

24  
YEARS

Recorders



Cameras



Network Switch



Access Control



Storage



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## 2.1 IP Megapixel Cameras

Model	MPIX-21IRBFTAI	MPIX-21VDF-IR28R2
Product Image		
Lens Focal Length	2.8mm	2.8mm
Min. Scene Illumination (color/BW)	0.002lux/0lux	0.01 Lux @F2.0
Built-in Infrared Illuminator	30m / 98ft	30m / 98ft
Wide Dynamic Range	Yes	Yes
Video Compression	H.265 / H.264	H.264 / H.265
Max. Resolution	2.1MP	2.1MP
Audio Input/Output	No / No	No / No
Alarm Input/Output	No / No	No / No
Micro SD Memory Card Slot	256GB max	No
External Power Supported	DC12V, 6.5W	12V DC/PoE, (802.3af)
Operating Temperature	-40°C to +60°C -40°F to +140°F	-40°C to +60°C -40°F to +140°F
Weather/Vandal Rating	IP67 / No	IP67 / IK10
Back Box	BRACK-BB-43	BRACK-BB-44
Wall Mount	BRACK-WM-49	BRACK-WM-48
Pendant Mount	BRACK-PM-06	BRACK-PM-06





# 4 IP Megapixel Cameras

Model	MPIX-40LEDT-NPC28AI	MPIX-40VDF-NPC36AI	MPIX-40VDF-IR282CAI	MPIX-40BIR-K28R2	MPIX-40SPHAI	MPIX-40LPR
Product Image						
Lens Focal Length	2.8mm	3.6mm	2.8mm	2.8mm	2.8mm	8 mm–32 mm
Min. Scene Illumination (color/BW)	0.002Lux	0.0002Lux	0.005Lux/0lux	0.008lux/0lux	0.005 Lux/0.0005 Lux	0.0002Lux
Built-in Infrared Illuminator	40m / 132ft (LED, no IR)	N/A	30m / 98.4ft	30m / 98.4ft	N/A	N/A
Wide Dynamic Range	Yes	Yes	Yes	Yes	Yes	N/A
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	4MP	4MP	4MP	4MP	4MP	4MP
Audio Input/Output	1/No	1/1	1/1	No / No	1/1	1/1
Alarm Input/Output	N/A	1/1	2/2	No / No	2/2	2/2
Micro SD Memory Card Slot	256GB max	256GB max	256GB max	256GB max	256GB max	256GB max
External Power Supported	12V DC/PoE, <7.2W	12V DC/PoE, <4.4W	DC 12V, PoE	DC12V, 5W	Basic: 2.4W (12V DC); 3W (PoE) Max. (Intelligence + WDR): 3.9W (12V DC); 4.8W (PoE)	12 VDC, 2 A and POE:802.3at,Type 2,Class 4, (44V to 57V), 0.455A to 0.351A,max.20W 12 VDC, 2 A and POE:802.3at,Type 2,Class 4, (44V to 57V), 0.455A to 0.351A,max.20W
Operating Temperature	-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 +65°C -22°F to +149°F
Weather/Vandal Rating	IP67 / No	IP67 / IK10	IP67 / IK10	IP67 / No	No / No	IP67 / IK10
Back Box	BRACK-BB-43	BRACK-BB-48	BRACK-BB-48	N/A	N/A	N/A
Wall Mount	BRACK-WM-49	BRACK-WM-48	BRACK-WM-48	Included	N/A	N/A
Pendant Mount	BRACK-PM-06	BRACK-PM-06	BRACK-PM-06	N/A	N/A	N/A

# 5 AI IP Megapixel Cameras

Model	MPIX-50BILRAI	MPIX-50BIMRAI	MPIX-50IRBT-AIT	MPIX-50IRTAI	MPIX-50IRTAI-B
<b>Product Image</b>					
<b>Lens Focal Length</b>	7-35mm - motorized	2.7-13.5mm - motorized	2.8mm	2.8mm	2.8mm
<b>Min. Scene Illumination (color/BW)</b>	0.003Lux/0lux	0.005Lux/0lux	0.003Lux	0.005 lux	0.005 lux
<b>Built-in Infrared Illuminator</b>	120m / 394ft	50m / 164ft	30m / 98ft	50 m (164.04 ft)	50 m (164.04 ft)
<b>Wide Dynamic Range</b>	Yes	Yes	Yes	Yes	Yes
<b>Video Compression</b>	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264
<b>Max. Resolution</b>	5MP	5MP	5MP	5MP	5MP
<b>Audio Input/Output</b>	1/1	1/1	Built-in Mic / 1	N/A	N/A
<b>Alarm Input/Output</b>	2/1	2/1	1/1	N/A	N/A
<b>Micro SD Memory Card Slot</b>	256GB max	256GB max	256GB max	256 GB	256 GB
<b>External Power Supported</b>	DC 12V (±30%), <10.9W	DC 12V (±30%), PoE <10.9W	12V DC/PoE, <8.6W	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)
<b>Operating Temperature</b>	-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
<b>Weather/Vandal Rating</b>	IP67 / IK10	IP67	IP67	IP67	IP67
<b>Back Box</b>	BRACK-BB-53	BRACK-BB-53	BRACK-BB-48	BRACK-BB-43	BRACK-BB-43
<b>Wall Mount</b>	Included	Included	BRACK-WM-48	BRACK WM 49	BRACK WM 49
<b>Pendant Mount</b>	N/A	N/A	BRACK-PM-06	BRACK PM 06	BRACK PM 06

# 5 AI IP Megapixel Cameras






Model	MPIX-50DF-IR28AI	MPIX-50VDFAIE	MPIX-50VDF-IR28AI	MPIX-50VDF-IR28AI2W
<b>Product Image</b>				
<b>Lens Focal Length</b>	2.8mm	2.8mm	2.8mm	2.8mm
<b>Min. Scene Illumination (color/BW)</b>	0.008 Lux/0lux	0.005 lux	0.005Lux/0lux	0.005Lux/0lux
<b>Built-in Infrared Illuminator</b>	30m / 98.4ft	30m / 98.43ft	50m / 164ft	30m / 98ft
<b>Wide Dynamic Range</b>	Yes	Yes	Yes	Yes
<b>Video Compression</b>	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264
<b>Max. Resolution</b>	5MP	5MP	5MP	5MP
<b>Audio Input/Output</b>	N/A	No / No	N/A	Built-in Mic / 1
<b>Alarm Input/Output</b>	N/A	No / No	N/A	1 / 1
<b>Micro SD Memory Card Slot</b>	256GB max	256GB max	256GB max	256GB max
<b>External Power Supported</b>	12V DC/PoE, <5.7W	12 VDC/PoE (802.3af)	12V DC/PoE, <7.3W	12V DC/PoE, <8.6W
<b>Operating Temperature</b>	-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	-40°C to +60°C -40°F to +140°F
<b>Weather/Vandal Rating</b>	IP67 / IK10	IP67 / IK10	IP67 / IK10	IP67 / IK10
<b>Back Box</b>	BRACK-BB-43	BRACK-BB-44	BRACK-BB-44	BRACK-BB-48
<b>Wall Mount</b>	BRACK-WM-49	BRACK-WM-48	BRACK-WM-48	BRACK-WM-48
<b>Pendant Mount</b>	BRACK-PM-06	BRACK-PM-06	BRACK-PM-06	N/A

# 5 AI IP Megapixel Cameras

Model	MPIX-50DVAI	MPIX-50VDV-IRMAI	MPIX-50VDV-IRMLRAI	MPIX-50VDV-IRVAI
<b>Product Image</b>				
<b>Lens Focal Length</b>	2.8mm	2.7-13.5mm - motorized	7-35mm - motorized	2.7-13.5mm - motorized
<b>Min. Scene Illumination (color/BW)</b>	0.007 lux	0.005Lux/0lux	0.003Lux/0lux	0.005Lux/0lux
<b>Built-in Infrared Illuminator</b>	40m / 131ft	40m / 131ft	120m / 394ft	40m / 131ft
<b>Wide Dynamic Range</b>	Yes	Yes	Yes	Yes
<b>Video Compression</b>	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264
<b>Max. Resolution</b>	5MP	5MP	5MP	5MP
<b>Audio Input/Output</b>	N/A	1/1	1/1	N/A
<b>Alarm Input/Output</b>	N/A	1/1	2/1	N/A
<b>Micro SD Memory Card Slot</b>	256 GB	256GB max	256GB max	256GB max
<b>External Power Supported</b>	12 VDC/PoE (802.3af)	DC 12V/AC 24V	DC 12V (±30%), <10.9W	12V DC/PoE, <8.5W
<b>Operating Temperature</b>	-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
<b>Weather/Vandal Rating</b>	IP67 / IK10	IP67 / IK10	IP67 / IK10	IP67 / IK10
<b>Back Box</b>	BRACK-BB-48	BRACK-BB-63	BRACK-BB-63	BRACK-BB-48
<b>Wall Mount</b>	BRACK-WM-48	BRACK-WM-63	BRACK-WM-63	BRACK-WM-48
<b>Pendant Mount</b>	BRACK-PM-06	N/A	N/A	BRACK-PM-06



