WatchNET®

SECURITY SINCE 2000

20 YEARS

Integrated CCTV and Access Control Solutions

Product Catalog

www.watchnetinc.com

V 26.09.2020

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

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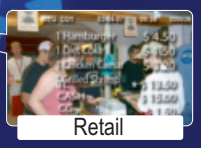
WatchNET®
SECURITY SINCE 2000

Commercial

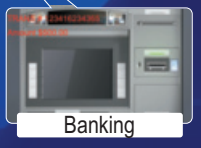
Airport

Educational


Retail

Manufacturing

Law Enforcement

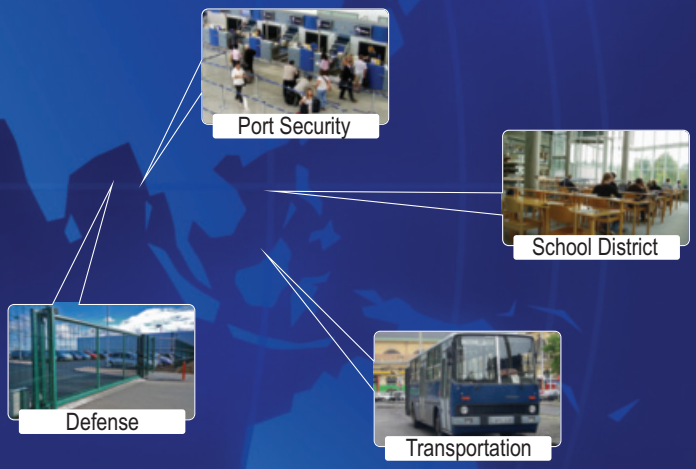

Banking

Corporate offices

CANADA **USA** **UAE**

PRESTIGIOUS INSTALLATIONS AROUND THE WORLD NO PROJECT IS OUT OF REACH WITH A WATCHNET INTEGRATED SOLUTION

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



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

- 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)

Customized system design available for projects

- 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.

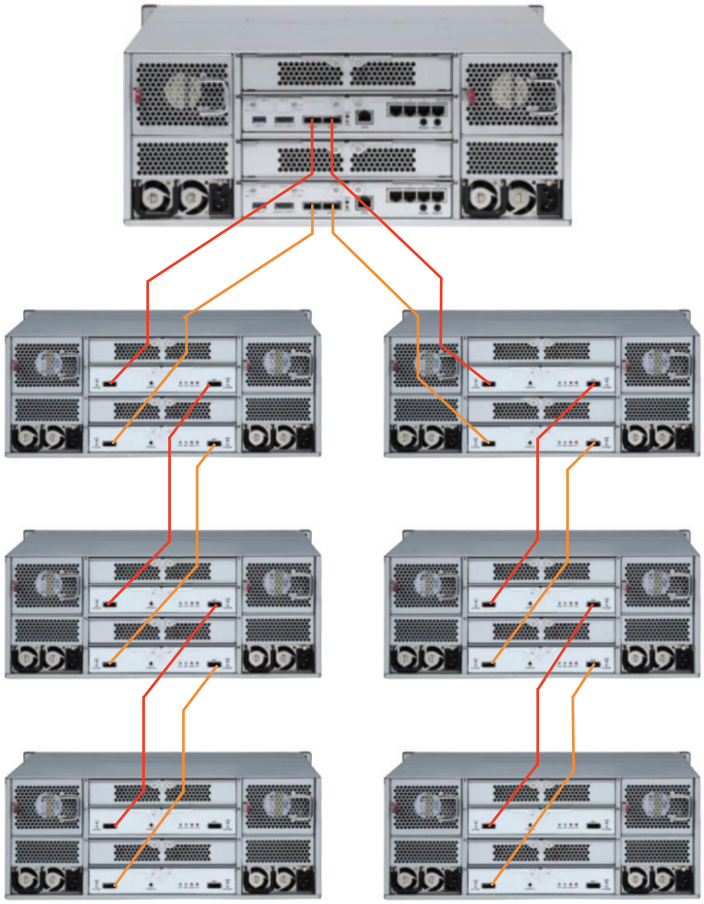
- Watch*NET* provides High end processors and a RAID enclosure in one easy hot swappable pull-out chassis, resulting in both space and cost savings. RAID 0, 1, 5, 6, 10, 50, 60 and JBOD, support is available through a hardware-based RAID controller that removes the loading on the processor.

- 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.

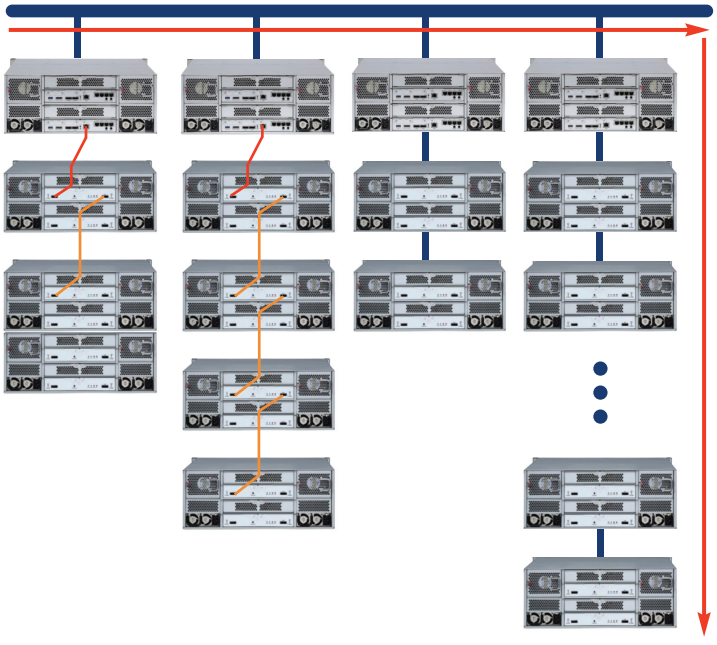
- Dual controller configuration has the primary system in operation with the other controller providing backup for redundant data storage. If the primary system detects and issue, the back-up system is activated immediately, allowing the NVR to record in a continuous manner. The switch-over to the secondary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

Enterprise NVR 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

- 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

- 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 Inputs & Relay Outputs - 16x8
- Expandable storage up to 48TB using **WN-ESS08A**

ENX-SAS24 / WN-ESS08A - Expansion Storage Units

ENX-SAS24

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

WN-ESS08A

Model WN-ESS08A
- 2U standard 19-inch rack case
- eSATA port transmission speed up to 3Gbps
- Max support Internal 8 SATA HDD up to 48TB

HD VMS

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

EN-16POEAI

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

16 Channel 1U AI PoE NVR

- 16 Channel IP video access
- 16 Built-in PoE Portss
- Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
- Up to 4 Channel fenced Area Protection
- Up to 2 Channel video stream face recognition/ 8 channel picture stream face recognition (with AI Face Detection Camera)
- 2 SATA III Ports, Up to 8 TB capacity for each HDD
- Up to 12 face pictures /sec processing
- Up to 10 face databases with 20,000 face images in total

AI Features:

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

EN-64AI

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

64 Channel 2U AI NVR

- 64 Channel IP video access
- Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
- Up to 16 Channel perimeter 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

ENR2-32AI

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

32 Channel 1.5U AI NVR

- 32 Channel IP video access
- Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
- Up to 4 Channel fenced area protection
- Up to 2 Channel video stream face recognition/ 8 channel picture stream face recognition (with face detection camera)
- 4 SATA III Ports, Up to 8 TB capacity for each HDD
- Up to 12 face pictures /sec processing
- Up to 10 face databases with 20,000 face images in total

AI Features:

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

ENMR2-04POE / ENMR2-08POE

c UL us LISTED E498424

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

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

4K

PoE · ONVIF · P2P (EASY REMOTE CONNECTION BY QR CODE)

4/8 Channel 1U PoE NVR 4K HDMI Output

- Quad-core embedded processor
- Max 80Mbps Incoming Bandwidth
- 1 SATA III Port, Up to 10 TB capacity for each HDD
- Up to 8MP Resolution for Preview and Playback
- H.264/H.265 codec decoding
- 3D intelligent positioning with Watch*NET* PTZ camera
- Supports iPhone, Android

Model ENMR2-04POE:
- 4 Ports PoE built-in
- Supports total of 4 IP cameras

Model ENMR2-08POE:
- 8 Ports PoE built-in
- Supports total of 8 IP cameras

ENMR2-16POE

c UL us LISTED E498424

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

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

4K

16 Ports PoE Built-in · ONVIF · P2P (EASY REMOTE CONNECTION BY QR CODE)

16 Channel 1U PoE NVR 4K HDMI Output

- Quad-core embedded processor
- 16 Ports PoE built-in
- Supports total of 16 IP Cameras
- Limited integration with ONVIF cameras on all models
- Max 80Mbps incoming bandwidth
- 2 SATA III Port, Up to 10 TB capacity for each HDD
- Up to 8MP Resolution for preview and playback
- H.264/H.265 codec decoding
- Supports iPhone, Android
- 3D intelligent positioning with Watch*NET* PTZ camera

ENR2S-32

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

Linux · HDMI · VGA · H.265 · H.264 · USB · 2X

4K

ONVIF · P2P (EASY REMOTE CONNECTION BY QR CODE)

32 Channel 1.5U NVR

- Quad-core embedded processor
- Supports 4K ultra HD resolution (3840 x 2160) for recording, live viewing and playback
- Up to 8MP Resolution for Preview and Playback
- **Dual Network Ports**
- Max 200Mbps Incoming Bandwidth
- H.265 / H.264 codec decoding
- HDMI / VGA simultaneous video output
- 4 SATA III Port, Up to 10 TB capacity for each HDD
- Supports iPhone, Android
- 3D intelligent positioning with Watch*NET* PTZ camera

