

# XVI

MEGAPIXEL VIDEO



### XVI-50IRBTR3



### PNT-0880AIRC

#### Kit Contents :

- 1 – PNT-0880AIRC
- 4 – XVI-50IRBTR3
- 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:

##### 5MP IR Turret Camera

- 1/2.7" 5MP CMOS image sensor
- Max 25 fps@5MP (16:9 video output)
- XVI/CVI/CVBS/AHD/TVI switchable
- Max. IR LEDs length 40m/196.9ft, Dual Light
- D-WDR, BLC, HLC, Day/Night
- 2.8mm fixed lens
- IP67, 12V ±30% DC
- -40°C ~ +60°C (-40°F ~ +140°F)
- CVI Compatible Camera



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SYSTEM	
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)

CAMERA	
Image Sensor	5 MP CMOS
Effective Pixels	2880 (H) × 1620 (V)
Scanning System	Progressive
Electronic Shutter Speed	PAL: 1/25 s–1/100000 s NTSC: 1/30 s–1/100000 s
Min. illumination	0.05 lux@F1.6 (Color, 30 IRE) 0.005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	More than 65dB
Illumination Distance	IR: 40 m (131.23 ft) Warm Light: 40 m (131.23 ft)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	2 (Warm light); 2 (IR light)
Pan/Tilt/Rotation	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°

LENS	
Lens Type	Fixed-focal
Lens Mount	φ12
Focal Length	2.8 mm; 3.6 mm
Max. Aperture	F1.6
Angle of View	H: 106°; V: 56°; D: 125°; H: 92°; V: 48°; D: 109°
Iris Control	Fixed
Close Focus Distance	1.3 m (4.27 ft); 0.8 m (2.62 ft)

DORI DISTANCE				
	Detect	Observe	Recognize	Identify
2.8 mm	56 m (183.73 ft)	22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (18.37 ft)
3.6 mm	76 m (249.34 ft)	30.4 m (99.74 ft)	15.2 m (49.87 ft)	7.6 m (24.93 ft)

PORT	
Audio Input	1-channel audio in
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port

ENVIRONMENTAL	
Operating Conditions	–40 °C to +60 °C (–40 °F to +140 °F) & <95% (RH), non-condensing
Storage Conditions	–40 °C to +60 °C (–40 °F to +140 °F) & <95% (RH), non-condensing
Ingress Protection & Vandal	IP67

ELECTRICAL	
Power Supply	12 VDC ± 30%
Power Consumption	Max 4.5 W (12 VDC, WLED on)

CONSTRUCTION	
Casing	Metal
Dimensions	φ106.0 mm × 93.6 mm (φ4.17" × 3.69")
Net Weight	0.47 kg (1.04 lb)
Gross Weight	0.6 kg (1.32 lb)
Installation	Wall mount; ceiling mount; vertical pole mount

VIDEO	
Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Frame Rate	CVI: PAL: 5M@25 fps; 4M@25 fps; 1080p@25 fps; NTSC: 5M@25 fps; 4M@30 fps; 1080p@30 fps AHD: PAL: 4M@25 fps; NTSC: 4M@30 fps TVI: PAL: 4M@25 fps; NTSC: 4M@30 fps CVBS: PAL: 960H; NTSC: 960H
Day/Night	Auto(ICR)/Color/B/W
BLC Mode	BLC; HLC; DWDR
WDR	DWDR
Gain Control	Auto/Manual
Noise Reduction	2D NR
White Balance	Auto; Area white balance
Smart IR	Smart IR&WL; WL Mode; IR Mode
Mirror	Yes
Privacy Masking	Off/On (8 areas, rectangle)



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