# 8 AI IP Megapixel Cameras

Model	MPIX-80BIMR	MPIX-80IRBFTAI	MPIX-80IRTAI	MPIX-80VDFAI	MPIX-80VDF-IR28AI
<b>Product Image</b>					
<b>Lens Focal Length</b>	2.7-12mm - motorized	2.8mm	2.8mm	2.8mm	2.8mm
<b>Min. Scene Illumination (color/BW)</b>	0.05Lux/0lux	0.004Lux/0lux	0.009 lux	0.009 lux	0.004lux/0lux
<b>Built-in Infrared Illuminator</b>	50m / 164ft	50m / 164ft	30m / 98.43ft	30m / 98.43ft	50m / 164ft
<b>Wide Dynamic Range</b>	Yes	Yes	Yes	Yes	Yes
<b>Video Compression</b>	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264
<b>Max. Resolution</b>	8MP	8MP	8MP	8MP	8MP
<b>Audio Input/Output</b>	1/1	1/ No	No / No	No / No	1/1
<b>Alarm Input/Output</b>	2/1	2/1	No / No	No / No	1/1
<b>Micro SD Memory Card Slot</b>	128GB max	256GB max	256GB max	256GB max	256GB max
<b>External Power Supported</b>	DC12V, PoE, 12.95W	12 VDC (±30%)/PoE	12 VDC/PoE (802.3af)	12 VDC/PoE (802.3af)	12 VDC (±30%)/PoE
<b>Operating Temperature</b>	-30°C to +60°C -22°F to +140°F	-40°C to +60°C -40°F to +140°F	-40 °C to +55 °C -40 °F to +131 °F	-40°C to +60°C -40°F to +140°F	-40°C to +60°C -40°F to +140°F
<b>Weather/Vandal Rating</b>	IP67 / IK10	IP67 / No	IP67	IP67	IP67 / IK10
<b>Back Box</b>	BRACK-BB-53	BRACK-BB-43	BRACK-BB-43	BRACK-BB-44	BRACK-BB-48
<b>Wall Mount</b>	Included	BRACK-WM-49	BRACK-WM-49	BRACK-WM-48	BRACK-WM-48 Couple ONLY with back box
<b>Pendant Mount</b>	N/A	BRACK-PM-06	BRACK-PM-06	BRACK-PM-06	BRACK-PM-06



# 8 AI IP Megapixel Cameras

Model	MPIX-80IRBVTR2	MPIX-80VDV-IRM	MPIX-80VDV-IRMAIFR	MPIX-80VDV-IRV	MPIX-80VTAI
<b>Product Image</b>					
<b>Lens Focal Length</b>	2.7-13.5mm - motorized	2.7-12mm - motorized	2.7mm-12.0mm - motorized	2.7-13.5mm - motorized	2.7mm-12.0mm
<b>Min. Scene Illumination (color/BW)</b>	0.01lux/0lux	0.008Lux/0lux	0.003Lux/0Lux	0.008Lux/0lux	0.0008 lux
<b>Built-in Infrared Illuminator</b>	40m / 131ft	50m / 164ft	40m / 131.23ft	40m / 131ft	40m / 131.23ft
<b>Wide Dynamic Range</b>	Yes	Yes	Yes	Yes	Yes
<b>Video Compression</b>	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264
<b>Max. Resolution</b>	8MP	8MP	8MP	8MP	8MP
<b>Audio Input/Output</b>	No / No	1 / 1	1 / 1	No / No	No
<b>Alarm Input/Output</b>	No / No	1 / 1	3 / 2	No / No	No
<b>Micro SD Memory Card Slot</b>	256GB max	128GB max	256GB max	256GB max	512GB max
<b>External Power Supported</b>	DC12V, PoE, 8.5W	DC12V/AC24V, 15W	12 VDC/24 VAC/PoE+ (802.3at)	DC12V, PoE, 7.4W	12 VDC/24 VAC/PoE+ (802.3at)
<b>Operating Temperature</b>	-30°C to +60°C -22°F to +140°F	-30°C to +60°C -22°F to +140°F	-40°C to +65°C -40°F to +149°F	-30°C to +60°C -22°F to +140°F	-30°C to +60°C -22°F to +140°F
<b>Weather/Vandal Rating</b>	IP67 / No	IP67 / IK10	IP67 / IK10	IP67 / IK10	IP67
<b>Back Box</b>	BRACK-BB-48	BRACK-BB-63	BRACK-BB-63	BRACK-BB-48	BRACK-BB-48
<b>Wall Mount</b>	BRACK-WM-48	BRACK-WM-63	BRACK-WM-63	BRACK-WM-48	BRACK-WM-48
<b>Pendant Mount</b>	BRACK-PM-06	BRACK-PM-63	N/A	BRACK-PM-06	BRACK-PM-06




# 2.1 IP Megapixel PTZ Cameras

Model	MPIX-21IRPTZ	MPIX-21MP4X	MPIX-21MP5XIRAI	MPIX-21MP25XIRAIR2
Product Image				
Lens Focal Length	4.5-135mm	2.7-11mm - motorized	2.7-13.5mm	4.8-120mm
Min. Scene Illumination (color/BW)	0.05lux/0lux	0.005lux/0.0005lux	0.002lux/0.0002lux	0.05lux/0lux
Optical Zoom Ratio	30X	4X	5X	25X
Digital Zoom	16X	16X	16X	16X
Day/Night Mode	Yes	Yes	Yes	Yes
Built-in Infrared Illuminator	200m / 656ft	No	30m / 98.43ft	100m / 328ft
Auto-tracking	Yes	No	No	No
Wide Dynamic Range	Yes	Yes	Yes	Yes
Video Compression	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264
Max. Resolution (HD Analog)	2.1MP	2.1MP	2MP	2MP
Audio Input/Output	Yes / 1	No / No	1 / 1	1 / 1
Alarm Input/Output	2 / 1	No / No	No / No	2 / 1
Micro SD Memory Card Slot	128GB max	128GB max	256GB max	512GB max
Power Requirement	24V DC/2.5A, PoE+	DC12V, PoE, 5.5W	12V DC/2A ± 10%, PoE	DC12V, 3A±10%, PoE+
Operating Temperature	-40°C to +70°C -40°F to +158°F	-30°C to +60°C -22°F to +140°F	-30°C to +60°C -22°F to +140°F	-40°C to +70°C -40°F to +158°F
Weather/Vandal Rating	IP67 / IK10	IP66 / IK10	IP66 / No	IP66 / No
Back Box	BRACK-BB-PTZ	BRACK-BB-48	N/A	BRACK-BB-PTZ
Wall Mount	Included	BRACK-WM-48	Included	Included
Pendant Mount	BRACK-MPIX-21MPPEND	N/A	N/A	BRACK-MPIX-21MPPEND

# 4 & 8 AI PI Megapixel PTZ Cameras

Model	MPIX-40MP32XIRAI	MPIX-80IRPTZAIR2
Product Image		
Lens Focal Length	4.8-154mm	5.6-223mm
Min. Scene Illumination (color/BW)	0.005lux/0lux	0.005lux/0lux
Optical Zoom Ratio	32X	40X
Digital Zoom	16X	16X
Day/Night Mode	Yes	Yes
Built-in Infrared Illuminator	250m / 820.21ft	500m / 1640ft
Auto-tracking	Yes, Enhanced with AI	Yes, Enhanced with AI
Wide Dynamic Range	Yes	Yes
Video Compression	H.265 / H.264	H.265 / H.264
Max. Resolution (HD Analog)	4MP	4MP
Audio Input/Output	1/1	1/1
Alarm Input/Output	7/2	7/2
Micro SD Memory Card Slot	256GB max	512GB max
Power Requirement	DC24V/2.5A, Hi-PoE	DC36V/2.23A, Hi-PoE
Operating Temperature	-40°C to +70°C -40°F to +158°F	-40°C to +70°C -40°F to +158°F
Weather/Vandal Rating	IP67 / IK10	IP67 / No
Back Box	BRACK-BB-PTZ	BRACK-BB-PTZ
Wall Mount	Included	Included
Pendant Mount	BRACK-MPIX-21MPPEND	N/A

