



4K



PNT-0880AILR2

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



Features:

- 8CH Mini 1U Embedded LINUX processor
- 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 2 channels video stream (analog channel) Fenced Area Protection
- Up to 8 channels video stream (analog channel) Motion Detection
- Up to 2 channels video stream (analog channel) Human Face Recognition
- IoT & POS functionalities

AI Functions:

(Only supported on BNC Inputs 2.1MP or Higher)

Fenced Area Performance AI by Recorder (Number of Channels):

- 2 channels

Face Detection Performance of AI by Recorder (Number of Channels):

- 2 channels, and a single channel can detect up to 12 faces

Face Recognition Performance of AI by Recorder (Number of Channels):

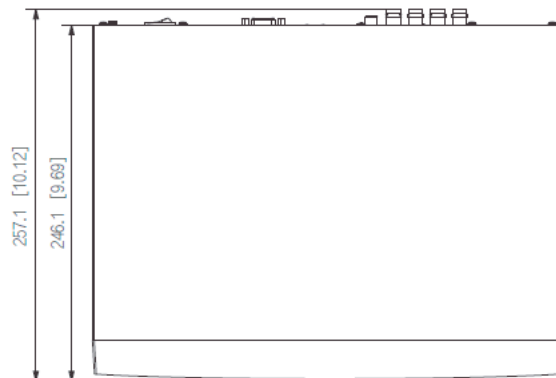
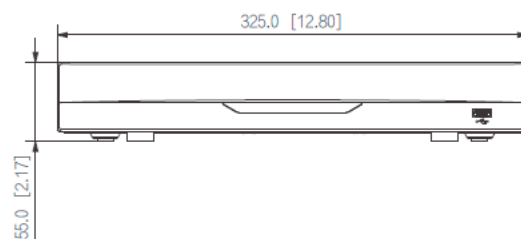
- 2 channels
- Face Database Capacity Up to 10 face databases and 20,000 pictures

AI Motion:

- Full-channel Motion Detection (AI by recorder), secondary filtering for human and motor vehicle Motion Detection, reducing false alarms caused by leaves, rain and lighting condition changes

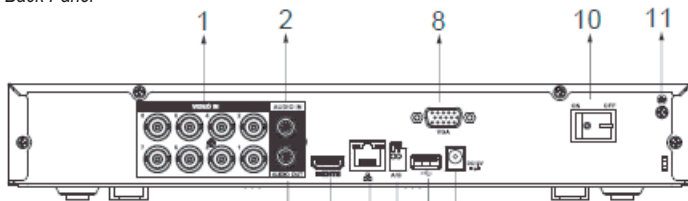


FREE Multisite VMS software
Download from www.watchnetinc.com



Model	PNT-0880AILR2	
System	Main Processor	Embedded Processor
	Operating System	Embedded LINUX
Fenced Area Protection	Fenced Area Performance AI by Recorder (Number of channels)	2 channels
Face Detection	Face Attributes	6 attributes: Gender, age groups (6), glasses, expressions (8), face mask, beard, with up to 4 detection panels displayed at the same time
	Face Detection Performance of AI by Recorder (Number of Channels)	2 channels, and a single channel can detect up to 12 faces
Face Recognition	Face Database Capacity	Up to 10 face databases and 20,000 picture
	Face Recognition Performance of AI by Recorder (Number of Channels)	2 channels
Motion Detection	Motion Detection by Recorder	Full-channel Motion Detection (AI by recorder), secondary filtering for human and motor vehicle Motion Detection, reducing false alarms caused by leaves, rain and lighting condition changes
Audio and Video	Analog Camera Input	8 channels, BNC: adaptive access by default; HDCVI, AHD, TVI and CVBS access can be configured
	Camera Input	1. CVI: 4K, 6MP, 5MP, 4MP, 1080P@25/30 fps, 720P@50/60 fps, 720P@25/30 fps. 2. TVI: 4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30 fps. 3. AHD: 4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30 fps.
	IP Camera Input	8+8 channels, each channel up to 8MP
	Encoding Capacity	All channel 4K(1fps-7fps); 6MP(1 fps-10 fps); 5MP (1 fps-12 fps); 4K-N, 4MP/3MP (1 fps-15 fps); 4M-N/1080P/720P/960H/D1/CIF (1 fps-25/30 fp
	Dual-stream	Supported (960H (1 fps-15 fps); D1/CIF(1 fps-25/30 fps
	Video Frame Rate	PAL: 1 fps-25 fps / NTSC: 1 fps-30 fps
	Video Bit Rate	32 Kbps-6144 Kbps Per Channel
	Audio Sampling	8 KHz, 16 bit Per Channel
	Audio Bit Rate	64 Kbps Per Channel
	Bit Rate Type	Video stream and composite stream
Video Output	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/H.265+/H.265/H.264+/H.264
	Audio Compression	G.711A/G.711u/PCM

Back Panel



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

CANADA:
351 Ferrier Street, Unit 5
Markham, ON L3R 5Z2
Toll Free:
Tel: 416-410-6865

USA:
171 Cooper Ave. Suite 110
Tonawanda, NY 14150 USA
Toll Free: 1-866-843-6865
Local: 1-716-877-7277

UAE:
P O Box 126312
No 703, Oxford Towers
Business Bay, Dubai, UAE
Tel: + 971 4 2767117

Network	Network Protocol	HTTP, HTTPS, TCP / IP, IPv4, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, P2P
	Mobile Phone Access	iPhone, iPad, Android
	Interoperability	ONVIF 16.12, CGI Conformant
	Browser	Chrome, IE9 or above, Firefox
Recording Playback	Network Mode	Single-address mode
	Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop
	Recording Playback	1/4/9
	Backup Method	USB Device/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, and local alarm
	Anomaly Alarm	No disk, disk error, low space, offline, ip conflict, MAC conflict
	Intelligent Alarm	Face detection, face recognition, fenced area protection
Ports	Alarm Linkage	Record, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email
	Audio Input	1, RCA (external) 8, BNC (coaxial)
	Audio Output	1, RCA
	Two-way Talk	Yes (share the same audio input with the first channel)
	HDD Interface	1 SATA Port, up to 16TB for a single HDD, the maximum HDD capacity varies with environment temperature
	RS-485	1 Port, for PTZ Control
	USB	2 USB Ports (1 USB 2.0, 1 USB 3.0)
	HDMI	1
	VGA	1
	Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)
General	Power Supply	DC12V, 2A
	Power Consumption	Lower than 10W
	Net Weight	1.2kg (2.65lb)
	Gross Weight	1.9kg (4.19lb)
	Product Dimensions (W × D × H)	Mini 1U, 325.0mm × 256.6mm × 55.0mm 12.80" × 10.10" × 2.17"
	Packaging Dimensions	372.0mm × 117.0mm × 308.0mm (L × W × H) 14.65" × 4.61" × 12.13" (L × W × H)
	Installation	Desktop installation
Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F)	
Operating Humidity	10%~90%	

* All product names, logos and brands are property of their respective owners. All company products and service names used on this box/website/brochure are for identification purposes only. Use of these names, logos and brands does not imply endorsement. 2022 WatchNET Inc. © All Rights Reserved All product specifications are subject to change without notice.

Feb. 28, 2022

info@watchnetinc.com
www.watchnetinc.com