MPIX PoE IP MegaPixel Fast Pack Kits

4CH NVR Fast Pack		**4** CH + **4** Cameras	4CH MPIX Kit 5.0 MegaPixel IP Cameras 4 CH ENMR2 NVR w/ 1TB HDD 4 Port PoE Built-In	**ENM-04KIT4-50IRBFT** (MPIX-50IRBFT-IR28AI) 2.8mm Lens	x4	
8CH NVR Fast Pack		8CH + **6** Cameras	8CH MPIX Kit 5.0 MegaPixel IP Cameras 8 CH ENMR2 NVR w/ 2TB HDD 8 Port PoE Built-In	**ENM-08KIT6-50IRBFT** (MPIX-50IRBFT-IR28AI) 2.8mm Lens	x6	
16CH NVR Fast Pack		**16** CH + **8** Cameras	16CH MPIX Kit 5.0 MegaPixel IP Cameras 16 CH ENMR2 NVR w/ 2TB HDD 16 Port PoE Built-In	**ENM-16KIT8-50IRBFT** (MPIX-50IRBFT-IR28AI) 2.8mm Lens	x8	

MPIX-80IRPTZAI

8 MegaPixel

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

SENSEFIER Ultra low light enhancement

ONVIF · PoE

4K

Optional: Water-proof Power Box BRACK-PTZ-BOX

8MP 4K 40x IR PTZ AI Network PTZ Camera

- 5.6mm ~ 223mm (40x Optical zoom)
- Max. 25/30fps@4K
- IR distance up to 500m/1640ft
- AI Auto Tracking of person and/or Vehicle
- Smart wiper
- Built-in 7/2 alarm inputs/outputs
- WDR(120dB), IP67, Supports Hi-PoE
- Micro SD memory card up to 256GB
- Operating Conditions: -40°C ~ 70°C
  -40°F ~ +158°F
- Support metadata
- Wallmount Bracket Included

AI Functions:

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

MPIX-50VDF-IR28AI2W

NEW PRODUCT

5 MegaPixel

Mic. Speaker · IP67 · WDR · IK10 · Micro SD · Line Crossing · Face Capture · Missing Object · Abandoned Object · Heat Map · Counting

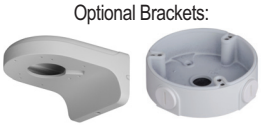
PRO SERIES

TWO WAY AUDIO

Active deterrence camera

SENSEFIER Ultra low light enhancement

Optional Brackets:



BRACK-WM-48 BRACK-BB-48

ONVIF · PoE

5MP AI IR Fixed focal Dome Network Camera

- 1/2.7" 5Megapixel progressive scan CMOS
- 2.8mm fixed lens
- Outputs 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-50VDF-IR28AI

5 MegaPixel

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

AI Motion

ONVIF · PoE

Optional Brackets:

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

5MP AI IR Fixed focal Dome Network Camera

- 1/2.7" 5Megapixel progressive scan CMOS
- H.265 codec, high compression rate, low bit rate
- Outputs 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)

MPIX-50IRBFT-IR28AI/MPIX-50IRBFT-IR28AI-B

5 MegaPixel

WDR IP67 Micro SD Intrusion Line Crossing AI Motion

AI Motion

ONVIF PoE

Optional Brackets:

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

BRACK-BB-43-B

5MP AI IR Fixed focal Turret Network Camera

- 1/2.7" 5Megapixel progressive scan CMOS
- H.265 codec, high compression rate, low bit rate
- Outputs 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
- 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-IRVAI

5 MegaPixel

WDR IP67 Micro SD Intrusion Line Crossing AI Motion

AI Motion

ONVIF PoE

Optional Brackets:

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

5MP AI IR Vari-focal Dome Network Camera

- 1/2.7" 5Megapixel progressive scan CMOS
- H.265 codec, high compression rate, low bit rate
- Outputs 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-40LEDT-NPC28AI

4 MegaPixel

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

NightPixel COLOR Low Light Enhancement

ONVIF PoE

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

NightPixel COLOR Low Light Enhancement

ONVIF PoE

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

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-40VDV-IRMAI

4 MegaPixel

PRO SERIES

NightPixel ULTRA Low Light Enhancement

ONVIF PoE

IK10 | Ultra WDR | IP67 | Micro SD | Face Capture | Line Crossing | Counting | Motorized Lens

Optional Brackets:

BRACK-WM-63

BRACK-BB-63

BRACK-PM-63

4MP WDR IR Dome AI Network Camera

- 1/1.8" 4Megapixel progressive scan CMOS
- H.265 & H.264 triple-stream encoding
- Ultra WDR(140dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- 2.7mm - 12.0mm motorized lens
- 1/1 Alarm in/out, 1/1 audio in/out
- Max. IR LEDs Length 40m/131ft
- Micro SD memory, IP67, IK10, PoE+
- Supports 12VDC/24VAC if not using PoE+
- Operating Conditions: -30°C ~ +60°C
  -22°F ~ +140°F
- Power Consumption:
  DC12V: 4.9W 12.4W(IR on)
  AC24V: 5.1W 11.9W (IR on)
  PoE: 5.2W 11.6W (IR on)

PRO AI Functions:

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

MPIX-40BIMRAI

4 MegaPixel

PRO SERIES

NightPixel ULTRA Low Light Enhancement

ONVIF PoE

IK10 | Ultra WDR | IP67 | Micro SD | Face Capture | Line Crossing | Counting | Motorized Lens

Optional Bracket:

BRACK-BB-53
Wall Mount Bracket Included

4MP WDR IR Dome AI Network Camera

- 1/1.8" 4Megapixel progressive scan CMOS
- H.265 & H.264 triple-stream encoding
- Ultra WDR (140dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC, Smart IR
- 2.7mm-12.0mm motorized lens
- 2/1 Alarm in/out, 1/1 audio in/out
- Max. IR LEDs Length 50m/164ft
- Micro SD card 256 GB, IP67, IK10, PoE+
- Supports Electronic Image Stabilization (EIS)
- DC 12V (±30%), PoE+ (802.3at) (Class 4)
- Operating Conditions: -30°C ~ +60°C
  -22°F ~ +140°F
- Power Consumption: <10.9W

PRO AI Functions:

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

MPIX-40IRPTZAI

4MP 40x IR PTZ AI Network PTZ Camera

- 5.6mm ~ 223mm (40x Optical zoom)
- IR distance up to 500m/1640ft
- AI Auto Tracking of person and/or Vehicle
- Smart wiper
- Built-in 7/2 alarm inputs/outputs
- WDR(120dB), IP67, Supports Hi-PoE
- Micro SD memory card up to 256GB
- Operating Conditions: -40°C ~ 70°C
  -40°F ~ +158°F
- Support metadata
- Wallmount Bracket Included

AI Functions:

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

Optional:
Water-proof
Power Box
BRACK-PTZ-BOX

www.watchnetinc.com

WatchNET Providing Security Solutions Since 2000

360° PANORAMIC HD CAMERAS

12MP 360° Panoramic IR View Fisheye Network Camera

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 128GB

Optional Brackets:

BRACK-WM-Tilt

BRACK-MX-60-360

12MP 360° Panoramic IR View Fisheye Network Camera

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
- IP66 weather proof

E498424

MPIX-80IRBVT

Optional Brackets:

BRACK-WM-48

BRACK-BB-48

BRACK-PM-06

3 AXIS

8MP WDR IR Turret Network Camera

- 1/2.5” 8MP progressive scan CMOS
- 2.7mm - 12mm motorized lens
- Max. IR length 50m/164ft
- 15fps@4K(3840×2160), 25/30fps@3M(2304×1296)
- Day/Night(ICR), 3DNR, Auto Iris, AWB, AGC, BLC
- Angle of View: H:110°~40°, V:58°~23°
- H.265 & H.264 triple-stream encoding
- Ultra Low Light Enhancement
- WDR up to 120dB
- Built-in Microphone
- Micro SD memory 128GB, IP67, PoE
- Built-in web server & Multifunction VMS
- Operating Temperature: -30°C ~ +60°C
  -22°F ~ +140°F
- Supports iPhone, Android

MPIX-80IRBVTR2

BRACK-WM-48

Optional Brackets:

BRACK-BB-48

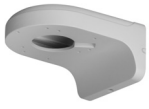
BRACK-PM-06

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**

MPIX-80IRBFT

Optional Brackets:


BRACK-WM-49

BRACK-BB-43

BRACK-PM-06

3 AXIS

8MP WDR IR Turret Network Camera

- 1/2.5” 8MP progressive scan CMOS
- 2.8mm fixed lens
- Max. IR Length 50m/164ft
- 15fps@4K(3840×2160), 25/30fps@3M(2304×1296)
- WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- IP67, PoE
- Ultra Low Light Enhancement
- H.265 & H.264 triple-stream encoding
- Micro SD slot - 128GB max
- Built-in Microphone (Optional, special order)
- Built-in web server & Multifunction VMS
- Operating Temperature: -30°C ~ +60°C
  -22°F ~ +140°F
- Supports iPhone, Android

MPIX-80BIMR

Optional Bracket:

BRACK-BB-53

Motorized

Remote Zoom & Focus Lens

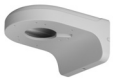
8MP WDR IR Motorized Bullet Camera

- 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

MPIX-80VDF-IR28R2

Optional Brackets:

