



## FEATURES

- H.265+/H.265 dual-stream video compression.
- Supports 16-channel AI-Coding.
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
- Max 24 channels IP camera inputs, each channel up to 8MP; Max 128 Mbps incoming bandwidth.
- Up to 4 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.

# MT-NCXVR8816-AI

## TECHNICAL SPECIFICATIONS

System	Main Processor	Embedded Processor
	Operating System	Embedded Linux
	Operating Interface	Web; Local GUI
Perimeter Protection	Perimeter Performance of AI by Recorder (Number of Channels)	Advanced Model: 2 channels, 10 IVS for each channel General Model: 4 channels, 10 IVS for each channel
Face Detection	Face Attributes	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
	Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s)
Face Recognition	Face Database Capacity	Up to 10 face databases with 10,000 face images in total. Name, gender, birthday, address, certificate type, certificate No., countries@ions 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 SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change
Audio and Video	Analog Camera Input	16 BNC ports, CVI access by default, supports HDCVI/AHD/TVI/CVBS auto-detect
	Camera Input	1. CVI: 5MP@20fps, 5MP@25fps, 5MP@10/12.5fps, 4MP@25/30fps, 1080p@25/30fps, 720p@50/60fps, 720p@25/30fps. 2. TVI: 5MP@20fps, 4MP@25/30fps, 1080p@25/30fps, 720p@25/30fps. 3. AHD: 5MP@20fps, 4MP@25/30fps, 1080p@25/30fps, 720p@25/30fps.
	IP Camera Input	Up to 24 channels of IPC access 8 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.
Audio and Video	Encoding Capacity	Main stream: 5MP Mode: 4-ch 5MP@(1-6fps); other channels 5M-N@(1-12fps) 5M-N Mode: All channel 5M-N@(1-12fps);4M-N,1080p@(1-15fps); 1080N, 720p, 960H, D1,CIF@(1-25/30fps) Sub stream: D1, CIF@(1-15fps)
	Dual-stream	Yes
	Video Frame Rate	PAL: 1 fps-25 fps NTSC: 1 fps-30 fps
	Video Bit Rate	32 kbps-6144 kbps
	Audio Sampling	8 kHz, 16 bit
	Audio Bit Rate	64 kbps
	Video Output	2 HDMI, 1 VGA, 1 TV Resolution VGA/HDMI2: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI1: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 It changes to 1920 × 1080, 1280 × 1024, 1280 × 720 when Face or IVS&SMD is selected in AI Mode. *Heterogeneous video sources output for HDMI2 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
	Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung
	Compression Standard	Video Compression
Audio Compression		G.711a; G.711u; PCM
Network	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.)
	Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK
	Mobile Phone Access	iOS; Android
	Browser	Chrome, IE9 or later, Firefox
Recording Playback	Network Mode	Multi-address mode,Fault Tolerance,Load Balance
	Record Mode	General, motion detection; intelligent; alarm; POS
	Recording Playback	1/4/9/16 It changes to 1/4/9 split when Face or IVS&SMD is selected in AI Mode
	Backup Method	USB device and network
Storage	Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)
	Disk Group	Yes
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	TV Output	Yes
	Audio Input	16-channel BNC (external) 16-channel BNC (coaxial audio)
	Audio Output	1-channel BNC
	Two-way Talk	1-channel BNC
	Alarm Input	16 channels
	Alarm Output	6 channels
	HDD Interface	8 SATA ports,up to 16TB, the maximum HDD capacity varies with environment temperature
	eSATA	1
	RS-232	1 port, for PC Communication & Keyboard
	RS-485	1 port, for PTZ control
General	USB	4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports)
	HDMI	2
	VGA	1
	Network Port	2 (10/100/1000 Mbps Ethernet port, RJ-45)
	Power Supply	100-240 VAC, 50±2% Hz
	Power Consumption	<15 W (without HDD)
	Net Weight	6.72 kg (14.81 lb)
Gross Weight	9.32 kg (20.55 lb)	
Certifications	Product Dimensions	2U, 439.9 mm × 463 mm × 94.9 mm (17.32" × 18.23" × 3.73") (WxDxH)
	Packaging Dimensions	570.0 mm × 570.0 mm × 226.0 mm (22.44" × 22.44" × 8.90") (WxDxH)
	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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