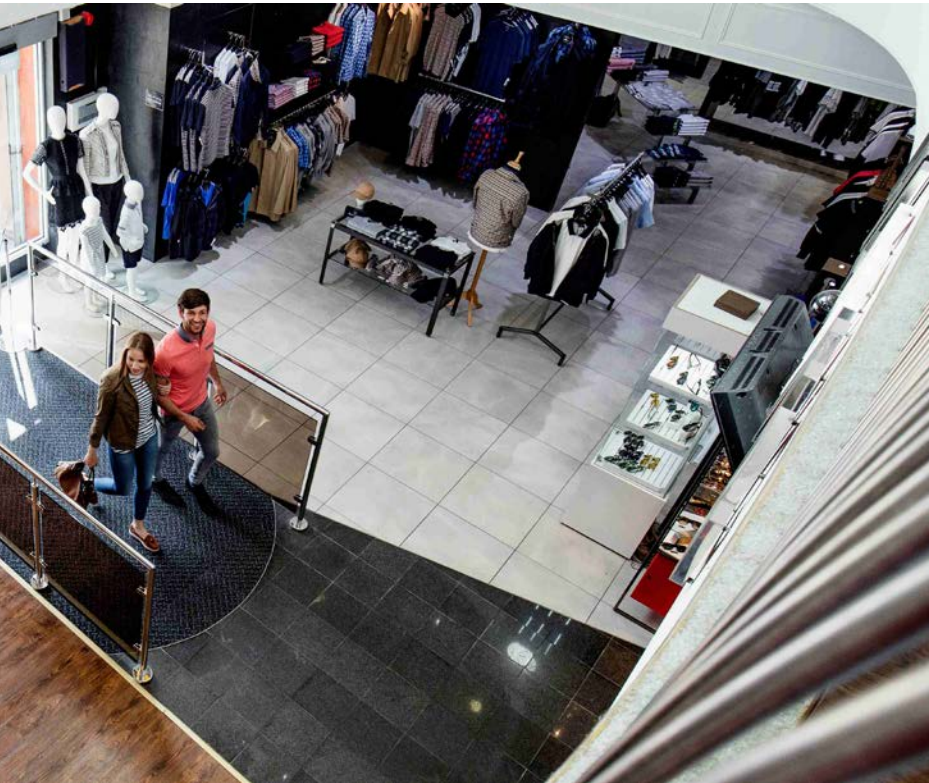




# 8CH/16CH High Performance Network Video Recorder



## Features That Make a Difference

### Video

- H.265+/ H.265/H.264/H.264+ video formats
- Connectable to the third-party network cameras
- Up to 16 IP cameras can be connected
- Recording at up to 8 MP resolution
- Supports live view, storage, and playback of the connected camera at up to 8 MP resolution
- HDMI and VGA independent outputs
- HDMI Video output at up to 4K (3840 × 2160) resolution

### Storage

- 2 SATA interfaces connectable for recording and backup
- H.265+/ H.265 reduces bandwidth and storage requirements while still delivering superb image and audio quality

### Interface

- 1 self-adaptive 10/100/1000 Mbps network interface

## Central Management Application

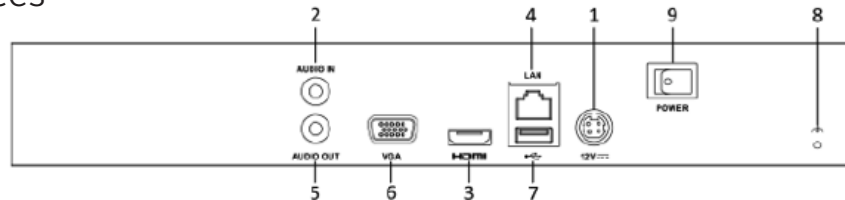
- Centralized management of IP cameras, including configuration, information import/export, real time information display, two-way audio, upgrade, etc.
- Connectable to smart IP cameras from Tyco and the recording, playing back, and backing up of VCA alarms can be realized
- VCA detection alarm is supported
- Instant playback for assigned channel during multi-channel display mode
- Smart search for the selected area in the video; and smart playback to improve the playback efficiency

## Specifications

	8-ch NVR	16-ch NVR
Video/Audio input		
IP video input	8-ch	16-ch
	Up to 8 MP resolution	
Two-way audio	1-ch, RCA (2.0 Vp-p, 1 k Ω)	
Network		
Incoming bandwidth	80 Mbps	160 Mbps
Outgoing bandwidth	80 Mbps	
Remote connection	128	
Video/ Audio output		
Recording resolution	8MP/6MP/5MP/4MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCIF/ 2CIF/CIF/QCIF	
HDMI output resolution	1-ch, 4K (3840 × 2160)/30Hz, 1920 × 1080p/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz	
VGA output resolution	1-ch, 1920 × 1080p/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz	
Audio output	1-ch, RCA (Linear, 1 KΩ)	
Decoding		
Decoding format	H.265+/H.265/H.264/H.264+/MPEG4	
Live view/Playback resolution	8MP/6MP/5MP/4MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCIF/ 2CIF/CIF/QCIF	
Synchronous playback	8-ch	16-ch
Capability	1-ch @ 8 MP / 4-ch @ 1080p	
Network management		
Network protocols	TCP/IP, DHCP, DNS, DDNS, NTP, SMTP, NFS, iSCSI, UPnP™, HTTPS	
Hard disk		
SATA	2 SATA interfaces	
Capacity	Up to 6TB capacity for each disk	
External interface		
Network interface	1, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface	
USB interface	2 × USB 2.0	
General		
Power supply	12 VDC	
Chassis	1 U	
Power	≤ 40W	
Consumption (without HDD)	≤ 15W	
Working temperature	-10 °C to 55 °C (14 °F to 131 °F)	
Working humidity	10 to 90 %	

Dimensions (W × D × H)	385 × 315 × 52 mm (15.2" × 12.4" × 2.0")
Weight (without HDD)	≤ 1.8 kg (4.0 lb)
<b>Certification</b>	
CE, FCC, BIS	

## Physical Interfaces



Index	Description	Index	Description
1	Power Supply	6	VGA Interface
2	Audio In	7	USB Interface
3	HDMI Interface	8	Ground
4	LAN Network Interface	9	Power Switch
5	Audio Out		

## Ordering Information

	Model Number	Description
NVR	HRN-08022S	HOLIS Lite H.265+/H.265 Embedded NVR, 8-ch, Gig Ethernet, 2 HDD Bays
NVR	HRN-16022S	HOLIS Lite H.265+/H.265 Embedded NVR, 16-ch, Gig Ethernet, 2 HDD Bays

## About Johnson Controls

Johnson Controls is a global diversified technology and multi-industrial leader serving a wide range of customers in more than 150 countries. Our 120,000 employees create intelligent buildings, efficient energy solutions, integrated infrastructure and next generation transportation systems that work seamlessly together to deliver on the promise of smart cities and communities. Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat.

For additional information, please visit [www.hollisnvr.com](http://www.hollisnvr.com)