TP-Link VIGI C230

TP-Link VIGI C230 4mm Lens 3MP Full-Color Dome Network Camera User Manual

Model: VIGI C230

1. INTRODUCTION

The TP-Link VIGI C230 is a 3MP Full-Color Dome Network Camera designed for reliable security monitoring. It features a 4mm lens, 24-hour full-color imaging, smart detection capabilities, a built-in microphone, and robust IK10 vandal-proof and IP67 waterproof ratings. This manual provides essential information for setting up, operating, and maintaining your VIGI C230 camera.

Image 1.1: Front view of the TP-Link VIGI C230 Dome Network Camera.

2. KEY FEATURES

The VIGI C230 camera offers a range of advanced features for comprehensive surveillance:

- **3MP Super-High Definition:** Captures clear and detailed video with 3-megapixel resolution.
- **24h Full-Color:** Provides full-color imaging day and night, even in low-light conditions, using a large-aperture lens, high-sensitivity sensor, and supplemental lights.
- **Human & Vehicle Classification:** Intelligently distinguishes humans and vehicles from other objects to reduce false alarms.
- **Smart Detection:** Includes motion detection, intrusion detection, line-crossing detection, object removal/abandonment detection, and camera tampering alerts.
- **Built-In Microphone:** Records audio within a 15-ft radius for enhanced monitoring.
- **IK10 Vandal-Proof & IP67 Waterproof:** Durable housing protects against vandalism and harsh weather conditions.

- **H.265+ Video Compression:** Efficiently compresses video to save storage space and reduce network bandwidth without compromising quality.
- **Smart Video Enhancement:** Features like Smart IR, WDR (Wide Dynamic Range), and 3D DNR (Digital Noise Reduction) improve video quality in various lighting conditions.
- **PoE/12V DC Power:** Supports Power over Ethernet (PoE) for simplified installation or traditional 12V DC power.
- **Flexible Management:** Manage your camera via web UI, NVR UI, VIGI app, or VIGI Security Manager software.

Image 2.1: Visual representation of the VIGI C230's key features.

3. SETUP

3.1 Package Contents

Before installation, verify that all components are present:

- VIGI Network Camera

- Quick Start Guide

- Waterproof Cable Attachments

- Mounting Accessories (screws, anchors)

Image 3.1: Packaging of the VIGI C230 camera.

3.2 Mounting the Camera

1. Choose a suitable mounting location (ceiling or wall) that provides the desired field of view.

2. Use the provided mounting template (if included in the Quick Start Guide) to mark drill holes.

3. Drill holes and insert wall anchors if mounting on drywall or masonry.

4. Secure the camera base to the mounting surface using the provided screws.

5. Adjust the camera's angle and orientation as needed.

3.3 Power and Network Connection

The VIGI C230 supports two power options:

- **Power over Ethernet (PoE):** Connect an Ethernet cable from a PoE-enabled switch or NVR to the camera's Ethernet port. This provides both power and data.
- **12V DC Power:** Connect a 12V DC power adapter (sold separately) to the camera's power input, and an Ethernet cable to the camera's Ethernet port for data.

Ensure all cable connections are secure, especially using the waterproof cable attachments for outdoor installations to maintain the IP67 rating.

3.4 Initial Configuration

Refer to the included Quick Start Guide for detailed instructions on initial network setup and accessing the camera's interface via the VIGI app, VIGI Security Manager, or a web browser.

