

TP-Link VIGI C340I

TP-Link VIGI C340I 4MP Outdoor IR Bullet Network Camera User Manual

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1. PRODUCT OVERVIEW

The TP-Link VIGI C340I is a 4MP Outdoor IR Bullet Network Camera designed for robust surveillance. It features a 4mm fixed lens and a 1/3" Progressive Scan CMOS sensor, delivering 2560x1440 resolution at 25/30 frames per second. This camera supports H.265+/H.265/H.264+/H.264 video compression for efficient storage and bandwidth usage.

Key features include IR Night Vision up to 50 meters, advanced Smart Detection capabilities such as Human & Vehicle Classification, and SmartVid video enhancement technologies (Smart IR, 3D DNR, BLC, WDR). The camera is IP67 rated for outdoor use, supports both Power over Ethernet (PoE) and 12V DC power, and offers flexible management via the VIGI App, Web UI, NVR UI, and VIGI Security Manager. It is also ONVIF (Profile S) compliant for broad compatibility.

Security Never Shuts Down

4MP Outdoor IR Bullet Network Camera

VIGI C340I



2. WHAT'S IN THE BOX

Verify that all components are present in your package:

- VIGI Network Camera (VIGI C340I)
- Quick Start Guide
- Waterproof Cable Attachments
- Mounting Accessories (screws, wall plugs)

SmartVid-Smart Video Enhancement

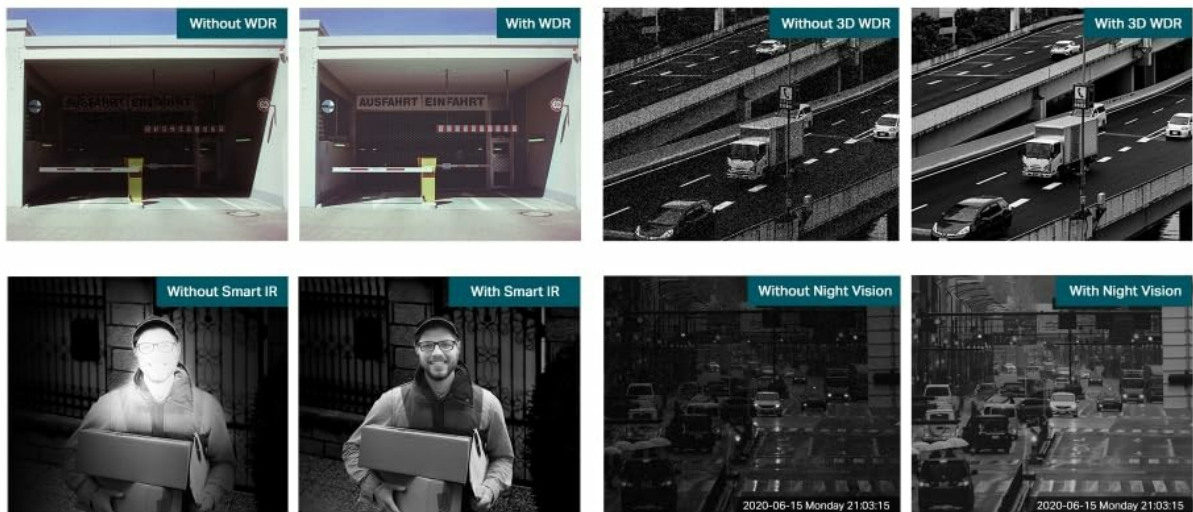


Image showing the VIGI C340I camera, Quick Start Guide, waterproof cable attachments, and mounting accessories.

3. SETUP AND INSTALLATION

3.1 Physical Installation

The VIGI C340I camera is designed for outdoor use with an IP67 waterproof rating, ensuring stable performance in various weather conditions. It supports flexible mounting options including ceiling, wall, and pole mounting.

- **Ceiling Mounting:** Secure the camera to an overhead surface using the provided mounting accessories.
- **Wall Mounting:** Attach the camera to a vertical wall, ensuring a clear field of view.
- **Pole Mounting:** Utilize the appropriate accessories to mount the camera on a pole for elevated surveillance.

Ensure the mounting surface is strong enough to support the camera's weight and that the camera is positioned to cover the desired area effectively.

