



Penta-Brid 8MP AI series

Model	PNT-0480AIL	PNT-0880AIL	PNT-1680AIL
Product Image			
Chassis Type	Mini 1U Penta-Brid	Mini 1U Penta-Brid	Mini 1U Penta-Brid
SD/HD Analog Camera Inputs (XVI)	4	8	16
IP Camera Inputs	4+4=8	8+8=16	16+16=32
Monitor Outputs	1x HDMI, 1x VGA	1x HDMI, 1x VGA	1x HDMI, 1x VGA
Max. Recording Resolution	8MP (XVI) / 8MP (IP)	8MP (XVI) / 8MP (IP)	8MP (XVI) / 8MP (IP)
Supported Cameras	CVBS/XVI/CVI/TVI/AHD	CVBS/XVI/CVI/TVI/AHD	CVBS/XVI/CVI/TVI/AHD
Max. Recording Frame Rate	30FPS @ 1080p 7FPS @ 8MP	30FPS @ 1080p 7FPS @ 8MP	30FPS @ 1080p 7FPS @ 8MP
Hard Drive Bays Supported	1	1	1
Max. SATA Drive Supported	10TB	10TB	10TB
Built-in PoE Network Ports	No	No	No
LAN Ports (10/100/1000Mbps)	Yes (Single)	Yes (Single)	Yes (Single)
RAID Support	No	No	No
Audio Inputs (RCA)	1	1	1
Audio Output (RCA)	1	1	1
Alarm Inputs & Relay Outputs	No	No	No

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Model	PNT-32EXAI	PNT-16EXAI	PNT-16EX
Product Image			
Chassis Type	2U Penta-Brid	2U Penta-Brid	2U Penta-Brid
IP Camera Inputs	Unused BNC ports can be used as IP, system supports only 32CH total	48 plus unused BNC ports, system support 64CH total	48 plus unused BNC ports, system support 64CH total
SD/HD Analog Inputs (XVI)	8MP(CVI/XVI) / 5MP TVI/AHD / 12MP(IP)	8MP(CVI/XVI) / 5MP TVI/AHD / 12MP(IP)	Up to 16 CH total (SD/AHD/XVI/CVI/TVI)
Monitor Outputs	2x HDMI, 1x VGA	2x HDMI, 1x VGA	2x HDMI (HDMI1 up to 4K), 1x VGA, 1TV
Max. Recording Resolution	8MP(4K) using CVI/XVI, / 5MP using TVI/AHD / 12MP(IP)	8MP(4K) using CVI/XVI, / 5MP using TVI/AHD / 12MP(IP)	4MP (CVI/XVI/AHD/TVI) / 12MP (IP)
Hard Drive Bays Supported	8	8	8
Max. SATA Drive Supported	10TB	10TB	8TB
Built-in PoE Network Ports	No	No	No
LAN Ports (10/100/1000Mbps)	Yes (Dual)	Yes (Dual)	Yes (Dual)
RAID Support	No	0, 1, 5, 6, 10	No
Audio Inputs (BNC)	16	16	16
Audio Output (BNC)	1	1	1
Microphone Input (BNC)	1	1	1
Alarm Inputs & Relay Outputs	16 x 6	16 x 6	16 x 6

*Some features are NEW and current stocked models may not yet reflect the change.



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NVRs

4K 4K 4K AI 4K 4K AI 4K 4K AI 4K 4K

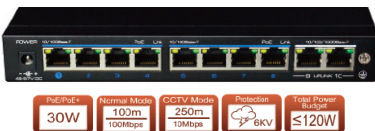
	ENMR2 series			ENR2 & EN series					ENX series	
Model	ENMR2-04POE	ENMR2-08POE	ENMR2-16POE	EN-16POEAI	ENR2S-32	ENR2-32AI	EN-644K	EN-64AI	ENX-128HD	ENX-256HDR2
Product Image										
Chassis Type	1U	1U	1U	1U	1.5U	1.5U Rack mountable	2U Rack mountable	2U Rack mountable	3U Rack mountable	4U Rack mountable
Operating System	Linux	Linux	Linux	Linux	Linux	Linux	Linux	Linux	Linux	Linux
IP Camera Inputs	4	8	16	16	32	32	64	64	128	256
Monitor Outputs	1x HDMI(4K), 1x VGA	1x HDMI(4K), 1x VGA	1x HDMI(4K), 1x VGA	1x HDMI, 1x VGA	1x HDMI, 1x VGA	1x HDMI, 1x VGA	2x HDMI 4K, 1x VGA	2x HDMI 4K, 1x VGA	2x HDMI 4K, 1x VGA	3x HDMI, 1x VGA
Max. Recording Resolution	8MP(4K)	8MP(4K)	8MP(4K)	12MP	8MP(4K)	12MP	12MP	16MP	12MP(4K)	12MP
Hard Drive Bays Supported	1	1	2	2	4	4	8 Hot swap	8	16 (Expandable) Hot swap	24 (Expandable) Hot swap
Max. SATA Drive Supported	10TB	10TB	10TB	8TB	10TB	8TB	8TB	8TB	8TB	10TB
Built-in PoE Network Ports	4	8	16	16	No	No	No	No	No	No
LAN Ports (10/100/1000Mbps)	1	1	1	1	2	2	2	2	4	4
RAID Support	No	No	No	No	No	No	0/1/5/10	No	0/1/5/10	0/1/5/6/10
Two-way Talk	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Inputs	1	1	1	1	1	1	1	1	1	1
Audio Output	1	1	1	1	1	1	1	1	1	1
Alarm Inputs & Relay Outputs	N/A	N/A	4 x 2	4 x 2	16 x 4	16 x 4	16 x 8	16 x 6	16 x 8	16 x 8