BRACK-BB-48



BRACK-WM-48

BRACK-PM-06

8MP WDR IR Network Dome Camera

- 1/1.8" 8Megapixel progressive CMOS
- H.265 & H.264 dual-stream encoding
- 25/30fps@8MP(3840×2160)
- WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- 2.8mm fixed lens
- Max IR LEDs Length 30m/98ft
- IP67, IK10, PoE
- Multiple network monitoring:
  Built-in web server & Multifunction VMS
- Operating Temperature: -30°C ~ +60°C
  -22°F ~ +140°F
- Supports iPhone, Android

Supports multiple analytic functions

MPIX-80VDV-IRM

Optional Brackets:

BRACK-WM-63

BRACK-BB-63

BRACK-PM-63

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

MPIX-40VDF-IR28R2

Optional Brackets:

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

4MP IR Mini Dome Network Camera

- 1/3" 4MP progressive scan CMOS
- LENS: 2.8mm fixed lens
- Max. IR length 30m/98ft
- 4MP (2560 × 1440)@25/30 fps, max. supports 4MP (2688 x 1520) @ 20 fps
- H.265+ & H.265 dual-stream encoding
- WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- IP67, IK10, PoE, Max. 256 GB Micro SD card
- Multiple network monitoring: Built-in web server & Multifunction VMS
- Supports iPhone, Android
- Operating Temperature: -40°C ~ +60°C -40°F ~ +140°F

MPIX-40VDV-IRVR2

Optional Brackets:

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

Motorized

Remote Zoom & Focus Lens

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

MPIX-40BILRW

Optional Bracket:

BRACK-BB-53

Motorized

Remote Zoom & Focus Lens

4MP HD WDR IR Bullet Camera

- 1/3" 4MP progressive scan Aptina CMOS
- 7mm - 35mm motorized 5x zoom lens
- Max. IR length 100m/328ft
- H.264 & H.265 triple-stream
- Ultra Low Light Enhancement
- WDR up to 120dB
- 25/30fps@4MP(2688×1520)
- Day/Night(ICR), 3DNR, Auto Iris, AWB, AGC, BLC
- 2/1 Alarm in/out, 1/1 Audio in/out
- Micro SD memory 128GB, IP67, PoE
- Multiple network monitoring: Built-in web server & Multifunction VMS
- Operating Temperature: -30°C ~ +60°C -22°F ~ +140°F

** Wall Mount Bracket Included*

MPIX-40IRBFT

Optional Brackets for both models:

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

4MP WDR Ultra IR Turret Camera

- 1/3" 4MP progressive scan CMOS
- 2.8mm fixed lens
- Max. IR Length 50m/164ft
  -30°C ~ +60°C / -22°F ~ +140°F
- 25/30fps@4M(2688×1520)
- WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- H.265 & H.264 triple-stream encoding
- IP67, PoE, Micro SD memory 128GB
- Multiple network monitoring:
  Built-in web server & Multifunction VMS
- Supports iPhone, Android

MPIX-40IRBFTL / MPIX-40IRBFTL-B

Optional Brackets for both models:

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

4MP WDR Ultra IR Turret Camera

- 1/3" 4MP progressive scan CMOS
- 2.8mm fixed lens
- Max. IR Length 35m/115ft
  -40°C ~ +60°C / -40°F ~ +140°F
- 25/30fps@4M(2688×1520)
- WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- H.265 & H.264 triple-stream encoding
- IP67, PoE, Micro SD memory 128GB
- Multiple network monitoring:
  Built-in web server & Multifunction VMS
- Supports iPhone, Android

MPIX-40BIVF

Optional Bracket:

BRACK-BB-37

Motorized

Remote Zoom & Focus Lens

4MP WDR Ultra IR Bullet Camera

- 1/3" 4MP progressive CMOS
- 2.7 ~ 13.5mm motorized varifocal lens
- Max. IR Length 60m/197ft
- 20fps@4M(2688×1520)&25/30fps@3M(2304×1296)
- WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- H.265 & H.264 dual-stream encoding
- IP67, PoE, Micro SD memory, up to 128GB
- Multiple network monitoring:
  Built-in web server & Multifunction VMS
- Operating Temperature: -30°C ~ +60°C
  -22°F ~ +140°F
- Supports iPhone, Android

Supports multiple analytic functions

MPIX-40BIR-K28R2

SENSEFIER Ultra low light enhancement

ONVIF PoE

Optional Bracket:

BR-BOX-MXC

4MP IR Network Bullet Camera

- 1/3" 4MP progressive scan CMOS
- 2.8 mm fixed lens
- Max. IR LEDs length 30m/98ft
- Outputs 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-40BIR-K28

ONVIF PoE

Optional Bracket:

BR-BOX-MXC

c UL us LISTED E498424

4MP IR Network Bullet Camera

- 1/3" 4MP progressive scan CMOS
- 2.8 mm fixed lens
- Max. IR LEDs length 30m/98ft
- Max 20fps@4MP(2688×1520), 25/30fps@3MP(2304x1296)
- WDR(120dB), Day/Night(ICR), 3DNR, HLC, AGC, BLC
- IP67, PoE, Supports DC12V power supply
- Operating Temperature: -30°C ~ +60°C -22°F ~ +140°F

IR WDR IP67 H.265+ H.264+ PoE

MPIX-40VDV-IRM

c UL us LISTED E498424

ONVIF PoE

PRO SERIES

SENSEFIER Ultra low light enhancement

Optional Brackets:

BRACK-BB-63

BRACK-WM-63

4MP IP Vandal Proof Dome Camera

- 1/3" 4MP progressive scan Aptina CMOS
- 2.7mm - 12mm motorized lens
- Max. IR length 50m/164ft
- Max 25/30fps@4Mp(2688×1520)
- WDR up to 120dB
- H.265+/H.265/H.264+/H.264
- Smart Detection supported
- 1/1 Alarm in/out, 1/1 Audio in/out
- Micro SD memory 128GB, IP67, IK10, PoE+
- Operating Temperature: -30°C ~ +60°C -22°F ~ +140°F

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

MPIX-40VDV-IRMLR

ONVIF PoE

DC12V AC24V

PRO SERIES

SENSEFIER Ultra low light enhancement

Optional Brackets:

BRACK-WM-63

BRACK-BB-63

BRACK-PM-63

4MP IP Vandal Proof Dome Camera

- 1/3" 4MP progressive scan Aptina CMOS
- 7mm ~ 35mm 5X zoom motorized lens
- Max. IR length 100m/328ft
- Max 25/30fps@4Mp(2688×1520)
- WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Micro SD card, Max 128GB
- H.265 & H.264 triple-stream encoding
- Smart Detection supported
- 1/1 Alarm in/out, 1/1 Audio in/out
- Micro SD memory, IP67, IK10, PoE
- Operating Temperature: -30°C ~ +60°C -22°F ~ +140°F

PoE WDR IP67 Micro SD IK10 Motorized Lens H.265

MPIX-40SBC

NEW PRODUCT

Call for availability!

**Lens not included*

Optional Housings:

SOH-BC

SOH-BC-IR

SPECIAL ORDER

PRO SERIES

BRACK-BOX
Optional

ONVIF PoE

4.0MP WDR Box Camera

- 1/3" 4MP progressive scan CMOS
- H.264 & MJPEG dual-stream encoding
- Max 20fps@4MP(2688×1520) and 25/30fps@3MP(2304×1296)
- WDR(120dB),Day/Night(ICR),3DNR,AWB,AGC,BLC
- 2/1 Alarm in/out, 1/1 audio in/out (Built-in Mic)
- Smart Detection supported
- Micro SD memory
- Auto back focus (ABF)
- Multiple network monitoring: Built-in web server & Multifunction VMS
- Supports iPhone, Android

Day / Night | H.264 | WDR | Micro SD | ABF | PoE

MPIX-21IRBFTL

2.1 MegaPixel

Optional Brackets:

BRACK-WM-49

BRACK-BB-43

BRACK-PM-06

SENSEFIER Ultra low light enhancement

ONVIF PoE

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-21IRBFT

2.1 MegaPixel

c UL us LISTED E498424

Optional Brackets:

BRACK-WM-49

BRACK-BB-43

BRACK-PM-06

PRO SERIES

SENSEFIER Ultra low light enhancement

3 AXIS

ONVIF PoE

2.1MP Ultra IR Turret Camera

- 1/2.8" 2.1MP progressive scan CMOS
- 2.8mm fixed lens
- Max. IR LEDs Length 50m/164ft
- Ultra Low Light Enhancement
- H.265 & H.264 triple-stream encoding
- 50/60fps@1080P(1920×1080)
- Smart Detection supported
- WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Built-in web server & Multifunction VMS
- Micro SD memory slot up to 128GB, IP67, PoE
- Operating Temperature: -30°C ~ +60°C
  -22°F ~ +140°F

IK10 | WDR | IP67 | Day / Night | H.265 | Micro SD | PoE+

MPIX-21VDF-IR28

Optional Brackets:

BRACK-BB-44

BRACK-WM-48

BRACK-PM-06

2.1MP HD IR Network Camera

- 1/2.7" 2.1MP progressive scan CMOS
- 2.8mm fixed lens, 3 AXIS
- Max. IR LEDs length 30m/98ft
- 25/30fps@1080P(1920x1080)
- D-WDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- IP67, IK10, PoE
- H.265 & H.264 dual stream encoding
- iPhone and Android Support
- Operating Temperature: -30°C ~ +60°C
  -22°F ~ +140°F

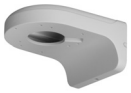
Supports multiple analytic functions

MPIX-21VDV-IRV

Optional Brackets:

BRACK-PM-06

BRACK-BB-48


BRACK-WM-48

Motorized

Remote Zoom & Focus Lens

3 AXIS

2.1MP HD IR Network Camera

- 1/2.8 2.1MP image sensor
- 2.7 ~ 13.5mm varifocal motorized lens
- Max. IR length 30m/98ft
- Ultra Low Light Enhancement
- WDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Three Axis
- 2.1MP 1080p/720p (1 ~ 25/30fps)
- H.265 & H.264 dual-stream encoding
- Micro SD card slot, up to 128GB, IP67, IK10, PoE
- Built-in web server & Multifunction VMS
- Supports iPhone, Android
- Supports Multicast
- Operating Temperature: -30°C ~ +60°C
  -22°F ~ +140°F

MPIX-20VDV-IRM

Optional Brackets:

BRACK-WM-63

BRACK-BB-63

BRACK-PM-63

Motorized

Remote Zoom & Focus Lens

3 AXIS

2.1MP dome with Motorized Remote Zoom & Focus Lens

- 1/2.8" 2MP progressive scan CMOS
- 2.7mm - 13.5mm motorized lens
- Max. IR Length 50m/164ft
- Ultra Low Light Enhancement
- 50/60fps@1080(1920×1080)
- H.265 & H.264 triple-stream encoding
- Smart Detection supported
- WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Multiple network monitoring:
  Built-in web server & Multifunction VMS
- 1/1 Alarm in/out, 1/1 audio in/out
- Micro SD memory, IP67, IK10, PoE+
- Operating temperature: -30°C ~ +60°C
  -22°F ~ +140°F

MPIX-21DF-IRK28

Optional Bracket:

BRACK-BB-43

BRACK-PM-06

2.1MP HD IR Network Camera

- 1/2.8" 2.1MP progressive scan CMOS
- Lens: 2.8mm fixed lens
- Max. IR LEDs Length 20m/65ft
- Ultra Low Light Enhancement
- 50/60fps@2.1M(1920×1080)
- H.265 & H.264 triple-steam encoding
- WDR(120dB), Day/Night(ICR), 3 DNR, AWB, AGC, BLC
- IP67, IK10, PoE
- Supports DC12V power supply
- iPhone and Android Support
- Operating Temperature: -30°C ~ +60°C
  -22°F ~ +140°F

MPIX-21BIR-K

Optional Brackets:

BRACK-WM-49

2.1MP CMOS HD IR Network Camera

- 1/3" 2.1MP CMOS image sensor
- Lens: Fixed 3.6mm
- Max. IR Distance: 30m/98ft
- Full HD 1080p
- H.264/H.265 video compression
- Dual encoding streams supported
- Support DC12V power supply, PoE, IP67
- Max 30fps@1080p resolution
- Operating Temperature: -35°C ~ +50°C
  -31°F ~ +122°F

MPIX-21SBC

SPECIAL ORDER

Optional Housings:

SOH-BC

SOH-BC-IR

BRACK-BOX
Optional

2.1MP WDR Box Camera

- 2.1MP progressive scan CMOS
- H.264 & MJPEG dual-stream encoding
- Max 25/30fps@1080p (1920×1080)
- WDR, Day/Night(ICR), 2DNR, Auto iris, AWB, AGC, BLC
- Built-in 1/1 alarm in/out
- Micro SD memory
- Support Multicast
- Built-in web server & Multifunction VMS
- Supports iPhone, Android

**Lens not included*

MPIX-21-SPH

2.1MP Covert Pinhole Camera

- 1/3" 2.1MP low illumination CMOS Sensor
- Dual-stream encoding
- Built-in 3.7mm fixed lens
- Powerful WDR (Wide Dynamic Range)
- Enhanced H.264 High Profile Compression
- Built-in OSD menu
- DC 12V/1A
- Remote configuration and maintenance
- Compatible with mainframe platforms
- Support Multicast

MPIX-80IRPTZAI

8MP 4K 40x IR PTZ AI Network Camera

Optional:
Water-proof
Power Box
BRACK-PTZ-BOX

40X Optical Zoom

- 5.6mm ~ 223mm (40x Optical zoom)
- IR distance up to 500m/1640ft
- AI Auto Tracking of person and/or Vehicle
- WDR(120dB), IP67
- Micro SD memory card up to 256GB
- -40°C ~ 70°C (-40°F ~ +158°F)

AI Functions: See Page 12

MPIX-40IRPTZAI

4MP 40x IR PTZ AI Network Camera

Optional:
Water-proof
Power Box
BRACK-PTZ-BOX

40X Optical Zoom

- 5.6mm ~ 223mm (40x Optical zoom)
- IR distance up to 500m/1640ft
- AI Auto Tracking of person and/or Vehicle
- WDR(120dB), IP67
- Micro SD memory card up to 256GB
- -40°C ~ 70°C (-40°F ~ +158°F)

AI Functions: See Page 14

MPIX-80IRPTZ

4K Ultra HD 30X 8MP Full IR PTZ Camera

PRO SERIES

30X Optical Zoom

Wallmount
Bracket Included

- 6mm - 180mm (30x Optical zoom)
- Max. 25/30fps@4K
- IR distance up to 200m/656ft
- Preset Speed: Pan: 240° /s; Tilt: 200°
- D-WDR, IP67, IK10
- Micro SD memory card up to 128GB
- -40°C ~ 70°C (-40°F ~ +158°F)

Optional:
Ceiling Mount
Adapter Ring
BRACK-CMA-PTZ

Optional:
Water-proof
Power Box
BRACK-PTZ-BOX

MPIX-21IRPTZ

2.1MP Full HD IR Network PTZ Camera

PRO SERIES

30X Optical Zoom

Optional Brackets:

BR-CORN-MXC

BR-POLE-MXC

Optional:
Water-proof Power Box
BRACK-PTZ-BOX

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

BRACK-
MPIX-21MP-PEND*
* Also requires
BRACK-CMA-PTZ

BRACK-PTZ-PAR*
* Also requires
BRACK-CMA-PTZ

Optional:
Ceiling Mount
Adapter Ring
BRACK-CMA-PTZ

Supports multiple analytic functions

MPIX-21MP12X-IR

2.1MP Full IR HD 12x Network PTZ

12X Optical Zoom

Optional:
Ceiling Mount
Adapter Ring
BRACK-CMA-PTZ

Optional:
Water-proof
Power Box
BRACK-PTZ-BOX

- 5.3mm - 64mm (12x Optical zoom)
- Ultra Low Light Technology
- Max. IR distance up to 100m/328ft
- Max. 50/60fps@1080P, 25/30/50/60fps@720p
- WDR, Micro SD card up to 128GB, IP66
- Wallmount bracket included

MPIX-40IRPTZ

4MP Full IR HD 30x Network PTZ

30X Optical Zoom

Optional:
Ceiling Mount
Adapter Ring
BRACK-CMA-PTZ3

Optional:
Water-proof
Power Box
BRACK-PTZ-BOX

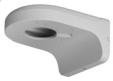
- 4.5mm - 135mm (30x Optical zoom)
- H.265 Encoding
- Max. IR distance up to 100m/328ft
- Max. 25/30fps@4M/3M, 25/30/50/60fps@1080p
- WDR, Micro SD card up to 128GB, IP66, PoE+
- Wallmount bracket included

MPIX-21MP4X

2.1MP Full HD 4x Network PTZ

4X Optical Zoom

Optional Brackets:



BRACK-WM-48

BRACK-BB-48

- 2.7mm - 11mm (4x Optical zoom)
- Motorized Pan tilt zoom
- Max 30fps@1080p
- WDR(120dB), Micro SD memory Max 128GB, IP66, IK10, PoE
- Vandal resistance (IK10 for metal and polycarbonate casing)

Supports multiple analytic functions

PNT-32EXAI

OSD Linux SATA VGA H.265+ eSATA HDMI RAID

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:**

Fenced Area Protection
- Up to 6 channels video stream fenced area protection (Analog channels only), 10 IVS for each channel

Face Detection
- Up to 6 channels video stream human face recognition (Analog channels only), max 12 face pictures/sec processing
- Up to 8 target face images search at same time
- Up to 10 face databases with 20,000 face images in total

AI Motion Detection
- Up to 32 channels video stream motion detection (Analog channels only)
- AI Search by target classification (Human, Vehicle)

PNT-16EXAI-0T

OSD Linux SATA VGA H.265+ eSATA HDMI RAID

MegaPixel over UTP/Coax

16 CH Penta-Brid 4K (2U) DVR

- 2U Penta-Brid Embedded LINUX processor
- H.265+/H.265 dual-stream video compression
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Supports 64 channels of IPC access, each channel up to 12MP input
- Max 256Mbps incoming bandwidth
- HDMI1 4K@60fps output
- 8 SATA Ports, up to 10TB capacity for each disk
- Built-in web server & Multifunction VMS
- **AI Functions ONLY Supported on BNC Inputs, recommended resolution of 2.1MP or higher:**
  - Up to 16 channel perimeter protection
  - Up to 4 channel video stream face recognition
  - Up to 24 face pictures/sec processing
  - Up to 20 face databases with 100,000 face images in total

PNT-0880AI/PNT-1680AI

OSD Linux SATA VGA H.265+ POS HDMI Line Crossing

MegaPixel over UTP/Coax

8/16 CH Penta-Brid 4K AI (1U) DVR

- 1U Penta-Brid Embedded LINUX processor
- H.265+/H.265 dual-stream video compression
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- **Model PNT-0880AI:** Supports 8BNC+8IP, each channel up to 8MP input
- **Model PNT-1680AI:** Supports 16BNC+16IP, each channel up to 8MP input
- Max 64Mbps incoming bandwidth
- POS functionalities
- 2 USB Ports (1 USB 2.0, 1 USB 3.0)
- 2 SATA Ports, up to 10TB capacity for each disk
- **AI Functions:**
  - Fenced Area Protection and Smart Detection Classification
  - AI Support **ONLY** on BNC inputs, **NOT** on IP Channel

