

- **HO-NVR16F16P-MH2L-4K | 16 channel IP recorder up to 12MP, 16 PoE ports max 200W, max bandwidth 160Mbps in/256Mbps out**



### Video Input and Transmission

- Adopt stream over TLS encryption technology (enhanced SDK service and RTP over HTTPS protocol) which provides more secure stream transmission service (max. 128 Mbps TLS stream outgoing bandwidth)
- Up to 16-ch cameras can be connected (up to 12 MP)
- Connectable to the third-party network cameras

### Compression and recording

- H.265+ compression effectively reduces the storage space and costs by up to 75%
- Full channel recording at up to 12MP resolution

### HD Video Output

- HDMI and VGA independent outputs provided
- HDMI Video output at up to 4K (3840 × 2160) resolution provided

### Storage and Playback

- Up to 2 SATA interfaces for HDD connection
- 16-ch synchronous playback at up to 1080p resolution
- Important files management
- HDD health monitoring

### Professional and reliable

- New logical and visualized GUI design
- Dual-OS design to ensure high reliability of system running
- ANR technology to enhance the storage reliability when the network is disconnected

### Smart & POS Function

- Supports multiple VCA (Video Content Analytics) events
- Smart search for the selected area in the video; and smart playback to improve the playback efficiency
- Supports VCA search for fire/ship/temperature temperature difference detection triggered video files
- POS information overlay on live view and playback
- POS triggered recording and alarm

### Network & Ethernet Access

- Gigabit Ethernet network interface
- 16 independent PoE network interfaces are provided
- Long distance (100-300 m) network transmission via PoE

## HORUS CAMERA SURVEILLANCE

Horus offers a complete range of professional camera surveillance (IP cameras, IP recorders and accessories). These products contain the most innovative technologies on the market, making them suitable for different security projects (private, SME and industrial installations). With the practical and simple Horus app you can remotely consult live or recorded camera surveillance images. Push notifications on your smartphone or tablet keep you informed in real time.

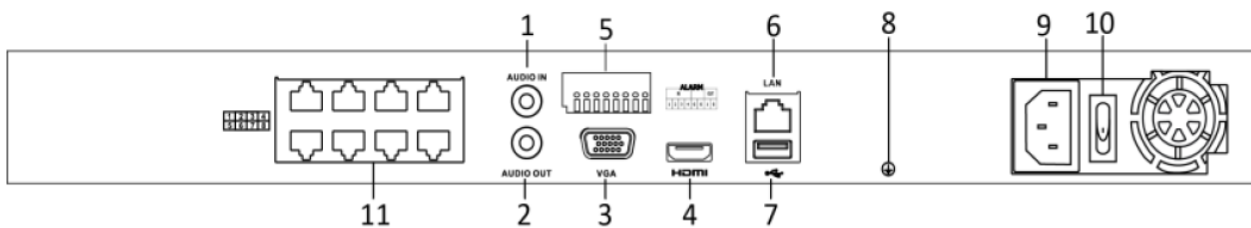
## SPECIFICATIONS

<b>Video/Audio input</b>	
IP video input	16 channel up to 12MP resolution
Two-way audio	1-ch, RCA (2.0 Vp-p, 1 k Ω)
<b>Network</b>	
Incoming bandwidth	160 Mbps
Outgoing bandwidth	256 Mbps
Remote connection	128
Recording resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3MP/1080p/UXGA/720p /VGA/4CIF /DCIF/2CIF/CIF/ QCIF
CVBS output (Optional)	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480
HDMI output resolution	4K (3840 × 2160)/60Hz, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080p/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz
VGA output resolution	1920 × 1080p/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz
Audio output	1-ch, RCA (Linear, 1 KΩ)
<b>Decoding</b>	
Decoding format	H.265/H.265+/H.264/H.264+/MPEG4
Live view / Playback resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3MP/1080p/UXGA/720p /VGA/4CIF /DCIF/2CIF/CIF/ QCIF
Synchronous playback	16-channel
Capability	2-ch @ 12 MP (20fps) / 4-ch @ 8 MP (25fps) / 8-ch @ 4MP (30fps) / 16-ch @ 1080p (30fps)
<b>Network management</b>	
Network protocols	TCP/IP, DHCP, Hik-Connect, DNS, DDNS, NTP, SADP, SMTP, NFS, iSCSI, UPnP™, HTTPS
<b>Hard disk</b>	
SATA	2 SATA interfaces
Capacity	Up to 8TB capacity for each HDD
<b>External interface</b>	
Network interface	1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
USB interface	Front panel: 1 × USB 2.0; Rear panel: 1 × USB 3.0
Alarm in/out	4/1
<b>PoE Interface</b>	
Interface	16 RJ-45 10/100 Mbps self-adaptive Ethernet interfaces
Power	≤ 200 W
Supported standard	IEEE 802.3 af/at
<b>General</b>	
Power supply	100 to 240 VAC, 50 to 60 Hz
Power	≤ 280 W
Consumption (without hard disk)	≤15 W (without enabling PoE)
Working temperature	-10 °C to 55 °C (14 °F to 131 °F)

### SPECIFICATIONS

Working humidity	10 to 90 %
Dimensions (W × D × H)	385 × 315 × 52 mm (15.2" × 12.4" × 2.0")
Weight (without hard disk)	≤ 3 kg (6.6 lb)

### DIMENSIONS



Index	Description	Index	Description
1	AUDIO IN	7	USB 3.0 Interface
2	AUDIO OUT	8	GND
3	VGA Output (DB9 Connector)	9	100 to 240 VAC power supply Switch
4	HDMI Interface	10	Power Switch
5	Controller Port, Alarm In/Alarm Out	11	16 interfaces with PoE function
6	LAN Interface		