Professional Switches Designed for the CCTV Industry

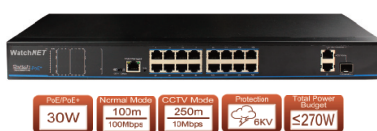
POESW04



POESW08



POESW16



POESW24U



POESW24R2



4+2 Ports PoE Ethernet Switch

- 4x PoE 10/100 Downlink Ports
- 2x 10/100 Uplink 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

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



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-off PoE function of single port or whole machine;
Limit PoE power of single port & set PoE output priority
- 6KV Lightning Protection
- PoE Max. Power Output - 270W
- Single Port PoE Power Output ≤30W, Voltage 54V DC
- 442mm x 285mm x 44.5mm / 17.4" x 11.22" x 1.75"
- Rack mount bracket included.

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-off 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
- Rack mount bracket included.

24+2 Port Managed PoE/PoE+ Switch

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

SW08



8 Port Unmanaged Gigabit Switch

- 8*10/100/1000Mbps RJ45 ports
- IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3x
- Provide 8 x Gigabit ports
- Power Consumption: <5W
- Power Input - AC:100~240V - 50~60Hz
- Power Output - DC: 5V-1.0A

POEDCSPLIT



Industrial Gigabit PoE+ Splitter

- Power Supply: Support 36~60V wide voltage input, 25W high power consumption output and DC 12V/24V switch output
- Compatible with mode A(End-span) and mode B(Mid-span)
- Conversion efficiency ≥90%
- Standard: accord with IEEE802.3af/at, IEEE802.3 10Base-T/100Base-TX/IEEE802.3ab 1000Base-T
- High-power PoE flat-pin RJ45 ports



IP Cameras



Call for availability



Call for availability



Call for availability

Model	MPiX-80VDV-IRM	MPiX-80BIMR	MPiX-80IRBVTR2	MPiX-80VDF-IR28R3	MPiX-80IRBFTL	MPiX-80VDV-IRV
Product Image						
Lens Focal Length	2.7-12mm motorized	2.7-12mm motorized	2.7-13.5mm motorized	2.8mm	2.8mm	2.7-13.5mm motorized
Min. Scene Illumination (color/BW)	0.008Lux/0lux	0.05Lux/0lux	0.01lux/0lux	0.009Lux/0Lux	0.009Lux/0Lux	0.008lux/0lux
Built-in Infrared Illuminator	50m/164ft	50m/164ft	40m/131ft	30m/98ft	30m/98ft	40m/131ft
Wide Dynamic Range (120dB)	Yes	Yes	Yes	Yes	Yes	Yes
Video Compression	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264
Max. Resolution	8MP	8MP	8MP	8MP	8MP	8MP
Audio Input/Output	1 / 1	1 / 1	No / No	No / No	1 / No	No / No
Alarm Input/Output	1 / 1	2 / 1	No / No	No / No	No / No	No / No
Micro SD Memory Card Slot	128GB max	128GB max	256GB max	256GB max	256GB max	256GB max
External Power Supported	DC12V/AC24V, 15W	DC12V, PoE, 12.95W	DC12V, PoE, 8.5W	DC12V, PoE, 6.2W	DC12V, PoE, 7.2W	DC12V, PoE, 7.4W
Operating Temperature	-30°C to +60°C -22°F to +140°F	-30°C to +60°C -22°F to +140°F	-30°C to +60°C -22°F to +140°F	-40°C to +60°C -40°F to +140°F	-40°C to +60°C -40°F to +140°F	-30°C to +60°C -22°F to +140°F
Weather/Vandal Rating	IP67 / IK10	IP67 / IK10	IP67 / No	IP67 / IK10	IP67 / No	IP67 / IK10
Back Box	BRACK-BB-63	BRACK-BB-53	BRACK-BB-48	BRACK-BB-44	N/A	BRACK-BB-48
Wall Mount	BRACK-WM-63	Included	BRACK-WM-48	BRACK-WM-48	BRACK-WM-48	BRACK-WM-48
Pendant Mount	BRACK-PM-63	N/A	BRACK-PM-06	BRACK-PM-06	N/A	BRACK-PM-06