# 180° / 360° AI PI Megapixel Cameras

Model	MPIX-80BFT180LEDAI	MPIX-16MP180IRAI	MPIX-20MP360IRAI
Product Image			
Lens Focal Length	3.6mm	2.8mm	2.8 mm-12 mm - motorized
Min. Scene Illumination (color/BW)	0.0005lux/0lux	0.001lux/0lux	0.005lux/0lux
Built-in Infrared Illuminator	4 (Warm light), 40m/131.23ft	8x LED, 30m/98.43ft	8x LED, 30m/98.43ft
Wide Dynamic Range	Yes	Yes	Yes
Video Compression	H.265 / H.264	H.265 / H.264	H.265 / H.264
Max. Resolution	2x 4MP	4x 4MP	4x 5MP
Audio Input/Output	1/1	1/1	1/1
Alarm Input/Output	1/1	2/2	3/2
Micro SD Memory Card Slot	512GB max	256GB max	256GB max
External Power Supported	2 VDC (±30%)/PoE+	12 VDC/24 VAC/PoE+	12 VDC/PoE+ (802.3at)
Operating Temperature	-40°C to +60°C -40°F to +140°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 / IK10	IP67 / IK10
Back Box	BRACK-BB-48	BRACK-BB-120	N/A
Wall Mount	BRACK-WM-48	Included	BRACK-WML
Pendant Mount	BRACK-PM-06	N/A	BRACKET-MPIX-21MP-PEND
Pole Mount	N/A	BRPOLE150	N/A
Adapter Plate	N/A	N/A	BRACK-PLATE1
Mount Adapter	N/A	N/A	BRACK-CMA-PTZ



# Fast Pack Kits (IP Megapixel Cameras & NVR with PoE)

 <p><b>4 Channel NVR Fast Pack Kit</b></p>	<p>4 Channel + 4 Cameras</p>	<p>4 Channel IP Kit 5.0 Megapixel IP Cameras 4 CH ENMR3 NVR w/ 1TB HDD 4 Port PoE Built-In</p>	<p>ENMR3-04KIT4-50IRTAI (MPIX-50IRTAI) 2.8mm Lens AI Functions: · Fenced Area Protection · AI Motion Detection · Line Crossing (Person &amp; Vehicle Classification)</p>
 <p><b>8 Channel NVR Fast Pack Kit</b></p>	<p>8 Channel + 6 Cameras</p>	<p>8 Channel IP Kit 5.0 Megapixel IP Cameras 8 CH ENMR3 NVR w/ 1TB HDD 8 Port PoE Built-In</p>	<p>ENMR3-08KIT6-50IRTAI (MPIX-50IRTAI) 2.8mm Lens AI Functions: · Fenced Area Protection · AI Motion Detection · Line Crossing (Person &amp; Vehicle Classification)</p>
 <p><b>16 Channel NVR Fast Pack Kit</b></p>	<p>16 Channel + 8 Cameras</p>	<p>16 Channel IP Kit 5.0 Megapixel IP Cameras 16 CH ENMR3 NVR w/ 2TB HDD 16 Port PoE Built-In</p>	<p>ENMR3-16KIT8-50IRTAI (MPIX-50IRTAI) 2.8mm Lens AI Functions: · Fenced Area Protection · AI Motion Detection · Line Crossing (Person &amp; Vehicle Classification)</p>

# Commercial Grade Network Video Recorders

Model	ENMR3-04POE	ENMR3-08POE	ENMR3-16POE	EN-32AI
Product Image				
Chassis Type	1U Desktop mountable	1U Desktop mountable	1U Desktop mountable	1U Desktop mountable
Operating System	Linux	Linux	Linux	Linux
IP Camera Inputs	4	8	16	32
Monitor Outputs	1x HDMI(4K), 1x VGA	1x HDMI(4K), 1x VGA	1x HDMI(4K), 1x VGA	1x HDMI(4K), 1x VGA
Max. Recording Resolution	8MP(4K)	8MP(4K)	8MP(4K)	16MP
Hard Drive Bays Supported	1	1	2	4
Max. SATA Drive Supported	10TB	10TB	10TB	16TB
Built-in PoE Network Ports	4	8	16	N/A
LAN Ports (10/100/1000Mbps)	1	1	1	2
RAID Support	No	No	No	No
Two-way Talk	N/A	N/A	N/A	N/A
Audio Inputs	1	1	1	1
Audio Output	1	1	1	1
Alarm Inputs & Relay Outputs	N/A	N/A	4 / 2	16/4

# Industrial Grade Network Video Recorders

Model	EN-64AIR2	EN-128AI	ENX-128HD	ENX-256HDR2
<b>Product Image</b>				
<b>Chassis Type</b>	2U Rack mountable	2U Rack mountable	3U Rack mountable	4U Rack mountable
<b>Operating System</b>	Linux	Linux	Linux	Linux
<b>IP Camera Inputs</b>	64	128	128	256
<b>Monitor Outputs</b>	4x HDMI 4K, 2x VGA	4x HDMI 4K, 2x VGA	2x HDMI 4K, 1x VGA	3x HDMI, 1x VGA
<b>Max. Recording Resolution</b>	32MP	32MP	12MP(4K)	12MP
<b>Hard Drive Bays Supported</b>	8 - Hot swap	8 - Hot swap	16 (Expandable) Hot swap	24 (Expandable) Hot swap
<b>Max. SATA Drive Supported</b>	16TB	16TB	8TB	10TB
<b>Built-in PoE Network Ports</b>	No	No	No	No
<b>LAN Ports (10/100/1000Mbps)</b>	2	2	4	4
<b>RAID Support</b>	0/1/5/6/10	0/1/5/6/10	0/1/5/10	0/1/5/6/10
<b>Two-way Talk</b>	No	No	Yes	Yes
<b>Audio Inputs</b>	1	1	1	1
<b>Audio Output</b>	2	2	1	1
<b>Alarm Inputs &amp; Relay Outputs</b>	16 / 8	16 / 8	16 / 8	16 / 8

## Enterprise class VMS Media Gateway



**VMS-2000D**

**VMS-PRO**  
Enterprise Class VMS Solution

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

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

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

## Integrated Security System with Distributed Architecture



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

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

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

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







### NetFlow-EC Applications:

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

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





Model	HAWK 16	HAWK 32	HAWK 32-10B	HAWK 64	HAWK Pro 128	HAWK Pro 256
<b>Product Image</b>						
<b>CPU</b>	i5 Performance CPU	i7 Performance CPU	i7 Performance CPU	i9 Performance CPU	PCIe 5.0 x16 CPU-to-GPU Interconnect	PCIe 5.0 x16 CPU-to-GPU Interconnect
<b>Mother Board</b>	13th Generation CPU	13th Generation CPU	13th Generation CPU	13th Generation CPU	Dual Socket E (LGA-4677), 4th Gen Intel® Xeon® Silver Scalable processors	Dual Socket E (LGA-4677), 4th Gen Intel® Xeon® Gold Scalable processors
<b>RAM</b>	32GB RAM	32GB RAM	64GB RAM	64GB RAM		
<b>OS Drive</b>	1 TB OS drive	1 TB OS drive	1 TB OS drive	1 TB OS drive		
<b>Case</b>	4U Rackmount Case with 5 HDD slot	4U Rackmount Case with 5 HDD slot	4U Rackmount / Dual Door case 26'	4U Rackmount / Dual Door case 26'	2U Rackmount	2U Rackmount
<b>RAID</b>	-	-	10 Port SATA RAID Controller (RAID 0, 1, 5, 6, 10, 50 and 60)	10 Port SATA RAID Controller (RAID 0, 1, 5, 6, 10, 50 and 60)	SATA3 (6Gbps); RAID 0/1/5/10 support	SATA3 (6Gbps); RAID 0/1/5/10 support
<b>Graphic Card</b>	-	-	12GB GPU Card with high-speed GDDR6 memory (192-bit & 15 Gbps)	12GB GPU Card with high-speed GDDR6 memory (192-bit & 15 Gbps)	NVIDIA PCIe: A100, H100, L40, L40S	NVIDIA PCIe: A100, H100, L40, L40S
<b>Storage</b>	4 HDD slot (no hotswap)	4 HDD slot (no hotswap)	10 HDD bays (2x5bay units) hot swap slot	10 HDD bays (2x5bay units) hot swap slot	16 DIMMs up to 4TB 3DS ECC DDR5-4800: RDIMM	16 DIMMs up to 4TB 3DS ECC DDR5-4800: RDIMM
<b>Windows</b>	Windows 10 IoT	Windows 10 IoT	Windows 10 IoT	Windows 10 IoT	Windows 10 IoT	Windows 10 IoT
<b>Software</b>	Preloaded with NetFLOW	Preloaded with NetFLOW	Preloaded with NetFLOW	Preloaded with NetFLOW	Preloaded with NetFLOW	Preloaded with NetFLOW
<b>Dimensions</b>	Width 19.00" ( 482.6 mm ) Height 7.00" ( 177.8 mm ) Depth 20.47" ( 519.9 mm )	Width 19.00" ( 482.6 mm ) Height 7.00" ( 177.8 mm ) Depth 20.80" ( 528.3 mm )	Width 19.00" ( 482.6 mm ) Height 7.00" ( 177.8 mm ) Depth 20.80" ( 528.3 mm )	Width 19.00" ( 482.6 mm ) Height 7.00" ( 177.8 mm ) Depth 20.80" ( 528.3 mm )	Width 17.02" ( 437 mm ) Height 3.5" ( 89 mm ) Depth 25.5" ( 648 mm )	Width 17.02" ( 437 mm ) Height 3.5" ( 89 mm ) Depth 25.5" ( 648 mm )



