

Access Control

Cameras

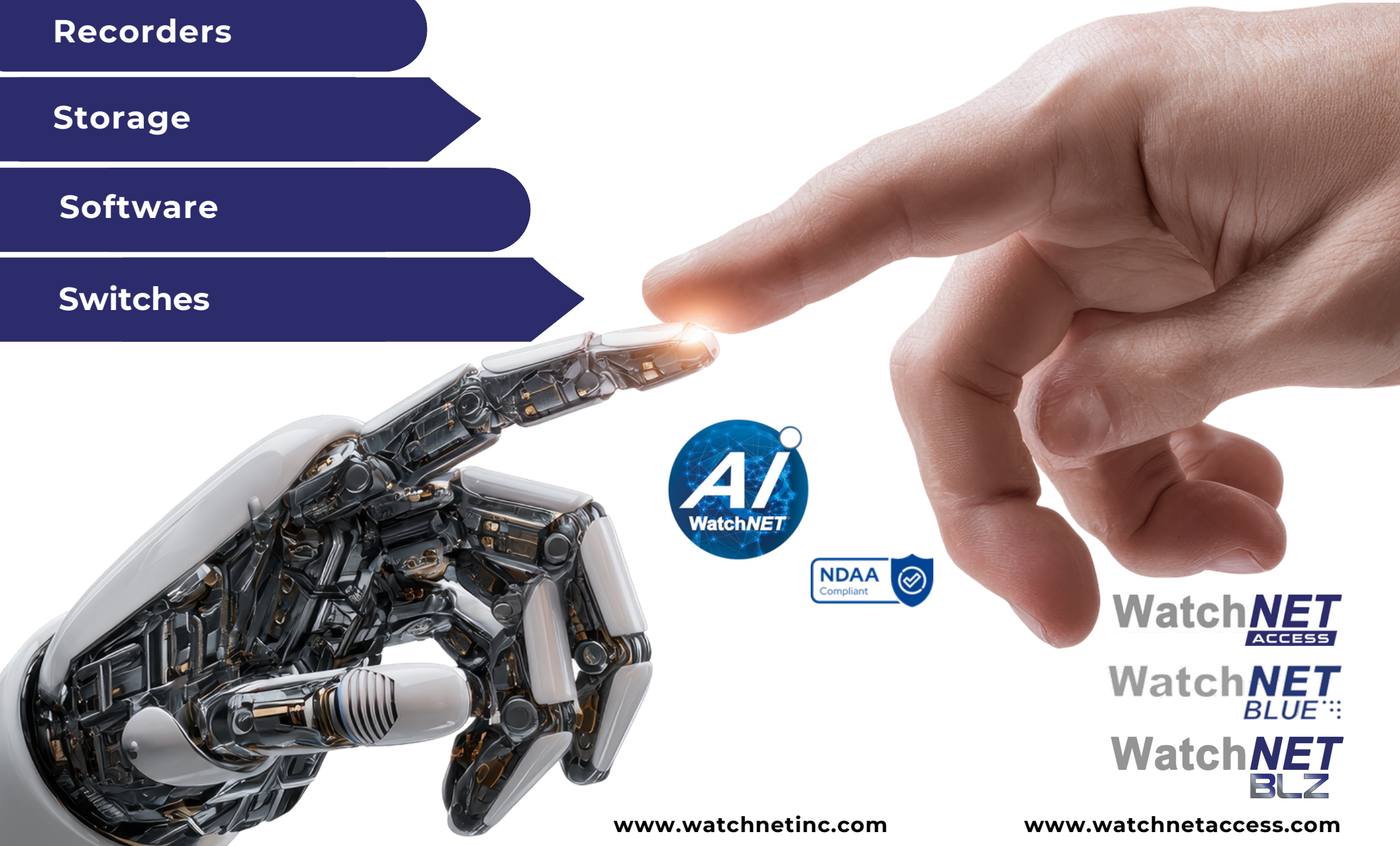
Recorders

Storage

Software

Switches

25 Watch**NET**[®]
Years
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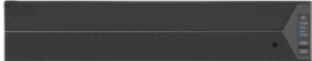


NDAA Compliant AI Cameras (BLZ Series)

Model	BLZ-50T3M	BLZ-50T3MB	BLZ-5PTZ20X	BLZ-4D180
Product Image				
Lens Focal Length	2.8mm	2.8mm	4.8-98mm	3.6mm
Min. Scene Illumination (color/BW)	0.006Lux/0lux	0.006Lux/0lux	0.001Lux/0.0005lux	0.0007Lux/0lux
Built-in Infrared Illuminator	IR Warm light 40m / 13ft	IR Warm light 40m / 13ft	100m / 3248ft	IR, Warm light 40m
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	5MP	5MP	5MP	4MP X 2
Mic/Speaker	Built-in Mic / 1	Built-in Mic / 1	Built-in Mic / 1	1 / 1
Alarm Input/Output	N/A	N/A	N/A	1 / 1
Micro SD Memory Card Slot	256GB max	256GB max	256GB max	256GB max
External Power Supported	12V DC/PoE, <5.5W	12V DC/PoE, <5.5W	12V DC/PoE+	12V DC/PoE, <14W
Operating Temperature	-35°C to +60°C	-35°C to +60°C	-40°C to -60°C	-30°C to +60°C
Weather/Vandal Rating	IP67	IP67	IP66	IP67
Back Box	BLZ-BB-48	BLZ-BB-48B	N/A	BLZ-BB-140
Wall Mount	BLZ-WM-48	BLZ-WM-48B	Included	BLZ-WM-140
Pendant Mount	N/A	N/A	N/A	N/A

