

4K



EN-128AI

128 Channels 2U 8HDDs Network Video Recorder



Features:

- CE** • Max. 1024/1024/800Mbps incoming/recording/outgoing bandwidth
- Supports N+M cluster
- FC** • 8 SATA ports, up to 16 TB
- Support Raid 0/1/5/6/10
- Drawer-like chassis design allows for HDD hot swapping
- Audio I/O – 1/2, Alarm I/O – 16/8

AI Features by camera:

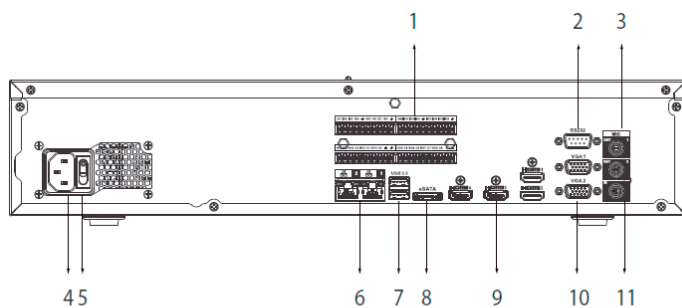
- Face detection and recognition, fenced area protection, motion detection, metadata, LPR, and people counting

AI Features by recorder:

- 4-channel face detection and recognition; 8-channel metadata; 24-channel fenced area protection; 32-channel motion detection



FREE Multisite VMS software
Download from www.watchnetinc.com



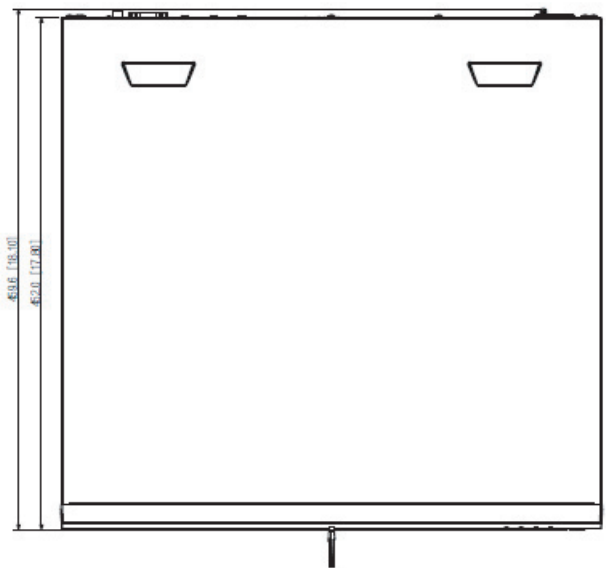
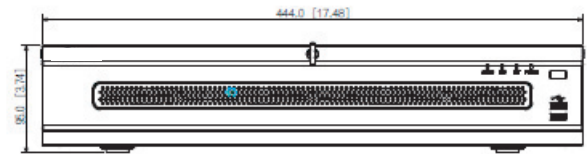
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|----------------------------|-----------------|
| 1 Alarm In/Out | 2 RS-232 Port |
| 3 AUDIO OUT, RCA Connector | 4 Power Input |
| 5 Power Switch | 6 Network Ports |
| 7 USB Ports | 8 eSATA Port |
| 9 HDMI Ports | 10 VGA Ports |
| 11 AUDIO IN, RCA Connector | |

Model	EN-128AI
System	
Main Processor	Industrial-grade processor
Operating System	Embedded Linux
Operating Interface	Web, Local GUI
AI	
AI by Recorder	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); motion detection
AI by Camera	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); motion detection; stereo analysis; crowd distribution; people counting; LPR; vehicle density; object monitoring
Fenced Area Protection	
Fenced area Performance AI by Recorder (Number of Channels)	24 channels, 10 IVS rules for each channel
Fenced area Performance AI by Camera (Number of Channels)	64 channels
Face Detection	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard
Face Detection Performance of AI by Recorder (Number of Channels)	4 channels (up to 12 face images/second/channel)
Face Detection Performance of AI by Camera (Number of Channels)	64 channels
Face Recognition	
Face Database Capacity	Up to 40 face databases with 300,000 images, with a total capacity of 48 G. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image.
Face Recognition Performance of AI by Recorder (Number of Channels)	1. 20 channels FD (by camera) + FR (by recorder), image stream: 20 face images/s 2. 4 channels FD (by recorder) + FR (by recorder), video stream: 12 face images/s
Face Recognition Performance of AI by Camera (Number of Channels)	64 channels
Motion Detection	
Motion Detection by Recorder	32-channel: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change
Motion Detection by Camera	64 channels
Video Metadata	
Metadata Performance of AI by Recorder (Number of Channels)	8 channels
Metadata Performance of AI by Camera (Number of Channels)	32 channels
Human Attributes	Top color, top type, hat, bag, age, gender and umbrella
Motor Vehicle Attributes	License plate, plate color, vehicle model, vehicle logo, plate color, ornament, calling,
Non-motor Vehicle Attributes	Vehicle model, vehicle color, number of persons, helmet.
Vehicle License Plate Comparison	
LPR by Camera (Number of Channels)	32 channels
License Plate Database Capacity	Blocklist and allowlist: 20,000