# NDAA Compliant AI Cameras (Blue Series)

Model	BLS-50BIR28	BLS-50IRBFT28	BLS-50IRBFT28-B	BLS-50VDF-IR28	BLS-50VDV-IRM	BLS-12MP360
Product Image						
Lens Focal Length	2.8mm	2.8mm	2.8mm	2.8mm	2.7-13.5mm - motorized	1.8mm
Min. Scene Illumination (color/BW)	0.05 Lux/0 Lux	0.05Lux/0lux	0.05Lux/0lux	0.05 Lux/0 Lux	0.05 Lux/0 Lux	Color: 0.01 Lux @ (F2.4, AGC ON) B/W: 0 Lux @ (IR LED ON)
Built-in Infrared Illuminator	30m / 98.4ft	30m / 98.4ft	30m / 98.4ft	30m / 98.4ft	30m / 98.4ft	Yes
MIC	NO	Built-in 1 CH microphone	Built-in 1 CH microphone	NO	NO	Yes
Wide Dynamic Range	Yes	Yes	Yes	Yes	Yes	Yes
Max. Resolution	5MP	5MP	5MP	5MP	5MP	4000(H)x3000(V)
Micro SD Memory Card Slot	256GB max	256GB max	256GB max	256GB max	256GB max	Built-in, up to 1TB
External Power Supported	DC 12V/POE / <8.5W	DC 12V/POE / <6W	DC 12V/POE / <6W	DC 12V/POE / <5.5W	DC 12V/POE / <8.5W	DC12V (-15%~+20%)/POE (IEEE 802.3af)
Weather/Vandal Rating	IP67	IP66	IP66	IP67/IK10	IP67/IK10	No / Yes
Operating Temperature	-40°C to +55°C -40°F to +131°F	-40°C to +55°C -40°F to +131°F	-40°C to +55°C -40°F to +131°F	-40°C to +55°C -40°F to +131°F	-40°C to +55°C -40°F to +131°F	-30° C ~ 60° C (-22° F ~ 140° F)
Certifications	CE/FCC	CE/FCC	CE/FCC	CE/FCC	CE/FCC	CE/FCC
Back Box	BLS-BB-BUL1	BLS-BB-46	BLS-BB-46	BLS-BB-56	BLS-BB-57	BLS-BB-360
Wall Mount	N/A	BLS-WM-03	BLS-WM-03	BLS-WM-02	BLS-WM-01	BLS-WM-360
Pendant Mount	N/A	N/A	N/A	N/A	N/A	N/A
Casing	Metal	Metal	Metal	Metal	Metal	Metal

## Intelligent Detection:

- Fenced area
- Single & Double virtual fences
- Loitering
- People counting

## Smart Function:



- Supports face, human, vehicle detection and capture

## Note:


WatchNET NDAA Cameras work only with Blue Series Network Video Recorders



# NDAA Compliant AI Cameras (Blue Series)

Model	BLS-20IRPTZAI25X	BLS-50IRPTZAI30X
Product Image		
Lens Focal Length	5~125mm	5.3~159mm
Min. Scene Illumination (color/BW)	0.05 Lux B/W: 0.001 Lux, 0 Lux (IR LED ON)	0.07 Lux / 0 Lux (IR LED ON)
Built-in Infrared Illuminator	150m / 492.1ft	150m / 492.1ft
MIC	Audio: 1ch Input, 1ch Output	Audio: 1ch Input, 1ch Output
Wide Dynamic Range	Yes	Yes
Max. Resolution	2MP	5MP
Micro SD Memory Card Slot	256GB max	256GB max
External Power Supported	AC24V/POE+ / <24W	AC24V/POE+ / <24W
Weather/Vandal Rating	IP66	IP66
Operating Temperature	-40°C to +55°C -40°F to +131°F	-40°C to +55°C -40°F to +131°F
Certifications	CE/FCC	CE/FCC
Back Box	N/A	N/A
Wall Mount	Included	Included
Pendant Mount	N/A	N/A
Casing	Metal	Metal

**BLS-08KIT6-50IRBFT**




1 x BLS-NVR8POE-2T  
8 Channel NVR with 2 TB Hard Drive

6 x BLS-50IRBFT28  
5 Megapixel Camera

2.8mm Lens  
AI Functions:  
· Fenced Area Protection  
· AI Motion Detection  
· Line Crossing  
(Person & Vehicle Classification)

**BLS-16KIT8-50IRBFT**



1 x BLS-NVR8POE-2T  
16 Channel NVR with 2 TB Hard Drive

8 x BLS-50IRBFT28  
5 Megapixel Camera

2.8mm Lens  
AI Functions:  
· Fenced Area Protection  
· AI Motion Detection  
· Line Crossing  
(Person & Vehicle Classification)

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



# NDAA Compliant 4K AI Network Video Recorders (Blue Series)

Model	BLS-NVR8POE	BLS-NVR16POE	BLS-N32AI8	BLS-N64AI8
Product Image				
IP Camera Inputs	Up to 8CH	Up to 16CH	Up to 32CH	Up to 64CH
Recording Resolution	Up to 8MP	Up to 8MP	Up to 8MP	Up to 12MP
Built-in PoE Ports	8	16	N/A	N/A
Max. SATA Drive Supported	2 SATA hard disk up to 12TB each	2 SATA hard disk up to 12TB each	8 SATA hard disk up to 12TB each	8 SATA hard disk up to 12TB each
Audio Input	1	1	1	1
Audio Output	1	1	1	1
Alarm Input	8CH	8CH	16CH	16CH
Alarm Output	1CH	2CH	2CH	6CH
I/O Bandwidth	56 Mbps / 56 Mbps	112 Mbps / 112 Mbps	320 Mbps / 320 Mbps	384 Mbps / 384 Mbps
Multi-screen Display	1/4/8/9	1/4/8/9/16	1st Screen: 1/4/8/9/16/32 2nd Screen: 1/4/8/9/16	1st Screen: 1/4/8/9/16/32/36 2nd Screen: 1/4/8/9/16
Sync Playback	9/4/1	16/9/4/1	16/9/4/1	16/9/4/1
Network Interface	1 RJ-45 port (10/100/1000 Mbps)	1 RJ-45 port (10/100/1000 Mbps)	2 RJ-45 port (10/100/1000 Mbps)	2 RJ-45 port (10/100/1000 Mbps)
Recording Resolution	8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.
USB	3 ports (USB 2.0 x3)	3 ports (USB 2.0 x3)	2 x USB 2.0, 2 x USB 3.0	2 x USB 2.0, 2 x USB 3.0
Power Supply	AC100 ~ 240V	AC100 ~ 240V	AC100 ~ 240V	AC100 ~ 240V
Power Consumption	< 15 W (without HDD)	< 15 W (without HDD)	< 15 W (without HDD)	< 15 W (without HDD)
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)
Certifications	CE/FCC	CE/FCC	CE/FCC	CE/FCC

**Intelligent analysis by NVR:** Intrusion (support the accurate detection of vehicle and human)

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

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

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

## General

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

## Client

- Hardware decoding support for live view and playback

## Network

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

## Live View

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

## PTZ Control

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



## Alarm Management

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

## Recording

- Local manual recording support

## Playback

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

## 2 Megapixel XVI Cameras

## 2 Megapixel XVI PTZ Cameras

Model	XVI-21PIRR2	XVI-21SPHR2	XVI-21VDV-IRMSD
<b>Product Image</b>			
<b>Lens Focal Length</b>	2.8mm	2.8mm	2.7-12mm
<b>Min. Scene Illumination</b>	0.02lux/0lux	0.004lux/0lux	0.005Lux/F1.4, 30IRE, 0Lux IR on
<b>Built-in Infrared Illuminator</b>	No	No	No
<b>Wide Dynamic Range (120dB)</b>	Yes	Yes	Yes
<b>Max. Resolution (HD Analog)</b>	2.1MP	2.1MP	2.1MP
<b>Audio Input/Output</b>	No / No	No / No	Yes / Yes
<b>Alarm Input/Output</b>	No / No	No / No	Yes / Yes
<b>Power Requirement</b>	DC12V, 0.8W	DC12V, 2.11W	AC 24V±25% / DC 12V±25%
<b>Operating Temperature</b>	-10°C to +50°C -14°F to +122°F	-30°C to +60°C -22°F to +140°F	-30°C ~ +60°C -22°F ~ +140°F
<b>Weather/Vandal Rating</b>	No / No	No / No	Yes / Yes
<b>Back Box</b>	N/A	N/A	BRACK-BB-63
<b>Wall Mount</b>	Included	Included	BRACK-WM-63
<b>Pendant Mount</b>	N/A	N/A	N/A