PNT-0480AIL

4 CH Penta-Brid 4K (Mini 1U) DVR

•4 CH Mini 1U Embedded LINUX processor
• H.265+/H.265 dual-stream video compression
• Penta-Brid Supports HDCVI/XVI/AHD/TVI/CVBS/IP video inputs
• Max 8 channels IP camera inputs, each channel up to 8MP
• 1 SATA Port, up to 10TB capacity
• Audio In/Out - 1/1, RCA
• **AI Functions:** Only supported on BNC Inputs 2.1MP or Higher

Fenced Area Protection
- 2 channels, 10 IVS for each channel
- Human/Vehicle secondary recognition for line crossing & intrusion
- AI Search by target classification (Human, Vehicle)

Face Detection
- Max 8 face pictures/sec processing
- 2 channels video stream face recognition
- Detect strangers' faces (not in device's face database)
- Up to 8 target face images search at same time
- Up to 10 face databases with 20,000 face images in total

AI Motion:
- Performance - 4 channels
- AI Search by target classification (Human, Vehicle)

PNT-0880AIL

8 CH Penta-Brid 4K (Mini 1U) DVR

•8 CH Mini 1U Embedded LINUX processor
• H.265+/H.265 dual-stream video compression
• Penta-Brid Supports HDCVI/XVI/AHD/TVI/CVBS/IP video inputs
• Max 16 channels IP camera inputs, each channel up to 8MP
• 1 SATA Port, up to 10TB capacity
• Audio In/Out - 1/1, RCA
• **AI Functions:** Only supported on BNC Inputs 2.1MP or Higher

Fenced Area Protection
- 2 channels, 10 IVS for each channel
- Human/Vehicle secondary recognition for line crossing & intrusion
- AI Search by target classification (Human, Vehicle)

Face Detection
- Max 12 face pictures/sec processing
- 2 channels video stream face recognition
- Detect strangers' faces (not in device's face database)
- Up to 8 target face images search at same time
- Up to 20 face databases with 20,000 face images in total

AI Motion:
- Performance - 8 channels
- AI Search by target classification (Human, Vehicle)

PNT-0880AIL

16 CH Penta-Brid 4K (Mini 1U) DVR

•16 CH Mini 1U Embedded LINUX processor
• H.265+/H.265 dual-stream video compression
• Penta-Brid Supports HDCVI/XVI/AHD/TVI/CVBS/IP video inputs
• Max 16 channels IP camera inputs, each channel up to 8MP
• 1 SATA Port, up to 10TB capacity
• Audio In/Out - 1/1, RCA
• **AI Functions:** Only supported on BNC Inputs 2.1MP or Higher

Fenced Area Protection
- 2 channels, 10 IVS for each channel
- Human/Vehicle secondary recognition for line crossing & intrusion
- AI Search by target classification (Human, Vehicle)

Face Detection
- Max 12 face pictures/sec processing
- 2 channels video stream face recognition
- Detect strangers' faces (not in device's face database)
- Up to 8 target face images search at same time
- Up to 20 face databases with 20,000 face images in total

AI Motion:
- Performance - 16 channels
- AI Search by target classification (Human, Vehicle)

PNT-16EX

MegaPixel over UTP/Coax

4K

ONVIF

16CH Penta-Brid DVR (2U) DVR

- 2U Penta-Brid Embedded LINUX processor
- Penta-Brid supports: (XVI/HDCVI)/AHD/CVBS/TVI/IP video inputs
- Up to 16 CH total (SD/AHD/XVI/CVI/TVI) + 48IP=Total 64CH's
- IP Channels support up to 12MP(4K)
- Max 256Mbps Incoming Bandwidth, 384Mbps Forwarding Bandwidth
- 2 HDMI (HDMI1 up to 4K), 1 VGA
- HDMI2 programmable spot monitor (1080p)
- Dual network ports, P2P
- 8 SATA Ports, up to 8 TB capacity for each disk
- Alarm Input - 16 channel, Relay Output - 6
- Built-in web server & Multifunction VMS

PNT-0480 / PNT-0880 / PNT-1680

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MegaPixel over UTP/Coax

ONVIF

4, 8 & 16 CH 8MP Penta-Brid Mini 1U DVR

- 4, 8 & 16 channel Embedded LINUX OS
- Penta-Brid supports (HDCVI/XVI, TVI, AHD, CVBS, IP)
- H.265+/H.265 Dual-stream video compression
- Support 1 SATA HDD up to 10TB capacity
- Multiple network monitoring: Web viewer, HD VMS & Mobile phone viewer
- Supports additional channels using IP Cameras:

PNT-0480: 2K HDMI Output
- Up to 5MP XVI Camera support
- 4CH DVR + 2 extra IP channels = Total of 6 channels

PNT-0880: 4K HDMI Output
- 8CH DVR + 4 extra IP channels = Total of 12 channels
- Up to 8MP XVI Camera support

PNT-1680: 4K HDMI Output
- 16CH DVR + 8 extra IP channels = Total of 24 channels
- Up to 8MP XVI Camera support

Supports multiple analytic functions

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

XVI-80VDV-IRVD

8 MegaPixel

4K

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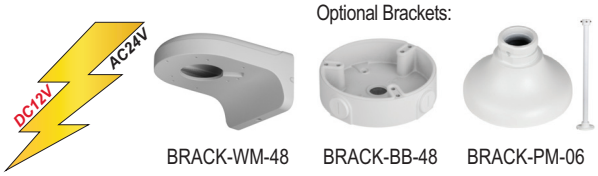
E498424

Optional Brackets:



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

PRO SERIES

SENSEFIER Ultra low light enhancement

Motorized

Remote Zoom & Focus Lens

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-80BIMRD

Optional Bracket:

BRACK-BB-37

Motorized

Remote Zoom & Focus Lens

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

XVI-80IRBVMTD

Optional Brackets:

BRACK-WM-48

BRACK-BB-48

BRACK-PM-06

Motorized

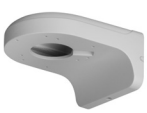
Remote Zoom & Focus Lens

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

XVI-50IRBTR2 / XVI-50IRBTR2-B

Optional Brackets:



BRACK-WM-49

BRACK-BB-43

BRPOLEMXC

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

XVI-40BIMRD

Optional Bracket:

BRACK-BB-37

PRO SERIES

Motorized

Remote Zoom & Focus Lens

4MP IR Dual Voltage Bullet Camera

- 13" 4MP HD CMOS image sensor
- **Dual Voltage - AC24V±25% / DC12V±25%**
- 2.7 - 13.5mm motorized lens
- Max. IR LEDs length 60m/197ft
- Day/Night(ICR), AWB, AGC, BLC
- 120dB True WDR, 3DNR
- Built-in web server & Multifunction VMS
- IP67, OSD Menu
- Smart phones compatible
- Operating Temperature: -30°C ~ +60°C
  -22°F ~ +140°F

XVI-40BIMRDR2

Optional Bracket:
BRACK-BB-37

SENSEFIER
Ultra low light enhancement

4MP IR Dual Voltage Bullet Camera

- 13" 4MP HD CMOS image sensor
- **Dual Voltage - AC24V±25% / DC12V±25%**
- 2.7 - 13.5mm motorized lens
- Max. IR LEDs length 80m/262ft
- Day/Night(ICR), AWB, AGC, BLC
- 120dB True WDR, 3DNR
- Operating Temperature: -30°C ~ +60°C
  -22°F ~ +140°F

XVI-40VDV-IRV

Optional Brackets:

BRACK-WM-48

BRACK-BB-48

BRACK-PM-06

4MP IR Vandal Proof Dome Camera

- 1/3" 4MP HD CMOS image sensor
- Max. IR LEDs length 30m/98ft
- 2.7 - 13.5mm lens, Smart IR
- Max 30fps@4MP
- Day/Night(ICR), AWB, AGC, BLC
- D-WDR, 2D DNR
- HD and SD dual-output
- IP67, IK10, 12V DC ±25%
- OSD Menu
- Built-in web server & Multifunction VMS
- CVI Compatible Camera
- Smart phones compatible
- Operating Temperature: -40°C ~ +60°C
  -40°F ~ +140°F

XVI-40VDV-IRVR2

Optional Brackets:

BRACK-WM-48

BRACK-BB-48

BRACK-PM-06

4MP IR Vandal Proof Dome Camera

- 1/3" 4MP HD CMOS image sensor
- Max. IR LEDs length 30m/98ft
- 2.7 - 12mm motorized lens
- Max 30fps@4MP
- Day/Night(ICR), AWB, AGC, BLC
- D-WDR, 2D DNR
- HD/SD dual-output switchable
- IP67, IK10, 12V DC ±30%
- Smart phones compatible
- Operating Temperature: -40°C ~ +60°C
  -40°F ~ +140°F

XVI-40VDF-IR28

3 AXIS

Optional Brackets:

BRACK-WM-48

BRACK-BB-44

BRACK-PM-06

4MP IR Dome Camera

- 1/3" 4MP HD CMOS image sensor
- 2.8mm fixed lens
- Max. IR length 30m/98ft
- Max 30fps@4MP
- D-WDR, Day/Night (ICR), DNR 2D, AGC, BLC
- Smart IR control, OSD Menu
- IP67, IK10, DC12V
- CVI Compatible Camera
- Smart phones compatible
- Operating Temperature: -40°C ~ +60°C
  -40°F ~ +140°F

XVI-40VDV-IRVD

PRO SERIES

Optional Brackets:

BRACK-WM-48

BRACK-BB-48

BRACK-PM-06

4MP IR Vandal-proof Dual Voltage Dome

- 1/3" 4MP HD CMOS image sensor
- **Dual Voltage - AC24V±25% / DC12V±25%**
- 2.7 - 13.5mm lens, Smart IR
- Max. IR LEDs length 30m/98ft
- 120dB True WDR, 3DNR, Day/Night(ICR)
- IP67, IK10, OSD Menu
- Built-in web server & Multifunction VMS
- Smart phones compatible
- Operating Temperature: -30°C ~ +60°C
  -22°F ~ +140°F

XVI-40IRBT / XVI-40IRBT-B

PRO SERIES

Optional Brackets:

BRACK-WM-49

BRACK-BB-43

BRACK-PM-06

BRACK-BB-43-B

4MP WDR IR Turret Camera

- 1/3" 4MP HD CMOS image sensor
- 2.8mm fixed lens
- Max. IR LEDs length 50m/164ft
- 25fps@4MP, 25/30fps@1080P, 25/30fps@720P
- WDR(120dB), Day/Night(ICR), BLC
- Built-in web server & Multifunction VMS
- IP67, DC12V, OSD Menu
- Smart phones compatible
- Operating Temperature: -40°C ~ +60°C
  -40°F ~ +140°F

XVI-21BIMRD

PRO SERIES

SENSEFIER
Ultra low light enhancement

Optional Bracket:

BRACK-BB-37

2.1MP IR Dual Voltage Bullet Camera

- 1/2.8" 2.1MP CMOS image sensor
- **Dual Voltage - AC 24V±30% / DC12V±30%**
- 2.7mm - 13.5mm motorized lens
- Max. IR LEDs length Up to 80m/267ft
- Ultra Low Light Enhancement
- 120dB true WDR, 3DNR
- Day/Night(ICR), AWB, AGC, BLC
- IP67, OSD Menu, Smart IR Control
- CVI Compatible Camera
- Smart phones compatible
- Operating Temperature: -30°C ~ +60°C
  -22°F ~ +140°F

XVI-21IRBVMTD

2.1 MegaPixel

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PRO SERIES

DC12V AC24V

SENSEFIER Ultra low light enhancement

Optional Brackets:

BRACK-WM-48

BRACK-BB-48

BRACK-PM-06

2.1MP IR Dual Voltage Camera

- 1/2.8" 2.1MP CMOS image sensor
- **Dual Voltage - AC 24V±30% / DC12V±30%**
- 2.7mm - 13.5mm motorized lens
- Max. IR LEDs length Up to 60m/197ft
- Ultra Low Light Enhancement
- 120dB true WDR, 3DNR
- HD and SD dual-output
- IP67, Smart IR control, OSD Menu
- Day/Night(ICR), AWB, AGC, BLC
- Smart phones compatible
- Operating Temperature: -40°C ~ +60°C
  -40°F ~ +140°F

Motorized Lens | WDR | IP67 | Day / Night | OSD | IR

XVI-21IRBT / XVI-21IRBT-B

2.1 MegaPixel

c UL us LISTED E498424

PRO SERIES

Optional Brackets:

BRACK-WM-49

BRACK-BB-43

BRACK-PM-06

BRACK-BB-43-B

2.1MP Ultra IR Turret Camera

- 1/2.7 2.1MP HD CMOS image sensor
- 2.8mm fixed lens
- Max. IR LEDs length 50m/164ft, Smart IR
- 25/30fps@1080p
- Effective pixels 1930(H)×1088(V)
- High speed, long distance real-time transmission
- Day/Night(ICR), AWB, AGC, BLC, 2DNR
- OSD Menu
- IP67, DC12V
- OSD Menu
- Built-in web server & Multifunction VMS
- CVI Compatible Camera
- Smart phones compatible
- Operating Temperature: -40°C ~ +60°C
  -40°F ~ +140°F

Day / Night | D-WDR | IP67 | OSD | IR

XVI-21IRBVMT

2.1 MegaPixel

c UL us LISTED E498424

PRO SERIES

SENSEFIER Ultra low light enhancement

Optional Brackets:

BRACK-WM-48

BRACK-BB-48

BRACK-PM-06

2.1MP IR Camera

- 2.1MP CMOS image sensor
- Max. IR LEDs length Up to 60m/197ft
- 120dB true WDR, 3DNR
- Max 30fps@1080P
- HD and SD dual-output
- Day/Night(ICR), AWB, AGC, BLC
- IP67, DC12V, Smart IR
- OSD Menu, CVI Compatible Camera
- Built-in web server & Multifunction VMS
- Smart phones compatible
- Operating Temperature: -30°C ~ +60°C
  -22°F ~ +140°F
- **Model: XVI-21IRBVMT**
  2.7 - 13.5mm motorized lens
  Ultra Low Light Enhancement
- **Model: XVI-21IRBVMT-B**
  2.7 - 12mm motorized lens

Motorized Lens | WDR | IP67 | OSD | IR

XVI-21IRBVMT-B

2.1 MegaPixel

c UL us LISTED E498424

PRO SERIES

Optional Bracket:
BRACK-BB-48-B

XVI-21VDV-IRV

Motorized

Remote Zoom & Focus Lens

Optional Brackets:

BRACK-PM-06

BRACK-WM-48

BRACK-BB-48

2.1MP 3 Axis Motorized Zoom/Focus Camera

- 1/2.7" 2.1 Megapixel CMOS image sensor
- 2.7 ~ 13.5mm motorized lens
- Max. IR LEDs length 30m/98ft
- 120dB true WDR
- IP67, IK10, OSD Menu
- Close Focus Distance: 200mm (7.87")
- High speed, long distance real-time transmission
- Smart IR (Auto sensitivity control)
- Day/Night (ICR), AWB, AGC, BLC, 3D-DNR
- Compatible with HD-CVI DVRs
- Operating Temperature: -40°C ~ +60°C
  -40°F ~ +140°F

XVI-21VDF-IR28

Optional Brackets:

BRACK-WM-48

BRACK-BB-44

BRACK-PM-06

2.1MP IR Dome Camera

- 1/2.9" 2.1MP HD CMOS image sensor
- 2.8mm fixed lens
- Max. IR length 30m/98ft
- Max 30fps@1080P resolution
- HD and SD output switchable
- Day/Night (ICR), DNR 2D, AGC, BLC
- Smart IR control, OSD Menu
- IP67, IK10, DC12V
- CVI Compatible Camera
- Operating Temperature: -40°C ~ +60°C
  -40°F ~ +140°F

XVI-21VDV-IRMS

PRO SERIES

SENSEFIER Ultra low light enhancement

AC24V / DC12V

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

XVI-21BIR-K

Optional Bracket:

BR-BOX-MXC

2.1MP HD IR Bullet Camera

- 1/3" 2.1MP HD CMOS image sensor
- MegaPixel Lens: 3.6mm Fixed focus
- Max. IR Distance 30m/98ft
- Resolution - 1920(H)×1080(V)@25 fps
- IP66, OSD Menu, DC12V (500mA)
- High speed, long distance real-time transmission
- Smart IR (Auto sensitivity control)
- Day/Night (ICR), AWB, AGC, BLC, 3D-DNR
- Compatible with HD-CVI DVRs
- Operating Temperature: -40°C ~ +60°C
  -40°F ~ +140°F

XVI-21MP4X

2.1 MegaPixel

c UL us LISTED E498424

4X Optical Zoom

Optional Brackets:

BRACK-WM-48

BRACK-BB-48

2.1MP Full HD 4x Network PTZ

- 2.7mm - 11mm (4x Optical zoom)
- Motorized Pan tilt zoom
- Max 30fps@1080p
- IP66 Rated
- Vandal resistance
  (IK10 for metal and polycarbonate casing)

XVI-21IRPTZR2

2.1MP Full HD 25x Network PTZ Camera

2.1 MegaPixel

SENSEFIER Ultra low light enhancement

PRO SERIES

c UL us LISTED E498424

25X Optical Zoom

- 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

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

XVI-21MP15X

2.1MP Full HD 15x Network PTZ

2.1 MegaPixel

SENSEFIER Ultra low light enhancement

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

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

XVI Cameras
XVI Enhanced CVI Fast Pack Kits

XVI-21PIR

2.1MP CVI Motion Detector Camera

- 1/2.9" 2.1MegaPixel CMOS
- 2.8mm fixed lens
- HD and SD output switchable
- 12m/100°detecting range/angle
- Two level detection sensitivity adjustable
- Angle of View: H: 100.5°
- Built-in tamper switch/D-WDR
- Power Supply: 12VDC ±25%
- Close Focus Distance: 500mm / 19.7'

XVI-21PIRR2

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'

XVI-21SPH

2.1MP ATM Pinhole Camera

- 1/2.8" 2.1MP CMOS Sensor
- 3.6mm fixed lens (Pinhole)
- 120dB true WDR, 3DNR
- Ultra Low Light Enhancement
- 4 Signals over 1 Coaxial Cable
- Angle of View: H: 92°(103°)
- HD and SD output switchable
- High speed, long distance real-time transmission
- HD and standard definition switchable
- Max 30fp@1080P
- Power Supply: 12VDC ±25%