TWO WAY AUDIO
Active
deterrence camera



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Model	MPiX-50VDF-IR28AI2W	MPiX-50VDV-IRVAI	MPiX-50VDF-IR28AI	MPiX-50IRBFT-IR28AI MPiX-50IRBFT-IR28AI-B	MPiX-50BILRAI	MPiX-50VDV-IRMLRAI	MPiX-50DF-IRK28AI	MPiX-50VDF-IR28
Product Image								
Lens Focal Length	2.8mm	2.7-13.5mm motorized	2.8mm	2.8mm	7-35mm motorized	7-35mm motorized	2.8mm	2.8mm
Min. Scene Illumination (color/BW)	0.005Lux/0lux	0.005Lux/0lux	0.005Lux/0lux	0.005Lux/0lux	0.003Lux/0lux	0.003Lux/0lux	0.008 Lux/0lux	0.009Lux/0Lux
Built-in Infrared Illuminator	30m/98ft	40m/131ft	50m/164ft	50m/164ft	120m/394ft	120m/394ft	30m/98.4ft	30m/98ft
Wide Dynamic Range (120dB)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Video Compression	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264
Max. Resolution	5MP	5MP	5MP	5MP	5MP	5MP	5MP	8MP
Audio Input/Output	Built-in Mic / 1	N/A	N/A	N/A	1 / 1	1 / 1	N/A	No / No
Alarm Input/Output	1 / 1	N/A	N/A	N/A	2 / 1	2 / 1	N/A	No / No
Micro SD Memory Card Slot	256GB max	256GB max	256GB max	256GB max	256GB max	256GB max	256GB max	256GB max
External Power Supported	12V DC/PoE, <8.6W	12V DC/PoE <8.5W	12V DC/PoE <7.3W	12V DC/PoE <8.1W	DC 12V (±30%) <10.9W	DC 12V (±30%) <10.9W	12V DC/PoE <5.7W	DC12V, 6.1W
Operating Temperature	-40°C to +60°C -40°F to +140°F	-30°C to +60°C -22°F to +140°F	-40°C to +60°C -40°F to +140°F	-40°C to +60°C -40°F to +140°F	-30°C to +60°C -22°F to +140°F	-30°C to +60°C -22°F to +140°F	-40°C to +60°C -40°F to +140°F	-40°C to +60°C -40°F to +140°F
Weather/Vandal Rating	IP67 / IK10	IP67 / IK10	IP67 / IK10	IP67 / No	IP67 / IK10	IP67 / IK10	IP67 / IK10	IP67 / IK10
Back Box	BRACK-BB-48	BRACK-BB-48	BRACK-BB-44	BRACK-BB-43 BRACK-BB-43-B	BRACK-BB-53	BRACK-BB-53	BRACK-BB-53	BRACK-BB-44
Wall Mount	BRACK-WM-48	BRACK-WM-48	BRACK-WM-48	BRACK-WM-49	Included	Included	BRACK-WM-49	BRACK-WM-48
Pendant Mount	N/A	BRACK-PM-06	BRACK-PM-06	BRACK-PM-06	N/A	N/A	BRACK-PM-06	BRACK-PM-06

*Some features are NEW and current stocked models may not yet reflect the change.

Model	MPIX-40LEDT-NPC28AI	MPIX-40VDF-NPC36AI	MPIX-40BIMRAI	MPIX-40VDV-IRMAI	MPIX-40IRBFT	MPIX-40IRBFTL MPIX-40IRBFTL-B	MPIX-40VDV-IRVR2
Product Image							
Lens Focal Length	2.8mm	3.6mm	2.7-12mm motorized	2.7-12mm motorized	2.8mm	2.8mm	2.7-13.5mm motorized
Min. Scene Illumination (color/BW)	0.002Lux	0.0002Lux/0lux	0.002lux/0lux	0.002Lux/0lux	0.06lux/0lux	0.04lux/0lux	0.01lux/0lux
Built-in Infrared Illuminator	40m/132ft (LED, no IR)	N/A	50m/164ft	40m/131ft	50m/164ft	35m/115ft	40m/131ft
Wide Dynamic Range (120dB)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Video Compression	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264
Max. Resolution	4MP	4MP	4MP	4MP	4MP	4MP	4MP
Audio Input/Output	1/No	1 / 1	1 / 1	1 / 1	Mic (Optional)/No	Mic (Optional)/No	No / No
Alarm Input/Output	N/A	1 / 1	2 / 1	1 / 1	No / No	No / No	No / No
Micro SD Memory Card Slot	256GB max	256GB max	256GB max	256GB max	128GB max	128GB max	256GB max
External Power Supported	12V DC/PoE <7.2W	12V DC/PoE <4.4W	DC 12V (±30%), PoE <10.9W	DC12V: 4.9W 12.4W AC24V: 5.1W 11.9W PoE: 5.2W 11.6W	DC12V, 5.5W	DC12V, 6.1W	DC12V, PoE, 6.5W
Operating Temperature	-30°C to +60°C -22°F to +140°F	-30°C to +60°C -22°F to +140°F	-30°C to +60°C -22°F to +140°F	-30°C to +60°C -22°F to +140°F	-30°C to +60°C -22°F to +140°F	-40°C to +60°C -40°F to +140°F	-30°C to +60°C -22°F to +140°F
Weather/Vandal Rating	IP67 / No	IP67 / IK10	IP67 / IK10	IP67 / IK10	IP67 / No	IP67 / No	IP67 / IK10
Back Box	BRACK-BB-43	BRACK-BB-48	BRACK-BB-53	BRACK-BB-63	BRACK-BB-43	BRACK-BB-43/ BRACK-BB-43-B	BRACK-BB-48
Wall Mount	BRACK-WM-49	BRACK-WM-48	Included	BRACK-WM-63	BRACK-WM-49	BRACK-WM-49	BRACK-WM-48
Pendant Mount	BRACK-PM-06	BRACK-PM-06	N/A	BRACK-PM-63	BRACK-PM-06	BRACK-PM-06	BRACK-PM-06