Model	XVI-21IRPTZR3	XVI-21MP4X	XVI-21MP15X
<b>Product Image</b>			
<b>Lens Focal Length</b>	4.8-120mm	2.7-11mm motorized	5-75mm
<b>Min. Scene Illumination</b>	0.05lux/0.005lux	0.05lux/0.005lux	0.005lux/0.0005
<b>Optical Zoom Ratio</b>	25X	4X	15X
<b>Digital Zoom</b>	16X	16X	16X
<b>Day/Night Mode</b>	Yes	Yes	Yes
<b>Built-in Infrared Illuminator</b>	150m/492ft	No	No
<b>Backlight Compensation</b>	Yes	Yes	Yes
<b>Wide Dynamic Range (120dB)</b>	Yes	Yes	Yes
<b>Max. Resolution (HD Analog)</b>	2.1MP	2.1MP	2.1MP
<b>Audio Input/Output</b>	Yes / 1	No / No	Yes / 1
<b>Alarm Input/Output</b>	2 / 1	No / No	2 / 1
<b>Micro SD Memory Card Slot</b>	No	No	No
<b>Power Requirement</b>	DC 24V/2.5A	DC12V, 10W	DC 12V/5A, 9.6W
<b>Operating Temperature</b>	-40°C to +70°C -40°F to +158°F	-30°C to +60°C -22°F to +140°F	-40°C to +60°C -40°F to +140°F
<b>Weather/Vandal Rating</b>	IP66 / No	IP66 / IK10	IP66 / IK10
<b>Back Box</b>	BRACK-BB-PTZ	BRACK-BB-48	BRACK-BB-PTZ
<b>Wall Mount</b>	Included	BRACK-WM-48	Included
<b>Pendant Mount</b>	BRACK-MPIX-21MP-PEND	BRACK-PM-06	BRACK-MPIX-21MP-PEND



# 5 Megapixel XVI Cameras

Model	XVI-50BIMRDL	XVI-50IRBTR3	XVI-50IRBTR2-B	XVI-50NPCBFT
<b>Product Image</b>				
<b>Lens Focal Length</b>	2.8mm	2.8mm	2.8mm	2.8mm
<b>Min. Scene Illumination</b>	0.005lux/0lux	0.01Lux/0Lux	0.01Lux/0Lux	0.001lux
<b>Built-in Infrared Illuminator</b>	60m / 196ft, Smart IR	60m / 196.9ft	60m / 196.9ft	40m / 131.2ft, LED
<b>Wide Dynamic Range (120dB)</b>	Yes	Yes	Yes	Yes
<b>Max. Resolution (HD Analog)</b>	5MP	5MP	5MP	5MP
<b>Audio Input/Output</b>	No / No	1 / No	1 / No	1 / No
<b>Alarm Input/Output</b>	No / No	No / No	No / No	No / No
<b>Power Requirement</b>	DC12V/AC24V, DC 12V Max. 11.5W	12V DC, 5.2W	12V DC, 5.2W	12V DC $\pm$ 30% Max 6.4 W
<b>Operating Temperature</b>	-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
<b>Weather/Vandal Rating</b>	IP67 / No	IP67 / No	IP67 / No	IP67 / No
<b>Back Box</b>	BRACK-BB-37	BRACK-BB-43	BRACK-BB-43-B	BRACK-BB-43
<b>Wall Mount</b>	Included	BRACK-WM-49	BRACK-WM-49-B	BRACK-WM-49
<b>Pendant Mount</b>	N/A	N/A	N/A	BRACK-PM-06




# 5 Megapixel XVI Cameras

Model	XVI-50VDF-IR28	XVI-50VDV-IRV	XVI-50VDV-IRVDL
<b>Product Image</b>			
<b>Lens Focal Length</b>	2.8mm	2.7-12mm - motorized	2.7-12mm - motorized
<b>Min. Scene Illumination</b>	0.005Lux/0Lux	0.0051lux/0lux	0.0051lux/0lux
<b>Built-in Infrared Illuminator</b>	30m / 98ft, Smart IR	30m / 98ft, Smart IR	30m / 98ft, Smart IR
<b>Wide Dynamic Range (120dB)</b>	Yes	Yes	Yes
<b>Max. Resolution (HD Analog)</b>	5MP	5MP	5MP
<b>Audio Input/Output</b>	No / No	No / No	No / No
<b>Alarm Input/Output</b>	No / No	No / No	No / No
<b>Power Requirement</b>	DC 12V ±30% 3.5W	DC 12V ±30%, 5.5W	DC 12V ±10%, 6.9W
<b>Operating Temperature</b>	-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
<b>Weather/Vandal Rating</b>	IP67 / IK10	IP67 / IK10	IP67 / IK10
<b>Back Box</b>	BRACK-BB-44	BRACK-BB-48	BRACK-BB-48
<b>Wall Mount</b>	BRACK-WM-48	BRACK-WM-48	BRACK-WM-48
<b>Pendant Mount</b>	BRACK-PM-06	BRACK-PM-06	BRACK-PM-06

# 8 Megapixel XVI 4K Cameras

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




# XVI Fast Pack Kits (Enhanced CVI Cameras & Recorder)


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



Model	XVI-TOOL
<b>Features</b>	
<b>Formats</b>	HDCVI/AHD/HDTVI/CVBS
<b>Power Consumption</b>	0.3W
<b>Power Supply AAA</b>	AAA battery*2 (not included)
<b>Indicator Lights</b>	Prompt current format
<b>Applicable Resolution</b>	2MP and below
<b>Physical Properties</b>	
<b>Dimension (LxWxH)</b>	Body: 90mm x 41mm x 21mm (3.54" x 1.61" x 0.83") Length: 560mm (22.05")
<b>Outer Shell</b>	PC & ABS
<b>Color</b>	White
<b>Net Weight</b>	48g (0.11lb)
<b>Environmental</b>	
<b>Formats</b>	HDCVI/AHD/HDTVI/CVBS
<b>Humidity</b>	0.3W
<b>Certification</b>	
<b>Certification</b>	CE

# Pentabrid 4K AI Video Recorders

Pentabrid 8MP AI series			
Model	PNT-0480AILR2	PNT-0880AILR2	PNT-1680AILR2
<b>Product Image</b>			
<b>Chassis Type</b>	Mini 1U Pentabrid	Mini 1U Pentabrid	Mini 1U Pentabrid
<b>SD/HD Analog Camera Inputs (XVI)</b>	4	8	16
<b>IP Camera Inputs</b>	4+4=8	8+8=16	16+16=32
<b>Monitor Outputs</b>	1x HDMI, 1x VGA	1x HDMI, 1x VGA	1x HDMI, 1x VGA
<b>Max. Recording Resolution</b>	Max 8 channels IP camera inputs, each channel up to 8MP	Max 16 channels IP camera inputs, each channel up to 8MP	Max 32 channels IP camera inputs, each channel up to 8MP
<b>Max. Bandwidth</b>	Max. 64 Mbps incoming bandwidth	Max.128 Mbps incoming bandwidth	Max.128 Mbps incoming bandwidth
<b>Hard Drive Bays Supported</b>	1	1	1
<b>Max. SATA Drive Supported</b>	1 SATA Port, up to 16TB for a single HDD	1 SATA Port, up to 16TB for a single HDD	1 SATA Port, up to 16TB for a single HDD
<b>Built-in PoE Network Ports</b>	No	No	No
<b>LAN Ports (10/100/1000Mbps)</b>	Yes	Yes	Yes
<b>RAID Support</b>	No	No	No
<b>Audio Inputs (RCA)</b>	1	1	1
<b>Audio Output (RCA)</b>	1	1	1
<b>Alarm Inputs &amp; Relay Outputs</b>	No	No	No

Pentabrid 32 Channel AI Series	
Model	PNT-32EXAIR2
<b>Product Image</b>	
<b>Chassis Type</b>	2U Pentabrid
<b>IP Camera Inputs</b>	32 channels, each channel up to 12MP
<b>SD/HD Analog Inputs (XVI)</b>	8MP(CVI/XVI) / 5MP TVI/AHD / 12MP(IP)
<b>Monitor Outputs</b>	2x HDMI, 1x VGA, 1x TV
<b>Max. Recording Resolution</b>	8MP(4K) using CVI/XVI / 5MP using TVI/AHD / 12MP(IP)
<b>Hard Drive Bays Supported</b>	8
<b>Max. SATA Drive Supported</b>	10TB
<b>Built-in PoE Network Ports</b>	No
<b>LAN Ports (10/100/1000Mbps)</b>	Yes(Dual)
<b>RAID Support</b>	No
<b>Audio Inputs (RCA)</b>	16
<b>Audio Output (RCA)</b>	1
<b>Microphone Input (BNC)</b>	1
<b>Alarm Inputs &amp; Relay Outputs</b>	16x6



# Industrial Grade Surveillance Switches



**POESW04**  
**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



**POESW08**  
**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



**POESW16**  
**16+2 Port Unmanaged PoE/PoE+ Switch**

- 16\* 10/100Base-TX PoE RJ-45 ports
- 2\* 10/100/1000Base-T RJ-45 ports
- 1\* 1000 Base-X combo SFP port
- 1\* PoE management port
- Special 250m/820ft CCTV Mode
- Power up to 16 devices that comply with IEEE 802.3af/at standards
- Each PoE port supports a maximum power of 30W
- Circuit protection to prevent the power from interfering with the port
- Support 3 Working Modes through DIP switch
- 6KV Lightning Protection
- PoE Max. Power Output - 270W