NDAA Compliant 8MP AI Cameras (BLZ Series)

Model	BLZ-8TF50	BLZ-8B3F	BLZ-8B3V50	BLZ-8D3F50	BLZ-8D3V
Product Image					
Lens Focal Length	2.8mm	2.8mm	2.7-13.5mm	2.8mm	2.7-13.5mm
Min. Scene Illumination (color/BW)	0.0008Lux/0lux	0.007Lux/0lux	0.007Lux/0lux	0.0008Lux/0lux	0.007Lux/0lux
Built-in Infrared Illuminator	Warm light 50m / 164ft	IR, Warm light 40m / 131ft	IR, Warm light 50m	IR, Warm light 50m	IR, Warm light 40m
Wide Dynamic Range	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
Max. Resolution	8MP	8MP	8MP	8MP	8MP
Mic/Speaker	Built-in Mic / 1	Built-in Mic / 0	1 / 1	1 / 1	Built-in Mic / 0
Alarm Input/Output	N/A	N/A	N/A	1 / 1	N/A
Micro SD Memory Card Slot	256GB max	256GB max	256GB max	256GB max	256GB max
External Power Supported	12V DC/PoE, <5.2W	12V DC/PoE, <4.2W	12V DC/PoE, <6.2W	12V DC/PoE, <5.2W	12V DC/PoE, <6.2W
Operating Temperature	-30°C to +60°C	-30°C to +60°C	-30°C to +60°C	-30°C to +60°C	-30°C to +60°C
Weather/Vandal Rating	IP67	IP67	IP67	IP67 / IK10	IP67 / IK10
Back Box	BLZ-BB-48	BLZ-BB-59	BLZ-BB-BUL	BLZ-BB-48	BLZ-BB-48
Wall Mount	BLZ-WM-48	Included	Included	BLZ-WM-48	BLZ-WM-48
Pendant Mount	N/A	N/A	N/A	N/A	N/A

Model	BLZ-EN4POE	BLZ-EN8POE	BLZ-EN16POE	BLZ-EN32AI
Product Image				
Chassis Type	1U Desktop mountable	1U Desktop mountable	1U Desktop mountable	2U 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	2x HDMI(4K), 1x VGA
Max. Recording Resolution	8MP(4K)	8MP(4K)	8MP(4K)	8MP(4K)
Hard Drive Bays Supported	1	1	2	8
Max. SATA Drive Supported	14TB	14TB	14TB	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	YES	YES	YES	YES
Audio Inputs	1	1	1	1
Audio Output	1	1	1	1
Alarm Inputs & Relay Outputs	N/A	N/A	N/A	16/8

 4 Channel NVR Fast Pack Kit  	 8 Channel NVR Fast Pack Kit  	 16 Channel NVR Fast Pack Kit  
4 Channel + 4 Cameras	8 Channel + 6 Cameras	16 Channel + 8 Cameras
4 Channel IP Kit 5.0 Megapixel IP Cameras 4 CH BLZ-EN4 NVR 4 Port PoE Built-In	8 Channel IP Kit 5.0 Megapixel IP Cameras 8 CH BLZ-EN8 NVR 8 Port PoE Built-In	16 Channel IP Kit 5.0 Megapixel IP Cameras 16CH BLZ-EN16 NVR 16 Port PoE Built-In
BLZ-04KIT4-50T3M (BLZ-50T3M) 2.8mm Lens AI Functions: · Fenced Area Protection · AI Motion Detection · Line Crossing (Person & Vehicle Classification)	BLZ-08KIT6-50T3M (BLZ-50T3M) 2.8mm Lens AI Functions: · Fenced Area Protection · AI Motion Detection · Line Crossing (Person & Vehicle Classification)	BLZ-16KIT8-50T3M (BLZ-50T3M) 2.8mm Lens AI Functions: · Fenced Area Protection · AI Motion Detection · Line Crossing (Person & Vehicle Classification)

4 AI IP Megapixel Cameras

Model	MPIX-40LPR	MPIX-40VDF-IR282CAI	MPIX-40VDF-NPC36AI	MPIX-40SPHAI
Product Image				
Lens Focal Length	8 mm–32 mm	2.8mm	3.6mm	2.8mm
Min. Scene Illumination (color/BW)	.001Lux/0.0002Lux	0.005Lux/0lux	0.0002Lux	0.005 Lux/0.0005 Lux
Built-in Infrared Illuminator	20m/65.6ft	30m / 98.4ft	N/A	N/A
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	4MP	4MP	4MP	4MP
Mic/Speaker	1 / 1	1 / 1	1 / 1	1 / 1
Alarm Input/Output	2 / 2	2 / 2	1 / 1	2 / 2
Micro SD Memory Card Slot	256GB max	256GB max	256GB max	256GB max
External Power Supported	12 VDC, 2 A and POE:802.3at,Type 2,Class 4, (44V to 57V), 0.455A to 0.351A,max.20W	DC 12V, PoE<8W	12V DC/PoE, <4.4W	Basic: 2.4W (12V DC); 3W (PoE) Max. (Intelligence + WDR): 3.9W (12V DC); 4.8W (PoE)
Operating Temperature	-30°C to +65°C -22°F to +149°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
Weather/Vandal Rating	IP67 / IK10	IP67 / IK10	IP67 / IK10	No / No
Back Box	Included	BRACK-BB-48	BRACK-BB-48	N/A
Wall Mount	Included	BRACK-WM-48	BRACK-WM-48	N/A
Pendant Mount	N/A	BRACK-PM-06	BRACK-PM-06	N/A