Call for availability

Call for availability

Model	MPIX-40BIR-K28R2	MPIX-40BIVFR2	MPIX-21VDF-IR282C	MPIX-21IRBFTL	MPIX-21VDV-IRV	MPIX-21VDF-IR28	MPIX-21SPH
Product Image							
Lens Focal Length	2.8mm	2.7-13.5mm motorized	2.8mm	2.8mm	2.7-13.5mm motorized	2.8mm	3.7mm
Min. Scene Illumination (color/BW)	0.008lux/0lux	0.08lux/0lux	0.009lux/F2.0	0.002lux/0lux	0.006lux/0lux	0.08lux/0lux	0.05lux/0.01lux
Built-in Infrared Illuminator	30m/98ft	60m/197ft	20m/66ft	30m/98ft	30m/98ft	30m/98ft	N/A
Wide Dynamic Range (120dB)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Video Compression	H.265 / H.264	H.265 / H.264	H.264 / H.265	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.264 / M-JPEG
Max. Resolution	4MP	4MP	2.1MP	2.1MP	2.1MP	2.1MP	2.1MP
Audio Input/Output	No / No	No / No	No / No	No / No	No / No	No / No	1 / 1
Alarm Input/Output	No / No	No / No	No / No	No / No	No / No	No / No	No / No
Micro SD Memory Card Slot	256GB max	256GB max	128GB max	256GB max	Yes	No	No
External Power Supported	DC12V, 5W	DC12V PoE, 9.6W	DC12V, DC 12V: 4.32W 6.02W(IR on)	DC12V, 6.5W	DC12V, 9W	DC12V, 5.5W	DC12V, 2W
Operating Temperature	-40°C to +60°C -40°F to +140°F	-30°C to +60°C -22°F to +140°F	-30°C to +60°C -22°F to +140°F	-40°C to +60°C -40°F to +140°F	-30°C to +60°C -22°F to +140°F	-30°C to +60°C -22°F to +140°F	-20°C to +55°C -4°F to +131°F
Weather/Vandal Rating	IP67 / No	IP67 / No	IP67 / IK10	IP67 / No	IP67 / IK10	IP66 / IK10	No / No
Back Box	BRBOXMXC	BRACK-BB-37	BRACK-BB-48	BRACK-BB-43	BRACK-BB-48	BRACK-BB-44	N/A
Wall Mount	Included	Included	BRACK-WM-48	BRACK-WM-49	BRACK-WM-48	BRACK-WM-48	Included
Pendant Mount	N/A	N/A	BRACK-PM-06	BRACK-PM-06	BRACK-PM-06	BRACK-PM-06	N/A

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PTZ Models	MPiX-80IRPTZAI	MPiX-40IRPTZAI	MPiX-21MP25XIRAI	MPiX-21IRPTZ	MPiX-21MP4X
Product Image					
Lens Focal Length	5.6-223mm	5.6-223mm	4.8-120mm	4.5-135mm	2.7-11mm motorized
Min. Scene Illumination (color/BW)	0.002lux/0lux	0.001lux/0lux	0.05lux/0lux	0.005lux/0lux	0.005lux/0.0005lux
Optical Zoom Ratio	40X	40X	25X	30X	4X
Digital Zoom	16X	16X	16X	16X	16X
Day/Night Mode	Yes	Yes	Yes	Yes	Yes
Built-in Infrared Illuminator	500m/1640ft	500m/1640ft	100m/328ft	200m/656ft	No
Auto-tracking	Yes, Enhanced with AI	Yes, Enhanced with AI	No	Yes	No
Wide Dynamic Range (120dB)	Yes	Yes	Yes	Yes	Yes
Video Compression	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.265	H.265/H.264/M-JPEG
Max. Resolution (HD Analog)	8MP	8MP	2MP	2.1MP	2.1MP
Audio Input/Output	1 / 1	1 / 1	1 / 1	Yes / 1	No / No
Alarm Input/Output	7 / 1	7 / 1	2 / 1	2 / 1	No / No
Micro SD Memory Card Slot	256GB max	256GB max	128GB max	128GB max	128GB max
Power Requirement	AC24V, 3A, Hi-PoE	AC24V, 3A, Hi-PoE	DC12V, 3A PoE+	AC24V, 3A, PoE+	DC12V, PoE, 5.5W
Operating Temperature	-40°C to +70°C -40°F to +158°F	-40°C to +70°C -40°F to +158°F	-40°C to +70°C -40°F to +158°F	-40°C to +70°C -40°F to +158°F	-30°C to +60°C -22°F to +140°F
Weather/Vandal Rating	IP67 / No	IP67 / No	IP66 / No	IP67 / IK10	IP66 / IK10
Back Box	BRACK-PTZ-BOX	BRACK-PTZ-BOX	BRACK-PTZ-BOX	BRACK-PTZ-BOX	BRACK-BB-48
Wall Mount	Included	Included	Included	Included	BRACK-WM-48
Pendant Mount	N/A	N/A	BRACK-MPiX-21MP-PEND	BRACK-MPiX-21MP-PEND	N/A

Model	MPiX-12-360-FIR	MPiX-60-360-FIR
Product Image		
Lens Focal Length	1.83mm fisheye	
Min. Scene Illumination (color/BW)	0.009lux/0lux	
Built-in Infrared Illuminator	6x LED, 15m/49ft	
Wide Dynamic Range (120dB)	Yes	
Video Compression	H.265 / H.264	
Max. Resolution	12MP	6MP
Audio Input/Output	1 / 1	
Alarm Input/Output	1 / 1	
Micro SD Memory Card Slot	128GB max	
External Power Supported	DC12V/AC24V, 8W	
Operating Temperature	-30°C to +60°C / -22°F to +140°F	
Weather/Vandal Rating	IP67 / No	
Back Box	N/A	
Wall Mount	BRACK-MX-60-360 / BRACK-WM-TILT	
Pendant Mount	N/A	

