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.

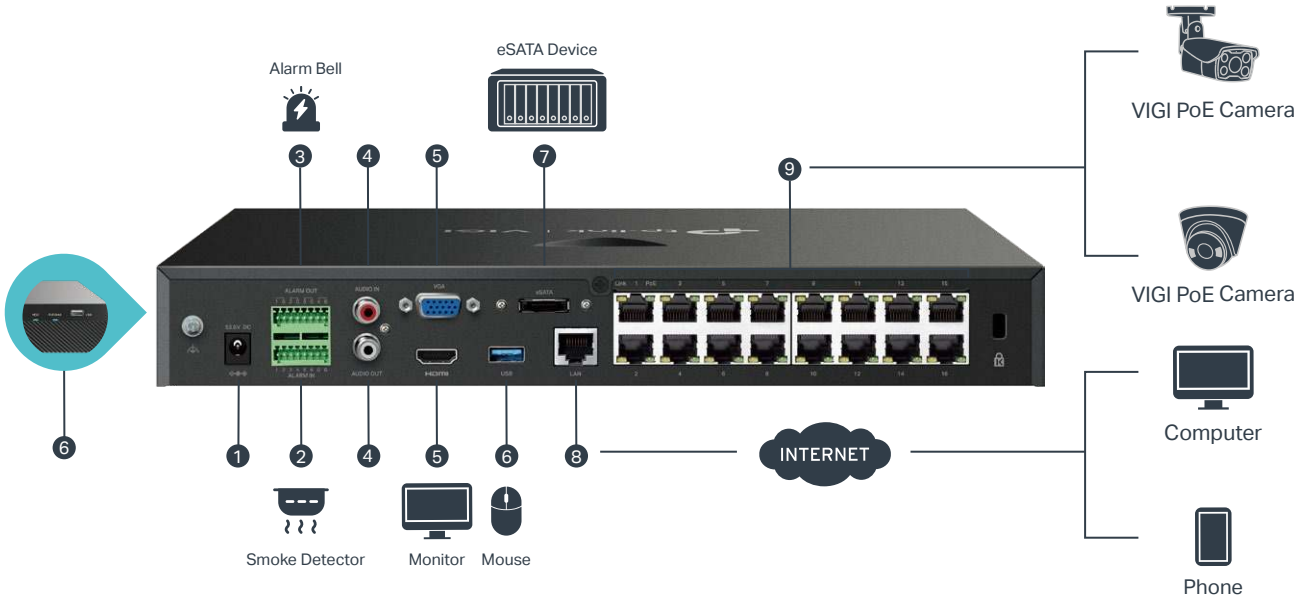
### Practical Playback

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.

ᴬA hard disk drive (not included) must be installed for operation.

Specifications are subject to change without notice.

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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 and VGA Independent / 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:<br>10-ch @ 3MP, 16-ch @ 1080P<br>• 30fps:<br>4-ch @ 8MP, 6-ch @ 5MP, 8-ch @ 4MP |
| **Record Management** | |
| Record Mode | • Manual Recording<br>• Scheduling Recording<br>• Motion Detection Recording |
| Playback Mode | • Instant Playback<br>• Regular Playback<br>• Tag Playback<br>• Event Playback |
| Backup Mode | • Regular Backup<br>• Video Clip Backup |

| | |
|---|---|
| Playback Function | • Play<br>• Pause<br>• Stop<br>• Fast Forward<br>• Fast Backward<br>• Play By Frame<br>• Full Screen<br>• Video Clip<br>• Export Clip<br>• Digital Zoom<br>• Lock Recording<br>• 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, FTP/SFTP, IPv6, SNMP |
| Interoperability | ONVIF Profile S/T, 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△ W Available for All PoE+ Ports, 30 W Max per Port |
| Standard | 802.3at/af Compliant |
| **Auxiliary 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<br>• Video Tampering<br>• Scene Change Detection<br>• Line-Crossing Detection<br>• Intrusion Detection<br>• Region Entering Detection<br>• Region Exiting Detection<br>• Loitering Detection<br>• Object Abandoned/Removal Detection<br>• Vehicle Detection<br>• Human Detection<br>• Abnormal Sound Detection<br>• Smart Frame<br><br>Note: The alarm function requires the use of a camera. |
| Anomaly Alarm | • Video Loss<br>• Offline and IP Conflict<br>• Disk Exception<br>• Login Exception<br>• Fan Exception |
| Alarm Linkage | • Recording<br>• White Light Alarm<br>• Buzzer<br>• Log<br>• Audible Alarm<br><br>Note: The alarm function requires the use of a camera. |
| **General** | |
| Package Contents | • VIGI Network Video Recorder<br>• Power Adapter<br>• Terminal Blocks<br>• HDD Power Cables<br>• HDD Data Cables<br>• Mounting Brackets<br>• Screws<br>• Rubber Feet<br>• Mouse<br>• Quick Installation Guide |
| Power Supply | DC 53.5V/3.37A |
| Max Power Consumption | • 6.2 W (Without Disk)<br>• 40 W (With Disk) |
| Working Temperature | • NVR: -10 °C to 55 °C (14 °F to 131 °F )<br>• Power Adapter: 0 °C to 40 °C (32 °F to 104 °F ) |
| Storage Temperature | -40 °C to 70 °C (-40 °F to 158 °F ) |
| 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.

△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.
#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.