / WAC-1D2TH-MICRO — Single Door Network Controller

• 32 bit processor with 4M bit data memory
• Blue backlight, Touch Pad
• Cards holder capacity: 30,000 events
• Transactions storage: up to 15,000
• Work Mode: Card / PIN, Card + PIN, PIN only
• OLED dual color display to indicate Clock, Company, Name, Card No
• Communication: TCP/IP
• Compatible with all Wiegand reader format from 24 to 72 Bits
• Events Flow Control
• Supports 500 Visitors
• Including UDP Protocol
• CE, FCC, RoHS approval
• Built-in EM/HID Proximity Readers

TCP / IP

WAR-MPX-DTRS — Portable USB Multi-Format desktop reader

• Read Range: ≤8 cm / ≤3.15"
• Frequency: 125kHZ
• Communication Protocol: USB, Human Interface Device
• Operating Voltage: USB Power, 5VDC
• Reading Speed: <0.2s
• Working temperature: 30°C to 65°C / 22°F to 149°F
• Dimensions: 140(L) x 100(W) x 30mm(H) / 5.51(L) x 3.94(W) x 1.18"(H)
• Weight: 138g / 0.30lb

WAA-WTM-485 — Wireless Transmitter / Receiver

• Wireless point to point / Multipoint transmitter / receiver
• Up to 1000M range under normal conditions
• Selectable 4 channels for distortion free communication
• Interfaces for RS485/232
• Active driver with optical isolation
• 3 LED status indicators
• External interface for easy connection
• Easy configuration through RS232 port (No drivers needed)
• Baud rate: +/-115,200Bps, Buffer space: 5KB
• Built-in Microprocessor controlled circuit for high stability
• Shielded metal enclosure
• Suitable for indoor / outdoor parking / access control
• Auto enrolling transmitter / receiver no set-up required
• Compatible with WatchNET Access Controllers

WAD-2D2T-IP-DEMO — Access Control Demo

• 2-Door, 2 readers, 32 bit controller with TCP/IP
• 2 - IP Cameras
• 1 - Proximity Reader
• 1 - Keypad Reader
• 2 - Touchless Request to Exit button
• 2 - Toggles ON/OFF for Door sensor
• 4 - Toggles ON/OFF for AUX input
• 2 - LED lights to reflect as a lock for doors
• 2 - WAC-EMC-SID cards
• 1 - 12V DC PSU
• 1 - Ethernet cable

WAA-POW-04UL — 4CH Power Supply

• 4 Channel Power supply with ULC
• Input: 100 - 240V AC @50-60Hz
• Output voltage: 12VDC, +/- 15%
• Output current: 5Amp
• Over current protection: 6A+/- 5%
• Output channel: 4 channel
• Charge voltage: 13.5V
• Charge current (max): 1Amp
• Ripple & Noise: </= 100%
• Indoor use only

With built-in back up battery charger

E358365
4WZ0
I.T.E POWER SUPPLY

WAA-POW-09UL — 9CH Power Supply

• 9 Channel Power supply with ULC
• Input: 100 - 240V AC @50-60Hz
• Output voltage: 12VDC, +/- 15%
• Output current: 10Amp
• Over current protection: 6A+/- 5%
• Output channel: 9 channel
• Charge voltage: 13.5V
• Charge current (max): 1Amp
• Ripple & Noise: </= 80%
• Indoor use only

With built-in back up battery charger

E358365
4WZ0
I.T.E POWER SUPPLY

EMB-ALARM

Features:
- Supports through RS485 access to the back-end storage
- Supports 16ch Alarm In / 6ch Alarm Out interface
- Supports 2-bit DIP switch (0/1) to determine the different alarm box access; Max support 4 alarm boxes having access to the back-end storage device
- Supports universal 12V power supply; Supports using a separate adapter or through 1 to 2 power cable using the DVR adapter to supply the alarm box with power
- The front panel has a power indicator (PWR) which maintains lightening when the device is powered up;
- The front panel has a signal communication indicator (ACT) which lights up every 1 second when the communication is established between the alarm box and DVR equipment
- Linked alarm can be configured on the alarm input and output interface when the communication is established between DVR device and the alarm box

Technical Specifications:

Model	EMB-ALARM
Communication	1 RS485 port
DIP Switch	2-bit
Alarm In	16ch
Alarm Out	6ch
Power Supply	12V/1A (Or use 1 to 2 power cable to use the DVR power
Power Consumption	0.2W
Operating Temperature	-10°C ~ +55°C (+14°F ~ +131°F)
Operating Humidity	10%~ 90% RH
Dimensions	97.68mm x 90.3mm x 33mm (3.85" x 3.56" x 1.3")
Net Weigh	≤0.2kg (0.44lb)
Installation	Desktop installation

Note: This device works with new embedded system (After 2017 units) which has RS485 connection.

