WR-Series WR14
Network Video Recorders (NVRs)

Wavestore WR14 NVRs deliver an enterprise recording, management and control solution for projects that demand mission-critical reliability.

Typically, at least 64 network cameras can be connected to the NVRs, which are supplied with pre-installed Wavestore's Video Management Software (VMS). Throughput of 300Mbits/ sec is provided, with dual network interfaces to segregate incoming and outgoing network traffic. Ports can be bonded to provide fault tolerance and maintain high-performance at all times.

Housed in a rack mountable 1U case, WR14 NVRs come complete with single or dual power supply options and can accommodate up to 4 x 3.5" hot swappable hard drives to provide up to 40TB of storage. In a typical installation, this can deliver more than 31 days continuous real-time recording from 64 Full HD cameras**.

Choose your Wavestore VMS channel license level

WR14 NVRs are compatible with all four levels of Wavestore's VMS: Base, Premium, Enterprise and Ultimate, which offer a broad range of capabilities and features to ensure the right solution for any given application.

Server Groups

Multiple WR14 NVRs, as well as other Wavestore NVRs and HVRs, can be configured into a server group of up to 255 units* to satisfy large and distributed installations via a single Graphical User Interface (GUI).

Failover

WR14 NVRs are failover ready and can be used to protect your live viewing, recorded data and configuration in the event of hardware failure on a primary NVR. Should this occur, the failover server will automatically take the place of the primary NVR by applying the same configuration and continuing to display and record video, all without any operator intervention. Failover is available at Wavestore VMS Enterprise channel license level and above.

Five-year warranty with onsite support

WR14 NVR's come complete with five-year warranty with global next-day on-site support as standard, provided by Dell, with a 'keep your hard drive' replacement service to ensure sensitive data is retained by the end-customer in the event of a hard drive failure. An optional four-hour response is available in larger metropolitan areas.

Pre-installed with Wavestore Video Management Software (VMS)

Whether you are looking for a video only application using a mix of camera technologies, including 360° fisheye and 4K, or a fully integrated solution with third-party providers for Access Control, Video Analytics, Intruder Detection and more, it is possible to create best-in-breed total security solutions that meet exacting specifications for the end-customer with Wavestore's ONVIF conformant truly open-platform VMS.

Coupled with a flexible and cost-effective license model, additional cameras or functionality can easily be added at a later date without disruption to the existing system. What's more, there's no recurring support contracts to sign up to and technical support is free of charge.

Wavestore's WaveView and WaveView Mobile clients

WaveView is Wavestore's free of cost client software, which delivers an intuitive interface designed to offer full, yet simple, control of total security solutions. Authorised WaveView client devices can simply access individual or grouped Wavestore NVRs to give users full control of their security system.

The WaveView Mobile application adds mobile viewing capability enabling operators to view and control their system from iOS or Android devices.

WaveView's leading search and playback capabilities allow operators to quickly review recorded images via an intuitive play bar, providing instantaneous access to exactly the right image from any point in time from the recorded data, even over large amounts of stored data.

Export of video evidence

In just three mouse clicks, operators can export clips from multiple cameras simultaneously to a variety of file formats or create a storyboard of events with a sequence of cameras, including virtual PTZ control of 360° fisheye cameras. Authentication and encryption of video and audio content are also supported.

* These features are available from the NVR/HVR but are dependent on the Wavestore VMS channel license level to operate. Please check specifications prior to ordering.

** Typical expected figures; please make sure the calculations for your specific camera and site requirements are completed before ordering.