4. OPERATING THE CAMERA

4.1 Live View and Recording

Access the live video feed and manage recordings through the VIGI app on your smartphone, the VIGI Security Manager software on your computer, or directly via a VIGI NVR. The camera provides 3MP resolution for clear monitoring.
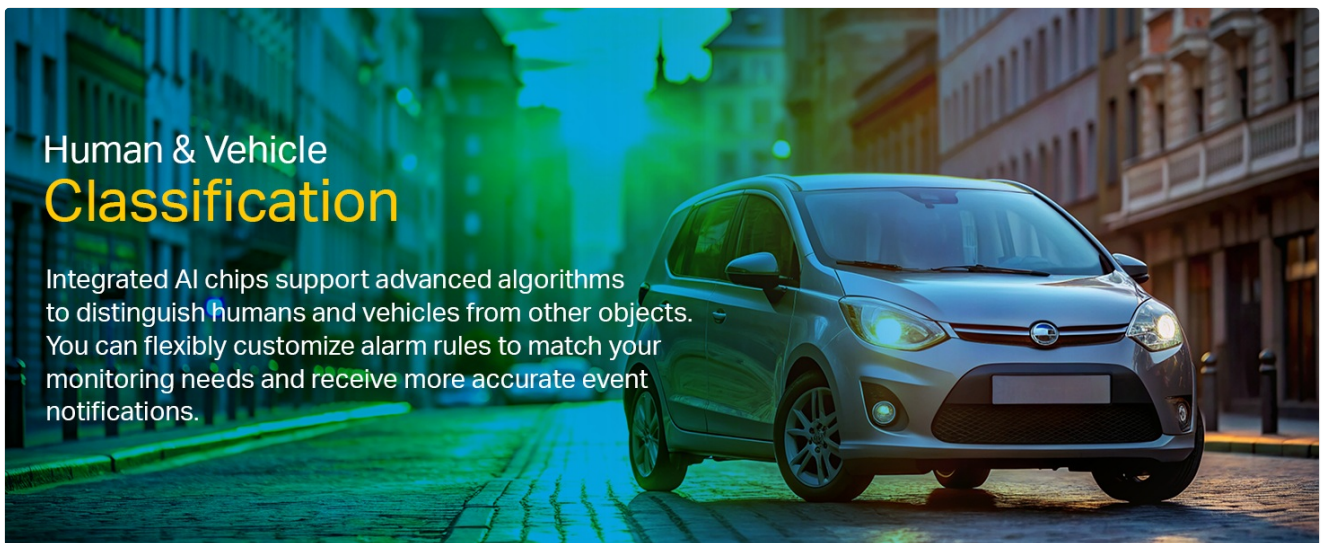

Image 4.1: Example of 3MP Super-High Definition clarity.

4.2 Full-Color Night Vision

The VIGI C230 maintains full-color video even in low-light conditions, providing more detailed information than traditional black-and-white infrared night vision.

Clarity and Colors, All in One

VIGI 3MP Full-Color Camera   **2MP IR Camera**

Image 4.2: Comparison of full-color night vision versus standard IR night vision.

4.3 Smart Detection Features

Configure smart detection rules to receive alerts for specific events:

- **Human & Vehicle Classification:** Set up alerts that trigger only when humans or vehicles are detected, filtering out irrelevant motion from animals or swaying trees.
- **Intrusion Detection:** Define specific areas, and receive alerts when an object enters or exits these zones.
- **Line-Crossing Detection:** Get notifications when an object crosses a predefined virtual line.
- **Object Removal/Abandonment Detection:** Alerts if an object is removed from or left in a designated area.
- **Camera Tampering:** Notifies you if the camera's view is obstructed or altered.

Image 4.3: Human & Vehicle Classification in action.

Image 4.4: Overview of Smart Detection capabilities.

4.4 Audio Monitoring

The integrated microphone allows for audio recording, providing additional context to video surveillance. This feature can be enabled or disabled through the camera's settings.

Image 4.5: Illustration of the built-in microphone feature.

4.5 Smart Video Enhancement

The camera utilizes technologies like WDR, 3D DNR, and Smart IR to optimize video quality. WDR balances exposure in scenes with both bright and dark areas, 3D DNR reduces digital noise, and Smart IR prevents overexposure of objects close to the camera at night.

Image 4.6: Examples of Smart Video Enhancement features.

5. MAINTENANCE

5.1 Cleaning

Regularly clean the camera lens and housing with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials that could damage the lens or finish.

5.2 Firmware Updates

Periodically check for firmware updates through the VIGI app or VIGI Security Manager. Keeping your camera's firmware up-to-date ensures optimal performance, security, and access to new features.

