tp-link | VIGI

16 Channel

PoE+ Network Video Recorder

MODEL: VIGI NVR2016H-16MP

H.265+

16 PoE+ Ports | **140W** PoE Budget

4K HDMI Output
Provides Finer Details and Crystal Clarity

Quick Playback
16-Channel Synchronous Playback*

2 SATA Interfaces
Up to 16 TB Capability for Each HDD**

Remote Management
Dedicated VIGI app and PC Client

ONVIF
Comprehensive Compatibility

Overview

VIGI Surveillance Solution

The VIGI network video recorder coordinates with camera systems to help you view, store, and play back videos.

Highlight

16-Channel Live View

Display each surveilled zone in real-time on a single interface for comprehensive control.

16× PoE+ Ports for Simple Deployment

Easily connect and power your PoE camera with one RJ45 cable transmitting both data and power.

4K HDMI Output

Show more details with up to 8MP resolution for one channel and 20MP decoding capacity in total for all channels.

Remote Management

Take full control over your security anytime and anywhere on the VIGI app or PC client.

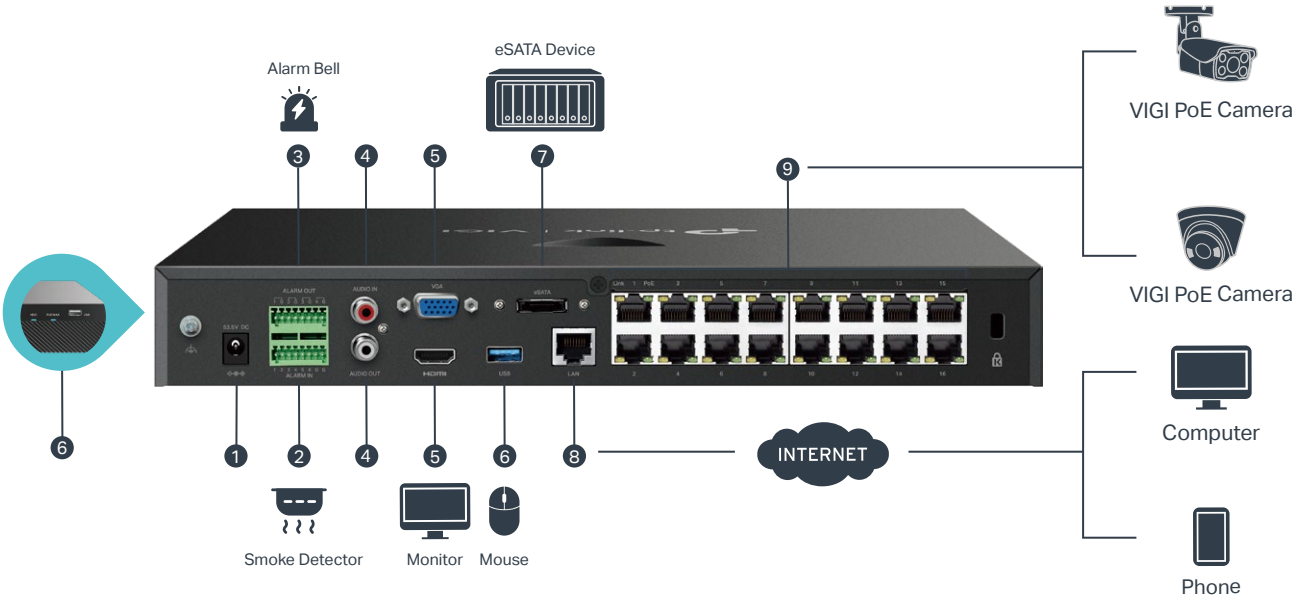
Practical Playback

Find the target footage easily by date, event types, and tags. Replay with variable playback speeds to quickly review footage.

Non-Stop Recording

Stores up to 32 TB of footage from connected cameras to secure your data for quick and convenient access.

Network Topology



1. Power Supply
2. 6× Alarm IN Ports to Connect External Sensors
3. 4× Alarm OUT Ports to Connect Alarm Devices
4. AUDIO IN and AUDIO OUT for Two-Way Audio
5. HDMI and VGA for Video Independent Output
6. 1× USB 3.0 Port (Rear) and 1× USB 2.0 Port (Front) for Mouse and Keyboard Connections
7. 1× eSATA Port to Connect an External Storage Device**
8. 1× 10/100/1000 Mbps LAN Port for Ethernet Connection
9. 16× PoE+ Ports to Connect and Power Your Cameras

