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VANGUARD 16x8H Plus

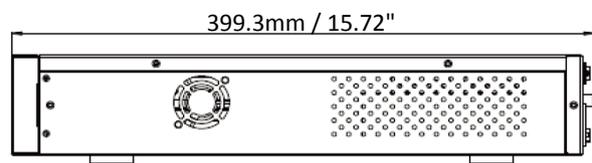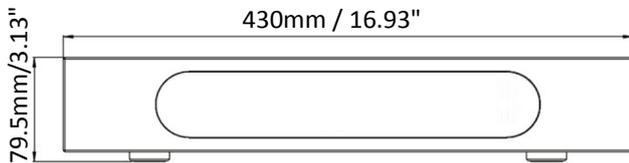16CH, H.265, 8MP HVR

eZ.HD · **ONVIF**

4K Video Out · **Dual Stream** · **Embedded OS** · **H.265 Compression** · CE · FC FEDERAL COMMUNICATION COMMISSION U.S.A.

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE · **HEVC**Advance™ Covered by Patents at patentlist.hevcadvance.com

Features

- Supports hybrid mode:
  <u>Analog:</u> Up to 16CH 8MP AHD/TVI/CVBS cameras
  <u>IP:</u> 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
- Supports video analytics
- Integrates with VANGUARD CMS
- Supports multi-language
- Supports mobile App: eFVMS App

Dimensions

79.5mm/3.13" 430mm / 16.93" 399.3mm / 15.72"

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
Video Analytics	Perimeter Intrusion Detection, Line Crossing Detection, Foreign/Missing Object Detection, Pedestrian Detection, Face Detection, Cross-Counting Detection, Sound Detection, Tamper Detection

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 eFVMS (mobile app)

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