5 AI IP Megapixel Cameras

Model	MPIX-50BIMRAI	MPIX-50DFAI	MPIX-50DVAI
Product Image			
Lens Focal Length	2.7-13.5mm - motorized	2.8mm	2.7mm-13.5mm Motorized
Min. Scene Illumination (color/BW)	0.005Lux/0lux	0.005 Lux/0lux	0.007 lux/0lux
Built-in Infrared Illuminator	50m / 164ft	30m / 98.4ft	40m / 131ft
Wide Dynamic Range	Yes	Yes	Yes
Video Compression	H.265 / H.264	H.265 / H.264	H.265 / H.264
Max. Resolution	5MP	5MP	5MP
Mic/Speaker	1/1	1/1	1/0
Alarm Input/Output	2 / 1	1/1	N/A
Micro SD Memory Card Slot	256GB max	256GB max	256 GB
External Power Supported	DC 12V (±30%), PoE <10.9W	12V DC/PoE, <7.2W	12 VDC/PoE (802.3af)<7.3 W
Operating Temperature	-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	IP67 / IK10	IP67 / IK10
Back Box	BRACK-BB-53	BRACK-BB-44	BRACK-BB-48
Wall Mount	Included	BRACK-WM-48	BRACK-WM-48
Pendant Mount	N/A	BRACK-PM-06	BRACK-PM-06

5 AI IP Megapixel Cameras

Fast Pack Kits

Model	MPIX-50T3MAI	MPIX-50T3MAI-B
Product Image		
Lens Focal Length	2.8mm	2.8mm
Min. Scene Illumination (color/BW)	0.007 lux	0.007 lux
Built-in Infrared Illuminator	30 m (98.4 ft) IR/Warm	30 m (98.4 ft) IR/Warm
Wide Dynamic Range	Yes	Yes
Video Compression	H.265 / H.264	H.265 / H.264
Max. Resolution	5MP	5MP
Mic/Speaker	1/0	1/0
Alarm Input/Output	N/A	N/A
Micro SD Memory Card Slot	256 GB	256 GB
External Power Supported	12 VDC/PoE (802.3af)<5.4W	12 VDC/PoE (802.3af) <5.4W
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	IP67
Back Box	BRACK-BB-43	BRACK-BB-43B
Wall Mount	BRACK-WM-49	BRACK-WM-49B
Pendant Mount	BRACK-PM-06	BRACK-PM-06

		
4 Channel NVR Fast Pack Kit	8 Channel NVR Fast Pack Kit	16 Channel NVR Fast Pack Kit
4 Channel + 4 Cameras	8 Channel + 6 Cameras	16 Channel + 8 Cameras
4 Channel IP Kit 5.0 Megapixel IP Cameras 4 CH ENI NVR 4 Port PoE Built-In	8 Channel IP Kit 5.0 Megapixel IP Cameras 8 CH ENI NVR 8 Port PoE Built-In	16 Channel IP Kit 5.0 Megapixel IP Cameras 16 CH ENI NVR 16 Port PoE Built-In
ENM-04KIT4-50T3M (MPIX-50T3MAI) 2.8mm Lens AI Functions: · Fenced Area Protection · AI Motion Detection · Line Crossing (Person & Vehicle Classification)	ENM-08KIT6-50T3M (MPIX-50T3MAI) 2.8mm Lens AI Functions: · Fenced Area Protection · AI Motion Detection · Line Crossing (Person & Vehicle Classification)	ENM-16KIT8-50T3M (MPIX-50T3MAI) 2.8mm Lens AI Functions: · Fenced Area Protection · AI Motion Detection · Line Crossing (Person & Vehicle Classification)

5 AI IP Megapixel Cameras

Model	MPIX-50VDF-IR28AI2W	MPIX-50VDV-IRMAI	MPIX-50VDV-IRMLRAI
Product Image			
Lens Focal Length	2.8mm	2.7-13.5mm - motorized	7-35mm - motorized
Min. Scene Illumination (color/BW)	0.005Lux/0lux	0.005Lux/0lux	0.003Lux/0lux
Built-in Infrared Illuminator	30m / 98ft	40m / 131ft	80m / 262ft
Wide Dynamic Range	Yes	Yes	Yes
Video Compression	H.265 / H.264	H.265 / H.264	H.265 / H.264
Max. Resolution	5MP	5MP	5MP
Mic/Speaker	Built-in Mic / 1	1 / 1	1 / 1
Alarm Input/Output	1 / 1	1 / 1	1 / 1
Micro SD Memory Card Slot	256GB max	256GB max	256GB max
External Power Supported	12V DC/PoE, <8.6W	DC 12V/AC 24V<12.4W	DC 12V (±30%), <12.4W
Operating Temperature	-40°C to +60°C -40°F to +140°F	-30°C ~ +60°C -22°F ~ +140°F	-30°C to +60°C -22°F to +140°F
Weather/Vandal Rating	IP67 / IK10	IP67 / IK10	IP67 / IK10
Back Box	BRACK-BB-48	BRACK-BB-63	BRACK-BB-63
Wall Mount	BRACK-WM-48	BRACK-WM-63	BRACK-WM-63
Pendant Mount	N/A	N/A	N/A