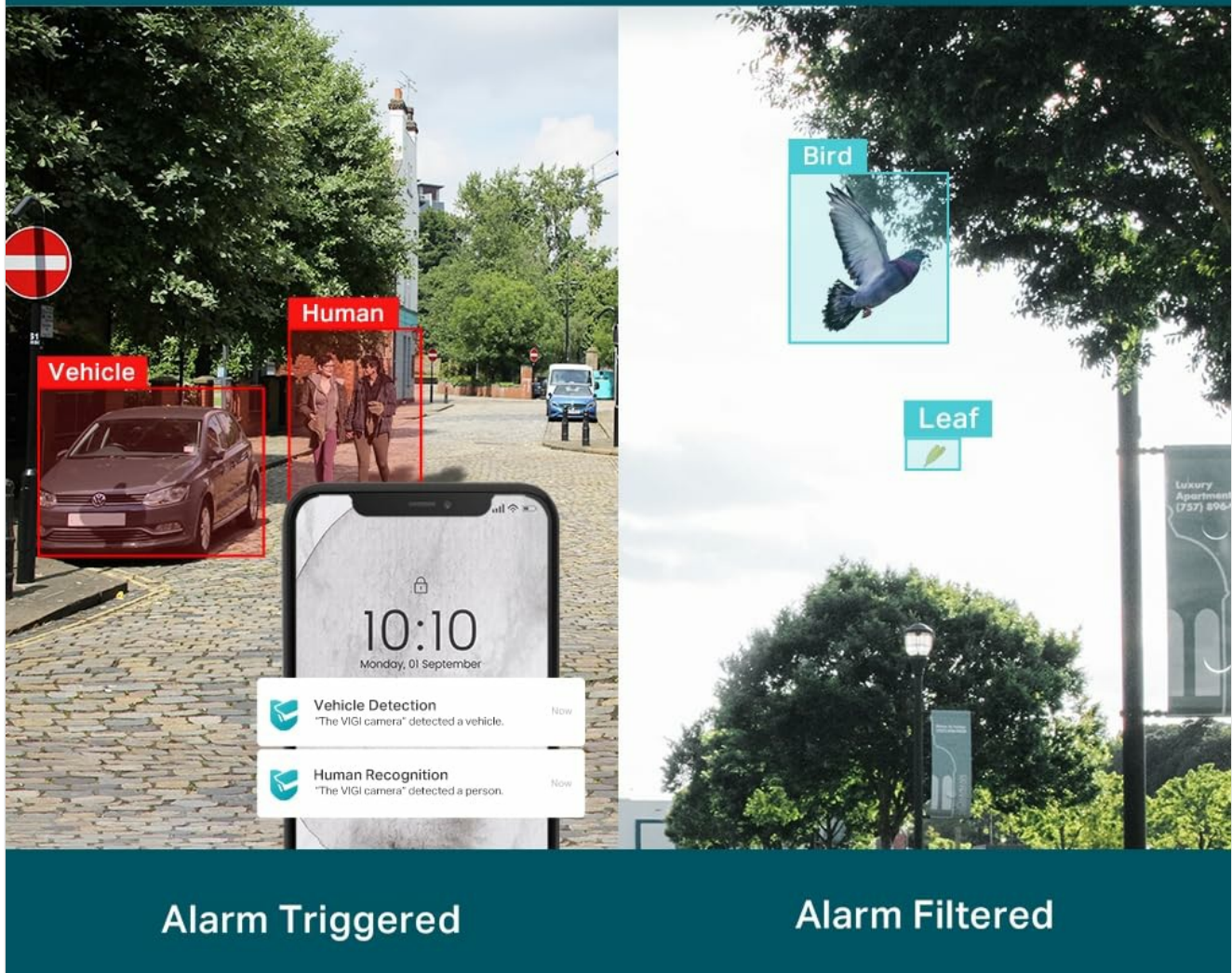
Flexible Management

Take full control over your security via four management methods: the web UI, NVR UI, VIGI app, and VIGI Security Manager.



Diagram illustrating ceiling, wall, and pole mounting options for the VIGI C340I camera.

Human & Vehicle Classification



The VIGI C340I camera demonstrating its IP67 waterproof rating, suitable for outdoor environments.

3.2 Powering the Camera

The VIGI C340I offers two power supply options for convenience and flexible wiring:

- **Power over Ethernet (PoE):** Connect the camera to a PoE-enabled NVR or switch using a single Ethernet cable. This cable will transmit both power and data.
- **12V DC Power:** Alternatively, power the camera using a 12V DC power adapter (sold separately) connected to a standard power outlet.

Discover the best way to power your camera.

PoE/12V DC

Two power supply ways not only give you more convenience but also make your wiring remarkably easy.



Diagram showing how to power the VIGI C340I camera using either PoE from a VIGI PoE NVR or a 12V DC adapter via a switch and VIGI NVR.

3.3 Network Connection

Connect the camera to your network using an RJ45 Ethernet cable. The camera is ONVIF (Profile S) compliant, allowing integration with various network video recorders (NVRs) and video management systems (VMS).