**POESW16M**  
**16+2 Port Managed PoE/PoE+ Switch**

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



**POESW24R2**  
**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.



**POESW24U**  
**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



**POESW24F**  
**24 Ports Fanless Gigabit Switch L3-Managed**

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



**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



## Two wire network extension over Coax or UTP



**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
- Working temperature: 00C ~ 550C / 320F ~ 1310F
- Installation: Plug-and-play, no setting required

## 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
- Working temperature: 00C ~ 550C / 320F ~ 1310F
- Installation: Plug-and-play, no setting required

## Industrial Gigabit PoE+ Splitter

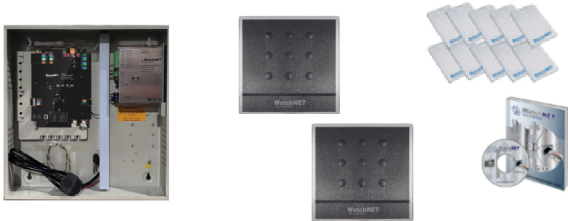


**POEDCSPLIT**

### Features

- 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  $\geq 90\%$
- Standard: accord with IEEE802.3af/at, IEEE802.3 10Base-T/100Base-TX/IEEE802.3ab 1000Base-T
- High-power PoE flat-pin RJ45 ports



<p><b>WAC-2D2TOS-ENC-KIT</b> 2-Door, 2 Proximity Readers</p>		<ul style="list-style-type: none"> <li>• 32 bit ST ARM® CortexTM-M4 processor</li> <li>• 2 proximity Readers</li> <li>• Free Software &amp; license for 2 camera integration and up to 8 doors &amp; 3000 users</li> <li>• 10 Proximity Cards</li> <li>• Built-in backup batter charger and cable included</li> </ul> <p><b>*PoE Injector and PSU NOT included</b></p>
<p><b>WAC-4D4TOS-ENC-KIT</b> 4-Door, 4 Proximity Readers</p>		<ul style="list-style-type: none"> <li>• 32 bit ST ARM® CortexTM-M4 processor</li> <li>• 4 proximity Readers</li> <li>• Free Software &amp; license for 2 camera integration and up to 8 doors &amp; 3000 users</li> <li>• 10 Proximity Cards</li> <li>• Built-in backup batter charger and cable included</li> </ul> <p><b>*PoE Injector and PSU NOT included</b></p>
<p><b>WAC-8D8TOS-ENC-KIT</b> 8-Door, 8 Proximity Readers</p>		<ul style="list-style-type: none"> <li>• 32 bit ST ARM® CortexTM-M4 processor</li> <li>• 8 proximity Readers</li> <li>• Free Software &amp; license for 2 camera integration and up to 8 doors &amp; 3000 users</li> <li>• 10 Proximity Cards</li> <li>• Built-in backup batter charger and cable included</li> </ul> <p><b>*PoE Injector and PSU NOT included</b></p>
<p><b>WAC-2D2TOS-485-KIT</b> 2-Door, 2 Multi-Format Reader</p>		<ul style="list-style-type: none"> <li>• 32 bit ST ARM® CortexTM-M4 processor</li> <li>• 2 RS485 Proximity Readers</li> <li>• Free Software &amp; license for 2 camera integration and up to 8 doors &amp; 3000 users</li> <li>• 10 Proximity Cards</li> <li>• Built-in backup batter charger and cable included</li> </ul> <p><b>*PoE Injector and PSU NOT included</b></p>



**WAC-2D2TOS-ENC**

**2-Door, 2 Readers**

- 32 bit ST ARM® Cortex™-M4 processor
- 10/100M based TCP/IP communication
- Power over Ethernet (POE+, 30W)
- Backup battery charger, battery Monitor
- Compatible with Wiegand and OSDP reader
- Compatible with all Wiegand reader formats from 24 to 72 Bits
- 24 sets of flow control setting
- Supports Lock down feature
- Supports master + slave cards
- Supports Multi groups cards
- Supports user PIN identify
- Supports Anti-PassBack
- Multiple door status working modes
- Long memory storage up to 20 years during power off
- CE, FCC, RoHS Certificated



**WAC-4D4TOS-ENC**

**4-Door, 4 Readers**

- 32 bit ST ARM® Cortex™-M4 processor
- 10/100M based TCP/IP communication
- Power over Ethernet (POE+, 30W)
- Backup battery charger, battery Monitor
- Compatible with Wiegand and OSDP reader
- Compatible with all Wiegand reader formats from 24 to 72 Bits
- 24 sets of flow control setting
- Supports Lock down feature
- Supports master + slave cards
- Supports Multi groups cards
- Supports double confirmed by center
- Supports user PIN identify
- Supports Anti-PassBack
- Multiple door status working modes
- Long memory storage up to 20 years during power off
- CE, FCC, RoHS Certificated



**WAC-8D8TOS-ENC**

**8-Door, 8 Readers**

- 32 bit ST ARM® Cortex™-M4 processor
- 10/100M based TCP/IP communication
- Power over Ethernet (POE+, 30W)
- Backup battery charger, battery Monitor
- Compatible with Wiegand and OSDP reader
- Compatible with all Wiegand reader formats from 24 to 72 Bits
- 24 sets of flow control setting
- Supports Lock down feature
- Supports master + slave cards
- Supports Multi groups cards
- Supports double confirmed by center
- Supports user PIN identify
- Supports Anti-PassBack
- Multiple door status working modes
- Long memory storage up to 20 years during power off
- CE, FCC, RoHS Certificated

## Proximity Readers



**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-EHA-485**

**Multi-Format Technology RS485 Proximity Reader**








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



**WAR-EHHS-VKR**

**Vandal Proof Reader with Keypad**

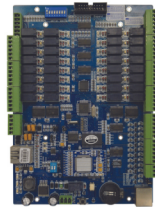
- Modulation: ASK at 125 KHZ
- Compatible Cards: HID, AWID, SIT, EM
- Operating Voltage: 7-15VDC
- Operating Current: ≤100mA
- Standby Current: ≤50mA
- Tamper Output: Optical Technology.
- Open collector, active low 32mA max sink current.
- Working Temperature: -30°C to 65°C (-22°F to 150°F)
- Operating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

Long Range Readers		
 <p><b>WAR-UHF-LR</b> Long Range UHF Reader</p>	<ul style="list-style-type: none"> <li>• RF output power up to 30dbm (adjustable)</li> <li>• Standard ISM 865-868MHz, 902~928MHz</li> <li>• Compliant with CE, FCC/ Multi-Tag Reading</li> <li>• Support RS232, RS485, Wiegand interface</li> <li>• Operation Temp.: -35°C~+50°C/-31°F~+122°C</li> <li>• Storage Temp.: -10°C~+40°C/14°F~+104°F</li> <li>• Input Power: 100-240V, DC+9V (Power Adapter-included)</li> <li>• Support auto-running, interactive and trigger-activating work mode</li> <li>• ISO18000-6B, ISO18000-6C (EPC G1G2)</li> <li>• 12dBi antenna optional with effect distance up to 12m/39.4ft*</li> <li>• 3.5W Power dissipation</li> <li>• Dimension: 445x445x55mm/17.52"x17.52"x2.16"</li> <li>* Communication interface depends on individual situation or clients requirements</li> </ul>	 <p><b>WAC-UHF-ISO</b> UHF Access Card</p>  <p><b>WAC-UHF-HLD</b> Windshield Card Holder</p>  <p><b>WAC-UHF-TAG</b> UHF Sticker for vehicles/articles</p>
 <p><b>WAR-HAM-LRW</b> <b>WAR-HAM-SRW</b> Long Range Wireless Receiver</p>	<ul style="list-style-type: none"> <li>• Frequency: 433 MHz</li> <li>• Installation: Indoor &amp; Outdoor (IP65)</li> <li>• Cabling: 24 AWG min, multi-conductor stranded with an overall foil shield</li> <li>• Interface: Wiegand (26 bit standard and custom formats)</li> <li>• Voltage: 12 VDC</li> <li>• Transmission: Rolling code + encryption</li> <li>• Operating Temp.: -40°C to +65°C / -40°F to 149°F</li> </ul> <p><b>Model WAR-HAM-LRW</b></p> <ul style="list-style-type: none"> <li>• Weight: 12 oz. (340g)</li> <li>• Current Draw: 120 mA typical @ 12VDC</li> <li>• Read Range: Up to 200 feet (61 m), Installer adjustable</li> </ul> <p><b>Model WAR-HAM-SRW</b></p> <ul style="list-style-type: none"> <li>• Weight: 8 oz. (227g)</li> <li>• Current Draw: 80 mA typical @ 12VDC</li> <li>• Read Range: Up to 100 feet (30.5 m), Non-adjustable</li> </ul>	
 <p><b>WAR-EM1-LRR</b> Long Range Card Reader</p>	<ul style="list-style-type: none"> <li>• Range - 20cm / 7.87"</li> <li>• Output - 26/34 bit</li> <li>• Indicators - Blue/Green</li> <li>• Size - 260mm x 260mm x 35mm / 10.24" x 10.24" x 1.38"</li> <li>• Frequency - 125 KHz</li> <li>• Voltage - 7- 12V DC</li> <li>• Operating Current - &lt;100mA</li> <li>• Standby Current - &lt;50mA</li> <li>• Working Temperature: -35°C to 65°C / -22°F to 149°F</li> <li>• Operating Humidity - 0 to 95%</li> <li>• LED Control Input - Dry Contact, N/O</li> <li>• Buzzer Control Input - Dry Contact, N/O</li> <li>• Weight - 1200g (2.64 lb)</li> </ul>	 <p><b>WAC-HIT-WT2</b> <b>WAC-HIT-WT4</b> 433 MHz Long Range Identification Transmitters with built-in proximity access HID (HIT) or AWID (AIT) Format</p>

