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Real HD HIK-IK-6284TH-MH/P

User Manual for HiLook Series Security Camera System

Model: IK-6284TH-MH/P

Brand: Real HD

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your HiLook Series Security Camera System. This system includes an 8-channel 4K 8MP NVR with a pre-installed 2TB hard drive and six 4MP outdoor turret PoE dome cameras. Designed for reliable surveillance, this system offers high-resolution video capture and remote access capabilities.



Figure 1.1: HiLook Series Security Camera System (NVR and 6 Cameras)

2. Safety Information

- Read all instructions carefully before installation and operation.
- Use only power adapters specified for this device.
- Ensure proper ventilation for the NVR to prevent overheating.
- Do not expose the NVR to water or moisture.
- Installation should be performed by qualified personnel, especially for outdoor camera mounting.
- Disconnect power before performing any maintenance.
- Protect cables from damage and ensure they are properly secured.

3. Package Contents

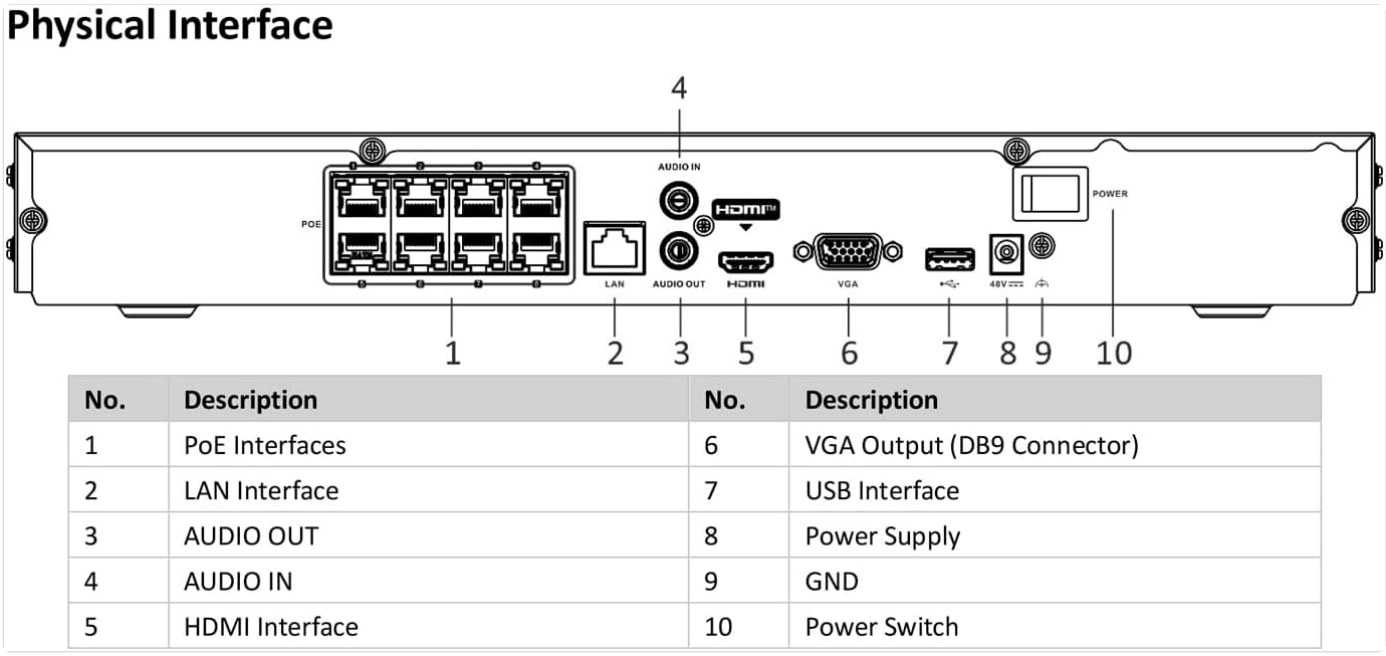
Verify that all items are present in your package:

- 1 x 8-Channel 4K 8MP PoE NVR (with pre-installed 2TB HDD)
- 6 x 4MP Outdoor Turret PoE Dome Cameras
- 1 x Power Adapter for NVR
- 1 x USB Mouse
- 1 x Ethernet Cable (for NVR network connection)
- Mounting Screws and Plugs for Cameras
- Quick Start Guide
- **Note:** Camera connection cables (Ethernet) are not included and must be purchased separately.

