







PNT-1680AILR3

## 16CH Penta-brid Mini 1U 1HDD DVR



















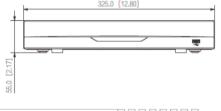
## Key Features:

- · H.265+/H.265 dual-stream video compression.
- · Supports Full-channel Al-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 8 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.











		PNT-1680AILR3
System	Main Processor	Industrial-grade processor
System	Operating System	Embedded Linux
	Operating Interface	Web; Local GUI
Perimeter Protection	Perimeter Performance Al 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, cerificate 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; 720p@25/30 fps; 3 MP@25/30 fps; 5 MP@20 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 5 MP@20 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps; 720p@25/30 fps; 720p@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@(1 fps-25/30fps)

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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
	Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Samsung
Compression Standard		Al 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
Decording	Record Mode	General, motion detection; intelligent; alarm; POS
	Recording Playback	1/4/9/16
Playback	Backup Method	USB device and network
	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
Alarm	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	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	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)

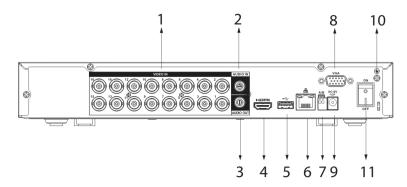
Ports	HDMI	1
	VGA	1
	Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)
General	Power Supply	DC 12V, 3A
	Power Consumption	<15 W (without HDD)
	Net Weight	1.30 kg (2.87 lb)
	Gross Weight	2.10 kg (4.63 lb)
	Product Dimensions	325.0 mm × 257.1 mm × 55.0 mm (12.80" × 10.12" × 2.17") (W × D × H)
	Packaging 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

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## 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

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