XVI-21SPHR2

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%

XVi HD-CVI

4CH DVR Fast Pack 2.1MP 5MP	**4** Channel + **4** Cameras	**4CH EVI Kit** 2.1 MegaPixel Cameras 4 CH PNT DVR w/ 1TB HDD **5**.0 MegaPixel Cameras 4 CH PNT DVR w/ 1TB HDD New Penta-Brid AI Recorder	**EVI-04KIT4-21IRB** (XVI-21IRBT) 2.8mm Lens **EVI-04KIT4-50IRBT** (XVI-50IRBTR2) 2.8mm Lens	x4 x4	2.1MP KIT 5MP KIT
8CH DVR Fast Pack 2.1MP 5MP	**8** Channel + **6** Cameras	**8CH EVI Kit** 2.1 MegaPixel Cameras 8 CH PNT DVR w/ 2TB HDD **8CH EVI Kit** 5.0 MegaPixel Cameras 8 CH PNT DVR w/ 2TB HDD New Penta-Brid AI Recorder	**EVI-08KIT6-21IRB** (XVI-21IRBT) 2.8mm Lens **EVI-08KIT6-50IRBT** (XVI-50IRBTR2) 2.8mm Lens	x6 x6	2.1MP KIT 5MP KIT
16CH DVR Fast Pack 2.1MP 5MP	**16** Channel + **8** Cameras	**16CH EVI Kit** 2.1 MegaPixel Cameras 16 CH PNT DVR w/ 2TB HDD **16CH EVI Kit** 5.0 MegaPixel Cameras 16 CH PNT DVR w/ 2TB HDD New Penta-Brid AI Recorder	**EVI-16KIT8-21IRB** (XVI-21IRBT) 2.8mm Lens **EVI-16KIT8-50IRBT** (XVI-50IRBTR2) 2.8mm Lens	x8 x8	2.1MP KIT 5MP KIT

POE/POE+ Switches for CCTV Industry

POESW04

NEW AVAILABLE NOW

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

UNIQUE CCTV Mode
250m / 820ft
Extended Range PoE

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

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

UNIQUE CCTV Mode
250m / 820ft
Extended Range PoE

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

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

UNIQUE CCTV Mode
250m / 820ft
Extended Range PoE

16+2 Port Unmanaged PoE/PoE+ Switch

- 16 PoE 10/100 Downlink Ports
- 2 Gigabit Uplink RJ45 Ethernet Ports
- 1 Gigabit Fiber Port (SFP)
- **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
- No Frame Loss IP Data Transmission
- 6KV Lightning Protection
- PoE Max. Power Output - 270W
- Single Port PoE Power Output ≤30W, Voltage 54VDC
- 442mm x 285mm x 44.5mm / 17.4" x 11.22" x 1.75"

POESW24U - Coming February 2021

PoE/PoE+ 30W | Normal Mode 100m 1000Mbps | CCTV Mode 250m 10Mbps | Protection 6KV | Total Power Budget ≤390W

UNIQUE CCTV Mode
250m / 820ft
Extended Range PoE

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

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

WAPP
Watchnet Access Partner Program

Introducing...Watch*NET* Access Partner Program

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.

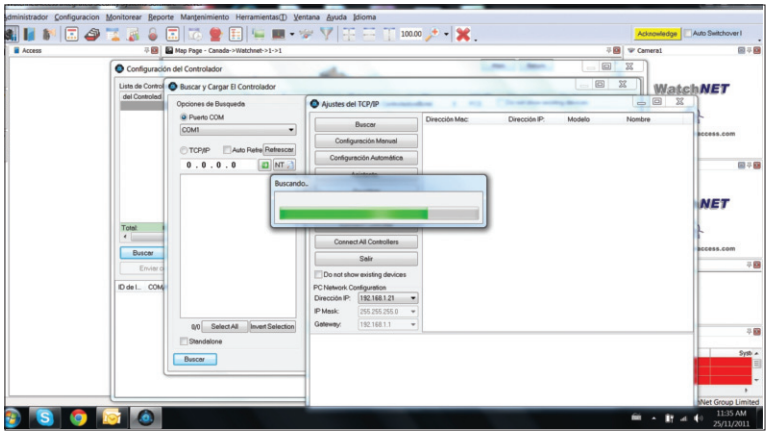
Partner Pricing
To ensure your sales are secured WAPP systems Integrators receive protected pricing.

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 15 years, Watch*NET*, will take on the responsibility of ensuring all your Access Control needs are met and that you will be successful!

Watch*NET* ACCESS INTEGRATED SECURITY SYSTEMS SOFTWARE



Watch*NET* Access software is a fully integrated solution for Access Control, Intrusion Detection, Time & Attendance, Guard Tour, as well as Building Management and can be seamlessly integrated with networked CCTV systems through Watch*NET* DVRs, NVRs, IP Cameras, and supported ONVIF cameras. Featuring frustration-free setup Watch*NET* access control offers easy to install, simple to configure, user-friendly systems that are both flexible and expandable to meet every installation requirement; allowing integrators to feel comfortable and confident with Watch*NET* Access for projects of any size.

The system setup is easy with Watch*NET* software. Once all the hardware is wired and plugged into the network, the software scans the network for all installed controllers and lists them using the Search function.

Interactive Maps provide you with an as built view of the installed system with components located in the appropriate locations on the map, right on your screen. The programmer can design a map using a picture of the facility or a floor plan of the facility as the background. The components of the system that need to be displayed can be located in the appropriate locations on the map.

Cameras in the system can also be located on the maps. The live image from the cameras can be seen on the video monitor on the screen by clicking on the appropriate cameras. The system also automatically brings up the appropriate cameras if they are tagged to doors upon events. Snapshots or Video clips can be recorded on specific events. These events are saved on the server and can be recalled at any time through the event viewer or reports from the system.

The pop up function ensures that, in the event of an alarm, the appropriate map and device pops up. The alarm can then be responded to using the acknowledge button and can be recorded.

The system also provides real time status display and control of all the devices on the map. The Video Verification event popup system enables the operator to monitor entry of personnel, in real time, with live camera video along with a photograph and the access control credentials.

Software Features:

- Software in multiple languages
- Choice of colors & sounds for every event
- Auto or Manual Backup of the Database
- Searching / Add / Delete quickly
- DVR / IP Camera Video Integration
- Pop up screens on specific events
- Easy Icon based navigation
- Auto Detection of Controllers on the network
- Exporting Events
- Interactive dynamic maps
- Event Email Notification

Mobile Phone
&
Web Server Control

Access Controllers ENC KITs

WAC-2D2T-ENC KIT
2 Door 2 Reader

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

c UL us LISTED E478097

Controller/Aux Power Included with battery charger

WAC-2D4T-ENC KIT
2 Door 4 Reader

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-4D8T-ENC KIT
4 Door 8 Reader

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

c UL us LISTED E478097

Controller/Aux Power Included with battery charger

WAC-8D8T-ENC KIT
8 Door 8 Reader

c UL us LISTED E478097

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

Access Controllers 485 KITs

WAC-2D2T-485 KIT
2 Door 2 Reader

- 2 door, 2 readers (WAR-MPX-485)
- 32 bit controller with TCP/IP in cabinet w/Power Supply
- Free Software (WAS-PRO-008)
- 10 cards (WAC-EMC-ISO)

TCP / IP

Controller/Aux Power Included with battery charger

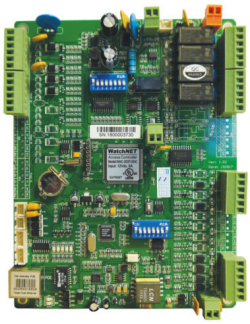
WAC-4D4T-485 KIT
4 Door 4 Reader

- 4 door, 4 readers (WAR-MPX-485)
- 32 bit controller with TCP/IP in cabinet w/Power Supply
- Free Software (WAS-PRO-008)
- 10 cards (WAC-EMC-ISO)

TCP / IP

Controller/Aux Power Included with battery charger

WAC-2D2T-PCB/WAC-2D2T-ENC



c UL us
LISTED
E478097

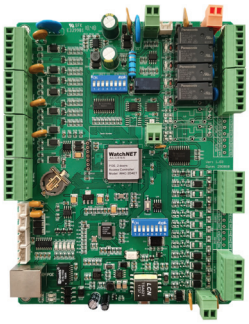
Controller/Aux Power Included with battery charger

TCP / IP

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-2D4T-PCB/WAC-2D4T-ENC



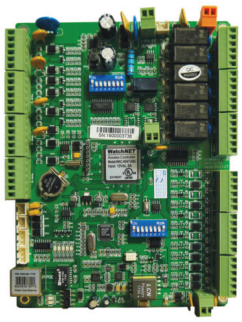
Controller/Aux Power Included with battery charger

TCP / IP

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-4D4T-PCB/WAC-4D4T-ENC



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LISTED
E478097

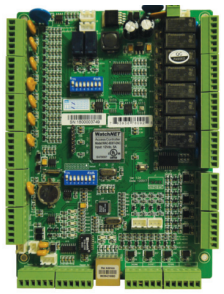
Controller/Aux Power Included with battery charger

TCP / IP

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-8D8T-PCB/WAC-8D8T-ENC



c UL us
LISTED
E478097

Controller/Aux Power Included with battery charger

TCP / IP

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

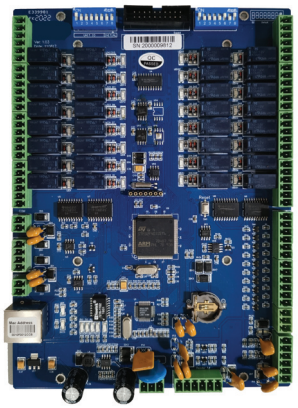
WAI-X1608-PCB / WAI-X1608-ENC

TCP / IP

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%)
- 110/220 AC (50/60HZ) switched mode 12V DC 6A Power Supply c/w 13.8V DC battery charging circuit
- Operating Current: ≤200mA
- Standby Current:≤150mA
- Data Memory: 4M bit (protected)
- 1 Lithium battery backup (up to 10 years data retention)

WAE-016-PCB/WAE-016-ENC

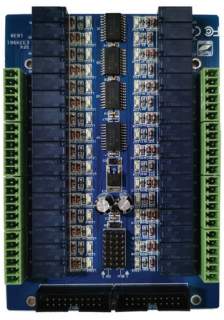


TCP / IP

Elevator Access Controller

- 32 bit ARM processor
- 2 Watchdogs
- 30,000 Cardholders
- 200,000 Transactions
- 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



Module (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.