4. Product Overview

4.1 Network Video Recorder (NVR)

The NVR is the central recording and management unit for your security system. It features 8 PoE ports for direct camera connection and power, eliminating the need for separate power supplies for each camera.



No.	Description	No.	Description
1	PoE Interfaces	6	VGA Output (DB9 Connector)
2	LAN Interface	7	USB Interface
3	AUDIO OUT	8	Power Supply
4	AUDIO IN	9	GND
5	HDMI Interface	10	Power Switch

Figure 4.1: NVR Rear Panel Physical Interface

Table 4.1: NVR Interface Description

No.	Description	No.	Description

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1	PoE Interfaces	6	VGA Output (DB9 Connector)
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5	HDMI Interface	10	Power Switch

4.2 PoE Turret Dome Cameras

The 4MP PoE turret cameras provide high-definition video with enhanced low-light capabilities and a wide viewing angle. They are IP67 rated for outdoor use, ensuring durability in various weather conditions.



Figure 4.2: IPC-T240H Camera Features

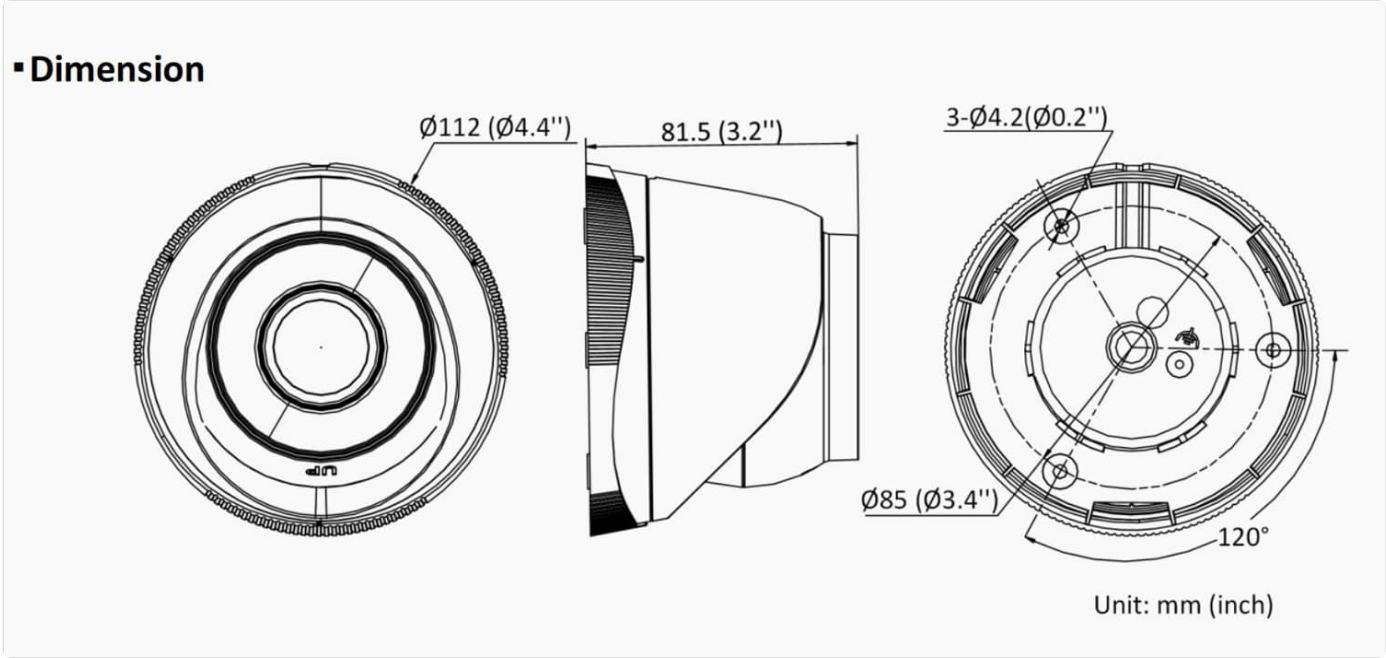


Figure 4.3: IPC-T240H Camera Dimensions (Unit: mm (inch))

5. Setup

5.1 NVR Initial Setup

1. Connect the NVR to a monitor using an HDMI or VGA cable.
2. Connect the included USB mouse to a USB port on the NVR.
3. Connect the NVR to your network router using an Ethernet cable (LAN interface).
4. Connect the NVR power adapter to the NVR and then to a power outlet.
5. Power on the NVR using the power switch.
6. Follow the on-screen prompts to complete the initial setup wizard, including setting up a password and network settings.

