



16 Channel PoE+ Network Video Recorder

MODEL: VIGI NVR2016H-16MP/VIGI NVR2016H-16MP-4TB



H.265+

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



2 SATA Interfaces
Up to 16 TB for Each HDD



Remote Management
Dedicated VIGI app



Smart Detection
Configuration for Better Monitoring*



Two-Way Audio
Listen and Talk in Real Time



Quick Playback
Support for 16-Channel Synchronous Playback



Onvif
Promises Comprehensive Compatibility

Overview

VIGI Surveillance Solution

The VIGI professional surveillance system by TP-Link is dedicated to protecting the business that you've worked hard to build—whenever, wherever. Our outstanding functions, reliable quality guarantees, and simplified installation work together to ensure your business stays safe and sound.

Highlight



16-Channel Live View

Ensure a real-time display of every monitored area on one screen and take everything under your control.



16× PoE+ Ports for Simple Deployment

Easily connect and power your PoE camera with one RJ45 cable transmitting both data and power. No power adapter needed.



4K Video Output

Show more details with up to 8MP resolution for one channel and 16MP decoding capacity in total for all channels



Easy Management

Seamlessly manage the NVR and connected cameras via the web UI, NVR UI, VIGI app, and VIGI Security Manager. Customize the management systems to suit your specific needs.



Practical Playback

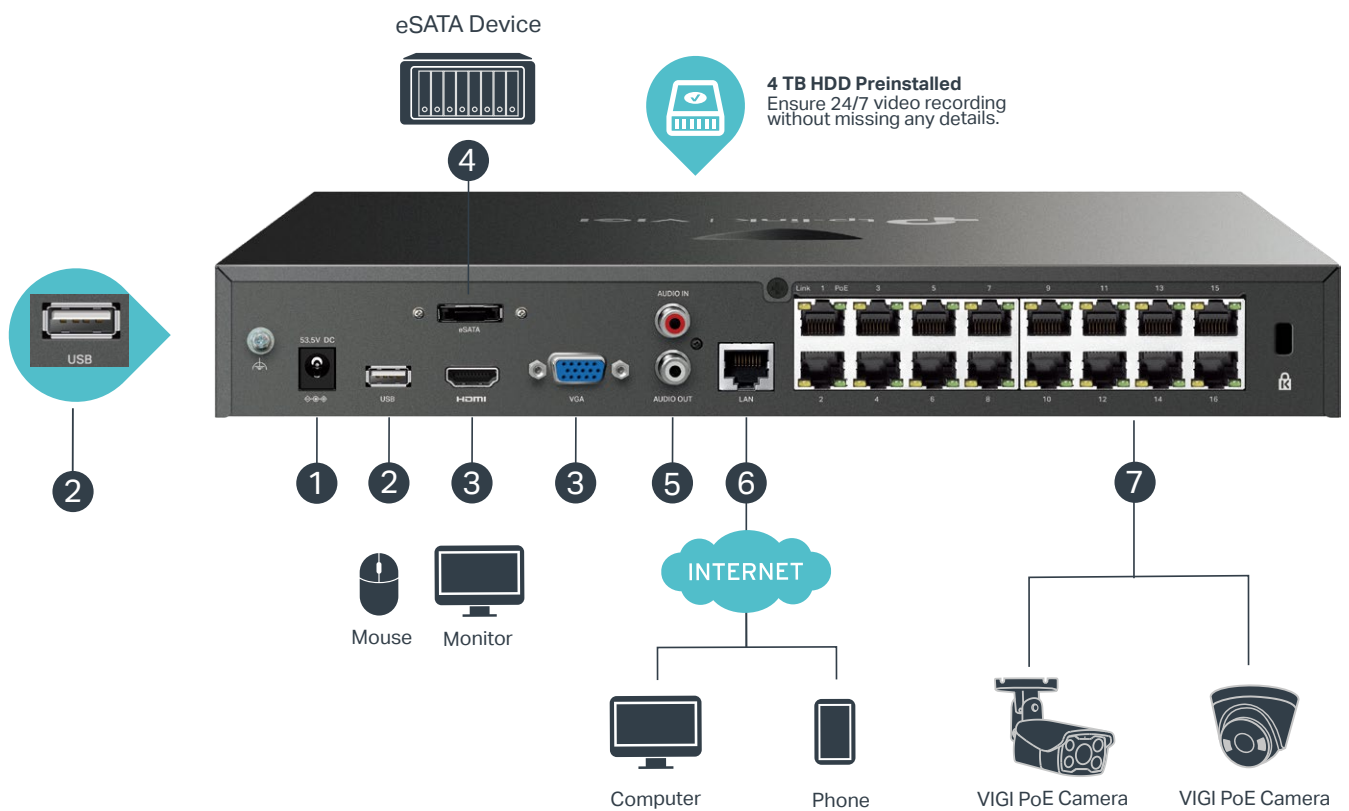
Find the target footage easily by date, event types, and tags. Replay with variable playback speeds to quickly review footage.