5.3 Durability Features

The VIGI C230 is built with IK10 vandal-proof and IP67 waterproof ratings, ensuring its resilience against physical impact and environmental elements like rain and dust. This minimizes the need for frequent physical maintenance in challenging conditions.
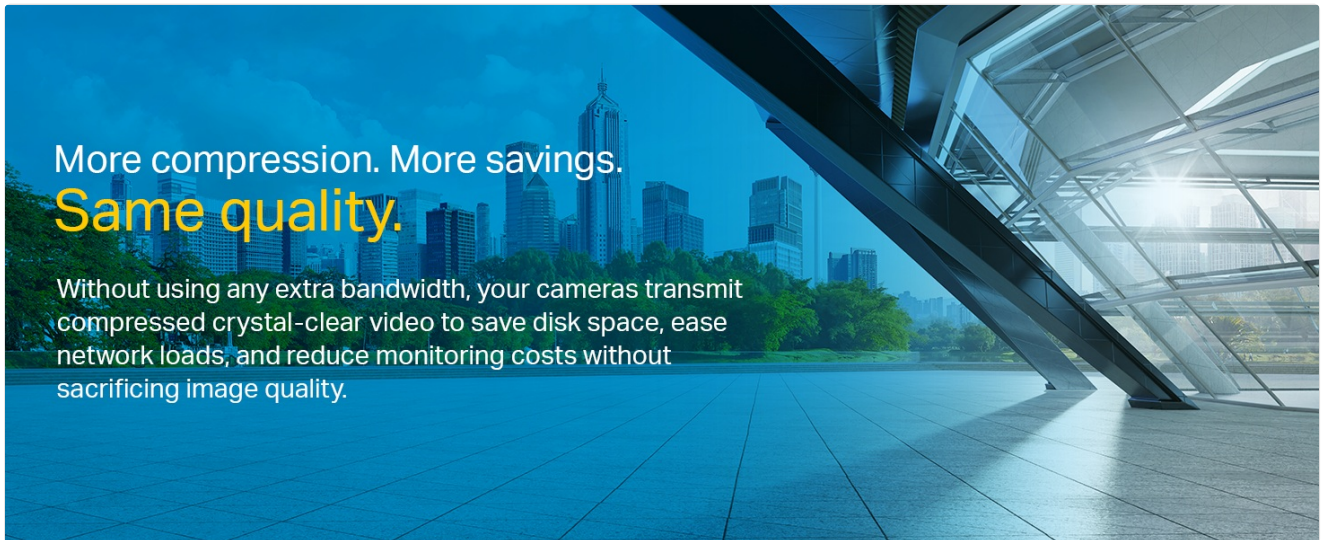

Image 5.1: VIGI C230 demonstrating IK10 Vandal-Proof and IP67 Waterproof capabilities.

6. TROUBLESHOOTING

6.1 No Power

- Ensure the power adapter (if used) is securely connected to a working outlet.
- If using PoE, verify that the PoE switch or NVR port is active and providing power. Check the Ethernet cable for damage.

6.2 No Video Feed

- Check network connectivity. Ensure the Ethernet cable is properly connected to both the camera and the network device (router/switch/NVR).
- Verify that the camera's IP address is correct and accessible on your network.
- Restart the camera and the connected network device.

6.3 Poor Image Quality

- Clean the camera lens.
- Check for obstructions in the camera's field of view.
- Ensure the camera's resolution settings are configured for 3MP.
- Adjust WDR and 3D DNR settings in the camera's interface if experiencing issues with lighting or noise.

6.4 False Alarms

- Adjust the sensitivity of motion detection.

- Refine detection zones to exclude areas with frequent irrelevant motion (e.g., swaying trees, busy roads).
- Utilize Human & Vehicle Classification to filter out non-human/vehicle events.

7. SPECIFICATIONS

Feature	Specification
Model Number	VIGI C230(4mm)
Resolution	3MP
Lens	4mm
Video Compression	H.265+
Audio	Built-in Microphone
Ingress Protection	IP67 Waterproof
Vandal Resistance	IK10
Power Options	PoE (802.3af/at) or 12V DC
Product Dimensions	13.6 x 11.9 x 5.4 cm
Item Weight	200 g
Connectivity Technology	Wired (Ethernet)
Indoor/Outdoor Usage	Indoor, Outdoor
Compatible Devices	Laptop, Desktop, Smartphone
Controller Type	Android (via VIGI app)
Mounting Type	Ceiling Mount