5.2 Camera Installation

1. Choose suitable locations for your cameras, considering coverage area and cable routing.
2. Mount the cameras securely using the provided screws and plugs.
3. Connect each camera to an available PoE interface on the NVR using an Ethernet cable (not included). The NVR will automatically power the cameras and establish a connection.
4. Adjust the camera angle and focus as needed for optimal viewing.

5.3 Network Configuration (Optional)

The NVR typically obtains an IP address automatically via DHCP. If manual configuration is required:

- Access the NVR's main menu, navigate to **Configuration > Network**.
- Set the IP address, subnet mask, gateway, and DNS server manually.
- Ensure the NVR's network settings are compatible with your local network.

6. Operating

6.1 Live View

After successful setup, the NVR will display live video feeds from all connected cameras on the monitor. You can switch between single-camera view, multi-camera grid view, and customize display layouts.

6.2 Playback

To review recorded footage:

1. From the main menu, select **Playback**.
2. Choose the camera(s) and date/time range you wish to review.
3. Use the timeline to navigate through recordings.

6.3 Recording Settings

The NVR supports continuous, motion-detection, and scheduled recording modes. Configure these settings via **Configuration > Record**.

- **Continuous Recording:** Records 24/7.
- **Motion Detection:** Records only when motion is detected in the camera's view.
- **Scheduled Recording:** Records during specified time intervals.

6.4 Remote Access (Hik-Connect App)

For remote viewing and management:

1. Download the "Hik-Connect" app from your smartphone's app store.
2. Create an account and log in.
3. Scan the QR code displayed on the NVR's monitor (usually found in **Configuration > Network > Platform Access**) to add your device.
4. Follow the app's instructions to complete the setup and access live view and playback remotely.

7. Maintenance

- **Cleaning:** Regularly clean camera lenses with a soft, dry cloth. For the NVR, ensure vents are free from dust.
- **Firmware Updates:** Check the manufacturer's website periodically for firmware updates to ensure optimal performance and security. Follow the provided instructions carefully for any updates.
- **Hard Drive Management:** The 2TB HDD will automatically overwrite older footage when full. If you require longer retention, consider backing up important footage or upgrading the HDD capacity (NVR supports up to 8TB per SATA interface).
- **System Health Check:** Periodically check the NVR's system logs for any errors or warnings.

8. Troubleshooting

Table 8.1: Common Troubleshooting Steps

Problem	Possible Cause	Solution
No video from camera	Loose cable, no power, IP conflict, faulty camera/port.	Check Ethernet cable connection. Ensure NVR PoE port is active. Verify camera status in NVR settings. Try a different PoE port.
NVR offline in Hik-Connect app	No internet connection, incorrect network settings, platform access disabled.	Check NVR's internet connection. Verify network settings (DHCP/Static IP). Ensure Platform Access is enabled and status is "Online".

Problem	Possible Cause	Solution
Cannot access NVR via browser	Incorrect IP address, network firewall, NVR web service disabled.	Verify NVR's IP address. Check firewall settings on your PC and router. Ensure HTTP/HTTPS ports are open.
Poor image quality	Dirty lens, improper focus, low light conditions, network bandwidth issues.	Clean camera lens. Adjust camera focus. Ensure adequate lighting for night vision. Check network bandwidth.

9. Specifications

9.1 NVR Specifications (Model: IK-6284TH-MH/P)

▪ Specification -NVR for IK-6284TH-MH/P

Motion Detection 2.0	
Human/Vehicle Analysis	4-ch
Video and Audio	
IP Video Input	8-ch
Incoming Bandwidth	80 Mbps
Outgoing Bandwidth	80 Mbps
HDMI Output	1-ch, 4K (4096 x 2160)/30 Hz, 4K (3840 x 2160)/30 Hz, 2K (2560 x 1440)/60 Hz, 1920 x 1080/60 Hz, 1600 x 1200/60 Hz, 1280 x 1024/60 Hz, 1280 x 720/60 Hz
VGA Output	1-ch, 1920 × 1080/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz
Video Output Mode	HDMI/VGA simultaneous output
Audio Output	1-ch, RCA (Linear, 1 KΩ)
Two-Way Audio	1-ch, RCA (2.0 Vp-p, 1 k Ω)
Decoding	
Decoding Format	H.265+,H.265,H.264+,H.264
Recording Resolution	8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA /720p/VGA/4CIF/DCIF/ 2CIF/CIF/QCIF
Synchronous playback	8-ch
Decoding Capability	1-ch@8 MP (30 fps)/3-ch@4 MP (30 fps)/6-ch@1080p (30 fps)
Stream Type	Video, Video & Audio
Audio Compression	G.711ulaw/G.711alaw/G.722/G.726
Network	
Remote Connection	32
Network Protocol	TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS
Network Interface	1, RJ-45 10/100 Mbps self-adaptive Ethernet interface
PoE	
Interface	8, RJ-45 10/100 Mbps self-adaptive Ethernet interface
Power	≤ 80 W
Standard	IEEE 802.3 af/at
Auxiliary Interface	
SATA	2 SATA interfaces
Capacity	Up to 8 TB capacity for each disk
Alarm In/Out	N/A
USB Interface	2 × USB 2.0
General	
Power Supply	48 VDC, 2.5 A