MPiX PoE IP MegaPixel Fast Pack Kits

4CH NVR Fast Pack 	4 Channel + 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	 	4 Channel + 4 Cameras	NEW 4CH MPiX Kit 5.0 MegaPixel IP Cameras 4 CH ENMR3 NVR w/ 1TB HDD 4 Port PoE Built-In	ENMR3-04KIT4-50IRBFT (MPiX-50IRBFT-IR28AI) 2.8mm Lens	 
8CH NVR Fast Pack 	8 Channel + 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	 	8 Channel + 6 Cameras	NEW 8CH MPiX Kit 5.0 MegaPixel IP Cameras 8 CH ENMR3 NVR w/ 2TB HDD 8 Port PoE Built-In	ENMR3-08KIT6-50IRBFT (MPiX-50IRBFT-IR28AI) 2.8mm Lens	 
16CH NVR Fast Pack 	16 Channel + 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	 	16 Channel + 8 Cameras	NEW 16CH MPiX Kit 5.0 MegaPixel IP Cameras 16 CH ENMR3 NVR w/ 2TB HDD 16 Port PoE Built-In	ENMR3-16KIT8-50IRBFT (MPiX-50IRBFT-IR28AI) 2.8mm Lens	 

*Some features are NEW and current stocked models may not yet reflect the change.

Model	XVI-80BIMRD	XVI-80VDV-IRVD	XVI-80IRBVMTD	XVI-80IRBT	XVI-80VDF-IR28	XVI-50IRBTR2 XVI-50IRBTR2-B	XVI-50VDV-IRVD	XVI-50VDV-IRVDL	XVI-50BIMRD	XVI-50BIMRDL
Product Image										
Lens Focal Length	3.7-11mm motorized	3.7-11mm motorized	3.7-11mm motorized	3.6mm	2.8mm	2.8mm	2.7-13.5mm motorized	2.7-12mm motorized	2.7-13.5mm motorized	2.7-12mm motorized
Min. Scene Illumination	0.005lux/0lux	0.005lux/0lux	0.005lux/0lux	0.03lux/0lux	0.03Lux/0Lux	0.01Lux/0Lux	0.001lux/0lux	0.005lux/0lux	0.001lux/0lux	0.005lux/0lux
Built-in Infrared Illuminator	80m/262ft, Smart IR	30m/98ft, Smart IR	60m/197ft, Smart IR	50m/164ft	30m/98ft	60m/196.9ft	30m/98ft, Smart IR	30m/98ft, Smart IR	80m/262ft, Smart IR	60m/196ft, Smart IR
Wide Dynamic Range (120dB)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max. Resolution (HD Analog)	8MP	8MP	8MP	8MP	4MP	5MP	5MP	5MP	5MP	5MP
Audio Input/Output	1 / No	No / No	1 / No	No / No	No / No	1 / No	No / No	No / No	No / No	No / No
Alarm Input/Output	No / No	No / No	No / No	No / No	No / No	No / No	No / No	No / No	No / No	No / No
Power Requirement	DC12V/AC24V, 15W	DC12V/AC24V, 8.4W	DC12V/AC24V, 12W	12V DC $\pm$ 30% 4.5W	12V DC $\pm$ 30% 4.8W	DC12V, 5.2W	DC12V/AC24V Max.8.7W	DC12V/AC24V DC 12V Max.6.9W	DC12V/AC24V, Max. 12.5W	DC12V/AC24V, DC 12V Max. 11.5W
Operating Temperature	-30°C to +60°C -22°F to +140°F	-30°C to +60°C -22°F to +140°F	-30°C to +60°C -22°F to +140°F	-40°C to +60°C -40°F to +140°F	-40°C to +60°C -40°F to +140°F	-40°C to +60°C -40°F to +140°F	-30°C to +60°C -22°F to +140°F	-30°C to +60°C -22°F to +140°F	-30°C to +60°C -22°F to +140°F	-30°C to +60°C -22°F to +140°F
Weather/Vandal Rating	IP67 / No	IP67 / IK10	IP67 / No	IP67 / No	IP67 / IK10	IP67 / No	IP67 / IK10	IP67 / IK10	IP67 / No	IP67 / No
Back Box	BRACK-BB-37	BRACK-BB-48	BRACK-BB-48	BRACK-BB-43	BRACK-BB-44	BRACK-BB-43/B	BRACK-BB-48	BRACK-BB-48	BRACK-BB-37	N/A
Wall Mount	Included	BRACK-WM-48	BRACK-WM-48	BRACK-WM-49	BRACK-WM-48	BRACK-WM-49	BRACK-WM-48	BRACK-WM-48	Included	Included
Pendant Mount	N/A	BRACK-PM-06	BRACK-PM-06	BRACK-PM-06	BRACK-PM-06	N/A	BRACK-PM-06	BRACK-PM-06	N/A	N/A