IP-DEC-04R3	Spot Monitor Decoder	IP-DEC-08R3

- New user interface
- Max. decoding capability:
  4× 1080p@30 fps
  Supports adaptive decoding
- Video Access Channel: 4CH
- Multi-channel playback: Up to 4CH
- 4K Resolution
- Audio Input: 1 × RCA
- Audio Output: 1 × RCA

- New user interface
- Max. decoding capability:
  8× 1080p@30 fps
  Supports adaptive decoding
- Video Access Channel: 8CH
- Multi-channel playback: Up to 8CH
- 4K Resolution
- Audio Input: 1 × RCA
- Audio Output: 1 × RCA

Special Accessories

Special Accessories

KBD-950NET

Network PTZ Controller

• One keyboard can control multiple PTZ/DVRs
• Supports full PTZ menu operation
• Supports RS485 port and RS232 port
• 3D joystick control
• E Series DVR control
• Lock keyboard to prevent unauthorized use
• Supports multiple-level operation rights
• Sleek and stylish design

MIC-DVR-A

Amplified DVR Microphone

• Adjustable sensitivity
• Range up to 150 square meters
• Wall mountable
• Power supply: 6 ~ 12 VDC
• Dissipation circuit: 10mA
• Frequency response: 300 ~ 5500HZ
• Output signal
• Out impedance: 600 Ω
• Out level: 0 ~ 6V

POW-PTZ-AC-DOME

PTZ - AC Power Supply

• Input - 120VAC 60Hz
• High quality Die cast aluminum
• Output - 24V

POW-12V-1A

12V DC 1 AMP Single Transformer

• Plug-in AC to DC power adapter provides
  12VDC power up to 1.0A with center
  positive 2.1mm barrel connector
• Input 110-240VAC. cUL safety approved

BALUN-4K

UTP Video Transceiver
• 1 CH Passive video transceiver
• Hi Performance Color Matched Video
  Balun for XVI, CVI, AHD, TVI & Analog
• Resolution: 720P / 1080P / 2K / 4K
• Transmission Signal:
  HDCVI: 720P: 300m, 1080P: 250m,
  4MP: 200m, 5MP: 150m, 8MP: 150m
• Category Type: UTP CAT5 / 5E / 6
• Operating Temperature:
  -35°C- 55°C / -31°F- 67°F
• Storage Temperature:
  -20°C- 70°C / -4°F- 94°F

POW-12V-4CH

4CH 12 Volt PTC Protected power supply

• Input Voltage AC 100~240V, 50-60Hz
• Output Voltage DC11V-15V
• Total Output Current 5A
• Total Output Channel 4CH
• Fuse type PTC Resettable
• Fuse Rating 2A
• Ripple & Noise <=120mv
• Efficiency >=88%
• Storage Temperature -40°C - 85°C
                        -40°F - 185°F
• Operating Temperature -20°C - 60°C
                        -4°F - 140°F
• Net Weight 419g / 0.92lb
• Dimension 138.6 * 54.8 * 37mm /
        5.46 * 2.168 * 1.46inch
• Warranty 1 Year

WT-GLI-X

External Power Isolator

• Power supplyisolator, to solve the
  HDCVI image interference caused
  by power supply effectively

• Apply to indoor or in junction box

• Working temperature:
  -30°C ~ +60°C / -22°F ~ +140°F

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- Project registration discount
- Discount on demo equipment
- Pricelist updates

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- A & E Specs
- Online system configuration
- System engineering support
- Project design & consultation

WatchNET Training
- WatchNET Access Partner Program (WAPP)
- WatchNET Master Certification
- Installation training
- Classroom and online training

Technical Support
- RMA requests online or via phone
- Warranty

RETAIL

Watch*NET* retail video loss prevention systems not only capture clear video of events on real time but also integrate to most cash register and weigh scales to overlay the text on the video for accurate analyses of events.

Watch*NET* sales analytic functions such as Conversion Rates, Heat Maps, People Counting, Queue Length, Dwell Times, POS integration for sales transactional reports, can significantly help retailers to plan sales strategy, boost productivity and maximize profit.

COMMERCIAL / INDUSTRIAL / HEALTHCARE

CCTV plays a big role in the commercial, industrial and healthcare applications. It is not only used to prevent theft but also keep an eye on the production line, employee behavior and following safety protocols. With analytical feature like missing object, foreign object, video loss, license plate recognition or people counting, it maintains a high degree of security.

Watch*NET* also offers access control solution for staff, parking and facilities management.

RESIDENTIAL

When it comes to residential security for personal and property protection, Watch*NET* offers a complete line of CCTV and access control solutions to accommodate applications from single family homes to high-rise condominium towers with over 300 suites.

With Watch*NET*'s access control, you can manage traffic flow in and out of the property, including elevators and parking garages.

EDUCATION

Video surveillance is not only a major deterrent in educational institutions, but is mandatory in many municipalities. It offers increased security for property, students and staff alike.

Coupling Watch*NET*'s CCTV system with our access control system can further increase security within the premises by controlling and monitoring the faculty's access and schedules.

BANKING

Covert video cameras installed in ATM machines have proven to help in reducing fraud and vandalism.

Watch*NET* systems have the ability to integrate to ATM machines for text overlay of all banking transactions and record them along with video. This helps in providing a recorded log of all events that occur at the ATM.

LAW ENFORCEMENT

Watch*NET* has unique special application products that are used in many Police stations around the world. Solutions for Interview room audio and video recording applications to covert cameras to mobile video systems for vehicles. Watch*NET* unique auto play and video exporting technique allows the backed up evidence to be played on any PC with Watermark and authentication. This provides video to be verified as tamperproof to be admissible in court.

CASINO / GAMING

The gaming industry is one of the finest examples of a large-scale security integration system in the world where nothing including sleight of hand can go undetected. It can involve over 2,000 cameras with a Video Management System for centralized monitoring and full system control. This often entails integrating the alarm system and access control system into the same monitoring system. Watch*NET* offers a complete turnkey solution for this application.

AIRPORT

There is perhaps no other facility that demands the ultimate in security than airports. This involves HD quality network cameras to high security access control systems utilizing proximity and biometric readers. Watch*NET* offers a complete line of cameras that offer preset capability to zoom in on any alarm trigger and promptly alert the operator.

TRANSPORTATION

Public transportation such as bus depots, train stations, airports and public parking garages can all benefit from video surveillance for property and personal protection.

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