Figure 9.1: NVR Specification (Part 1)

Consumption	≤ 15 W (without HDD and PoE off)
Working Temperature	-10 °C to 55 °C (14 °F to 131 °F)
Working Humidity	10% to 90%
Chassis	1U chassis
Dimension (W × D × H)	385 × 315 × 52 mm (15.2"× 12.4" × 2.0")
Weight	≤ 2.6 kg (without HDD, 5.7 lb.)
Certification	
FCC	Part 15 Subpart B, ANSI C63.4-2014
CE	EN 55032: 2015, EN 61000-3-2, EN 61000-3-3, EN 50130-4, EN 55035: 2017

Dimension

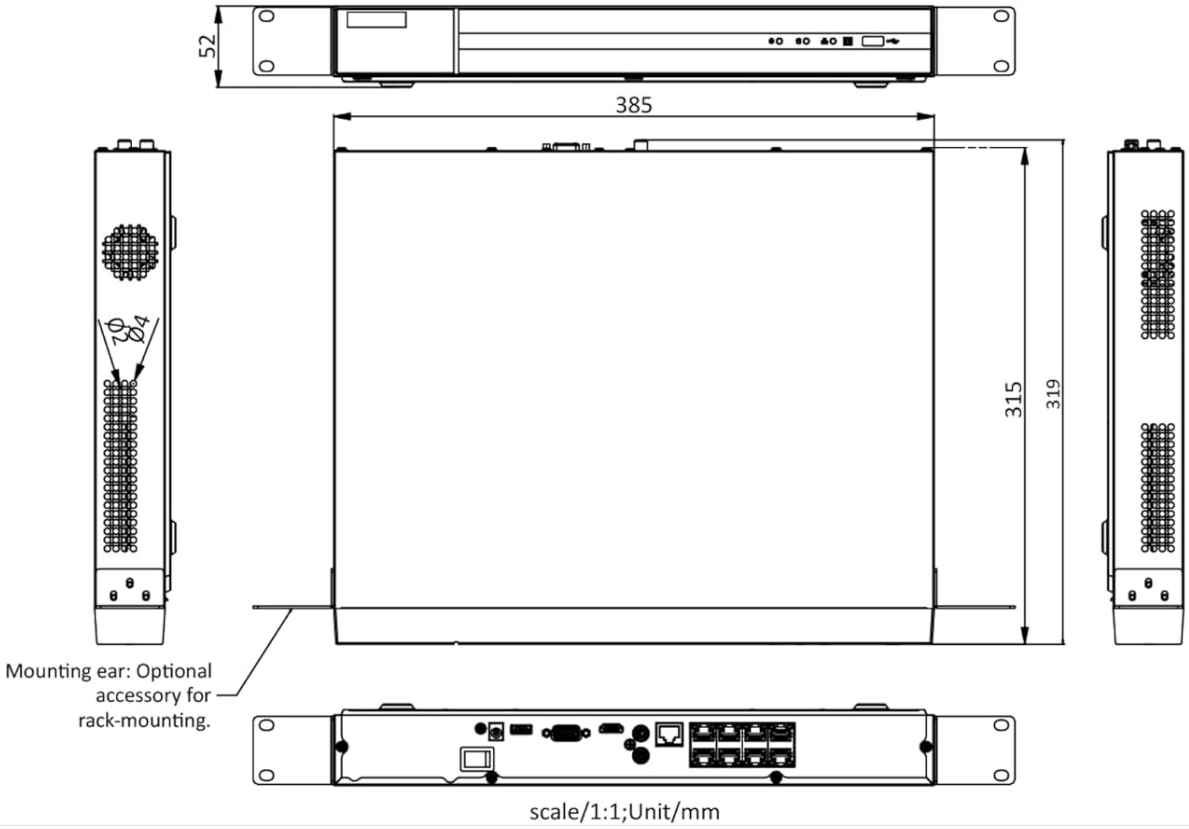


Figure 9.2: NVR Specification (Part 2) and Dimensions

Table 9.1: Key NVR Specifications

Feature	Detail
Human/Vehicle Analysis	4-ch
IP Video Input	8-ch
Incoming Bandwidth	80 Mbps
Outgoing Bandwidth	80 Mbps
HDMI Output	1-ch, 4K (4096 x 2160)/30 Hz, 4K (3840 x 2160)/30 Hz, 2K (2560 x 1440)/60 Hz, 1920 x 1080/60 Hz, 1600 x 1200/60 Hz, 1280 x 1024/60 Hz, 1280 x 720/60 Hz

Feature	Detail
VGA Output	1-ch, 1920 x 1080/60 Hz, 1280 x 1024/60 Hz, 1280 x 720/60 Hz
Video Output Mode	HDMI/VGA simultaneous output
Audio Output	1-ch, RCA (Linear, 1 KΩ)
Two-Way Audio	1-ch, RCA (2.0 Vp-p, 1 K Ω)
Decoding Format	H.265+, H.265, H.264+, H.264
Recording Resolution	8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA /720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Synchronous Playback	8-ch
Decoding Capability	1-ch@8 MP (30 fps)/3-ch@4 MP (30 fps)/6-ch@1080p (30 fps)
Stream Type	Video, Video & Audio
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Remote Connection	32
Network Protocol	TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, UPnP™, HTTP, HTTPS
Network Interface	1, RJ-45 10/100 Mbps self-adaptive Ethernet interface
PoE Interface	8, RJ-45 10/100 Mbps self-adaptive Ethernet interface
PoE Power	≤ 80 W
PoE Standard	IEEE 802.3 af/at
SATA Interfaces	2 SATA interfaces
SATA Capacity	Up to 8 TB capacity for each disk
USB Interface	2 x USB 2.0
Power Supply	48 VDC, 2.5 A
Consumption	≤ 15 W (without HDD and PoE off)
Working Temperature	-10 °C to 55 °C (14 °F to 131 °F)