At a glance

Camera channels
Typically 64 IP

Hard drives
Up to 4 x 3.5"

Storage capacity
Up to 48TB

IP throughput
Up to 300Mbits/s

PSU
Single and Dual PSU options

Failover ready*

Next day global on-site support as standard

Optional four-hour response on-site support

Key Features

- Highly secure VMS embedded into the Linux Operating System (OS)
- Up to 4096bit encryption with comprehensive cyber-security package provided as standard
- Fully ONVIF conformant and truly open-platform
- Compatible with the world's leading camera brands and video formats
- Compatible with a wide range of camera technology including UHD, 4K, HD, 360° fisheye, panoramic, thermal, HD over analogue and analogue
- Comprehensive third-party integration capability across Intelligent Video Analytics, Access Control, Intruder Detection and other technologies*
- Five-year warranty with global next day on-site support, provided by Dell
- Optional four-hour on-site support for mission critical installations

TECHNICAL SPECIFICATION	WR14
Channels & throughput	
Typical no. IP channels	64
Typical no. audio channels	64
Max. built-in analogue channels	-
Max. IP throughput	300Mbits/sec
Compression formats	H.265, H.264, MJPEG, MPEG-4, MxPEG and JPEG2000
Typical video storage rate	600 FPS
Operation	
Operating system	Linux (VMS embedded)
Operating system drive	Data Partition (S) M2 SSD (D)
CPU	Intel Xeon E-2124 (S) Intel Xeon E-2136 (D)
RAM	16GB DDR4 ECC
Graphics card	On-board
Connectivity	
Network interfaces	2 x Gb NIC
USB ports	2 x USB 2.0 2 x USB 3.0
Monitor outputs	VGA
Alarm I/O module	Optional
Keyboard and mouse	Yes (not supplied)
Wavestore VMS	
Pre-installed with Wavestore's VMS	Yes
Wavestore VMS channel license compatibility	All levels
VMS configuration restore points	Yes
Multicast support	Yes
Automatic camera discovery and camera group set-up	Yes
WaveView Client	
Local client use	Setup only
Remote client use	Yes
WaveView Mobile compatible	Yes

TECHNICAL SPECIFICATION	WR14
Storage and Hard Drives (HDDs)	
Max. number of HDDs	3 x 3.5" (S) 4 x 3.5" (D)
Min. internal storage	8TB
Max. internal storage	36TB (S) 48TB (D)
HDD type	Enterprise grade
Hot swap HDD bays	Yes
EcoStore™ HDD spin-down compatible*	-
Redundancy	
RAID	Dual PSU models only
Dual PSU	Selected models
Failover compatible*	Yes
Physical	
Form factor	1U rackmount
Dimensions (D x W x H)	551mm x 483mm x 45mm (S) 728mm x 483mm x 45mm (D)
Weight (with 1 HDD fitted)	9kg (approx.) (S) 11Kg (approx.) (D)
Weight (each additional HDD)	Approx. 750g
Operating temperature range	5°C to 40°C 41°F to 104°F
Operating relative humidity (non-condensing)	10% - 80%
Power	
Power input	100-240v AC 50/60Hz
Power consumption with 1HDD	80W typical
Power consumption (each additional HDD)	9W typical
Warranty	
Standard warranty	5-year on-site (standard) 4-hour on-site (option)
Extended warranty	-

(S) - Single PSU version
(D) - Dual PSU version

Channel licenses sold separately

Popular configurations:

WR14-8GD1-NR-2G-NA-S11	1U rack-mount NVR, 8TB storage, single PSU, 5-year warranty with next business day on-site support
WR14-8GD1-NR-2G-NA-D11	1U rack-mount NVR, 8TB storage, dual PSU, 5-year warranty with next business day on-site support
WR14-48GD4-NR-2G-NA-D11	1U rack-mount NVR, 40TB storage, dual PSU, 5-year warranty with next business day on-site support

Rear Panel Connections:
- VGA monitor connection (for set-up only)
- Network interface Ports 0,1
- 2 x 3.0 USB ports
- Single (S) or Dual (D) mains input, depending on version
- 1 x 2.0 USB ports (front panel)

Build your WR14 NVR:

Series	Form Factor	Max No. of HDDs	Storage fitted (TB)	Drive type fitted	No. of HDDs fitted	RAID ports	No. of NICs	Analogue channels	Power supply	CPU options	Graphics options
WR	1 (1U)	4	From 8TB to 48TB in multiples of 8TB or 12TB	GD (Enterprise grade)	1 to 4	NR (None)	2G (2)	NA (none)	S (single) D (dual)	1 (standard)	1 (standard)