4. OPERATING THE CAMERA

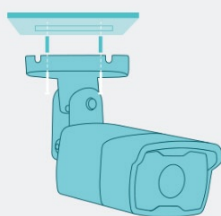
4.1 Flexible Management

The VIGI C340I camera offers multiple ways to manage and monitor your security system:

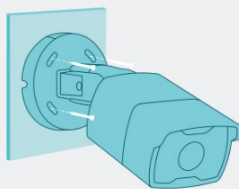
- **Web UI:** Access camera settings and live view through a web browser on your computer.
- **NVR UI:** If connected to a VIGI NVR, manage the camera directly through the NVR's user interface.
- **VIGI App:** Use the VIGI mobile application for remote monitoring and control from your smartphone or tablet.
- **VIGI Security Manager:** A dedicated software for managing multiple VIGI cameras and NVRs on your computer.

Flexible Installation

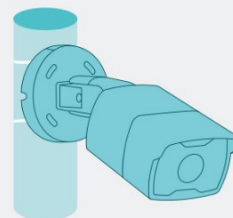
Find the perfect vantage point by simply securing your camera to ceiling, pole or wall.



Ceiling Mounting



Wall Mounting



Pole Mounting

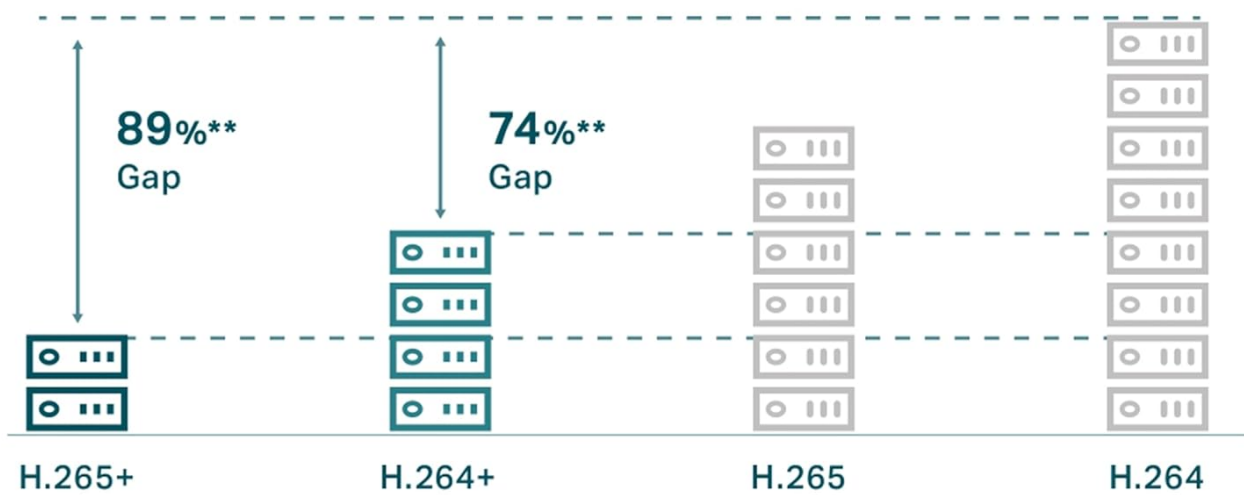
Illustration of the various management interfaces for the VIGI security system, including mobile app, desktop software, and NVR.

4.2 Smart Detection Features

The VIGI C340I camera incorporates advanced AI algorithms for intelligent monitoring and accurate event notifications:

- **Human & Vehicle Classification:** Distinguishes between humans and vehicles from other objects, reducing false alarms.
- **Line-Crossing Detection:** Triggers an alert when an object crosses a predefined virtual line.
- **Intrusion Detection:** Notifies you when an object enters a specified area.
- **Object Abandoned/Removal Detection:** Alerts if an object is left behind or removed from a monitored zone.
- **Motion Detection:** Standard detection of movement within the camera's field of view.
- **Tamper Detection:** Notifies if the camera is obstructed or tampered with.

H.265+



Video Coding Technology

Example of Human & Vehicle Classification, showing how the camera identifies and filters relevant events.

We keep an eye on your business.

Smart Detection

Backed by AI algorithms, the VIGI camera offers more smart detection. You will receive notifications when someone crosses a boundary, enters an area you've set, obstructs the camera, or removes/abandons objects.



Visual representation of various smart detection features including motion, line-crossing, intrusion, object abandoned, object removal, and camera tampering detection.