Call for availability

Call for availability

Model	XVI-50VDV-IRV	XVI-50VDF-IR28	XVI-21VDV-IRMS	XVI-21PIRR2	XVI-21SPHR2
Product Image					
Lens Focal Length	2.7-12mm motorized	2.8mm	2.7-12mm motorized	2.8mm	2.8mm
Min. Scene Illumination	0.0051lux/0lux	0.005Lux/0Lux	0.05lux/0lux	0.02lux/0lux	0.004lux/0lux
Built-in Infrared Illuminator	30m/98ft, Smart IR	30m/98ft, Smart IR	50m/164ft	No	No
Wide Dynamic Range (120dB)	Yes	Yes	Yes	Yes	Yes
Max. Resolution (HD Analog)	5MP	5MP	2.1MP	2.1MP	2.1MP
Audio Input/Output	No / No	No / No	1 / No	No / No	No / No
Alarm Input/Output	No / No	No / No	1 / 1	No / No	No / No
Power Requirement	DC 12V $\pm$ 30%, 5.5W	12V $\pm$ 30% DC 3.5W	DC12V/AC24V, 2.5W	DC12V, 0.8W	DC12V, 2.11W
Operating Temperature	-30°C to +60°C -22°F to +140°F	-40°C to +60°C -40°F to +140°F	-30°C to +60°C -22°F to +140°F	-10°C to +50°C 14°F to +122°F	-30°C to +60°C -22°F to +140°F
Weather/Vandal Rating	IP67 / IK10	IP67 / IK10	IP66 / IK10	No / No	No / No
Back Box	BRACK-BB-48	BRACK-BB-44	BRACK-BB-63	N/A	N/A
Wall Mount	BRACK-WM-48	BRACK-WM-48	BRACK-WM-63	Included	Included
Pendant Mount	BRACK-PM-06	BRACK-PM-06	BRACK-PM-63	N/A	N/A



A Professional Video Management System
integrating all WatchNET products including IP,
Analog and XVI for Cameras, NVRs and Servers

www.watchnetinc.com

*Some features are NEW and current stocked models may not yet reflect the change.

PTZ Model	XVI-21IRPTZR2	XVI-21MP15X	XVI-21MP4X
Product Image			
Lens Focal Length	4.8-120mm	5-75mm	2.7-11mm motorized
Min. Scene Illumination	0.05lux/0.005lux	0.005lux/0.0005	0.05lux/0.005lux
Optical Zoom Ratio	25X	15X	4X
Digital Zoom	16X	16X	16X
Day/Night Mode	Yes	Yes	Yes
Built-in Infrared Illuminator	150m/492ft	No	No
Backlight Compensation	Yes	Yes	Yes
Wide Dynamic Range (120dB)	Yes	Yes	Yes
Max. Resolution (HD Analog)	2.1MP	2.1MP	2.1MP
Audio Input/Output	Yes / 1	Yes / 1	No / No
Alarm Input/Output	2 / 1	2 / 1	No / No
Micro SD Memory Card Slot	No	No	No
Power Requirement	DC 24V/3A ± 25%	DC 12V/5A, 9.6W	DC12V, 10W
Operating Temperature	-40°C to +70°C -40°F to +158°F	-40°C to +60°C -40°F to +140°F	-30°C to +60°C -22°F to +140°F
Weather/Vandal Rating	IP66 / No	IP66 / IK10	IP66 / IK10
Back Box	BRACK-PTZ-BOX	BRACK-PTZ-BOX	BRACK-BB-48
Wall Mount	Included	Included	BRACK-WM-48
Pendant Mount	BRACK-MPIX-21MP-PEND	BRACK-MPIX-21MP-PEND	N/A

4CH DVR Fast Pack  5MP	4 Channel + 4 Cameras	5.0 MegaPixel Cameras 4 CH PNT DVR w/ 1TB HDD New Penta-Brid AI Recorder	EVI-04KIT4-50IRBT (XVI-50IRBT2) 2.8mm Lens	x4 
8CH DVR Fast Pack  5MP	8 Channel + 6 Cameras	8CH EVI Kit 5.0 MegaPixel Cameras 8 CH PNT DVR w/ 2TB HDD New Penta-Brid AI Recorder	EVI-08KIT6-50IRBT (XVI-50IRBT2) 2.8mm Lens	x6 
16CH DVR Fast Pack  5MP	16 Channel + 8 Cameras	16CH EVI Kit 5.0 MegaPixel Cameras 16 CH PNT DVR w/ 2TB HDD New Penta-Brid AI Recorder	EVI-16KIT8-50IRBT (XVI-50IRBT2) 2.8mm Lens	x8 

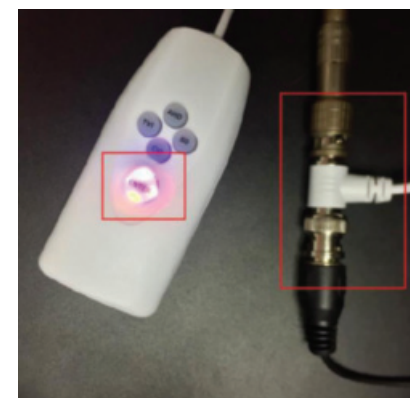
UTC Controller



XVI-TOOL

Model	XVI-TOOL
Features	
Formats	HDCVI/AHD/HDTV/CVBS
Power Consumption	0.3W
Power Supply	AAA battery*2 (not included)
Indicator Lights	Prompt current format
Applicable Pixel	2MP and below
Physical Properties	
Dimension(LxWxH)	Body: 90mm x 41mm x 21mm (3.54" x 1.61" x 0.83") Length: 560mm (22.05")
Outer Shell	PC & ABS
Color	White
Net Weight	48g (0.11lb)
Environmental	
Operating Temperature	0°C~+40°C(+32°F~+104°F)
Humidity	0~95% (non-condensing)
Certification	
Certification	CE

Application



*Some features are NEW and current stocked models may not yet reflect the change.



