

# epcom®

Professional Video Surveillance Solutions

## TURBO HD DVR

16-CH 3K/5MP H.265 AcuSense DVR

EX-5016-TURBO



### KEY FEATURE

- 16 channels and 1 HDD 1U AcuSense DVR
- Support 4-ch Facial Recognition or 8-ch advanced model Perimeter Protection based on DeepLearning algorithm
- Support HDTV1 Two Two-Way Audio technology
- Efficient H.265 pro+ compression technology
- Encoding ability up to 3K/5MP Lite@12fps
- Up to 24 channels IP camera inputs, each channel up to 6MP
- Up to 24\*1080P@30fps decoding ability
- 5 signals input adaptively (HDTV1/AHD/CVI/CVBS/
- Support All channels Motion Detection technology

### COMPRESSION AND RECORDING

- H.265 Pro+ can be enabled to improve encoding efficiency and reduce data storage costs
- Recording at up to 8 MP resolution

### NETWORK & ETHERNET ACCESS

- Support Hik-Connect & DDNS (Dynamic Domain Name System)
- Output bandwidth limit configurable

### SMART FUNCTION

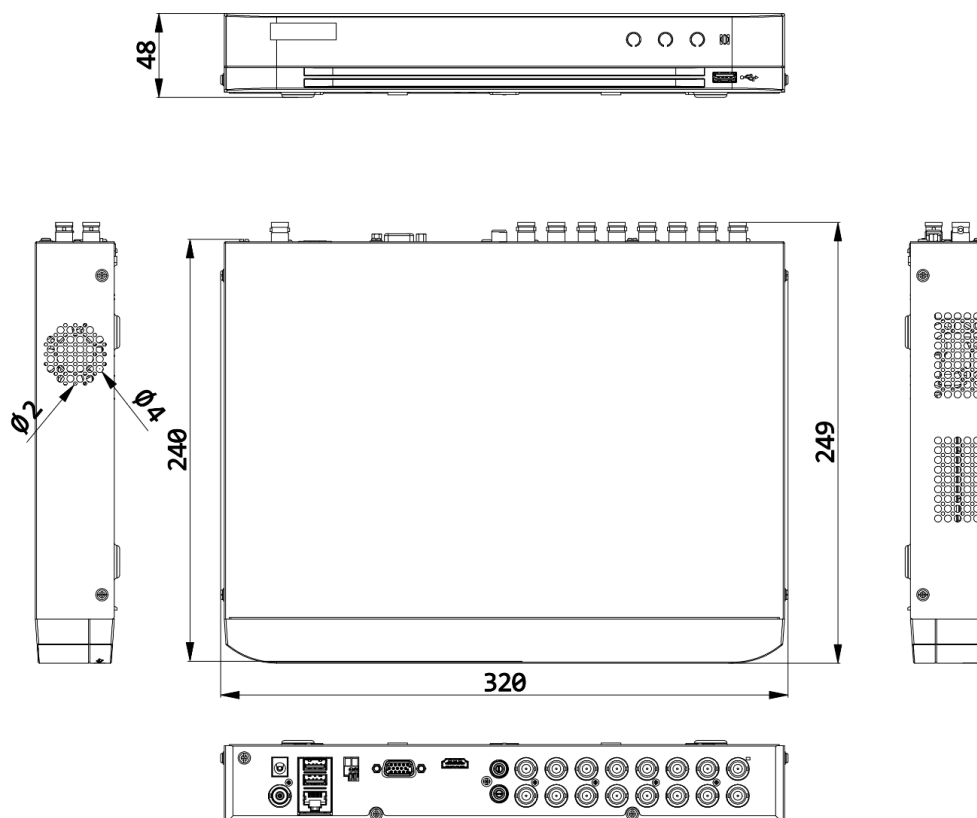
- Up to 16 channels (analog channel) Motion Detection 2.0
- Up to 8 channels (advanced model model, analog channel) Perimeter Protection
- Up to 4 channels (advanced model model, analog channel) human face recognition
- Support smart playback to enhance playback efficiency

## SPECIFICATION

Specification	Description
<b>Facial Recognition</b>	
Face Picture Comparison	Face picture comparison, face picture search (4 ch face picture comparison alarm for HD analog camera)
Face Picture Library	Up to 16 face picture libraries; HDD damage will not cause data loss in the face picture library, because the library has been backed up by HDD and flash.
<b>Motion Detection 2.0</b>	
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.
<b>Perimeter Protection</b>	
Human/Vehicle Analysis	
Up to 8 ch (advanced model)	
Facial Detection	
Facial Detection and Capture	Face picture detection, face picture search 4 ch face picture capture
<b>Recording</b>	
Video Compression	H.265 Pro+/H.265 Pro/H.265/H.264+/H.264
Encoding Resolution	When 1080p Lite mode is not enabled: 3K lite/5 MP lite/4 MP lite/1080p/720p/VGA/WD1/4CIF/CIF; When 1080p Lite mode is enabled: 3K lite/5 MP lite/4 MP lite/1080p lite/720p lite/VGA/WD1/4CIF/CIF
Frame Rate	Main stream: When 1080p Lite mode not enabled: For 3K stream access: 3K lite@12fps; 4 MP lite@15fps; 1080p Lite@20fps; 720p/WD1/4CIF/VGA/CIF@20fps For 5 MP stream access: 5 MP lite@12fps; 4 MP lite@15fps; 1080p Lite@20fps; 720p/WD1/4CIF/VGA/CIF@20fps For 4 MP stream access: 4 MP lite@15fps; 1080p Lite@25fps (P)/30fps (N); 720p/WD1/4CIF/VGA/CIF@25fps (P)/30fps (N) For 1080p stream access: 1080p/720p@15fps; VGA/WD1/4CIF/CIF@25fps (P)/30fps (N) For 720p stream access: 720p/VGA/WD1/4CIF/CIF@25fps (P)/30fps (N) When 1080p Lite mode enabled: 3K lite/5 MP lite@12fps; 4 MP lite@15fps; 1080p lite/720p lite/VGA/WD1/4CIF/CIF@25fps (P)/30fps (N) Sub-stream: WD1/4CIF@12fps; CIF@25fps (P)/30fps (N)
Video Bitrate	32 Kbps to 6 Mbps
Dual-stream	Support
Stream Type	Video, Video & Audio
Audio Compression	G.711u
Audio Bitrate	64 Kbps