Audio and Video	
Access Channel	128 channel
Network Bandwidth	AI disabled: 1024 Mbps incoming, 1024 Mbps recording and 800 Mbps outgoing AI enabled: 512 Mbps incoming, 512 Mbps recording and 400 Mbps outgoing
Resolution	32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1
Decoding Capability	2-channel 32 MP@30 fps; 2-channel 24 MP@30 fps; 4-channel 16 MP@30 fps; 8-channel 8 MP@30 fps; 16-channel 4 MP@30 fps; 32-channel 1080p@30 fps; 72-channel 720P@30 fps 160-channel D1@30 fps
Video Output	2-channel VGA, 4-channel HDMI video output. Simultaneous mode: max. resolution of VGA1 and VGA2 is 1080p, max. resolution of HDMI1 and HDMI2 is 4K max. resolution of HDMI3 is 8K max. resolution of HDMI4 is 1080p Heterogeneous mode: Simultaneous video source output for VGA1 and HDMI1 Simultaneous video source output for VGA2 and HDMI2 max. resolution of VGA1 and VGA2 is 1080p, max. resolution of HDMI1, HDMI2 and HDMI3 is 4K max. resolution of HDMI4 is 1080p
Multi-screen Display	Main screen: 1/4/8/9/16/25/36/64 Sub screen: 1/4/8/9/16/25/36
Third-party Camera Access	ONVIF; RTSP
Compression Standard	
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MPEG4; MJPEG
Audio Compression	G.711a; G.711u; PCM; G726
Network	
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; DDNS; Alarm Server; IP Search (Supports WatchNET IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration; iSCSI
Mobile Phone Access	iOS; Android
Interoperability	ONVIF (Profile S/profile T/Profile G); CGI; SDK
Browser	Chrome IE 9 or later Firefox
Network Mode	Multi-address mode, load balance, fault tolerance and other network port binding modes
Recording Playback	
Multi-channel Playback	Up to 16 channels
Record Mode	Manual; alarm; motion detection; scheduled
Backup Method	Portable hard drive, eSATA disk, burner, USB device and network
Playback Mode	1. Play, pause, stop, fast forward, fast backward, rewind, play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off
Storage	
Disk Group	Yes
RAID	RAID 0/1/5/6/10
Hot Swapping	Yes

Alarm	
General Alarm	Motion detection; video tampering; video loss; scene changing, PIR alarm, IPC external alarm
Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan
Intelligent Alarm	Face detection; face recognition; perimeter protection (intrusion and line crossing); Motion detection alarms; LPR; people counting; stereo analysis; crowd distribution; heat map
Alarm Linkage	Record; snapshot; IPC external alarm output; buzzer; log, preset; email
Port	
Audio Input	1-channel RCA
Audio Output	2-channel RCA
Alarm Input	16 channels
Alarm Output	8 channels
HDD Interface	8 SATA ports, up to 16 TB. The maximum HDD capacity varies with environment temperature.
eSATA	1
RS-232	1
RS-485	1 × A/B
USB	4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports)
HDMI	4
VGA	2
Network Port	2 (10/100/1000/2500 Mbps Ethernet port, RJ-45)

General	
Power Supply	100–240 VAC, 50/60 Hz
Power Consumption	<18 W (without HDD)
Net Weight	6.4 kg (14.11 lb) (without HDD)
Gross Weight	8.59 kg (18.94 lb) (without HDD)
Product Dimensions	440.0mm × 458.4mm × 94.9mm (17.32" × 18.05" × 3.57") (W × D × H)
Packaging Dimensions	571.0mm × 499.0mm × 211.0mm (22.48" × 19.65" × 8.31")(W × D × H)
Operating Temperature	-10°C to +55°C (14°F to +131°F)
Operating Humidity	10%–93% (RH)
Installation	Rack or desktop
Certifications	CE, FCC



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