Mass Storage

2 SATA interfaces (up to 16 TB per each HDD) ensure to store and secure your data for quick, convenient access.

Network Topology



1. Power Supply
2. Two USB Ports for Mouse, Keyboard, or Mobile Hard Disk Connection[^]
3. HDMI and VGA Ports for Video Output
4. eSATA interface for eSATA device
5. AUDIO IN and AUDIO OUT for Two-Way Audio
6. LAN Port for Ethernet Connection
7. PoE ports for PoE cameras

[†]For VIGI NVR2016H-16MP, HDD is not included. but VIGI NVR2016H-16MP-4TB has a built-in HDD.

^{*}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.

Specifications

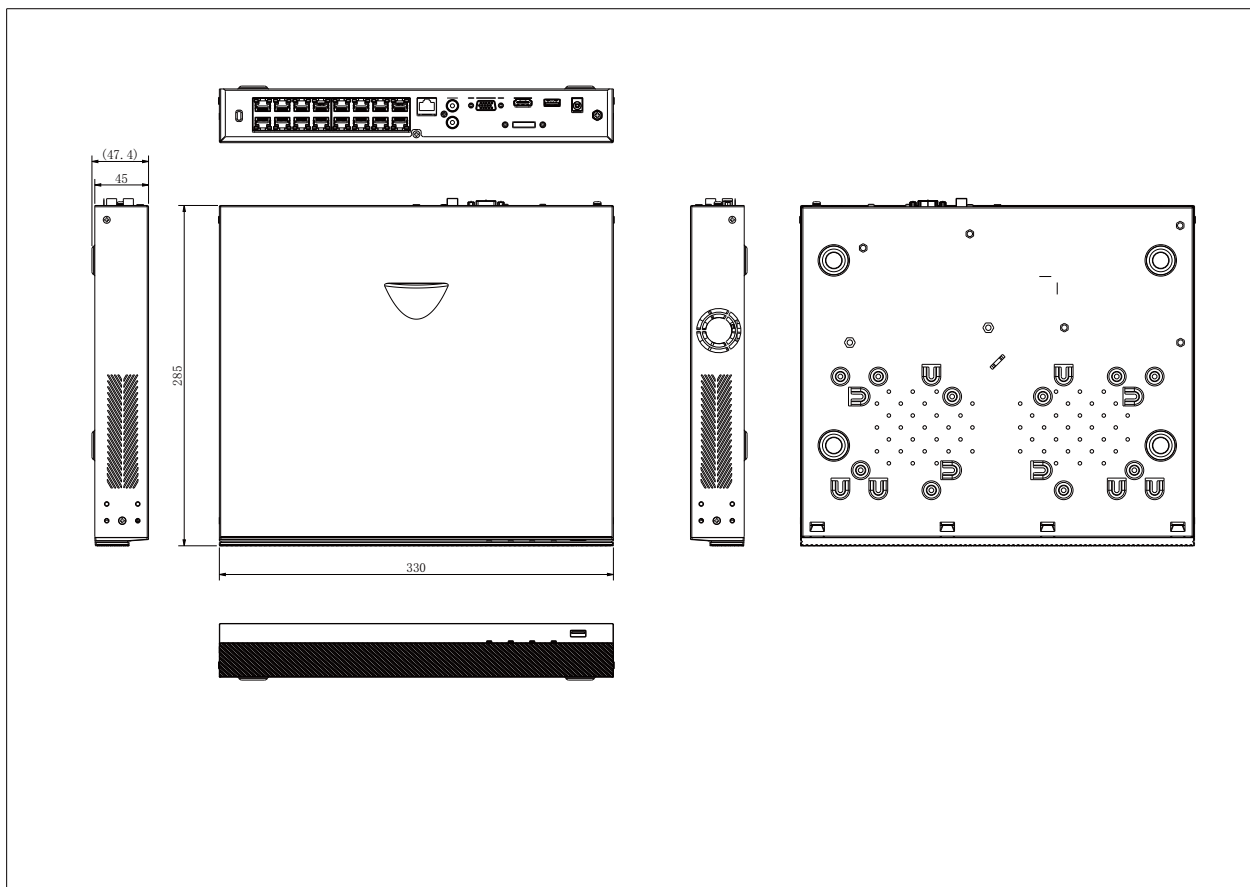
| NVR | |
|------------------------|---|
| Product Model | VIGI NVR2016H-16MP/VIGI NVR2016H-16MP-4TB |
| Video and Audio | |
| IP Video Input | 16-Channel |
| Incoming Bandwidth | 80 Mbps |
| Outgoing Bandwidth | 60 Mbps |
| HDMI Output Resolution | 1 Channel, Resolution: 3840x2160/30Hz, 1920x1080/60Hz, 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 Simultaneous 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: 2-ch @ 8MP, 4-ch @ 4MP, 8-ch @ 2MP 30fps: 4-ch @ 3MP, 2-ch @ 5MP |
| Record Management | |
| Record Mode | Manual Recording, Scheduling Recording, Motion Detection Recording |
| Playback Mode | Instant Playback, Regular 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 | |
| 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+) |