8 AI IP Megapixel Cameras

Model	MPIX-80IRBFTAI	MPIX-80VDF-IR28AI	MPIX-80VDF-IR28AI
Product Image			
Lens Focal Length	2.8mm	2.8mm	2.8mm
Min. Scene Illumination (color/BW)	0.004Lux/0lux	0.009 lux	0.004lux/0lux
Built-in Infrared Illuminator	50m / 164ft	30m / 98.43ft	50m / 164ft
Wide Dynamic Range	Yes	Yes	Yes
Video Compression	H.265 / H.264	H.265 / H.264	H.265 / H.264
Max. Resolution	8MP	8MP	8MP
Mic/Speaker	1 / 1	1 / No	1 / 1
Alarm Input/Output	1 / 1	No / No	1 / 1
Micro SD Memory Card Slot	256GB max	256GB max	256GB max
External Power Supported	12 VDC (±30%)/PoE<7.8W	12 VDC/PoE (802.3af)<6.4W	12 VDC (±30%)/PoE<6.9W
Operating Temperature	-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
Weather/Vandal Rating	IP67 / No	IP67/IK10	IP67 / IK10
Back Box	BRACK-BB-43	BRACK-BB-44	BRACK-BB-48
Wall Mount	BRACK-WM-49	BRACK-WM-48	BRACK-WM-48
Pendant Mount	BRACK-PM-06	BRACK-PM-06	BRACK-PM-06

8 AI IP Megapixel Cameras

Model	MPIX-80VDV-IRMAIFR	MPIX-80VMAI
Product Image		
Lens Focal Length	2.7mm-12.0mm - motorized	2.7mm-12.0mm - motorized
Min. Scene Illumination (color/BW)	0.003Lux/0Lux	0.0008 lux
Built-in Infrared Illuminator	40m / 131.23ft	40m / 131.23ft
Wide Dynamic Range	Yes	Yes
Video Compression	H.265 / H.264	H.265 / H.264
Max. Resolution	8MP	8MP
Mic/Speaker	1 / 1	1 / 1
Alarm Input/Output	3 / 2	2 / 1
Micro SD Memory Card Slot	256GB max	512GB max
External Power Supported	12 VDC/24 VAC/PoE+ (802.3at)<22..82W	12 VDC/24 VAC/PoE+ (802.3at)<12.2W
Operating Temperature	-40°C to +65°C -40°F to +149°F	-30°C to +60°C -22°F to +140°F
Weather/Vandal Rating	IP67 / IK10	IP67 / IK10
Back Box	BRACK-BB-63	BRACK-BB-63
Wall Mount	BRACK-WM-63	BRACK-WM-63
Pendant Mount	N/A	N/A

8 IP Megapixel PTZ

Multi-view IP Megapixel

Model	MPIX-80IRPTZAIR2
Product Image	
Lens Focal Length	5.6-223mm
Min. Scene Illumination (color/BW)	0.005lux/0lux
Optical Zoom Ratio	40X
Digital Zoom	16X
Day/Night Mode	Yes
Built-in Infrared Illuminator	500m / 1640ft
Auto-tracking	Yes, Enhanced with AI
Wide Dynamic Range	Yes
Video Compression	H.265 / H.264
Max. Resolution (HD Analog)	8MP
Mic/Speaker	1 / 1
Alarm Input/Output	7 / 2
Micro SD Memory Card Slot	512GB max
Power Requirement	DC36V/2.23A, Hi-PoE
Operating Temperature	-40°C to +70°C -40°F to +158°F
Weather/Vandal Rating	IP67 / No
Back Box	BRACK-BB-PTZ
Wall Mount	Included
Pendant Mount	N/A

Model	MPIX-20MP360IRAI
Product Image	
Lens Focal Length	2.8 mm-12 mm - motorized
Min. Scene Illumination (color/BW)	0.005lux/0lux
Built-in Infrared Illuminator	8x LED, 30m/98.43ft
Wide Dynamic Range	Yes
Video Compression	H.265 / H.264
Max. Resolution	4x 5MP
Mic/Speaker	1 / 1
Alarm Input/Output	3 / 2
Micro SD Memory Card Slot	256GB max
External Power Supported	12 VDC/PoE+ (802.3at)
Operating Temperature	-30°C to +60°C -22°F to +140°F
Weather/Vandal Rating	IP67 / IK10
Back Box	N/A
Wall Mount	BRACK-WML
Pendant Mount	BRACKET-MPIX-21MP-PEND
Pole Mount	N/A
Adapter Plate	BRACK-PLATE1
Mount Adapter	BRACK-CMA-PTZ