Working Humidity	10% to 90%
Chassis	1U chassis
Dimension (W × D × H)	385 × 315 × 52 mm (15.2" × 12.4" × 2.0")
Weight	≤ 2.6 kg (without HDD, 5.7 lb.)

Feature	Detail
Certification	FCC Part 15 Subpart B, ANSI C63.4-2014; CE EN 55032: 2015, EN 61000-3-2, EN 61000-3-3, EN 50130-4, EN 55035: 2017

9.2 Camera Specifications (IPC-T240H)

Table 9.2: Key Camera Specifications

Feature	Detail
Image Sensor	1/3" Progressive Scan CMOS
Max. Resolution	Up to 2560 x 1440 (4MP)
Lens	2.8mm Fixed Lens
IR Range	Up to 100 ft (30 m) EXIR 2.0 IR Range
Video Compression	H.265+/H.265/H.264+/H.264/MJPEG
WDR	True 120 dB WDR
Ingress Protection	IP67 Protection
Housing Material	Durable Metal Housing
Viewing Angle	102° (diagonal)

9.3 General Product Specifications

Table 9.3: General System Specifications

Feature	Detail
Connectivity Technology	Wired
Number of Channels	8
Memory Storage Capacity	2 TB (Pre-installed)
Color	White
Power Source	Corded Electric
Item dimensions L x W x H	20 x 13 x 10 inches (System Packaging)
Recommended Uses For Product	Indoor/Outdoor
Compatible Devices	NVR
Signal Format	Digital
Low light technology	Night Vision
Night Vision Range	100 Feet (Camera)
Frame Rate	30 FPS
Recording Mode	Continuous 4K video
Optical Sensor Technology	CMOS

Feature	Detail
Hardware Interface	Ethernet
Manufacturer	Real HD
Item Weight	40 pounds (System)

10. Warranty and Support

For warranty information and technical support, please refer to the warranty card included with your product or visit the official Real HD website. You can also contact customer support through the details provided on the product packaging or the seller's store page on Amazon.

- **Online Support:** Visit the Real HD Store on Amazon for product information and support resources.
- **Protection Plans:** Additional protection plans may be available for purchase to extend coverage beyond the standard warranty.

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