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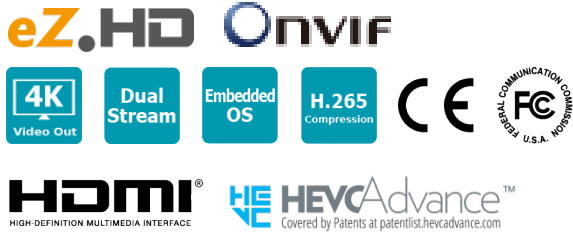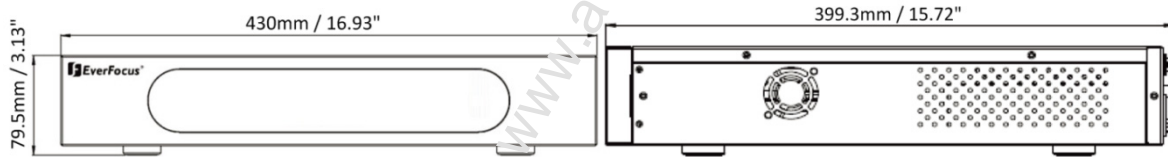
VANGUARD 16x8H Plus

16CH, H.265, 8MP HVR

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 16CH looping outputs

- Supports ONVIF 2.0 IP cameras
- Control methods: mouse / IR remote controller
- Remote configuration from built-in web interface
- Ethernet interface for remote network viewing and control
- Integrates with VANGUARD CMS
- Supports multi-language
- Supports mobile App: VANGUARD App

Dimensions

Specification

Model Name	VANGUARD 16x8H Plus
System	
Operating System	Embedded Linux
Number of Channels	Analog: Up to 16CH 8MP AHD/TVI/CVBS cameras IP: 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

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		16 x BNC
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		**4K Mode:** <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 **5MP Mode:** <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	**4K Mode:** <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) **5MP Mode:** <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	**4K Mode:** <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) **5MP Mode:** <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	4 x SATA HDD
External HDD	1 x e-SATA storage
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

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General	
Power Input	12VDC / 5A (12VDC/8A optional)
Power Consumption	60W max. (5A)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F (20 ~ 80% humidity)
Dimensions (W x D x H)	430 x 399.3 x 79.5mm / 16.93" x 15.72" x 3.13"
Weight (without HDDs)	6kg / 13.2lb
Language	English, Japanese, Traditional Chinese, German, Russian, Dutch, Italian
Regulatory	CE, FCC
Functions	
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
Remote Client System Minimum Requirement	
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 VANGUARD (mobile app)

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