†HDD is not included.
‡Some features may operate sub-optimally due to compatibility issues. For best performance, we recommend using VIGI NVR with VIGI cameras.
△A hard disk drive (not included) must be installed for operation.
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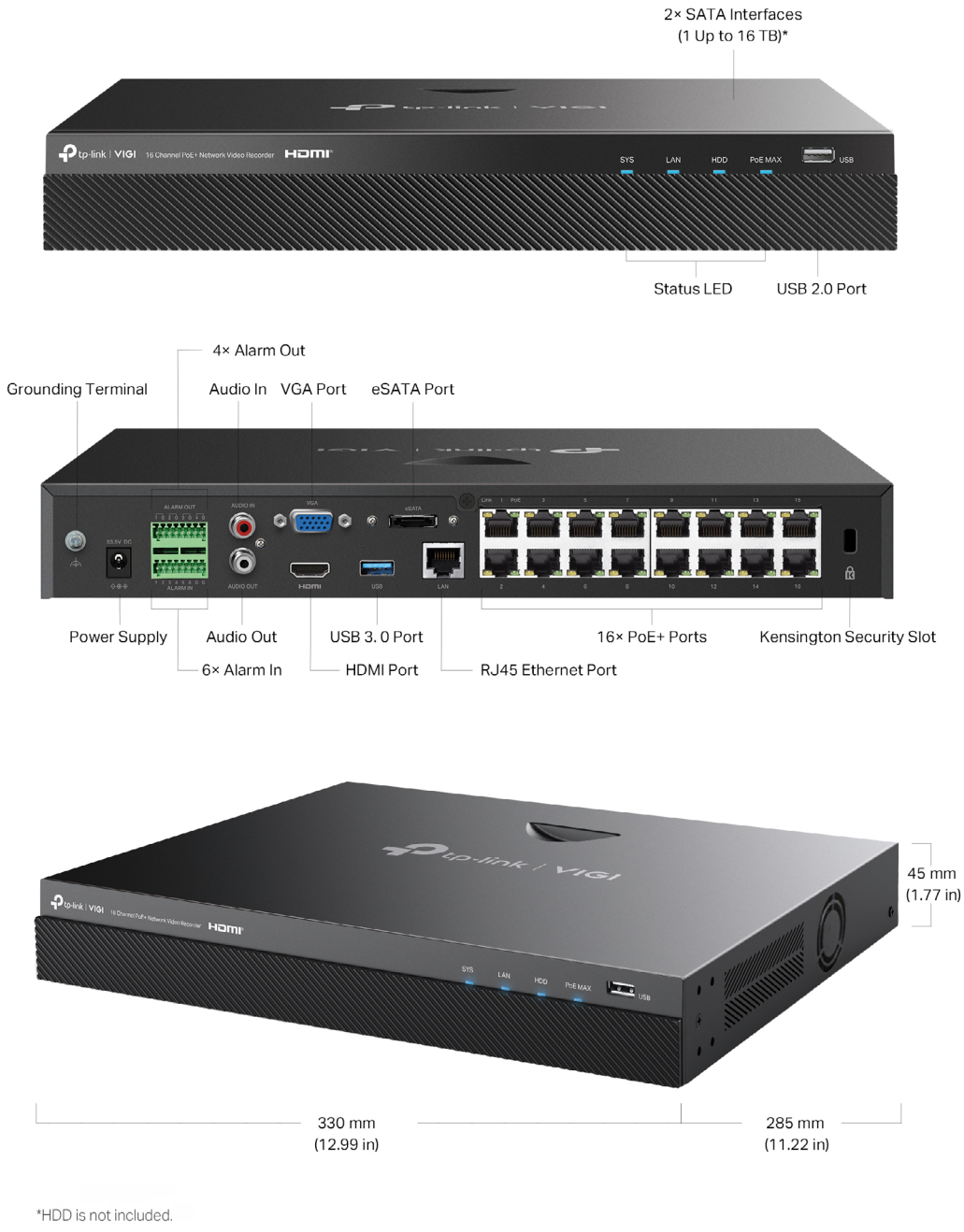
Specifications

