

# 4K

**16CH Compact 1U 2HDD 16PoE  
Network Video Recorder**



ENMR3-16POE



### Features:



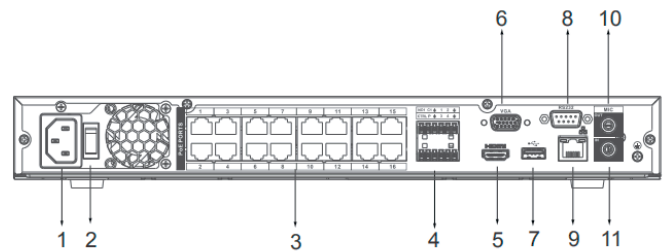
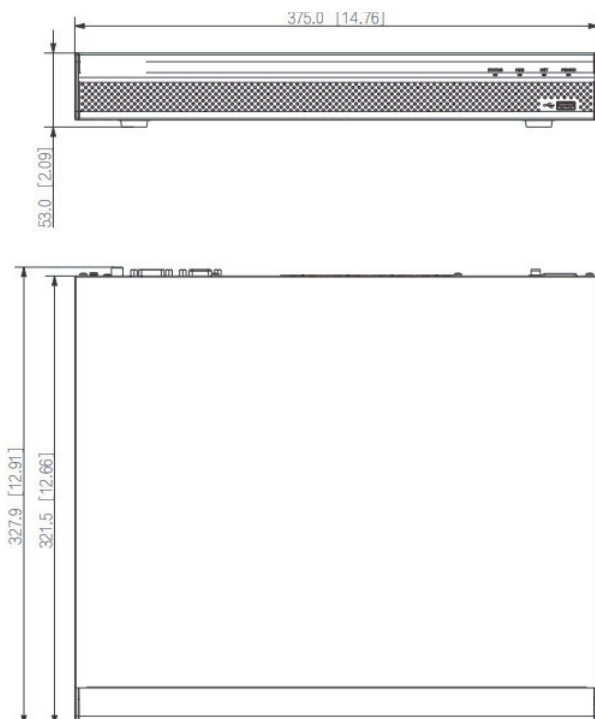
- Embedded LINUX OS
- Industrial-grade embedded processor
- New 4.0 user interface, Security baseline 2.1
- H.264, H.265, Smart H.264+, and Smart H.265+. H.265 auto switch
- Max. decoding capability: 8 × 1080p@30 fps.  
Supports adaptive decoding
- Supports mainstream cameras of ONVIF and RTSP protocols
- P2P remote surveillance, video play on mobile device
- VGA/HDMI simultaneous video output, maximum resolution of HDMI is 4K
- **AI by Camera:** Face detection, fenced area protection, IVS, people counting, heat map, and motion detection



\* (AI Features only supported when using AI Cameras)



FREE Multisite VMS software  
Download from [www.watchnetinc.com](http://www.watchnetinc.com)



- |                            |                             |
|----------------------------|-----------------------------|
| 1 Power Input Port         | 2 Power Switch              |
| 3 PoE Ports                | 4 NO1 C1/CTRL P             |
| 5 HDMI Port                | 6 VGA Port                  |
| 7 USB Port                 | 8 RS232 Port                |
| 9 Network Port             | 10 AUDIO OUT, RCA Connector |
| 11 AUDIO IN, RCA Connector |                             |

Technical Specifications	
<b>System</b>	
Main Processor	Industrial-grade embedded processor
OS	Embedded Linux
Operation Interface	Web/operating in local GUI
<b>Fenced Area Protection by Camera</b>	
Performance	8 channels
AI Search	Search for pictures by channel, time and event type
<b>Face Detection by Camera</b>	
Performance	4 channels
Face Attributes	6 attributes: Gender, age, glasses, expression, mouth mask, and beard
AI Search	Search for pictures by channel, time and face attributes
<b>Motion Detection by Camera</b>	
Performance	12 channels
AI Search	Search by target classification (human, vehicle)
<b>Video</b>	
Access Channel	16
Network Bandwidth	Access: 160 Mbps; Storage: 160 Mbps; Forward: 64 Mbps
Resolution	8MP; 6MP; 5MP; 4MP; 3MP; 1080p; 720p; D1
Decoding Capability	8 × 1080p@30 fps
Video Output	1 × VGA output, 1 × HDMI output, supports simultaneous video sources output for VGA & HDMI
Multi-screen Display	1, 4, 8, 9, 16 views
Third-party Camera Access	ONVIF; RTSP
<b>Compression</b>	
Video	Smart H.265/H.265/Smart H.264/H.264/MJPEG
Audio	PCM/G711A/G711U/G726/AAC
<b>Network</b>	
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm Server; IP Search (Support WatchNET IP camera; DVR; NVS; etc.); P2P; auto register
Mobile Phone Access	Android; iOS
Interoperability	ONVIF(profile T/S/G); CGI; SDK
Browser	Chrome; IE9 or later; Firefox
<b>Record Playback</b>	
Multi-channel Playback	Up to 16 channels for playback
Record Mode	Manual record; alarm recording; Motion Detection recording; smart recording
Storage	Local HDD; network
Backup	USB storage device
Playback Function	1. Play/pause/stop/slow/quick/backward/by frame 2. Full screen, backup (video clip/file), partial zoom in, and audio on/off

Storage	
Disk Group	Yes
<b>Alarm</b>	
General Alarm	Motion detection, privacy masking, video loss, scene changing, PIR alarm, IPC external alarm
Anomaly Alarm	Camera disconnection, storage error, disk full, IP conflict, MAC conflict, login locked, and cyber security exception
Intelligent Alarm	Face detection, fenced area protection (intrusion and line crossing), IVS, people counting, heat map, and motion detection alarms
Alarm Linkage	Recording, snapshot, audio, buzzer, log, preset, and email
<b>External Port</b>	
Audio Input	1 × RCA input
Audio Output	1 × RCA output
HDD	2 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature
Alarm Input	4
Alarm Output	2
USB	2 (1 × front USB2.0; 1 × back USB2.0)
HDMI	1 (supports up to 4K resolution output)
VGA	1
Network	1 × RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port
POE	16
<b>General Parameter</b>	
Power Supply	100 V–240 V, 47 Hz–63 Hz, 3.5 A
Power Consumption	< 10 W (HDD not included, idling) Total output power of PoE is 117W, the maximum output power of a single port is 25.5W
Net Weight	2.63kg (5.80lb)
Gross Weight	3.91kg (8.62lb)
Product Dimensions	375mm × 327.4mm × 53.8mm (14.76" × 12.89" × 2.12") (W × L × H)
Package Dimensions	170mm × 449mm × 421mm (6.69" × 17.68" × 16.57") (W × L × H)
Operating Conditions	–10°C to +55°C (+10°F to +131°F)
Storage Conditions	0°C to +40°C (32°F to 104°F)
Operating Humidity	10c/o ~ 93c/o
Storage Humidity	30% ~ 85%
Operating Altitude	3000m (9842.52ft)
Installation	Desktop mounted
Certification	CE, FCC

\* 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. 2021 WatchNET Inc. © All Rights Reserved All product specifications are subject to change without notice.

**CANADA:**  
351 Ferrier Street, Unit 5  
Markham, ON L3R 5Z2  
Toll Free: 1-866-843-6865  
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:**  
PO Box 126312  
No 703, Oxford Towers  
Business Bay, Dubai, UAE  
Tel: + 971 4 2767117

May 28, 2021

info@watchnetinc.com  
www.watchnetinc.com