

WR-Series WR214 Network Video Recorders (NVRs)

Wavestone WR214 NVRs deliver an enterprise recording, management and control solution for large size projects that demand mission-critical reliability.



Up to 254 network IP cameras can be connected to the NVRs, which are supplied with pre-installed Wavestone's Video Management Software (VMS). Throughput of 1200Mbps/sec is provided, with 4 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 2U case, WR214 NVRs come complete with dual power supply as standard and can accommodate 4 internal, and up to 10 x 3.5" hot swappable, hard drives to provide up to 168TB of storage. In a typical installation, this can deliver more than 31 days continuous real-time recording from 254 Full HD cameras with RAID5 redundancy**.

Choose your Wavestone VMS channel license level

WR214 NVRs are compatible with all four levels of Wavestone'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 WR214 NVRs, as well as other Wavestone 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

WR214 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 Wavestone VMS Enterprise channel license level and above.

Five-year warranty with onsite support

WR214 NVRs 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 Wavestone 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 Wavestone'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.

Wavestone's WaveView and WaveView Mobile clients

WaveView is Wavestone'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 Wavestone 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 Wavestone 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

Up to 254 IP

Hard drives

Up to 14 x 3.5"

Storage capacity

Up to 168TB

IP throughput

Up to 1200Mbps/s

PSU

Dual PSU as standard

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	WR214
Channels & throughput	
Max. no of IP camera channels	254
Max. no of audio channels	254
Max. built-in analogue channels	-
Max. IP throughput	1200Mbps/sec
Compression formats	H.265, H.264, MJPEG, MPEG-4, MxPEG and JPEG2000
Typical video storage rate	1200 FPS
Operation	
Operating system	Linux (VMS embedded)
Operating system drive	M2 SSD
CPU	Intel Xeon Silver 4210
RAM	16GB DDR4 ECC
Graphics card	On-board
Connectivity	
Network interfaces	4 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	WR214
Storage and Hard Drives (HDDs)	
Max. number of HDDs	14
Min. internal storage	32TB
Max. internal storage	168TB
HDD type	Enterprise grade
Hot swap HDD bays	Yes (10)
EcoStore™ HDD spin-down compatible*	-
Redundancy	
RAID*	MegaRAID (RAID5/6, N+1/2)
Dual PSU	Yes
Failover compatible*	Yes
Physical	
Form factor	2U rackmount
Dimensions (D x W x H)	708mm x 483mm x 90mm
Weight (with 1 HDD fitted)	22kg (approx.)
Weight (each additional HDD)	Approx. 750g
Operating temperature range	10°C to 35°C 50°F to 95°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	-

Channel licenses sold separately

Popular configurations:

- WR214-32GD4-R40-4G-NA-D11**
- WR214-72GD6-R40-4G-NA-D11**
- WR214-168GD14-R40-4G-NA-D11**

2U rack-mount NVR, 32TB storage, RAID, dual PSU, 5-year warranty with next business day on-site support
 2U rack-mount NVR, 72TB storage, RAID, dual PSU, 5-year warranty with next business day on-site support
 2U rack-mount NVR, 168TB storage, RAID, 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 0,1,2,3
- 2 x 3.0 USB ports

- Dual mains input
- 2 x 2.0 USB ports (front panel)
- VGA monitor connection (front panel, not used)

Build your WR214 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	2 (2U)	14	From 32TB to 168TB in multiples of 8TB or 12TB	GD (Enterprise grade)	4 to 14	R40 (4 int. 0ext.)	4G (4)	NA (none)	D (dual)	1 (standard)	1 (standard)