NVR	
Product Model	VIGI NVR2016H-16MP
Video and Audio	
IP Video Input	16-Channel
Incoming Bandwidth	320 Mbps
Outgoing Bandwidth	320 Mbps
HDMI Output Resolution	1 Channel, Resolution: 3840x2160/30Hz, 1920x1080/60Hz, 1680x1050/60Hz, 1440x900/60Hz, 1280x1024/60Hz, 1280x720/60Hz
VGA Output Resolution	1 Channel, Resolution: 1920x1080/60Hz, 1680x1050/60Hz, 1440x900/60Hz, 1280x1024/60Hz, 1280x720/60Hz
Video Output Mode	HDMI/VGA Independent Output
Multi-View Display	1/4/6/8/9/16
Decoding	
Audio Compression	G.711A/G.711U/G.726
Video Compression	H.265+/H.265/ H.264+/H.264
Record Resolution	8MP/5MP/4MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Synchronous Playback	16-Channel†
Capability	• 25fps: 10-ch @ 3MP, 16-ch @ 1080P • 30fps: 4-ch @ 8MP, 6-ch @ 5MP, 8-ch @ 4MP
Record Management	
Record Mode	Manual Recording, Scheduling Recording, Motion Detection Recording
Playback Mode	Instant Playback, Rgular Playback, Tag Playback, Event Playback
Backup Mode	Regular Backup, Video Clip Backup
Playback Function	Play, Pause, Stop, Fast Forward, Fast Backward, Play By Frame, Full Screen, Video Clip, Export Clip, Digital Zoom, Lock Recording, Audio On/Off
Network	
Network Protocols	UPnP (Plug and Play), NTP (Network Timing), SMTP, DNS, TCP/IP, UDP, ICMP, HTTP, HTTPS, DHCP, RTSP, SSL/TLS, RTP, IPv4, ARP
Interoperability	ONVIF Profile S, CGI
Mobile Phone Access	Android, iOS
Browser	Chrome (57+), Firefox (52+), Edge (91+), Safari (11+)

PoE	
Interface	1-16, RJ-45 10/100 Mbps Self-Adaptive Ethernet Interface
Power	140[Δ] W Available for All PoE+ Ports, 30 W Max per Port
Standard	802.3at/af Compliant
External Interface	
Network Interface	1, RJ-45 10/100/1000 Mbps Self-Adaptive Ethernet Interface
USB Interface	1 Front USB 2.0 Port, 1 Rear USB 3.0 Port
Audio Interface	1-ch RCA Input; 1-ch RCA Output
Alarm In/Out	6/4
Serial Interface	N/A
Power	1× DC Jack
Reset Button	1
Speaker	N/A
eSATA	1*
HDMI	1
VGA	1
Hard Disk	
SATA	2 SATA Interfaces
Capacity	Up to 16 TB Capacity for Each HDD*
Alarm	
General Alarm	• Motion Detection • Video Tampering • Scene Change Detection • Line-Crossing Detection • Intrusion Detection • Region Entering Detection • Region Exiting Detection • Loitering Detection • Object Abandoned/Removal Detection • Vehicle Detection • Human Detection • Abnormal Sound Detection • Smart Frame Note: The alarm function requires the use of a camera.
Anomaly Alarm	• Video Loss • Offline and IP Conflict • Disk Exception • Login Exception • Fan Exception Note: The alarm function requires the use of a camera.
Alarm Linkage	• Recording • White Light Alarm • Buzzer • Log • Audible Alarm Note: The alarm function requires the use of a camera.

General	
Package Contents	• VIGI Network Video Recorder • Power Adapter • Power Cables • HDD Power Cables • HDD Data Cables • Mounting Accessories • Mouse • Quick Installation Guide
Power Supply	DC 53.5V/3.37A
Max Power Consumption (Without Disk)	6.2 W
Max Power Consumption (With Disk)	40W
Working Temperature	• NVR: -10–55 °C • Power Adapter: 0–40 °C
Storage Temperature	-40-70 °C
Working Humidity	10%~90% RH Non-Condensing
Storage Humidity	10%~90% RH Non-Condensing
Product Dimensions (W × D × H)	13.0 × 11.2 × 1.8 in (330 × 285 × 45 mm)
Net Weight	2.2 Kg#
Gross Weight	4.2 Kg#
Certification	CE, NTRA, BSMI, VCCI, FCC, HDMI, ONVIF

Build Features



*HDD is not included.

Security Standards Compliance

All VIGI products are fully compliant with the following security and safety standards:

EN 55032:2015 + A11:2020
EN 55035:2017 + A11:2020
EN IEC 61000-3-2:2019 + A1:2021
EN 61000-3-3:2013 + A2:2021
EN IEC 61000-6-3:2021 + AC:2022-01
EN IEC 61000-6-1:2019
EN 50130-4:2011 + A1:2014
EN 62368-1:2014 + A11:2017
EN IEC 63000:2018
(EU) 2023/826

[△]Calculations are based on laboratory testing. Actual data is not guaranteed and will vary as a result of client limitations and environmental factors.
*A hard disk drive (not included) must be installed for operation.
[†]The number of simultaneously playable channels may be fewer than 16, or none, if the total resolution exceeds 32MP.
[‡]This model currently supports ONVIF Profile S.
[#]Due to the weight of this model, it is recommended to use a tray when mounting the rack with angle iron. Please note that the tray is not included.