### Elevator Access Controller



**WAE-016-ENC**



**WAE-016-PCB**

- 32 bit ARM processor
- 2 Watchdogs
- 30,000 Cardholders
- 200,000 Transactions
- Communication Mode: TCP/IP, RS-485(Optional)
- 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"

### 16 Input 8 Output I/O Controller






**WAI-X1608-ENC**



**WAI-X1608-PCB**

- 32 bit ARM processor
- 2 Watchdogs
- 30,000 Cardholders
- 200,000 Transactions
- Communication Mode: TCP/IP, RS-485(Optional)
- 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"



 <p><b>WAR-BLU-HIT</b> Mobile-ready Bluetooth Proximity Reader</p>	<ul style="list-style-type: none"> <li>Technology: Proximity and Bluetooth Low Energy (BLE)</li> <li>Frequency: 125 kHz (proximity) and 2.4 GHz (BLE)</li> <li>Mounting: A single reader for metal door and window frames, single-gang wall boxes, and flat surfaces</li> <li>Dimensions:             <ul style="list-style-type: none"> <li>Mullion: 1.7" W × 4.7" H × 1.2" D (43mm × 119mm × 30mm)</li> <li>Switch Plate: 3" W × 5.1" H × 1.2" D (76mm × 130mm × 30mm)</li> </ul> </li> <li>OEM Label Area: Backlit; Dimensions: 0.9" W × 0.35" H (22.86mm × 8.89mm) with corner radius of 0.06" (1.5mm)</li> <li>Certifications: FCC, ICC, CE</li> <li>IP Code IP67</li> <li>Voltage: +8 – 14 VDC</li> </ul>	<ul style="list-style-type: none"> <li>Current Draw 60 mA typical @ 12 VDC, 90 mA peak</li> <li>Read Range: Physical Credentials: Up to 4 inches (102mm) Mobile Credentials: Up to 12 inches (306mm)</li> <li>Cabling: 24 AWG minimum, multiconductor stranded with an overall foil shield</li> <li>Interface: Wiegand (26-bit)</li> <li>Operating Temperature: -31°F to 150°F (-35°C to +66°C)</li> <li>Audio Tone: Beeper included standard</li> <li>Indoor &amp; Outdoor Installation: Electronics sealed in weather and tamper-resistant epoxy potting</li> <li>LED: Five-state standard (blue, red, green, amber, and off)</li> </ul>
 <p><b>WAR-BLU-HITKEYM</b> <b>WAR-BLU-HITKEY</b> Mobile-ready Proximity Reader &amp; Keypad</p>	<ul style="list-style-type: none"> <li>Technology: Proximity and Bluetooth Low Energy (BLE)</li> <li>Frequency: 125 kHz (proximity) and 2.4 GHz (BLE)</li> <li>Mounting:             <ul style="list-style-type: none"> <li>WAR-BLU-HITKEYM: Mullions, including metal door and window frames, as well as flat surfaces</li> <li>WAR-BLU-HITKEY: Single-gang wall box, as well as flat surfaces</li> </ul> </li> <li>Dimensions:             <ul style="list-style-type: none"> <li>WAR-BLU-HITKEYM: 1.78" W × 6.1" H × 0.91" D (45mm×155mm×23mm)</li> <li>WAR-BLU-HITKEY: 3" W × 4.6" H × 0.75" D (76mm×117mm×19mm)</li> </ul> </li> <li>OEM Label Area: Backlit; Dimensions: 0.9" W × 0.35" H (22.86mm × 8.89mm) with corner radius of 0.06" (1.5mm)</li> <li>Certifications: FCC, ICC, CE</li> <li>IP Code IP67</li> <li>Voltage: +8 – 14 VDC</li> </ul>	<ul style="list-style-type: none"> <li>Current Draw 60 mA typical @ 12 VDC, 90 mA peak</li> <li>Read Range: Physical Credentials: Up to 4 inches (102mm) Mobile Credentials: Up to 15 feet (4.6m)</li> <li>Cabling: 24 AWG minimum, multiconductor stranded with an overall foil shield</li> <li>Interface: Wiegand (26-bit)</li> <li>Operating Temperature: -31°F to 150°F (-35°C to +66°C)</li> <li>Audio Tone: Beeper included standard</li> <li>Indoor &amp; Outdoor Installation: Electronics sealed in weather and tamper-resistant epoxy potting</li> <li>LED: Five-state standard (blue, red, green, amber, and off)</li> </ul>
 <p><b>WAC-BLUCRED</b> Mobile Access Credential</p>	<ul style="list-style-type: none"> <li>Technology: Bluetooth Low Energy (BLE)</li> <li>Frequency: 2.4 GHz</li> <li>Type: Smartphone mobile access credential, downloadable via WatchNET Access Wallet</li> </ul> <p>App</p> <ul style="list-style-type: none"> <li>Operation: iPhone or Android-based smartphones</li> <li>Formats Wiegand (26-bit)</li> <li>Marking: Date code and ID</li> </ul>	



**WAB-M2-FCS**

**Networked Fingerprint Door Controller/Reader with Keypad**

- World's Best Fingerprint Recognition Technology - Cutting-edge algorithm ranked to pin Fingerprint field
- Live Biometric Sensor - Live Tech Detector
- Ultra Performance - 1:5000 matches in 1 second
- Twice Recognition - Recognition in Terminal only, Server first Recognition
- Dual Frequencies Card - 125KHz Proximity card, HID, AWID, WatchNET; 13.56MHz CPU & Mifare card, Mifare / DesFire, Mifare Sector
- Metal Case - Anti vandal, High Security
- On-Line and Off-Line seamless operation On-Line: Connected to the server  
Off-Line: Stand-Alone, not connected to the server
- No fingerprint picture stored. Proprietary template algorithm.
- Reader Mode: Door operated by door controller in a secured area.
- Reader On-Line Mode: No data stored on device.
- Simple Mode: Doors controlled by WAB-M2-FCS will operate uninterrupted, with or without a network.



**WAB-MP-FCS**

**Networked Fingerprint Door Controller / Reader**

- World's Best Fingerprint Recognition Technology - Cutting-edge algorithm ranked top in Fingerprint field
- Live Biometric Sensor - Live tech Detector, nobody can use fake Fingerprint
- Ultra Performance - 1:5000 matches in 1.5 second
- Triple Recognition - Recognition in Terminal only, Server first Recognition
- Unlimited Template Capacity - 5,000 pcs in terminal memory
- Unlimited using WatchNET Access Software Online
- Power over Ethernet - Power supply through a single CAT5/6 wiring
- Multi-Proximity Cards - HID Prox, AWID Prox, EM Prox, WatchNET Prox
- Exit Reader - Proximity Reader as Out Reader, Connected to Wiegand\_In
- On-Line and Off-Line seamless operation - On-Line: connected to server,  
Off-Line: Stand-Alone, not connected to server
- No fingerprint picture stored. Proprietary template algorithm
- Reader Mode: Door operated by door controller in secured area
- Reader On-Line Mode: no data stored on device
- Simple Mode: Door controlled by WAB-MP-FCS, operation uninterrupted with or without network









**WAB-SC-USB**

**Biometric Fingerprint Enroller Reader**

- USB interface, easy to use
- Compatible with WAB-M2-FCS and WAB-MP-FCS series
- Dustproof, waterproof features, 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
- Standby Current: ≤50mA
- Multithreaded code designed to take advantage of multi-core CPU
- Semi-conductor fingerprint sensor, anti-fake
- The world's leading fingerprint algorithm, refusing false fingerprints
- Production under ISO: 9001 standard system, high quality



