

HXVR-16P102H2



Features and Functions

Key Features

- | Deep learning-based motion detection 2.0 for all analog channels
- | Deep learning-based perimeter protection
- | H.265 Pro+/H.265 Pro/H.265/H.264+/H.264 video compression
- | HDTV/HD/CVI/CVBS/IP video inputs
- | Audio via coaxial cable
- | Up to 12/24-ch IP camera inputs (up to 6 MP)
- | Up to 10 TB capacity per HDD

Compression and Recording

- | H.265 Pro+ video compression improves encoding efficiency, and reduces data storage costs
- | Full channel recording at up to 1080p resolution

Storage and Playback

- | 2 SATA interfaces
- | Smart search for efficient playback
- | Support the third party cloud storage

Smart Function

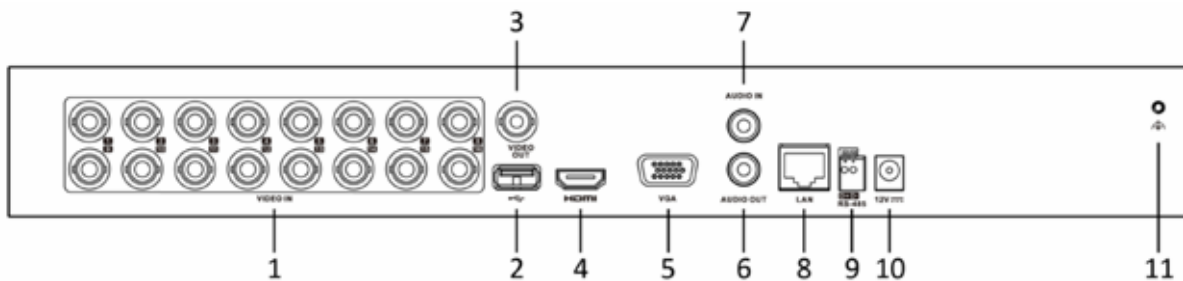
- | Deep learning-based motion detection, and perimeter protection (line crossing and intrusion detection)
- | Support multiple VCA (Video Content Analytics) events for both analog and smart IP cameras

Network & Ethernet Access

- | Compatible with major Wi-Fi dongle products in the market
- | CTR-MAZi & DDNS for easy network management
- | Output bandwidth limit configurable

Model		HXVR-16P102H2
Motion Detection 2.0 ¹	Human/Vehicle Analysis	Deep learning-based motion detection 2.0 is enabled by default for all analog channels, it can classify human and vehicle, and extremely reduce false alarms caused by objects like leaves and lights; Quick search by object or event type is supported
Perimeter Protection ¹	Human/Vehicle Analysis	Up to 4-ch
Recording	Video compression	H.265 Pro+/H.265 Pro/H.265/H.264+/H.264
	Encoding resolution	<i>Main stream:</i> When 1080p Lite mode not enabled: For 4 MP stream access: 4 MP lite@15 fps; 1080p lite/720p/WD1/4CIF/VGA/CIF@25 fps (P)/30 fps (N) For 3 MP stream access: 3 MP/1080p/720p/VGA/WD1/4CIF/CIF@15 fps For 1080p stream access: 1080p/720p@15 fps; VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N) For 720p stream access: 720p/VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N) When 1080p Lite mode enabled: 4 MP lite/3 MP@15 fps; 1080p lite/720p lite/VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N)
	Video bitrate	32 Kbps to 6 Mbps
	Dual stream	Support
	Stream type	Video, Video & Audio
	Audio compression	G.711u
	Audio bitrate	64 Kbps
Video and Audio	IP video input ²	<i>2-ch (up to 18-ch)</i> Enhanced IP mode on: 8-ch (up to 24-ch), each up to 4 Mbps Up to 6 MP resolution Support H.265+/H.265/H.264+/H.264 IP cameras
	Analog video input	<i>16-ch</i> BNC interface (1.0 Vp-p, 75 Ω), supporting coaxitron connection 4 MP, 3 MP, 1080p@30 fps, 1080p@25 fps, 720p@60 fps, 720p@50 fps, 720p@30 fps, 720p@25 fps
	HDTVI input	[The 3 MP signal input is only available for channel 1/2/3/4 of HXVR-16P102H2] 4 MP, 1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps
	AHD input	4 MP, 1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps
	HDCVI input	4 MP, 1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps
	CVBS input	PAL/NTSC
	CVBS output	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480
	HDMI / VGA output	1-ch, 1920 × 1080/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz, HDMI/VGA simultaneous output
	Audio input	1-ch, RCA (2.0 Vp-p, 1 KΩ) 16-ch via coaxial cable
	Audio output	1-ch, RCA (Linear, 1 KΩ)
	Two-way audio	1-ch, RCA (2.0 Vp-p, 1 KΩ) (using the first audio input)
	Synchronous playback	16-ch
Network	Remote connections	128
	Network protocols	TCP/IP, PPPoE, DHCP, CTR-MAZi, DNS, DDNS, NTP, SADP, NFS, iSCSI, UPnP™, HTTPS, ONVIF
	Network interface	1, RJ45 10/100/1000 Mbps self-adaptive Ethernet interface
	Wi-Fi	Connectable to Wi-Fi network by Wi-Fi dongle through USB interface
Auxiliary Interface	SATA	2 SATA interfaces, up to 10 TB capacity for each disk
	Serial interface	RS-485 (half-duplex)
	USB interface	<i>Front panel:</i> 1 × USB 2.0 <i>Rear panel:</i> 1 × USB 3.0
	Alarm in/out	N/A
General	Power supply	12 Vdc, 3.3 A
	Consumption (without HDD)	≤ 40 W
	Working temperature	-10 °C ÷ 55 °C (14 °F ÷ 131 °F)
	Working humidity	10% ÷ 90%
	Dimension (W × D × H)	380 × 320 × 48 mm (15.0 × 12.6 × 1.9 inch)
	Weight (without HDD)	≤ 2 kg (4.4 lb)

- ¹: Motion detection 2.0 and perimeter protection cannot be enabled at the same time. Enable one function will make the other one unavailable.
- ²: Enhanced IP mode might be conflicted with smart events (face picture comparison, motion detection 2.0 and perimeter protection) or other functions, please refer to the user manual for details.



1	Video IN
2	USB interface
3	Video OUT
4	HDMI interface
5	VGA interface
6	Audio OUT, RCA connector

7	Audio IN, RCA connector
8	LAN Network Interface
9	RS-485 serial interface
10	12 Vdc power input
11	GND