Introducing NEW Products with Artificial Intelligence Functions

8MP AI Penta-Brid DVRs



4K PNT-0480AIL



4K PNT-0880AIL



4K PNT-1680AIL



AI Features:

(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, similarity threshold can be set for each target face image
- Up to 10 face databases with 20,000 face images in total
- Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.

AI Motion:

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

AI Penta-Brid DVRs



4K PNT-32EXAI



AI Functions:

Fenced Area Protection:

- Up to 6 channels video stream fenced area protection (Analog channels only), 10 IVS for each channel
- Human/Vehicle secondary recognition for line crossing and intrusion
- AI Search by target classification (Human, Vehicle)

Face Detection:

- Up to 6 channels video stream human face recognition (Analog channels only), max 12 face pictures/sec processing

- Detect strangers' faces (not in device's face database)
- Up to 8 target face images search at same time
- Up to 10 face databases with 20,000 face images in total
- Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.

AI Motion Detection:

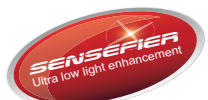
- Up to 32 channels video stream motion detection (Analog channels only)
- AI Search by target classification (Human, Vehicle)

2 Way Audio Active Deterrence Camera

- 5MP SENSEFIER Technology
- Crystal clear Two way Audio with built-in Mic and Speaker
- Talk using our Phone app or right from your computer
- Use the AI functions to have the camera do the talking for you on events such as Line crossing or Fenced area protection
- Create custom messages for welcoming people to your business or home
- Have the camera remind people to wear a Mask before entering
- Dual illuminator technology!

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-IR28AI2W

AI Penta-Brid DVRs



4K



PNT-16EXAI



4K



PNT-0880AI / PNT-1680AI



AI Functions: ONLY Supported on BNC Inputs, recommended Resolution of 2.1MP or higher:

- Up to 16 channel Fenced Area Protection/ Line crossing
- 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

AI Functions:

- Fenced Area Protection and Smart Detection Classifications
- AI Support ONLY on BNC inputs, NOT on IP Channels (recommended 2.1MP resolution or higher)

Thermal Solutions for Today's Market Demands



Thermal Camera Kit TNC-20-BDCKIT



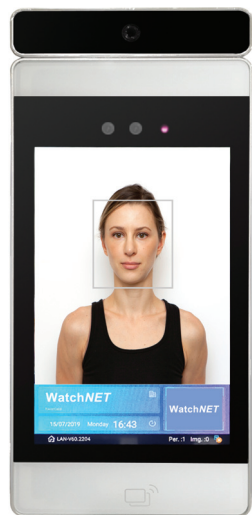
- Dual Spectrum Thermal Camera
- Black Body Calibrator
- Ceiling Mount Bracket
- Wall Mount Bracket



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

Applications:

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



WAF-428D



Access Granted



Access Denied



Stand alone operation supported

Contactless Infrared Thermal Detection, Ultrasonic Ranging, Local Alarm

- Infrared Temperature Measurement
- Voice and Light Alarm
- Ultrasonic Distance Measurement
- Portable



WTS-2020



Access Controllers ENC KITs



WAC-2D2T-ENC KIT
2 Door 2 Reader



- 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

TCP / IP



Controller/Aux Power Included with battery charger



WAC-2D4T-ENC KIT
2 Door 4 Reader



- 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

TCP / IP

Controller/Aux Power Included with battery charger



WAC-4D4T-ENC KIT
4 Door 4 Reader



- 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

TCP / IP



Controller/Aux Power Included with battery charger



WAC-8D8T-ENC KIT
8 Door 8 Reader



- 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

TCP / IP



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

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)

Controller/Aux Power Included with battery charger

Special Application Controllers

Elevator Access Controller



WAE-016-ENC



WAE-016-PCB

TCP / IP

- 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 ($\pm 10\%$)
- Operating Current: $\leq 800\text{mA}$
- Standby Current: $\leq 150\text{mA}$
- Working Temperature: $-40^\circ\text{C} \sim 70^\circ\text{C}$ / $-40^\circ\text{F} \sim 158^\circ\text{F}$
- 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"



WAI-X1608-ENC



WAI-X1608-PCB

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/TCP/IP interface
- POE: 802.1af
- TCP Communication speed: 100M
- 15 Time Groups for each relay
- Transaction Storage: 25,000 events
- Operating Voltage: 12V DC ($\pm 10\%$)
- 110/220 AC (50/60HZ) switched mode 12V DC 6A Power Supply c/w 13.8V DC battery charging circuit
- Operating Current: $\leq 200\text{mA}$
- Standby Current: $\leq 150\text{mA}$
- Data Memory: 4M bit (protected)
- 1 Lithium battery backup (up to 10 years data retention)



WAR-EHO-MPX

Multi technology 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°C to 65°C / -22°F to 149°F
- Operating Humidity: 0 to 95%
- Buzzer Control Input: Dry Contact, Normally Open
- LED Control Input: Dry Contact, Normally Open
- Dimensions: 86mm L x 43mm W x 25mm D
3.38" L x 1.69" W x 0.98" 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 / 4000ft
- Operating Voltage: 7-12VDC
- Operating Current: 100mA
- Standby Current: 50mA
- Working Temperature: -30°C to 65°C / -22°F to 149°F
- Operating Humidity: 0 to 95%
- Buzzer Control Input: RS485 Protocol
- LED Control Input: RS485 Protocol
- Dimensions: 86mm L x 43mm W x 25mm D
3.38" L x 1.69" W x 0.98" D
- Weight: 0.250kg / 0.55lbs