Commercial & Industrial Grade NVRs

Model	ENI-04POE	ENI-08POE	ENI-16POE	EN-32AI	EN-64AIR2	EN-128AI
Product Image						
Chassis Type	1U Desktop mountable	1U Desktop mountable	1U Desktop mountable	1.5U Rack mountable	2U Rack mountable	2U Rack mountable
Operating System	Linux	Linux	Linux	Linux	Linux	Linux
IP Camera Inputs	4	8	16	32	64	128
Monitor Outputs	1x HDMI(4K), 1x VGA	1x HDMI(4K), 1x VGA	1x HDMI(4K), 1x VGA	1x HDMI(4K), 1x VGA	4x HDMI, 2x VGA	4x HDMI, 2x VGA
Max. Recording Resolution	12MP	12MP	12MP	16MP	32MP	32MP
Hard Drive Bays Supported	1	1	2	4	8 - Hot swap	8 - Hot swap
Max. SATA Drive Supported	20TB	20TB	20TB	16TB	16TB	16TB
Built-in PoE Network Ports	4	8	16	N/A	No	No
LAN Ports (10/100/1000Mbps)	1	1	1	2	2	2
RAID Support	No	No	No	No	0/1/5/6/10	0/1/5/6/10
Two-way Talk	N/A	N/A	N/A	N/A	No	No
Audio Inputs	1	1	1	1	1	1
Audio Output	1	1	1	1	2	2
Alarm Inputs & Relay Outputs	N/A	N/A	4 / 2	16/4	16 / 8	16 / 8

Model	HAWK 16	HAWK 32	HAWK 64
Product Image			
CPU	CORE ULTRA 5	CORE ULTRA 7	CORE ULTRA 9
Mother Board	LGA 1851	LGA 1851	LGA 1851
RAM	16GB RAM	32GB RAM	64GB RAM
OS Drive	1 TB OS drive	1 TB OS drive	1 TB OS drive
Case	4U Rackmount Case	4U Rackmount Case	4U Rackmount Case
RAID	OPTIONAL	OPTIONAL	OPTIONAL
Graphic Card	OPTIONAL RTX 5060 RTX 2000 ADA	OPTIONAL RTX 5060 RTX 2000 ADA	OPTIONAL RTX 5060 RTX 2000 ADA
Storage	OPTIONAL 3, 5, 8, 10 BAYS	OPTIONAL 3, 5, 8, 10 BAYS	OPTIONAL 3, 5, 8, 10 BAYS
Windows	WINDOWS 11 PRO	WINDOWS 11 PRO	WINDOWS 11 PRO
Software	Preloaded with NetFLOW	Preloaded with NetFLOW	Preloaded with NetFLOW
Dimensions	Width 16.93" (430 mm) Height 6.93" (176 mm) Depth 18.32" (465.2 mm)	Width 16.93" (430 mm) Height 6.93" (176 mm) Depth 18.32" (465.2 mm)	Width 16.93" (430 mm) Height 6.93" (176 mm) Depth 18.32" (465.2 mm)

NDAA Compliant AI Cameras (Blue Series)

Model	BLS-50BIR28	BLS-50IRBFT28	BLS-50IRBFT28-B	BLS-50VDF-IR28	BLS-50VDV-IRM	BLS-12MP360	BLS-50IRPTZAI30X
Product Image							
Lens Focal Length	2.8mm	2.8mm	2.8mm	2.8mm	2.7-13.5mm - motorized	1.8mm	5.3~159mm
Min. Scene Illumination (color/BW)	0.05 Lux/0 Lux	0.05Lux/0lux	0.03Lux/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)	0.07 Lux / 0 Lux (IR LED ON)
Built-in Infrared Illuminator	30m / 98.4ft	30m / 98.4ft	30m / 98.4ft	30m / 98.4ft	40m / 131ft	Yes	150m / 492.1ft
MIC	NO	Built-in 1 CH microphone	Built-in 1 CH microphone	NO	NO	Yes	Audio: 1ch / 1ch
Wide Dynamic Range	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max. Resolution	5MP	5MP	5MP	5MP	5MP	4000 (H) x 3000 (V)	5MP
Micro SD Memory Card Slot	256GB max	256GB max	256GB max	256GB max	256GB max	Built-in, up to 1TB	256GB max
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	DC 12V/POE / <9W	AC24V/POE+ / <24W
Weather/Vandal Rating	IP67	IP66	IP66	IP67/IK10	IP67/IK10	IP66	IP66
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)	-40°C to +55°C -40°F to +131°F
Certifications	CE/FCC	CE/FCC	CE/FCC	CE/FCC	CE/FCC	CE/FCC	CE/FCC
Back Box	BLS-BB-BUL1	BLS-BB-46	BLS-BB-46B	BLS-BB-56	BLS-BB-57	BLS-BB-45	N/A
Wall Mount	N/A	BLS-WM-03	BLS-WM-03B	BLS-WM-02	BLS-WM-01	BLS-WM-360	Included
Pendant Mount	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Casing	Metal	Metal	Metal	Metal	Metal	Metal	Metal