WAC-1D2T MICRO

TCP / IP

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 and HID Proximity reader

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-MPX-485

Multi-Technology RS485 Reader

- Maximum read range: 50mm (2.00 in.)
- Modulation: ASK at 13.56MHz
- Output: RS485, 4 wires
- Distance to Panel: 1200m/0.74miles
- Compatible Cards: Mifare S50, S70, KK1208M1 CPU cards
- ISO14443A
- Operating Voltage: 7-12VDC
- Operating Current: ≤100mA
- Standby Current: ≤80mA
- Working Temperature: -30^{0}C to 65^{0}C / -22^{0}F to 150^{0}F
- Operating Humidity: 0 to 95%
- LED Control Input: RS485 Protocol
- Buzzer Control Input: RS485 Protocol
- Dimensions: 98mm L x 42mm W x 18mm D
  3.85" L x 1.63" W x 0.71" D
- Weight: 250g / 0.55lb

WAR-E10-VKR

Vandal proof reader with keypad

- Range in cm - 10cm
- Output - 26/34 bit
- Indicators - Blue/Green
- Size in mm - 120 x 76 x 21
- Frequency - 125 KHz
- Voltage - 7- 12V DC
- 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%
- LED Control Input - Dry Contact, N/O
- Buzzer Control Input - Dry Contact, N/O
- Weight - 500 g (1.10lb)

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)

WAR-HAM-LRW
WAR-HAM-SRW

Long Range Wireless Receiver

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

- 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

WAR-UHF-LR
WAR-UHF-SR

Mid & Long Range UHF Reader

WAC-UHF-ISO
UHF Access Card

WAC-UHF-HLD
Windshield Card Holder

WAC-UHF-TAG
UHF Sticker for vehicles/articles

- 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

Model WAR-UHF-LR
- ISO18000-6B, EPC Class 1 Gen 2(ISO18000-6C)
- Built-in 12dBi linearized polarized antenna
- 1W Power consumption
- 0 - 15m Read range / 0 - 6m White range
- Dimension: 445 x 445 x 65mm
  17.5' x 17.5' x 2.56'

Model WAR-UHF-SR
- ISO18000-6B, ISO18000-6C(EPC C1G2)
- Built-in 8dBi linearized polarized antenna
- 650mA Power consumption
- 0 - 5m Read range / 0 - 2m White range
- Dimension: 26mm x 26mm x 4.5mm
  1.02' x 1.02' x 0.18'

WAR-HAK-6HA

Card reader

- Range - Up to 8 inches (203 mm)
- Keypad Output: Wiegand
- Voltage: +5 - 16 VDC
- Audio Tone: Beeper included standard
- LED: Four-state (red, green, amber & off)
- Voltage - +5 - 16 VDC
- Operating Current - <100mA
- Standby Current - <50mA
- Working Temperature: -40°C to 65°C / -40°F to 149°F
- Frequency: 125 kHz
- Current Draw: 70 mA typical, 110 mA peak @ 12VDC
- IP Code: IP67
- Weight - 4 oz. (113g)

WAB-P-FCRS
WAB-U-FCRS

High Security Biometric Finger Print Reader

- P: Wiegand output format following the card
  U: Standard WG26/34 bits output which can be compatible with any kind of Access Controller
- 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-FCKS
WAB-U-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

WAF-EMC-500

Access Face Recognition System

- Uses Face Image+ V4.0 (the latest multiple light sources face recognition algorithm) and DSP processor for faster response time
- Provides higher face analyze speed and accuracy
- With super light adaptation and high face identity accuracy regardless of race, sex, expression, beard or haircut
- Uses harmless auxiliary LED technology to provide best identify accuracy in day and night
- Low energy consumption with built-in sleep mode
- TFT touch screen, friendly GUI interface and Voice prompts
- Multiple identification mode:Face, Card, PIN, & Combinations
- Fully integrated with Watch*NET* software

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 Watch*NET* Access Controllers

WAB-P-USB
WAB-U-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

ACC SERVER

Desktop Server (Preloaded software)

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

- 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

Access Control Special Order 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

WAC-HIT-SL — Proximity Tag

- Case Material: Poly carbonate
- Operation Temperature: -15°C ~ +55°C / 5°F ~ +131°F
- Storage Temperature: -20°C ~ +60°C / -40°F ° +140°F
- Chip Type Functionality: EM or HID
- Operation Frequency: 125K Hz
- Protocol: ISO 7816
- Read Distance: Up to Max. 80 mm / 3.15”
- Data Retention: Up to 10 year (<55°C/<131°F)

WAC-EMC-ISO / WAC-HIC-ISO — Printable Cards

- Case Material: PVC Blank White
- Operation Temperature: -15°C ~ +55°C / 5°F ~ +131°F
- Storage Temperature: -20°C ~ +60°C / -40°F ° +140°F
- Chip Type Functionality:

Model: WAC-EMC-ISO - EM 4100 Read Only
Model: WAC-HIC-ISO - HID Card

- Operation Frequency: 125K Hz
- Protocol: ISO 7816
- Read Distance: Up to Max. 80 mm / 3.15”
- Data Retention: Up to 10 year (<55°C/<131°F)

WAC-EMT-SIT — High Security Proximity Tag

- 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”

WAC-EMC-CSH — Clamshell Card

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

WAD-2D2T-IP-DEMO — Access Control Kit

- 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-ISO cards
- 1 - 12V DC PSU
- 1 - Ethernet cable

WAA-POW-04UL — 4CH Power Supply

With built-in back up battery charger

- 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

c UL us LISTED
E358365
4WZ0
I.T.E POWER SUPPLY

WAA-POW-09UL — 9CH Power Supply

With built-in back up battery charger

- 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

c UL us LISTED
E358365
4WZ0
I.T.E POWER SUPPLY

Accessories

KBD-803D

3 Dimensional PTZ Controller

- 3D Joystick for Simple Manual Operation
- RS485 Bus Line connects to 32 domes at once
- Large LCD Screen
- Compatible with multiple PTZ Protocol
- Controls the Iris, Focus and Zoom as well as 128 presets, tour, scan and patterns
- Supports PELCO matrix
- Supports 4 keyboards linkage, each keyboard can support 32 domes at most

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

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

IP-DEC-04 / IP-DEC-08

Spot Monitor Decoder

c UL us LISTED E498424

4K

This decoder can be used for remote view monitors for Watch*NET* NVRs.

- H.265/H.264 codec decoding
- Max 80Mbps Incoming Bandwidth
- Up to 8MP Resolution
- Up to 2ch@4K/8ch@1080P decoding
- HDMI/VGA simultaneous video output
- 4K Resolution

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

BALUN4K

UTP Video Transceiver

4K

- 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

BALUN-17

UTP Video Transceiver

Upgraded support to 5MP Cameras

- 1 CH Passive video transceiver
- Full-motion CCTV video at distance up to 2000ft (600m)
- Male BNC allows connection directly to the camera or DVR
- Sold in pairs

XVI, CVI, TVI, AHD Compatible

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

POW-12V-4CH

4CH 12 Volt PTC Protected power supply

c UL

- 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

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**

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**

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

External input/output board for Embedded system

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×90.3mm×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.*

PoE SPLITTER Micro USB 5V

POE-S05V

Features:

- Supports international standard IEEE802.3 af(12.5W)
- POE port Support 10/100Mdata transmission
- PD support 37V-57V voltage transmission
- Automatically detects power supply from PSE power supply module
- 5V/2.4A power output using Micro USB, the Micro usb port only for power-charging
- Supports the isolation circuit protection, can effectively protect electrical equipment
- Supports the short circuit, over voltage protection
- 1500V high voltage isolation

PoE SPLITTER DC Connector 12V

POE-S12V

Features:

- 1* 100 Mbps PoE powered port
- 1* DC2.1 powered male
- 1* RJ45 port
- Transmission Speed - 10/100Mbps
- Support IEEE 802.3af standard
- Transmission distance up to 100 meters/328ft
- Transmission Medium - Cat5/5e/6 Standard Network Cable
- Plug and play without management
- PoE Output - DC 12V, ≤13W
- 124mm×28mm×25mm/4.88"×1.10"×0.98"
- 47g/0.10lb

WatchNET®
SECURITY SINCE 2000

Bidding & Consulting Support
Dedicated Dealer Portal
Lead Generation

Marketing Ventures
On-Site Project Support
Systems Engineering Support

Plus BEST warranty in the industry.

Call us or register online to enroll today.

WatchNET®
SECURITY SINCE 2000

WIN Partnership Benefits

WatchNET® SECURITY SINCE 2000 **Preferred Partner**

WatchNET® SECURITY SINCE 2000 **Elite Partner**

Sales Support

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

Pre-Sales Support

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

WatchNET Training

- Watch*NET* Access Partner Program (WAPP)
- Watch*NET* Master Certification
- Installation training
- Classroom and online training

Technical Support

- RMA requests online or via phone
- Warranty

Custom & Project Solutions

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.

Custom & Project Solutions

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.

WatchNET®

SECURITY SINCE 2000

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Not all products in this catalogue are available in every region.

All products of WatchNET are Certified with:

For PAL Cameras please add (-P) to the part number.

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