

XVI

MEGAPIXEL VIDEO



XVI-80IRBT



PNT-0880AILC

Kit Contents :

- 1 – PNT-0880AILC
- 6 –XVI-80IRBT
- 1 – USB Mouse

DVR FEATURES:

8 Channel Pentbrid 4K DVR

- H.265+/H.265 dual-stream video compression.
- Supports Full-channel AI Coding.
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
- Max 16 channels IP camera inputs, each channel up to 8MP; Max 128 Mbps incoming bandwidth.
- Up to 8 channels video stream (analog channel) Perimeter Protection.
- Up to 8 channels video stream (analog channel) SMD Plus.
- Up to 2 channels video stream (analog channel) human face recognition.

CAMERA FEATURES:

8MP IR Turret Camera

- 1/2.7" 8MP HD IR Turret Camera
- 3.6mm fixed lens
- Max. 4K resolution
- CVI/CVBS/AHD/TVI switchable
- Max. IR length 50m/164ft, Smart IR
- Day/Night(ICR), AWB, AGC, BLC
- Max. IR LEDs length 50m/164feet
- 120dB True WDR, 3DNR
- IP67, 12V DC $\pm 30\%$
- CVI Compatible Camera



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SYSTEM PNT-0880AILC	
Main Processor	Industrial-grade processor
Operating System	Embedded Linux
Operating Interface	Web; Local GUI

AI FUNCTION	
AI Motion	8 channels: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change
Face Attributes	Gender; age group; glasses; expressions; face mask; beard
Face Detection	2 channels (up to 12 face images/s each channel))
Capacity	Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type, certificate No., countries & regions and state can be added to each face image
Face Recognition	2 channels
Fenced Area Protection	Advanced Model: 2 channels, 10 IVS for each channel General Model: 8 channels, 10 IVS for each channel

AUDIO AND VIDEO	
Analog Camera Input	8 BNC ports, supports HDCVI/AHD/TVI/CVBS auto detect
Camera Input	1. CVI: 4K@25/30 fps; 6 MP@20 fps; 5 MP@20 fps; 5 MP@25 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps; 720p@50/60 fps.2. TVI: 4K@15 fps; 5 MP@20 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps.3. AHD: 4K@15 fps; 5 MP@20 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps
IP Camera Input	Up to 16 channels of IPC access 8 IP channels by default + 8 channels (analog channels are converted to IP channels) incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled.
Encoding Capacity	Main stream: 4K@(1fps-7fps); 6 MP@(1fps-10fps); 5 MP@(1fps-12fps); 4K-N, 4 MP, 3 MP@(1fps-15fps); 4M-N, 1080p, 720p, 960H, D1,CIF@(1fps–25/30fps); Sub stream: 960H@(1fps–15fps); D1/CIF@(1 fps 25/30fps)
Dual-stream	Yes
Video Bit Rate	32 kbps–6144 kbps
Audio Sampling	8 kHz, 16 bit
Audio Bit Rate	64 kbps
Video Output	1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
Multi-screen Display	When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16

COMPRESSION STANDARD	
Video Compression	AI Coding; Smart H.265+; H.265; Smart H.264+;H.264
Audio Compression	G.711a; G.711u; PCM

NETWORK	
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P
Mobile Phone Access	IOS; Android
Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK
Browser	Chrome, IE9 or later, Firefox
Network Mode	Single-address mode

RECORDING PLAYBACK	
Record Mode	General, motion detection; intelligent; alarm; POS
Recording Playback	1/4/9
Backup Method	USB device and network
Browser	Chrome, IE9 or later, Firefox
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)

ALARM	
General Alarm	Motion detection, video loss, tampering
Anomaly Alarm	No disk; storage error; disk full; camera offline; IP conflict; MAC conflict
Intelligent Alarm	Face detection; face recognition; perimeter protection
Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; access controller; voice prompt; buzzer; log; preset; email

PORTS	
HDMI	1
VGA	1
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)
Audio Input	1-channel RCA; 8-channel BNC (Coaxial Audio)
Audio Output	1-channel RCA
Two-way Talk	Yes (share the same audio input with the first channel)
HDD Interface	1 SATA port, up to 16TB capacity for each disk. The maximum HDD capacity varies with environment temperature.
RS-485	1 port, for PTZ control
USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)

GENERAL	
Power Supply	DC 12V, 2A
Power Consumption	<10 W (without HDD)
Net Weight	1.00 kg (2.21 lb)
Gross Weight	1.40 kg (3.09 lb)
Product Dimensions	260.0 mm × 237.9 mm × 47.6 mm (10.24" × 9.37" × 1.87") (W × D × H)
Packaging Dimensions	333.0 mm × 89.0 mm × 315.0 mm (13.12" × 3.51" × 12.41") (W × D × H)
Operating Temperature	−10 °C to +55 °C (14 °F to +131 °F)
Operating Humidity	10%–90% (RH)

Model	XVI-80IRBT
Camera	
Image Sensor	1/2.7" 8 MP HD CMOS Image Sensor
Effective Pixels	3840 (H) x 2160 (V), 4K
Electronic Shutter Speed	PAL: 1/3s-1/100000s / NTSC: 1/4s-1/100000s
Minimum Illumination	0.03Lux/F2.0, 30IRE, 0Lux IR on
IR Distance	Up to 50m (164ft)
IR On/Off Control	Auto / Manual
IR LEDs	1
Lens	
Lens Type	Fixed-focal
Mount Type	M12
Focal Length	3.6mm fixed
Max Aperture	F2.0
Angle of View	104°×87°×47° (diagonal x horizontal x vertical)
Iris type	Fixed Iris
Close Focus Distance	1.8m / 3.6m (3.28ft / 5.91ft / 11.81ft)
Video	
Resolution	4K (3840×2160); 5M (2592×1944); 4M (2560×1440); 960H (960× 576/960×480)
Frame Rate	20fps@5MP, 25/30fps@4MP, 25/30fps@1080P
Day/Night	Auto switch by ICR
BLC	BLC / HLC / WDR(120dB)
White Balance/Gain Control	Auto; manual
Noise Reduction	2D & 3DNR
Smart IR	Yes
Electronic Defog	Yes
Digital Zoom	4X
Mirror	Off/On
Privacy Masking	Off/On (8 area, rectangle)
Port	
Audio Port	N/A
Video Port	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Electrical	
Power Supply	12V DC ±30%
Power Consumption	Max 4.5W (12V DC, IR on)
Environmental	
Operating Conditions	-40°C ~ +60°C (-40°F ~ +140°F) <95% (non-condensation)
Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) <95% (non-condensation)
Ingress Protection	IP67
Construction	
Casing	Metal throughout the whole casing
Dimensions	Φ106mm×93.7mm (Φ4.17"×3.69")
Net Weight	470g (1.04lb)
Gross Weight	620g (1.37lb)



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*All product specifications on this brochure are subject to change without notice.

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