Intelligent Detection:

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

Smart Function:

- Supports face, human, vehicle detection and capture

Note:

WatchNET NDAA Cameras work only with Blue Series Network Video Recorders



Model	BLS-NVR8POE	BLS-NVR16POE	BLS-N32AI8	BLS-N64AI8	BLS-08KIT6-50IRBFT
Product Image					
IP Camera Inputs	Up to 8CH	Up to 16CH	Up to 32CH	Up to 64CH	1 x BLS-NVR8POE 8 Channel NVR
Recording Resolution	Up to 8MP	Up to 8MP	Up to 12MP	Up to 12MP	6 x BLS-50IRBFT28 5 Megapixel Camera
Built-in PoE Ports	8	16	N/A	N/A	2.8mm Lens AI Functions: · Fenced Area Protection · AI Motion Detection · Line Crossing (Person & Vehicle Classification)
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	6CH	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 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.	1 x BLS-NVR8POE 16 Channel NVR
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	8 x BLS-50IRBFT28 5 Megapixel Camera
Power Supply	AC100 ~ 240V	AC100 ~ 240V	AC100 ~ 240V	AC100 ~ 240V	2.8mm Lens AI Functions: · Fenced Area Protection · AI Motion Detection · Line Crossing (Person & Vehicle Classification)
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	

Model	BLS-16KIT8-50IRBFT
Product Image	
IP Camera Inputs	16CH
Recording Resolution	Up to 12MP
Built-in PoE Ports	16
Max. SATA Drive Supported	8 SATA hard disk up to 12TB each
Audio Input	1
Audio Output	1
Alarm Input	16CH
Alarm Output	6CH
I/O Bandwidth	384 Mbps / 384 Mbps
Multi-screen Display	1st Screen: 1/4/8/9/16/32 2nd Screen: 1/4/8/9/16
Sync Playback	16/9/4/1
Network Interface	2 RJ-45 port (10/100/1000 Mbps)
Recording Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.
USB	2 x USB 2.0, 2 x USB 3.0
Power Supply	AC100 ~ 240V
Power Consumption	< 15 W (without HDD)
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Certifications	CE/FCC

Industrial Grade Surveillance Switches

 POESW04R3 4-Port FE PoE++ 2-Port Fast Ethernet Switch	• Conforms to IEEE802.3, IEEE 802.3u, IEEE802.3af, IEEE802.3at • Provides 6 10/100Base-TX ports • Provides 4 PoE injector and 60W power adapter • High back-plane bandwidth 1.2Gbps • Surge protection for power port and data ports • The switch supports one-key function conversion, currently supports five modes, normal mode, VLAN mode, Extend mode, WATCHDOG mode, QOS mode.
 POESW08R3 8-Port FE PoE++ 2-Port Gigabit Ethernet Switch	• Conforms to IEEE802.3, IEEE 802.3u, IEEE802.3af, IEEE802.3at • Provides 8 10/100Base-TX ports and 2 10 /100/1000 Base-T ports • Provides 8 PoE injector and 120W power adapter • High back-plane bandwidth 5.6Gbps • Surge protection for power port and data ports • The switch supports one-key function conversion, currently supports five modes, normal mode, VLAN mode, Extend mode, WATCHDOG mode, QOS mode.
 POESW16R3 16-Port FE PoE++ 2-Port Gigabit Ethernet Switch	• Conforms to IEEE802.3, IEEE 802.3u, IEEE802.3af, IEEE802.3at • Provides 16 10/100Base-TX ports and 2 Gigabit Combo ports • Provides 16 PoE injector and 250W Built-in power supply • High back-plane bandwidth 7.2 Gbps • Surge protection for power port and data ports • The switch supports one-key function conversion, currently supports five modes, normal mode, VLAN mode, Extend mode, WATCHDOG mode, QOS mode.
 POESW24UR3 24-Port FE PoE++ 2-Port Gigabit Ethernet Switch	• Conforms to IEEE802.3, IEEE 802.3u, IEEE802.3af, IEEE802.3at • Provides 24 10/100Base-TX ports and 2 Gigabit Combo ports • Provides 24 PoE injector and 370W Built-in power supply • High back-plane bandwidth 8.8 Gbps • Surge protection for power port and data ports • The switch supports one-key function conversion, currently supports five modes, normal mode, VLAN mode, Extend mode, WATCHDOG mode, QOS mode.

CCTV Accessories

Two wire network extension over Coax or UTP



IPEXT-KIT

- 1 set of Transmitter (IPEX-1T) & Receiver (IPEX-1R)
- 2 - Power Supplies, Mounting Brackets& Baluns (Converts Coax cable to UTP)

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

IP and POE over Coax Module (Pair)



IPPOECOAX-KIT

- 1 set of Transmitter (SV) & Receiver (IPC)
- 2 sets of Mounting Brackets

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

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



WAC-2D2TOS-ENC

2-Door, 2 Reader



WAC-4D4TOS-ENC

4-Door, 4 Reader



WAC-8D8TOS-ENC

8-Door, 8 Reader

- 32 bit ST ARM® CortexTM-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

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- CE, FCC, RoHS Certificated

