

## VANGUARD 16x8H

16CH, H.265, 8MP HVR



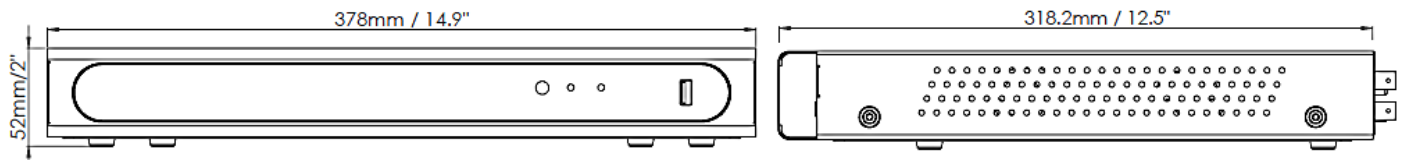
eZ.HD ONVIF



## Features

- Supports hybrid mode:
  - Analog: Up to 16CH 8MP AHD/TVI/CVBS cameras
  - IP: Up to 8CH 8MP IP cameras
- Megapixel resolution over standard coaxial / UTP cable
- Supports H.265 / H.264 compression format
- Supports cloud storage with Dropbox (Snapshot)
- Supports ONVIF 2.0 IP cameras
- Control methods: mouse / IR remote controller
- Remote configuration from built-in web interface
- Supports video analytics
- Integrates with VANGUARD CMS
- Supports multi-language
- Supports mobile App: eFVMS App

## Dimensions



## Specification

Model Name	VANGUARD 16x8H
<b>System</b>	
Operating System	Embedded Linux
Number of Channels	<u>Analog</u> : Up to 16CH 8MP AHD/TVI/CVBS cameras <u>IP</u> : Up to 8CH 8MP IP cameras
RAM	2GB
Watchdog	Supported
Dual Stream	Supported
OSD Menu	Supported
System Control	Mouse, IR remote control
Multiplex Operation	Live display, record, playback, backup and network
PTZ Protocol Supported	Pelco D, Pelco P, UTC1, UTC2

\*All images presented in this document are for example only. Product models may vary in different countries. Please visit EverFocus regional Websites for detailed ordering information.

\*Information contained in this document is subject to change without notice.

Video		
Compression Format	H.265 / H.264	
Video Format	NTSC / PAL	
Video Inputs	<u>Analog</u> : 16 x BNC <u>IP</u> : 8CH 8MP IP cameras	
Video Looping Outputs	Unsupported	
Video Outputs	<u>HDMI/VGA</u> : 1024x768, 1280x720, 1280x1024, 1440x900, 1920x1080 (1080P), 2560x1440 (2K), 3840x2160 (4K, HDMI only)	
IP Bandwidth	Incoming	Max. 64Mbps
	Outgoing	Max. 128Mbps
Live Resolution / Frame Rate	<b>4K Mode:</b> <u>Analog</u> : 8MP: 15fps/CH; 5MP: 20fps/CH; 4MP/3MP/1080P/720P/960H: 30fps/CH <u>IP</u> : 8MP/5MP/4MP/3MP/1080P/720P <b>5MP Mode:</b> <u>Analog</u> : 5MP: 20fps/CH; 4MP/3MP/1080P/720P/960H: 30fps/CH <u>IP</u> : 5MP/4MP/3MP/1080P/720P	
Recording		
Recording Resolution / Frame Rate	<b>4K Mode:</b> <u>Analog</u> : 8MP: 7fps/CH; 5MP: 10fps/CH; 4MP: 15fps/CH; 3MP: 17fps/CH; 1080P: 25fps/CH (PAL); 30fps/CH (NTSC) <u>IP</u> : 8MP: 8fps/CH; 5MP: 10fps/CH; 4MP/3MP/1080P/720P: 25fps/CH (PAL); 30fps/CH (NTSC) <b>5MP Mode:</b> <u>Analog</u> : 5MP: 13fps/CH; 4MP: 16fps/CH; 3MP: 20fps/CH; 1080P: 25fps/CH (PAL); 30fps/CH (NTSC) <u>IP</u> : 5MP: 10fps/CH; 4MP/3MP/1080P/720P: 25fps/CH (PAL); 30fps/CH (NTSC)	
Recording Modes	Continuous/Manual/Motion Detect	
Playback		
Synchronized Playback	16CH	
Playback Performance	<b>4K Mode:</b> <u>Analog</u> : 8MP: 7fps/CH (up to 8CH); 5MP: 10fps/CH (up to 16CH); 4MP: 15fps/CH (up to 16CH); 3MP: 17fps/CH (up to 16CH); 1080P: PAL: 25fps/CH (up to 16CH)/NTSC: 30fps/CH (up to 16CH) <b>5MP Mode:</b> <u>Analog</u> : 5MP: 13fps/CH (up to 16CH); 4MP: 16fps/CH (up to 16CH); 3MP: 20fps/CH (up to 16CH); 1080P: PAL: 25fps/CH (up to 16CH)/NTSC: 30fps/CH (up to 16CH)	
Search Modes	Time, Event, Motion in Recorded Video	
Audio		
Audio Input	16	
Audio Output	1 x RCA	
Alarm		
Alarm Input	16	
Alarm Output	1	
Storage Device		
Internal 3.5" HDD	2 x SATA HDD	
External HDD	1 x e-SATA	
Storage Capacity	8TB/disk	
DVD Burner	Not supported	
Network		
Ethernet	10/100/1000 Ethernet	
Protocol	TCP-IP / DHCP / PPPoE / DDNS / SMTP / NTP	
Interface		
USB	2 x USB2.0 (for mouse and backup/upgrade); 1 x USB3.0	
RS-485	1 x RS-485 (for PTZ Control)	
Ethernet	1 RJ-45	

<b>General</b>	
Power Input	12VDC / 5A
Power Consumption	60W max.
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F (20 ~ 80% humidity)
Dimensions (W x D x H)	378 x 318.2 x 52mm / 14.9" x 12.5" x 2"
Weight (without HDDs)	2.3kg / 5.07lb
Language	English, Japanese, Traditional Chinese, German, Russian, Dutch, Italian
Regulatory	CE, FCC
<b>Functions</b>	
Video Pause	Yes
Video Loss Detection	Yes
Motion Detection	Yes
Event Log	Yes
User Interface	GUI (Graphical User Interface)
Control PTZ via OSD	Yes (via both local and remote interfaces)
Schedule Setting	Yes
User Access	2 Levels of User Access Defined
Video Analytics	Perimeter Intrusion Detection, Line Crossing Detection, Foreign/Missing Object Detection, Pedestrian Detection, Face Detection, Cross-Counting Detection, Sound Detection, Tamper Detection
<b>Remote Client System Minimum Requirement</b>	
Operating System	Win7 (32 and 64-bit) / Win10 (32 and 64-bit)
CPU	Intel Core I3-2100
RAM	2GB
VGA	Intel HD 2000
LAN Speed	10 / 100 / 1000 Mbps (RJ45)
Web Browser	IE11 and later
Other Remote Application	1. EverFocus VANGUARD CMS      2. EverFocus eFVMS (mobile app)

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