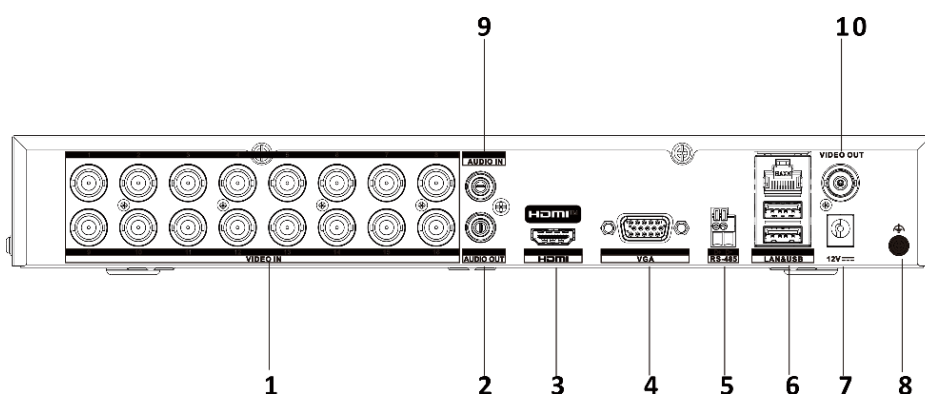
Specification	Description
<b>Video and Audio</b>	
IP Video Input	8-ch (up to 24-ch), each up to 4 Mbps; Up to 6 MP resolution; Support H.265+/H.265/H.264+/H.264 IP cameras
Analog Video Input	16-ch BNC interface (1.0 Vp-p, 75 Ω), supporting coaxitron connection
HDTV Input	3K (2960 x 1665) @20 fps, 5 MP (2560 x 1944) @20 fps, 4 MP (2560 x 1440) @30 fps, 4 MP (2560 x 1440) @25 fps, 1080p @30 fps, 1080p @25 fps, 720p @30 fps, 720p @25 fps
AHD Input	5 MP (2560 x 1944) @20 fps, 4 MP (2560 x 1440) @30 fps, 4 MP (2560 x 1440) @25 fps, 1080p @30 fps, 1080p @25 fps, 720p @30 fps, 720p @25 fps
HDCVI Input	5 MP (2880 x 1620) @25 fps, 5 MP (2592 x 1944) @20 fps, 4 MP (2560 x 1440) @30 fps, 4 MP (2560 x 1440) @25 fps, 1080p @30 fps, 1080p @25 fps, 720p @30 fps, 720p @25 fps
CVBS Input	PAL/NTSC
CVBS Output	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 x 576, NTSC: 704 x 480
HDMI Output	1-ch, 4K (3840 x 2160) / 30Hz, 2K (2560 x 1440) / 60Hz, 1920 x 1080 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, HDMI/VGA simultaneous output
VGA Output	1-ch, 1920 x 1080 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, HDMI/VGA simultaneous output
Audio Input	1-ch (up to 16-ch is optional), 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
<b>Decoding</b>	
Decoding Capability	Up to 24-ch 1080P @ 30fps
<b>Network</b>	
Remote Connection	128
Total Bandwidth	256 Mbps
Network Protocol	TCP/IP, PPPoE, DHCP, Hik-Connect, DNS, DDNS, NTP, SADP, NFS, iSCSI, UPnP™, HTTPS, ONVIF, ISUP
Network Interface	1, RJ45 10/100/1000 Mbps self-adaptive Ethernet interface
<b>Auxiliary Interface</b>	
SATA	1 SATA interface, up to 12 TB capacity for each disk
Serial Interface	RS-485 (half-duplex)
USB Interface	Front panel: 1 × USB 2.0; Rear panel: 2 × USB 3.0
Alarm In/Out	N/A (optional to support)
<b>General</b>	
Power Supply	12 VDC, 2 A
Consumption	≤ 24 W
Working Temperature	-10 °C to 55 °C (14 °F to 131 °F)
Working Humidity	10% to 90%
Dimension (W × D × H)	320 × 240 × 48 mm (12.6 × 9.4 × 1.9 inch)
Weight	≤ 2 kg (4.4 lb)

## DIMENSION



scale/1:1;Unit/mm

## PHYSICAL INTERFACE



Specification	Description	No.	Description
1	Video in	6	LAN network interface and USB interface
2	Audio out	7	12 VDC power input
3	HDMI interface	8	GND
4	VGA interface	9	Audio in
5	RS-485 interface	10	Video out