Elevator Access Controller



WAE-016-ENC

- 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 (±10%)
- Operating Current: ≤800mA
- Standby Current: ≤150mA
- Working Temperature: -40°C ~ 70°C / -40°F ~ 158°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-X16IO8-ENC

- 32 bit ARM processor
- 8 Output Relays (NC/NO)
- 16 Inputs (NO)
- RS-232/RS-485/TCP/IP Interface
- POE:802.1 af
- TCP Communication speed: 100M
- 15 Time Groups for each relay
- Transaction Storage: 25,000 events
- Operating Voltage: 12V DC (±10%)
- Operating Current: ≤200mA
- Standby Current: ≤150mA
- Working Temperature: -40°C ~ 70°C / -40°F ~ 158°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"

Proximity Readers Long Range Readers

Proximity Readers		Long Range Readers	
 WAR-EHO-OSDP Proximity Reader	• Multi technology / Multi format reader • Modulation: 125 kHz • Maximum read range: 120mm (4.72 in.) • Output: OSDP Transmission protocol based on RS485, 4 Wires • 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: OSDP Protocol • LED Control Input: OSDP Protocol • Dimensions: 86mm L x 43mm W x 21mm D / 3.38" L x 1.69" W x 0.98" D • Weight: 85g / 0.18lbs	 WAR-UHF-LR Long Range UHF Reader	• RF output power up to 30dbm (adjustable) • Standard ISM 865-868MHz, 902~928MHz • Compliant with CE, FCC/ Multi-Tag Reading • Support RS232, RS485, Wiegand interface • Operation Temp.: -35°C~+50°C/-31°F~+122°C • Storage Temp.: -10°C~+40°C/14°F~+104°F • Input Power: 100-240V, DC+9V (Power Adapter-included) • Support auto-running, interactive & trigger-activating work mode • ISO18000-6B, ISO18000-6C (EPC G1G2) • 12dBi antenna optional with effect distance up to 12m/39.4ft* • 3.5W Power dissipation • Dimension: 445x445x55mm/17.52"x17.52"x2.16" * Communication interface depends on individual situation or clients requirements  WAC-UHF-ISO UHF Access Card  WAC-UHF-HLD Windshield Card Holder  WAC-UHF-TAG UHF Sticker for vehicles/articles
	 WAR-EHO-MPX Multi Technology Proximity Reader		• 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-HAM-LRW WAR-HAM-SRW Long Range Wireless Receiver
	 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) WAR-EMI-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)  WAC-HIT-WT2 WAC-HIT-WT4 433 MHz Long Range Identification Transmitters with built-in proximity access HID (HIT) or AWID (AIT) Format

Mobile-Ready Proximity Readers Biometric Access Control

 WAR-BLU-HIT Mobile-ready Bluetooth Proximity Reader	• Technology: Proximity and Bluetooth Low Energy (BLE) • Frequency: 125 kHz (proximity) and 2.4 GHz (BLE) • Mounting: A single reader for metal door and window frames, single-gang wall boxes, and flat surfaces • Dimensions: - Mullion: 1.7" W × 4.7" H × 1.2" D (43mm × 119mm × 30mm) - Switch Plate: 3" W × 5.1" H × 1.2" D (76mm × 130mm × 30mm) • OEM Label Area: Backlit; Dimensions: 0.9" W × 0.35" H (22.86mm × 8.89mm) with corner radius of 0.06" (1.5mm) • Certifications: FCC, ICC, CE • IP Code IP67 • Voltage: +8 – 14 VDC
 WAR-BLU-HITKEYM WAR-BLU-HITKEY Mobile-ready Proximity Reader & Keypad	• Technology: Proximity and Bluetooth Low Energy (BLE) • Frequency: 125 kHz (proximity) and 2.4 GHz (BLE) • Mounting: - WAR-BLU-HITKEYM: Mullions, including metal door and window frames, as well as flat surfaces - WAR-BLU-HITKEY: Single-gang wall box, as well as flat surfaces • Dimensions: - WAR-BLU-HITKEYM: 1.78" W × 6.1" H × 0.91" D (45mm×155mm×23mm) - WAR-BLU-HITKEY: 3" W × 4.6" H × 0.75" D (76mm×117mm×19mm) • OEM Label Area: Backlit; Dimensions: 0.9" W × 0.35" H (22.86mm × 8.89mm) with corner radius of 0.06" (1.5mm) • Certifications: FCC, ICC, CE • IP Code IP67 • Voltage: +8 – 14 VDC
 WAC-BLUCRED Mobile Access Credential	• Technology: Bluetooth Low Energy (BLE) • Frequency: 2.4 GHz • Type: Smartphone mobile access credential, downloadable via WatchNET Access Wallet App • Operation: iPhone or Android-based smartphones • Formats Wiegand (26-bit) • Marking: Date code and ID
 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 • 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 • On-Line and Off-Line seamless operation On-Line: Connected to the server Off-Line: Stand-Alone, not connected to the server • 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 • Multi-Proximity Cards - HID Prox, AWID Prox, EM Prox, WatchNET Prox • On-Line and Off-Line seamless operation - On-Line: connected to server, Off-Line: Stand-Alone, not connected to server • 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 • WDT watchdog, having a power-on self-test function • Fast fingerprint matching speed • 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