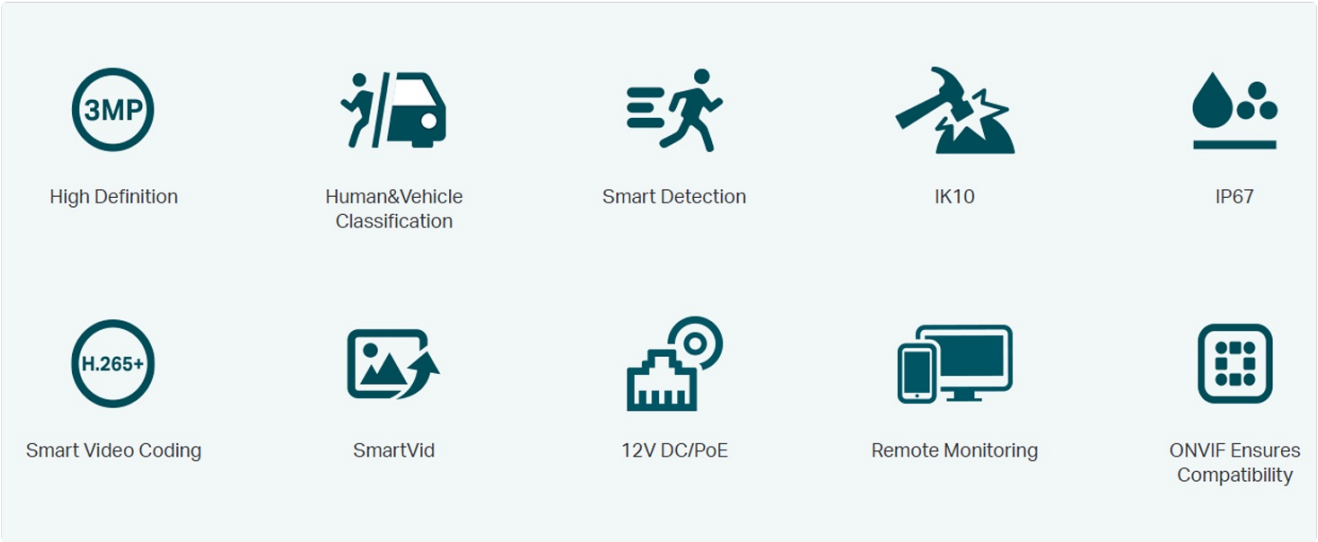| 3MP	Human&Vehicle	Smart Detection	IK10	IP67
High Definition	Classification			
H.265+	SmartVid	12V DC/PoE	Remote Monitoring	ONVIF Ensures
Smart Video Coding				Compatibility

Image 7.1: H.265+ video coding efficiency.

8. WARRANTY AND SUPPORT

8.1 Manufacturer Information

Manufacturer: TP-Link Corporation, South Building, No.5 Keyuan Road, Central Zone, Science & Technology Park, Nanshan, Shenzhen, P.R. China

8.2 Importer Information (India)

Importer: TP-LINK India Private Limited, Green Industrial Park, Dongri Pada, Poman, Kaman-Bhiwandi Road, Vasai East, Palghar, Maharashtra – 401208
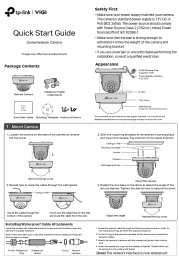**Contact:** Toll Free 1800 2094 168, support.in@tp-link.com
For warranty details and technical support, please refer to the official TP-Link website or contact the provided support channels.

Related Documents - VIGI C230

TP-Link VIGI C230 Network Camera Datasheet
Datasheet for the TP-Link VIGI C230 Full-Color Dome Network Camera, detailing features like Human & Vehicle Classification, Smart Detection, IK10 Vandal Proof, IP67 Waterproof, and technical specifications.

TP-Link VIGI C330 Outdoor Full-Color Bullet Network Camera Datasheet
Datasheet for the TP-Link VIGI C330 Outdoor Full-Color Bullet Network Camera, featuring 3MP resolution, H.265+ compression, Smart Detection, IP67 rating, and built-in microphone. Includes detailed specifications and compliance information.

TP-Link VIGI NVR2016H-16MP: 16-Channel PoE+ Network Video Recorder
Explore the TP-Link VIGI NVR2016H-16MP, a robust 16-channel PoE+ Network Video Recorder designed for comprehensive surveillance. This device offers 4K HDMI output, H.265+ video compression, a 140W PoE budget for powering cameras, and convenient remote management via the VIGI app and PC client. It supports up to 16TB per HDD and ensures broad compatibility with ONVIF.

[TP-Link VIGI Dome Network Camera Quick Start Guide | Installation & Setup](#)
Comprehensive quick start guide for the TP-Link VIGI Dome Network Camera. Learn about package contents, safety precautions, camera appearance, step-by-step installation, waterproof cable setup, and integration with VIGI NVRs or other systems.

[TP-Link VIGI InSight S285 Full-Color Dome Network Camera Datasheet](#)
Datasheet for the TP-Link VIGI InSight S285 Full-Color Dome Network Camera, detailing its specifications, features like Human & Vehicle Classification, Smart Detection, VIGI Surveillance Solution, and flexible installation.

[TP-Link VIGI Network Camera Quick Start Guide](#)
A quick start guide for setting up and using the TP-Link VIGI Network Camera, covering mounting, NVR integration, and management methods via the VIGI app or web browser.