 <p><b>WAC-EMC-SID</b> <b>High Security Proximity Card</b></p>	 <p><b>WAC-SID-CSH</b> <b>High Security Proximity Card</b></p>	 <p><b>WAC-HIC-ISO</b> <b>Printable Cards</b></p>	 <p><b>WAC-EMC-CSH</b> <b>Clamshell Card</b></p>		
<ul style="list-style-type: none"> <li>• Card Type - Proximity Card</li> <li>• Sensing Distance - Up to 15cm/5.90"</li> <li>• Input Format - WG55, Customized Format</li> <li>• Color - White</li> <li>• Thickness - 0.76mm/0.30"</li> <li>• Operating Frequency - 125KHz</li> <li>• Size - 85.6mm × 54mm × 0.76mm / 3.37" × 2.13" × 0.20"</li> <li>• Security Level - High</li> </ul>	<ul style="list-style-type: none"> <li>• Card Type - Proximity Card</li> <li>• Sensing Distance - Up to 15cm/5.90"</li> <li>• Input Format - WG55, Customized Format</li> <li>• Color - White</li> <li>• Thickness - 2mm/0.079"</li> <li>• Operating Frequency - 125KHz</li> <li>• Size - 85.6mm × 54mm × 0.76mm / 3.37" × 2.13" × 0.20"</li> <li>• Security Level - High</li> </ul>	<ul style="list-style-type: none"> <li>• Case Material: PVC Blank White</li> <li>• Operation Temperature: -15°C ~ +55°C / 5°F ~ +131°F</li> <li>• Storage Temperature: -20°C ~ +60°C / -40°F +140°F</li> <li>• Chip Type Functionality: HID Card</li> <li>• Operation Frequency: 125K Hz</li> <li>• Protocol: ISO 7816</li> <li>• Read Distance: Up to Max. 80 mm / 3.15"</li> <li>• Data Retention: Up to 10 year</li> </ul>	<ul style="list-style-type: none"> <li>• Case Material: Shell / Cover: PVC</li> <li>• Operation Temperature: -15°C ~ +55°C / 50°F ~ +131°F</li> <li>• Storage Temperature: -20°C ~ +60°C . -40°F 0 +140°F</li> <li>• Chip Type Functionality: EM Card</li> <li>• Operation Frequency: 125K Hz</li> <li>• Protocol: ISO 7816</li> <li>• Read Distance: Up to Max. 80mm / 3.15"</li> <li>• Data Retention: Up to 10 year (&lt;550C/&lt;1310F)</li> </ul>		
 <p><b>WAC-EMT-SIT</b> <b>High Security Proximity Tag</b></p>	<ul style="list-style-type: none"> <li>• Tag Type: Proximity Tag</li> <li>• Sensing Distance: Up to 10cm/3.9</li> <li>• Data Format: WG55, Customized Format</li> <li>• Thickness: 0.76mm/0.30"</li> <li>• Operation Frequency: 125K Hz</li> <li>• Security Level: High</li> <li>• Size: 44mm × 31mm × 5mm / 1.73" × 1.22" × 0.20"</li> </ul>	 <p><b>WAC-HIT-BLK</b> <b>Proximity Tag</b></p>	<ul style="list-style-type: none"> <li>• Case Material: Poly carbonate</li> <li>• Sensing Distance: Up to 10cm/3.94"</li> <li>• Color: Blue</li> <li>• Thickness: 4mm/0.16"</li> <li>• Operating Frequency: 125KHz</li> <li>• Size: 40mm × 32mm × 4mm / 1.57" × 1.26" × 0.16"</li> </ul>	 <p><b>WAC-HIT-WT2</b> <b>WAC-HIT-WT4</b></p>	<ul style="list-style-type: none"> <li>• 433 MHz</li> <li>• Long Range Identification Transmitters with built-in proximity access</li> <li>• HID (HIT) or AWID (AIT) Format</li> </ul>

 <p><b>WAA-USB-485</b> USB to RS485 Protocol Converter</p>	<p>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.</p> <p>Note: Suitable for testing only &amp; should not be used to replace an onboard RS-232 Serial Card.</p> <ul style="list-style-type: none"> <li>· USB Com Port</li> <li>· Plug in after installing the driver</li> <li>· Temperature: -300C ~ 700C / -220F ~ 1580F</li> <li>· Humidity: 5% ~ 95%</li> <li>· Easy and User friendly installation</li> <li>· Stable performance</li> </ul>	 <p><b>WAC-1D2T-MICRO</b> <b>WAC-1D2TH-MICRO</b> Single Door Network Controller</p>	<ul style="list-style-type: none"> <li>· 32 bit processor with 4M bit data memory</li> <li>· Blue backlight, Touch Pad</li> <li>· Cards holder capacity: 30,000 events</li> <li>· Transactions storage: up to 15,000</li> <li>· Work Mode: Card / PIN, Card + PIN, PIN only</li> <li>· OLED dual color display to indicate Clock, Company, Name, Card No</li> <li>· Communication: TCP/IP</li> <li>· Compatible with all Wiegand reader format from 24 to 72 Bits</li> <li>· Events Flow Control</li> <li>· Supports 500 Visitors</li> <li>· Including UDP Protocol</li> <li>· CE, FCC, RoHS approval</li> <li>· WAC-1D2T-MICRO: Built-in EM/HID Proximity reader</li> <li>· WAC-1D2TH-MICRO: Built-in HID Proximity Reader</li> </ul>
 <p><b>WAA-WTM-485</b> Wireless Transmitter / Receiver</p>	<ul style="list-style-type: none"> <li>· Wireless point to point / Multipoint transmitter / receiver</li> <li>· Up to 1000M range under normal conditions</li> <li>· Selectable 4 channels for distortion free communication</li> <li>· Interfaces for RS485/232</li> <li>· Active driver with optical isolation</li> <li>· 3 LED status indicators</li> <li>· External interface for easy connection</li> <li>· Easy configuration through RS232 port (No drivers needed)</li> <li>· Baud rate: +/-115,200Bps, Buffer space: 5KB</li> <li>· Built-in Microprocessor controlled circuit for high stability</li> <li>· Shielded metal enclosure</li> <li>· Suitable for indoor / outdoor parking / access control</li> <li>· Auto enrolling transmitter / receiver no set-up required</li> </ul>	 <p><b>ACC-134-Server</b> <b>ACC-154-Server</b> <b>ACC-174-Server</b> Desktop Server (Preloaded software)</p>	<ul style="list-style-type: none"> <li>· Windows 7 Professional 64bit Operating System</li> <li>· Intel® Core™ i3 / i5 / i7 Processor (Model specific)</li> <li>· 4 Gigabyte 1600Mhz Memory</li> <li>· 1TB SATA HDD</li> <li>· HD Integrated Graphics</li> <li>· VGA Port, DVD RW Drive, Ethernet Port, USB Ports</li> <li>· Compact ATX Case</li> <li>· Logitech USB Keyboard &amp; Mouse</li> </ul>
 <p><b>WAA-POW-04UL</b> 4CH Power Supply</p>	<ul style="list-style-type: none"> <li>· 4 Channel Power supply with ULC</li> <li>· Input: 100 - 240V AC @50-60Hz</li> <li>· Output voltage: 12VDC, +/- 15%</li> <li>· Output current: 5Amp</li> <li>· Over current protection: 6A+/- 5%</li> <li>· Output channel: 4 channel</li> <li>· Charge voltage: 13.5V</li> <li>· Charge current (max): 1Amp</li> <li>· Ripple &amp; Noise: &lt;= 100%</li> <li>· Indoor use only</li> </ul>	 <p><b>WAR-MPX-DTRS</b> Desktop Reader for Access Control System</p>	<ul style="list-style-type: none"> <li>· Read Range: ≤8 cm / ≤3.15"</li> <li>· Frequency: 125kHz</li> <li>· Communication Protocol: USB, Human Interface Device</li> <li>· Operating Voltage: USB Power, 5VDC</li> <li>· Reading Speed: &lt;0.2s</li> <li>· Working temperature: -30°C ~ +65°C -22°F ~ +149°F</li> <li>· Dimensions: 140(L)x100(W)x30mm(H) 5.51(L)x3.94(W)x1.18"(H)</li> <li>· Weight: 138g / 0.30lb</li> </ul>

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

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

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

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



### Software Features:

- Easy icon based navigation
- Choice of colors & sounds for every event
- Auto detection of controllers on the network
- Auto or manual backup of the database
- Exporting events
- Quick Search / Add / Delete
- Interactive dynamic maps
- NVR / IP camera video integration
- Event Email notification
- Pop-up screens on specific events
- Unlimited users and user profiles
- SQL database standard
- Graphic Design – 4 layers of site maps. Maps can be any
- Picture type, JPEG, BMP File. Easy to use, just “Drag & Drop Doors Operation from ANY client (Based on permission)”
- Remote access support
- Email alerts
- Flow control-logical scenario response configuration using any of over 120 systems events is well as input or output statuses
- Time and Attendance built-in
- Visitor management
- Event response configuration
- Alarms and alerts functionality allow the use of auxiliary inputs and outputs to be configured as alarm points and alerts
- Supports most alarm sensors in the market
- Muster / Evacuation support
- Lockdown and active shooter scenario supported
- iOS and Android apps (WatchNET Access) available for remote controls of doors
- Software in multiple languages