 WAC-EMC-SID Security Proximity Card	 WAC-SID-CSH Security Proximity Card	 WAC-HIC-ISO Printable Cards	 WAC-EMC-CSH Clamshell Card		
• Card Type - Proximity Card • Sensing Distance - Up to 15cm/5.90" • Input Format - WG55, Customized Format • Color - White • Thickness - 0.76mm/0.30" • Operating Frequency - 125KHz • Size - 85.6mm × 54mm × 0.76mm / 3.37" × 2.13" × 0.20" • Security Level - High	• Card Type - Proximity Card • Sensing Distance - Up to 15cm/5.90" • Input Format - WG55, Customized Format • Color - White • Thickness - 2mm/0.079" • Operating Frequency - 125KHz • Size - 85.6mm × 54mm × 0.76mm / 3.37" × 2.13" × 0.20" • Security Level - High	• 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: HID Card • Operation Frequency: 125K Hz • Protocol: ISO 7816 • Read Distance: Up to Max. 80 mm / 3.15" • Data Retention: Up to 10 year	• Case Material: Shell / Cover: PVC • Operation Temperature: -15°C ~ +55°C / 50°F ~ +131°F • Storage Temperature: -20°C ~ +60°C . -40°F 0 +140°F • Chip Type Functionality: EM Card • Operation Frequency: 125K Hz • Protocol: ISO 7816 • Read Distance: Up to Max. 80mm / 3.15" • Data Retention: Up to 10 year (<550C/<1310F)		
 WAC-EMT-SIT High Security Proximity Tag	• Tag Type: Proximity Tag • Sensing Distance: Up to 10cm/3.9" • Data Format: WG55, Customized Format • Thickness: 0.76mm/0.30" • Operation Frequency: 125K Hz • Security Level: High • Size: 44mm × 31mm × 5mm / 1.73" × 1.22" × 0.20"	 WAC-HIT-BLK Proximity Tag	• Tag Type: Proximity Tag • Case Material: Poly carbonate • Sensing Distance: Up to 10cm/3.94" • Color: Blue • Thickness: 4mm/0.16" • Operating Frequency: 125KHz • Size: 40mm × 32mm × 4mm / 1.57" × 1.26" × 0.16"	 WAC-HIT-WT2 WAC-HIT-WT4	• 433 MHz • Max 150ft (40m) • Long Range Identification Transmitters with built-in proximity access • HID (HIT) or AWID (AIT) Format

Access Control Kits

WAC-2D2T-OSDP-KIT 2-Door, 2 Proximity Readers		• 32 bit ST ARM® CortexTM-M4 processor • 2 proximity Readers • Free Software & license for 2 camera integration and up to 8 doors & 3000 users • 10 Proximity Cards • Built-in backup battery charger and cable included *PoE Injector and PSU NOT included
WAC-4D4T-OSDP-KIT 4-Door, 4 Proximity Readers		• 32 bit ST ARM® CortexTM-M4 processor • 4 proximity Readers • Free Software & license for 2 camera integration and up to 8 doors & 3000 users • 10 Proximity Cards • Built-in backup battery charger and cable included *PoE Injector and PSU NOT included
WAC-8D8T-OSDP-KIT 8-Door, 8 Proximity Readers		• 32 bit ST ARM® CortexTM-M4 processor • 8 proximity Readers • Free Software & license for 2 camera integration and up to 8 doors & 3000 users • 10 Proximity Cards • Built-in backup battery charger and cable included *PoE Injector and PSU NOT included

Access Control Accessories



WAA-USB-485

USB to RS485 Protocol Converter

Protocol Converter to convert USB or RS-232 serial port data to RS-485. Enables 1 x USB or serial port to communicate with 127 controllers via RS-485.

Note: Suitable for testing only & should not be used to replace an onboard RS-232 Serial Card.

- USB Com Port
- Plug in after installing the driver
- Temperature: -300C ~ 700C / -220F ~ 1580F
- Humidity: 5% ~ 95%
- Easy and User friendly installation
- Stable performance



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
- 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



WAA-POW-04UL

4CH Power Supply

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



**WAC-1D2T-MICRO
WAC-1D2TH-MICRO**

Single Door Network Controller

- 32 bit processor with 4M bit data memory
- Blue backlight, Touch Pad
- Cards holder capacity: 30,000 events
- Transactions storage: up to 15,000
- Work Mode: Card / PIN, Card + PIN, PIN only
- OLED dual color display to indicate Clock, Company, Name, Card No
- Communication: TCP/IP
- Compatible with all Wiegand reader format from 24 to 72 Bits
- Events Flow Control
- Supports 500 Visitors
- Including UDP Protocol
- CE, FCC, RoHS approval
- WAC-1D2T-MICRO: Built-in EM/HID Proximity reader
- WAC-1D2TH-MICRO: Built-in HID Proximity Reader



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 ~ +149°F
- Dimensions: 140(L)x100(W)x30mm(H) 5.51(L)x3.94(W)x1.18"(H)
- Weight: 138g / 0.30lb

NetFLOW



- 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

eVMS-BLUE



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.

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

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

Enterprise Class Management Software



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.

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 Operating system and supports databases such as MSSQL and MS Access.

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For USA orders: usaorders@watchnetinc.com

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

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