

XVI

MEGAPIXEL VIDEO



XVI-80IRBT



4K

Kit Contents :

- 1 – PNT-1680AILR3
- 8 –XVI-80IRBT
- 1 – USB Mouse

PNT-1680AILR3

DVR FEATURES:

16 Channel Penta-Brid 8MP Mini 1U AI Digital Video Recorder

- H.265+/H.265 dual-stream video compression.
- Supports Full-channel AI Coding.
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
- Max 32 channels IP camera inputs, each channel up to 8MP;
- Max 128 Mbps incoming bandwidth.
- Up to 16 channels video stream (analog channel) Perimeter Protection.
- Up to 16 channels video stream (analog channel) SMD Plus.
- Up to 2 channels video stream (analog channel) human face recognition.
- IoT & POS functionalities.

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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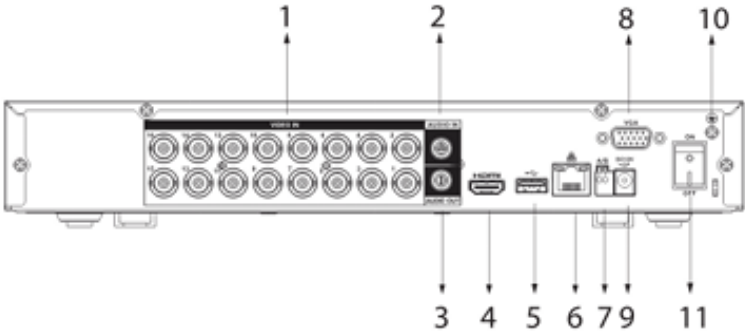


System	PNT-1680AILR3	
	Main Processor	Industrial-grade processor
	Operating System	Embedded Linux
	Operating Interface	Web; Local GUI
Perimeter Protection	Perimeter Performance AI by Recorder (Number of Channels)	Advanced Model: 2 channels, 10 IVS for each channel General Model: 8 channels, 10 IVS for each channel
Face Detection	Face Attributes	Gender; age group; glasses; expressions; face mask; beard
	Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s each channel)
Face Recognition	Face Database 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 Performance of AI by Recorder (Number of Channels)	2 channels
SMD Plus	SMD Plus by Recorder	16 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change
Audio and Video	Analog Camera Input	16 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect
	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 32 channels of IPC access 16 IP channels by default + 16 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@(1fps-25/30fps)

Audio and Video	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 *Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.
	Multi-screen Display	When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25/36
Compression Standard	Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Samsung
	Video Compression	AI Coding; Smart H.265+; H.265; Smart H.264+; H.264
Network	Audio Compression	G.711a; G.711u; PCM
	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
Recording Playback	Network Mode	Single-address mode
	Record Mode	General, motion detection; intelligent; alarm; POS
	Recording Playback	1/4/9/16
	Backup Method	USB device and network
Alarm	Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)
	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
Ports	Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; access controller; voice prompt; buzzer; log; preset; email
	Audio Input	1-channel RCA 16-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	USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)

Ports	HDMI	1
	VGA	1
	Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)
General	Power Supply	DC 12V, 3A
	Power Consumption	<15 W (without HDD)
	Net Weight	1.30 kg (2.87 lb)
	Gross Weight	2.10 kg (4.63 lb)
	Product Dimensions	325.0 mm × 257.1 mm × 55.0 mm (12.80" × 10.12" × 2.17") (W × D × H)
	Packaging Dimensions	372.0 mm × 117.0 mm × 308.0 mm (14.65" × 4.61" × 12.13") (W × D × H)
	Operating Temperature	−10 °C to +55 °C (14 °F to +131 °F)
	Operating Humidity	10%–90% (RH)
	Installation	Rack or desktop
	Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 FCC: Part 15 Subpart B

Panels:



- 1) VIDEO IN
3) AUDIO OUT, RCA Connector
5) USB Port
7) RS-485 Port
9) Power Input
11) Power Switch
- 2) AUDIO IN, RCA Connector
4) HDMI Port
6) Network Port
8) VGA Port
10) Ground

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° (diagona 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
Eelectrical	
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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