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. (113 g)



**WAR-HAM-LRW
WAR-HAM-SRW**

Long Range Wireless Receiver

- Frequency: 433 MHz
- Installation: Indoor & Outdoor (IP65)
- Cabling: 24 AWG min, multi-conductor stranded with an overall foil shield
- Interface: Wiegand (26 bit standard and custom formats)
- Voltage: 12 VDC
- Transmission: Rolling code + encryption
- Operating Temp.: -40°C to +65°C / -40°F to 149°F

Model WAR-HAM-LRW

- Weight: 12 oz. (340g)
- Current Draw: 120 mA typical @ 12VDC
- Read Range: Up to 200 feet (61 m), Installer adjustable

Model WAR-HAM-SRW

- Weight: 8 oz. (227g)
- Current Draw: 80 mA typical @ 12VDC
- Read Range: Up to 100 feet (30.5 m), Non-adjustable



**WAR-UHF-LR
WAR-UHF-SR**

Mid & Long Range UHF Reader

- RF output power up to 30dbm (adjustable)
- Standard ISM 865-868MHz, 902-928MHz
- Compliant with CE, FCC/ Multi-Tag Reading
- Support RS232, RS485, Wiegand interface
- Operation Temp.: -35°C~+50°C/-31°F~+122°C
- 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: 445x445x65mm/17.52"x17.52"x2.56"

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: 26x26x4.5mm / 1.02"x1.02"x0.18"



WAC-UHF-ISO
UHF Access Card



WAC-UHF-HLD
Windshield
Card Holder



WAC-UHF-TAG
UHF Sticker for vehicles/articles



WAR-E10-VKR

Vandal proof reader with keypad

- Range - 10cm / 3.94"
- Output - 26/34 bit
- Indicators - Blue/Green
- Size - 120mm x 76mm x 21mm
4.72" x 2.99" x 0.83"
- Frequency - 125 KHz
- Voltage - 7- 12V DC
- Operating Current - <100mA
- Standby Current - <50mA
- Working Temperature: -30°C to 65°C / -22°F to 149°F
- Operating Humidity - 0 to 95%
- LED Control Input - Dry Contact, N/O
- Buzzer Control Input - Dry Contact, N/O
- Weight - 500g (1.10lb)



WAR-EM1-LRR

Long range card reader

- Range - 20cm / 7.87"
- Output - 26/34 bit
- Indicators - Blue/Green
- Size - 260mm x 260mm x 35mm
10.24" x 10.24" x 1.38"
- Frequency - 125 KHz
- Voltage - 7- 12V DC
- Operating Current - <100mA
- Standby Current - <50mA
- Working Temperature: -35°C to 65°C / -22°F to 149°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)



**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



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

Desktop Server (Preloaded software)

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



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/HID Proximity reader



WAA-WTM-485

Wireless Transmitter / Receiver

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

Enterprise Class Management Software Included*



WatchNET 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 WatchNET DVRs, NVRs, IP Cameras, and supported ONVIF cameras.

*** Free license limited to 8 doors, 2 cameras, 3000 users, 1 client, basic T/A module.**

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



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.

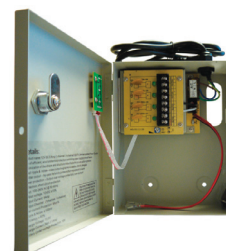
- USB Com Port
- Plug in after installing the driver
- Temperature: -30°C ~ 70°C / -22°F ~ 158°F
- Humidity: 5% ~ 95%
- Easy and User friendly installation
- Stable performance



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)



WAA-POW-04UL

With built-in back up battery charger

4CH Power Supply

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



E358365
4WZ0
I.T.E POWER SUPPLY



**WAC-EMC-ISO
WAC-HIC-ISO**

Printable Cards

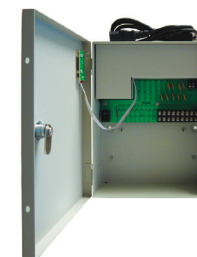
- Case Material: PVC Blank White
- Operation Temperature: -15°C ~ +55°C
5°F ~ +131°F
- Storage Temperature: -20°C ~ +60°C
-40°F ~ +140°F
- Chip Type Functionality:
Model: WAC-EMC-ISO - EM 4100 Read Only
Model: WAC-HIC-ISO - HID Card
- Operation Frequency: 125K Hz
- Protocol: ISO 7816
- Read Distance: 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 x 31mm x 5mm
1.73" x 1.22" x 0.20"



WAA-POW-09UL

With built-in back up battery charger

9CH Power Supply

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



E358365
4WZ0
I.T.E POWER SUPPLY



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



WAR-MPX-DTRS

Desktop Reader for Access Control System

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

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°C ~ 55°C / 32°F ~ 131°F
- Installation: Plug-and-play, no setting required



UTP Balun included
For 2 wire connection

**Some features are NEW and current stocked models may not yet reflect the change.*

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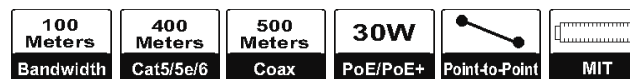
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IP and POE over Coax Module(Pair)



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°C ~ 55°C / 32°F ~ 131°F
- Installation: Plug-and-play, no setting required

All products of WatchNET are Certified with:



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

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