| PoE | |
|--------------------|--|
| Interface | 1-16, RJ-45 10/100 Mbps Self-Adaptive Ethernet Interface |
| Power | 140 W ^a 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 2.0 Port |
| Audio Interface | 1-inch RCA Input; 1-inch RCA Output |
| Alarm In/Out | N/A |
| 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* 1 × 4TB HDD Preinstalled (For VIGI NVR2016H-16MP-4TB) |
| Alarm | |
| General Alarm | <ul style="list-style-type: none"> • 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 <p>Note: The alarm function requires the use of a camera.</p> |
| Anomaly Alarm | <ul style="list-style-type: none"> • Video Loss • Offline and IP Conflict • Disk Exception • Login Exception • Fan Exception <p>Note: The alarm function requires the use of a camera.</p> |
| Alarm Linkage | <ul style="list-style-type: none"> • Recording • White Light Alarm • Buzzer • Log • Audible Alarm <p>Note: The alarm function requires the use of a camera.</p> |

General

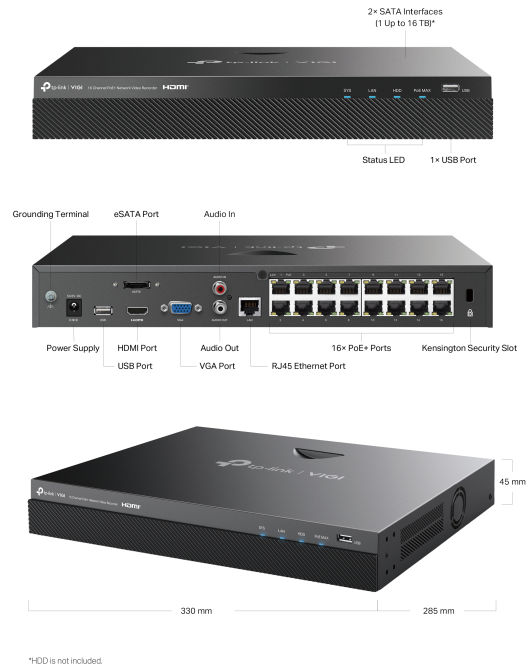
| | |
|--------------------------------------|--|
| Package Contents | <ul style="list-style-type: none"> • VIGI Network Video Recorder • Power Adapter • Power Cables • HDD Power Cables • HDD Data Cables • Mounting Accessories • Mouse • Quick Installation Guide |
| Power Supply | 53.5V DC/3.37A |
| Max Power Consumption (Without Disk) | 6.2 W |
| Max Power Consumption (With Disk) | 40W |
| Working Temperature | <ul style="list-style-type: none"> • 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) | 330 × 285 × 45 mm |
| Net Weight | 2.1Kg ^s |
| Gross Weight | 4.1 Kg ^s |
| Certification | CE, EAC, UKCA, RCM, Triman, BSMI, VCCI, FCC, IC, HDMI |

Dimensions



Build Features

VIGI NVR2016H-16MP



VIGI NVR2016H-16MP-4TB



△Calculations based on laboratory testing using VIGI cameras. Actual performance may vary according to the amount of activity recorded, resolution, and other variables.

†The number of simultaneously playable channels may be fewer than 16, or none, if the total resolution exceeds 16MP.

‡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.