



The Wavesys's standalone Network video recorder is a rack mounted all in one solution for recording and live monitoring of the IP cctv cameras Upto 64 cameras. This shall be designed for small and medium sized deployments with recording capacity Upto 80 TB. NVR has pre-installed VMS licenses and equipped with plug & Play feature. NVR supports automatic camera search and smart camera configuration feature.

Wavesys NVR is an open platform solution which support numbers of Onvif compliance video inputs. NVR supports the recording resolution & Monitoring Upto 4K resolution.

Additionally, the NVR Support edge analytics, audio input and output, hardware alarm input/output. NVR has smart adaptive badthwidth management feature along with redundancy feature Upto RAID 10 level. NVR has Upto hard slot with support 10 TB per slot for long time storage.

NVR has multi viewing GUI Upto 64 cameras on a single monitor. NVR support 10 dependent client on the same time, also recording search and live monitoring support simultaneously. NVR support smart Wave CMS/VMS for remote viewing as well combination of multiple NVR on a single location.

Features

- Features support Upto 16/32/64 Cameras
- Rack mounted 2U/3U chaises
- Real time live view & recording Upto 4K resolution
- Support multi resolution cameras 2MP/5MP/4k
- Smart search for multi brand Onvif IP cameras
- Support smart client side dewarping feature for 360-degree cameras
- Support H.265 /H.264/MJPEG Video compression
- Badthwidth throughput Upto 550Mbps.
- All channel synchronous real time playback, GRID interface & smart search
Support Multi- brand network cameras.
- HDMI/VGA simultaneous video output
- Support Upto 8 SATA HDD Upto 80TB
- Dual USB2.0 port
- Smart/Intelligence Search, Alarm Input/output & Audio support.
- Multiple network monitoring: Web viewer, Wave CMS/VMS, Smart Phone & 3rd party VMS support.



Technical Specifications:

		16 Channel	32 Channel	64 Channel
Model	W-N1664 Series	W-N1604	W-N3208	W-N6408
Specification	Specification Name	Minimum Specs		
TYPE	Type of Recording Device	Standalone NVR		
	Operating System	Embedded Linux system		
	IP Camera Support	Yes		
	PTZ Camera control Support	Yes		
	Mounting	3U, Rack Mounted		
	Capability of Recorder to Work with Other Makes of CCTV Cameras (ONVIF support)	Onvif Support		
VIDEO	Number of Video Input Channels	16 Ch. Input	32 Ch. Input	64 Ch. Input
	Recording Resolution	8MP/5MP/3MP/1080P/1600×1200/720P/640×480, D1		
	Video compression	H.264, H.265 & Mjpeg		
	Maximum Number of cameras to be viewed on a single display	16 Cameras	32 Cameras	64 Cameras
	Recording Speed for all channels (fps)	Upto 30 FPS each channel		
	Minimum Through put (Mbps)	250Mbps	550Mbps	550Mbps
	Display Image Rate	Real time per channel		
	Video display split	1/4/8/16	1/4/8/16	1/4/8/16/32
AUDIO	Audio Support	Yes		
	Audio Output	1 output		
	Audio Compression	G.726, G.711, G.722.1, A- Law, U-Law, MP2L2		
	Minimum Number of Simultaneous Channels for Two-way Audio Support	1		
SECURITY	Type of Encryption	HTTPS (SSL/TSL), HTTP (SSL/TSL)		

	Multi-Level User ID / Password	Yes
NETWORK PROTOCOLS / INTERFACE / OPERATING SYSTEM	Alarm Input	Yes
	Alarm Output	Yes
	Pre / Post Alarm Buffer	Yes
	Pre-Alarm Recording	Yes
	Operating System Supported	Linux
	Supported Network Protocols	TCP/IP, UDP, DHCP, DNS, NTP, DDNS, PPPOE, FTP, UPNP, multicast, NAS
	Supported Interface	Supports 1 ch. HDMI and 1 ch VGA output, with HDMI1 up to 4K(3840×1080P/60Hz) resolution
	USB ports	2 USB Ports
	Physical Layer of Ethernet	2 X 10/100/1000 Base TX self-adaptive
	Raid Support	Upto Raid 10
	Number of Serial Ports	Yes
	On Screen Display (In English)	Yes
	Drivers / Compatible Software (Wherever Applicable) Part Of Supply	Yes
	Recording schedule support	Yes
	Bandwidth Control	Yes
	Camera Notification	SMS, E-mail
Network transmission Speed	Real time display @ D1 resolution	
PLAYBACK / VIEW / MANAGEMENT	Search	Date, Time
	Bookmarks	Forward, Backward, adjustable playback speed, Full screen, Next Camera, Previous camera, Repeat.
	Page preview	Multi Monitor Support, Video Window

	Total Management	Group add, Delete, Group management		
	Camera	Add, Edit, Delete		
STORAGE	Internal Hard Drive Interface	SATAIII		
	Number of Hard Disks ports	4 sata port	8 sata port	8 sata port
	Support Storage Capacity of each Hard Disk (TB)	Upto 10 TB each HDD support		
	Internal Storage Expandable Upto (TB)	40 TB	80 TB	80 TB
POWER SUPPLY	Power Input	100 ~ 240 VAC, 6.3 A, 50 ~ 60 Hz		
	Power Consumption	30W without HDD	45W without HDD	45 W without HDD
OPERATING CONDITIONS	Operating Temperature	below 5°C ~ above 45°C		
	Relative Humidity	10% ~ 90% (non-condensing)		
Remote Viewing	Support CMS & VMS	Support WCMS/WVMS software		
	Basic feature CMS/VMS feature for remote client			
	The remote live & Playback play back system shall support intelligent search tool.	Yes		
	The remote playback system shall support video enhancement function to filter the visibility, sharpen, brightness, contrast, and grey scale on recorded video to give user a better display.	Yes		

	The system shall be able to connect and send alarm message to a central management system.	Yes
	The system shall allow user to drag the indicators representing the devices (including IP cameras, I/O devices and POS) on to the map, arrange the location of the indicators on map, and rotate the direction of the indicators.	Yes
	The indicators that representing the devices shall turn red when motion or digital input event is detected by camera.	Yes
	The system shall support various image formats for E-map- BMP, JPEG, GIF, PNG, TIFF.	Yes
	The system shall support multiple E-maps layers.	Yes
Certification	CE, FCC, ROHS, BIS	