4.3 Smart Video Enhancement

The VIGI C340I utilizes professional technologies to improve video quality for critical monitoring:

- **Smart IR:** Adjusts infrared intensity to prevent overexposure in night vision, ensuring clear images.
- **WDR (Wide Dynamic Range):** Balances bright and dark areas in a scene to provide clear video even in high-contrast lighting.
- **3D DNR (Digital Noise Reduction):** Reduces image noise, especially in low-light conditions, for cleaner video.
- **Night Vision:** Provides clear black and white video in complete darkness.
- **H.265+ Video Coding:** Compresses video efficiently without sacrificing quality, saving disk space and reducing network load.



High Definition



Human & Vehicle
Classification



Smart
Detection



SmartVid



Night
Vision



Smart Video
Coding



IP67



PoE / 12V DC



Remote
Monitoring



ONVIF Ensures
Compatibility

Comparison images demonstrating the effectiveness of WDR, 3D DNR, Smart IR, and Night Vision technologies.



Graph illustrating the significant storage and bandwidth savings achieved with H.265+ compression compared to older standards.

5. MAINTENANCE

5.1 Cleaning

Regularly clean the camera lens and housing to ensure optimal image quality and prevent debris buildup. Use a soft, damp cloth. Avoid harsh chemicals or abrasive materials that could damage the lens or finish.

5.2 Firmware Updates

Periodically check the TP-Link VIGI website or the VIGI Security Manager software for available firmware updates. Keeping your camera's firmware up-to-date ensures access to the latest features, security patches, and performance improvements.

6. TROUBLESHOOTING

If you encounter issues with your VIGI C340I camera, consider the following common solutions:

- **No Power:** Ensure the camera is properly connected to a power source (PoE or 12V DC adapter) and that the power source is active.
- **No Network Connection:** Verify the Ethernet cable is securely connected to both the camera and the network device (router/switch/NVR). Check network settings and ensure the camera has a valid IP address.
- **Poor Image Quality:** Clean the camera lens. Check for obstructions. Ensure sufficient lighting for the scene. Adjust video enhancement settings (WDR, 3D DNR) if necessary.
- **False Alarms:** Adjust the sensitivity of smart detection features (e.g., motion detection, line-crossing). Utilize Human & Vehicle Classification to filter out irrelevant movements.
- **Remote Access Issues:** Ensure your network has proper port forwarding configured if accessing from outside your local network, or use the VIGI App's cloud features if available.

For more detailed troubleshooting or persistent issues, refer to the comprehensive support resources on the TP-Link VIGI website or contact technical support.

7. TECHNICAL SPECIFICATIONS

Feature	Detail
Model Number	VIGI C340I(4mm)
Effective Still Resolution	4 MP
Video Capture Resolution	1440p (2560x1440)
Frame Rate	30 frames per second
Lens	4mm Fixed Lens
Photo Sensor Technology	CMOS
Night Vision Range	30 Metres (IR Night Vision up to 50m mentioned in description, using 30m from spec table)
Waterproof Rating	IP67
Connectivity Technology	Wired (RJ45)
Power Source	Corded Electric (PoE/12V DC)
Voltage	12 Volts (AC)
Wattage	6 Watts
Mounting Type	Ceiling Mount (also supports Wall, Pole)

Feature	Detail
Dimensions (Item)	23 x 6.1 x 6.2 Centimeters
Weight (Item)	360 Grams
Operating Temperature	-30 to 60 °C (-22 to 140 °F)
Video Compression	H.265+/H.265/H.264+/H.264
Special Features	Smart IR, WDR, 3D DNR, Night Vision, Human & Vehicle Classification, Smart Detection (Line-Crossing, Intrusion, Object Abandoned/Removal, Tamper), Remote Monitoring
Compatible Devices	Desktop, Laptop, Smartphone, Tablet
Control Method	App, Remote (Web UI, NVR UI, VIGI Security Manager)

8. WARRANTY AND SUPPORT

8.1 Warranty Information

TP-Link products typically come with a limited warranty. For specific warranty terms and conditions applicable to your region and product, please refer to the warranty card included with your product or visit the official TP-Link website.

8.2 Technical Support

For technical assistance, product documentation, and FAQs, please visit the TP-Link support website. You can also contact TP-Link customer support directly:

- **Toll Free:** 1800-209-4168 (India)
- **Email:** support.in@tp-link.com
- **Manufacturer Contact:** TP-Link Systems Inc. 10 Mauchly, Irvine, CA 92618, USA or TP-Link India Private Limited Office No.1, Tower 2, Level 2, Raiaskaran Tech Park, Andheri Kurla Road, M.V Road, Andheri East-400072

Always provide your product model number (VIGI C340I) and a detailed description of your issue when contacting support.