



# 16 Channel PoE+ Network Video Recorder

MODEL: VIGI NVR2016H-16P



## H.265+



**16**

PoE+ Ports



**90W**

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

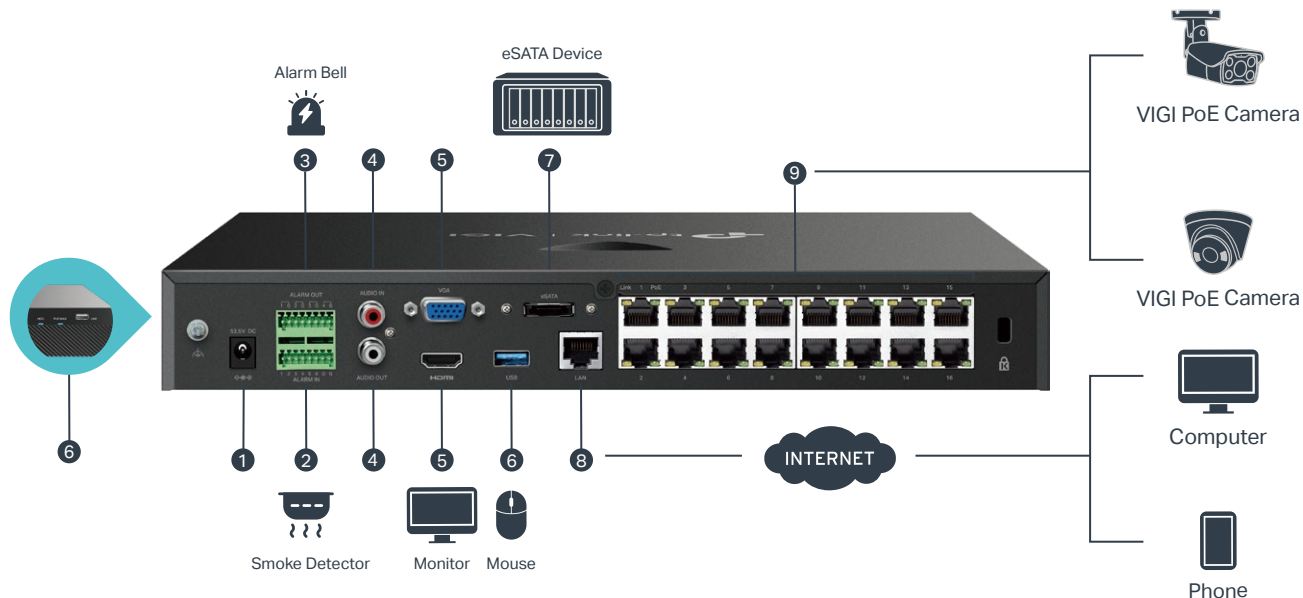
Find the target footage easily by date, event types, and tags. Replay with variable playback speeds to quickly review footage.



#### 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.

©2024 TP-Link

# Specifications

| NVR                    |                                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Model          | VIGI NVR2016H-16P                                                                                                                               |
| Video and Audio        |                                                                                                                                                 |
| IP Video Input         | 16-Channel                                                                                                                                      |
| Incoming Bandwidth     | 160 Mbps                                                                                                                                        |
| Outgoing Bandwidth     | 160 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 <sup>†</sup>                                                                                                                         |
| Capability             | <ul style="list-style-type: none"><li>• 25fps:<br/>10-ch @ 1080P</li><li>• 30fps:<br/>2-ch@8MP, 4-ch@5MP, 5-ch@4MP, 6-ch@3MP</li></ul>          |
| 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                |                                                                                                                                                 |
| Network Protocols      | UPnP (Plug and Play), NTP (Network Timing), SMTP, DNS, TCP/IP, UDP, ICMP, HTTP, HTTPS, DHCP, RTSP, SSL/TLS, RTP, IPv4, IPv6, SNMP, ARP          |
| Interoperability       | ONVIF Profile S, CGI                                                                                                                            |
| Mobile Phone Access    | Android, iOS                                                                                                                                    |
| Browser                | Chrome (57+), Firefox (52+), Edge (91+), Safari (11+)                                                                                           |
| API                    | OpenAPI                                                                                                                                         |

| PoE                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Interface          | 1-16, RJ-45 10/100 Mbps Self-Adaptive Ethernet Interface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Power              | 90 <sup>A</sup> 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      | <ul style="list-style-type: none"> <li>• Motion Detection</li> <li>• Video Tampering</li> <li>• Scene Change Detection</li> <li>• Line-Crossing Detection</li> <li>• Intrusion Detection</li> <li>• Region Entering Detection</li> <li>• Region Exiting Detection</li> <li>• Loitering Detection</li> <li>• Object Abandoned/Removal Detection</li> <li>• Vehicle Detection</li> <li>• Human Detection</li> <li>• Abnormal Sound Detection</li> <li>• Smart Frame</li> </ul> <p>Note: The alarm function requires the use of a camera.</p> |
| Anomaly Alarm      | <ul style="list-style-type: none"> <li>• Video Loss</li> <li>• Offline and IP Conflict</li> <li>• Disk Exception</li> <li>• Login Exception</li> <li>• Fan Exception</li> </ul> <p>Note: The alarm function requires the use of a camera.</p>                                                                                                                                                                                                                                                                                              |
| Alarm Linkage      | <ul style="list-style-type: none"> <li>• Recording</li> <li>• White Light Alarm</li> <li>• Buzzer</li> <li>• Log</li> <li>• Audible Alarm</li> </ul> <p>Note: The alarm function requires the use of a camera.</p>                                                                                                                                                                                                                                                                                                                         |

| General                        |                                                                                                                                                                                                                                                                              |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Package Contents               | <ul style="list-style-type: none"> <li>• VIGI Network Video Recorder</li> <li>• Power Adapter</li> <li>• Power Cables</li> <li>• HDD Power Cables</li> <li>• HDD Data Cables</li> <li>• Mounting Accessories</li> <li>• Mouse</li> <li>• Quick Installation Guide</li> </ul> |
| Power Supply                   | 53.5V DC/2.43A                                                                                                                                                                                                                                                               |
| Max Power Consumption          | 6.2 W (Without Disk)<br>40 W (With Disk)                                                                                                                                                                                                                                     |
| Working Temperature            | <ul style="list-style-type: none"> <li>• NVR: -10–55 °C</li> <li>• Power Adapter: 0–40 °C</li> </ul>                                                                                                                                                                         |
| 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 <sup>#</sup>                                                                                                                                                                                                                                                          |
| Gross Weight                   | 4.2 Kg <sup>#</sup>                                                                                                                                                                                                                                                          |
| Certification                  | CE, EAC, UKCA, RCM, Triman, BSMI, VCCI, FCC, IC, HDMI                                                                                                                                                                                                                        |

## Build Features



\*HDD is not included.

<sup>^</sup>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.

<sup>†</sup>The number of simultaneously playable channels may be fewer than 16, or none, if the total resolution exceeds 32MP.

<sup>‡</sup>This model currently supports ONVIF Profile S.

<sup>#</sup>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.