

### ENTERPRISE CLASS Recording Server Built-in RAID 0/1/5/6/10



EN-644K



64 Channel Ultra HD 4K  
Recording Server  
with hot swappable HDD bays

#### Features:

- High performance Intel processor
- Intel Quad core CPU (2GHz-2.42GHz)
- Memory: 4GB
- Linux Embedded Enterprise Class Recording Server
- High bandwidth up to 384Mbps bitrate
- Max 64 channel IP cameras connection
- 4K compatible up to 12MP resolution preview & playback
- Support 8 built-in HDDs / RAID 0/1/5/6/10
- Max 384Mbps incoming bandwidth
- Simultaneous record, playback, live view, archive, or transmission of digital video
- 2 HDMI, 1 VGA
- Network download / USB HDD / eSATA Device
- 4 USB Ports (2 USB2.0, 2 USB 3.0)
- Fully integrated with WatchNET MPIX line of cameras
- Easy Local GUI & WEB GUI with mouse control
- Smart Phone and Web Access
- ONVIF cameras integration with limited partners
- 4/8 bay HDD expansion storage available
- Supported by eVMS-PRO (Enterprise Class VMS software)

## VMS-PRO

Enterprise Class VMS Solution

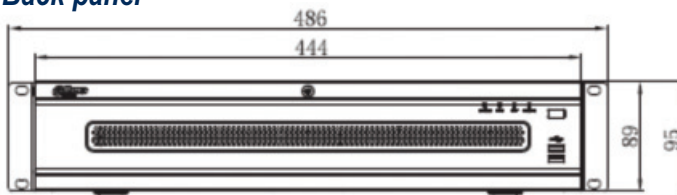


	Recording capacity configurations		
	EN-644K		
	30	15	7
D1	64@2Mb/s	64@2Mb/s	64@2Mb/s
720P	48@4Mb/s	64@2Mb/s	64@2Mb/s
1080P	32@7Mb/s	48@3Mb/s	64@2Mb/s
5M	9@30Mb/s (20fps)	25@10Mb/s	32@5Mb/s

4 X 4K 12 Megapixel Camera Supported



#### Back panel



## PRODUCT OVERVIEW

WatchNET's next generation Recording Server offers unparalleled recording technology for IP video surveillance applications with 8 Hot-swap HDD Bays. The Recording Server is compatible with numerous third-party devices making it the perfect solution for surveillance systems with or without a video management system (VMS). Its open architecture supports multi-user access and is compatible with ONVIF 2.4, enabling interoperability when combined with 4K cameras.

This Recording Server is ideal for a wide range of applications such as Public Safety, Railways, Government Institutions, Resorts, Malls, Transportation and Financial Institutions, where demand expansion flexibility, high reliability and centralized storage management.

For applications where details are critical for identification, this enterprise-level Recording Server provides a powerful Intel processor with up to 4K resolution. Additionally, the Recording Server features excellent operation menu, remote management and control, center storage, edge storage, and back up storage.

## PRODUCT FEATURES:

### **Automatic Network Replenishment Technology**

Video record in SD card in IP cameras when the network breaks down, and after the network recovered, the video will be transferred to Recording Server and then recorded in it.

### **RAID 0/1/5/6/10**

The recorder features with complete RAID 0/1/5/6/10 for faster and safer recording. The RAID feature offers balance between storage performance, storage capacity, and data integrity.

### **Hot Standby (N+M)**

In the event of a system failure, the slave instantly takes over the master ensuring no data is lost. The highly reliable N+M Hot Standby design provides a secure, failover technique ensuring immediate backup.

### **4K Resolution**

Supports 4K ultra HD resolution (3840 x 2160) for recording, live viewing and playback.

### **Intelligent Video System**

The 4K Recording Server has built-in intelligent video analytics which has the ability to detect and analyze moving objects for improved video surveillance. Intelligent Video System also supports Line Detection Tampering analytics, allowing the camera to detect when a pre-determined line has been crossed, People Counting, ideal for business intelligence, and Facial Detection, for searching or identification of individuals. The Recording Server provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects.

### **Heat Map**

The Recording Server's Heat Map option highlights the areas with the highest concentration of people. This information can then be exported into a customized report to assist in business or forensic analysis.

Model	EN-644K	
System	Operating System	Embedded Enhanced LINUX
	Main Processor	Intel Quad core CPU (2GHz-2.42GHz)
	Memory	4GB
Video & Audio	Input	64 channel
	Two-way Talk	Single channel Audio Input, Single channel Audio Output, (RCA)
Display	Interface	2 HDMI 4K (up to 3840x2160), 1 VGA
	OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording
	Multi Screen Display	The 1st screen: 1/4/8/9/16/25/36 / The 2nd screen: 1/4/8/9/16
	Resolution	3840x2160, 1920x1080, 1280x1024, 1280x720, 1024x768
Recording	Recording Mode	Manual, Schedule (Regular, Continuous), MD Video detection: Motion detection, Camera blank, Video loss, Alarm, Stop
	Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec
	Compression	H.264 / MJPEG
	Resolution	12MP, 8MP, 6MP, 5MP, 3MP, 1080p, 1.3MP, 720p & etc.
	Record Rate/Bit Rate	384Mbps / 16Kbps ~ 20Mbps Per Channel
Hard Disk	Hard Disk	8 SATA III ports, Up to 32 TB
	HDD Mode	Single, RAID 0/1/5/6/10 (Enterprise-level HDDs are recommended), Support Global HDD Hot-spare
Network	Interface	2 RJ-45 ports (10/100/1000Mbps)
	Ethernet Port	2 Ethernet ports joint working or 2 independent 1000Mbps Ethernet ports
	Network Function	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search (Support ONVIF, WatchNET IP camera, DVR, NVS and etc.)
	Max. User Access	128 users
	Smart Phone	iPhone, iPad, Android
Playback & Backup	Playback	128Mbps in RAID 5 mode / 64Mbps in single HDD mode
	Search Mode	Time/Date, Alarm, MD & Exact search (accurate to second), Smart search
	Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom
	Backup Mode	USB Device/Network/Internal SATA burner/eSATA Device
Third-party Support	Third-party Support	AXIS, Bosch, Brickcom, Arecont Vision, Canon, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more
Video Detection & Alarm	Trigger Events	Recording, PTZ, Tour, Alarm out, Video Push, Email, FTP, Snapshot, Buzzer & Screen tips
	Alarm Input	16ch, low level effective, green terminal interface
	Relay Output	8ch, Relay contact (1A@24VDC), NO/NC programmable, green terminal interface
	Video Detection	Motion Detection, MD Zones: 396(22x18), Video Loss & Camera Blank
Auxiliary Interface	USB	4 USB Ports (2 USB 2.0, 2 USB 3.0)
	eSATA	1 eSATA Port
	RS232	1 port, for PC communication & keyboard
	RS485	1 port, For PTZ control
General	Power Supply	AC100V~240V, 50~60Hz
	Power Consumption	<40W (Without HDD)
	Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa
	Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH
	Dimension	2U, 444mm x 457.08mm x 95mm (17.5" x 18" x 3.7")
	Net Weight/Gross Weight	9kg (19.8 lb) (without HDD) / 10.5kg (23.1 lb)
	Installation	Rack-mounted

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All product specifications, equipment model and shape on this brochure are subject to change without notice.

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