Ubiquiti Networks UVC-AI-Turret-W

Ubiquiti Networks AI Turret (UVC-AI-Turret-W)

INSTRUCTION MANUAL

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Ubiquiti Networks AI Turret (UVC-AI-Turret-W). This device is an all-weather, vandal-proof 4K PoE+ turret camera designed for advanced surveillance with enhanced AI capabilities, infrared (IR), and visible LEDs for superior night vision.



Figure 1: Front angled view of the Ubiquiti AI Turret camera, showcasing its lens and illuminated blue LED ring.

Setup

Follow these steps to properly set up your AI Turret camera.

1. Unpacking and Inspection

Carefully remove all components from the packaging. Verify that all items listed in the "What's in the Box" section are present and undamaged. The package should include the camera body and mounting hardware for ceiling or wall installation.

2. Mounting the Camera

The AI Turret is designed for outdoor use and supports ceiling or wall mounting. Choose a location that provides optimal viewing coverage and is within reach of a Power over Ethernet (PoE+) connection.

1. Secure the mounting base to the desired surface using the provided screws. Ensure the mounting surface is robust enough to support the camera's weight.
2. Attach the camera body to the mounting base, aligning the locking mechanisms.
3. Adjust the camera's angle for the desired field of view.



Figure 2: Bottom view of the AI Turret, illustrating the mounting points and product identification label (M/N: UVC-AI-Turret-W, S/N: YYWWCXXXXXXXXXXXX).

3. Power and Network Connection

The AI Turret is powered and connected via Power over Ethernet Plus (PoE+). Connect an Ethernet cable from a PoE+ switch or injector to the camera's Ethernet port. The camera will power on automatically. For initial setup and management, use the UniFi Protect application on your smartphone (Android or iOS) or access the UniFi Protect interface via a web browser. Ensure your smartphone or computer is on the same network as the UniFi Protect NVR.

Operating the AI Turret

The AI Turret offers advanced surveillance features managed through the UniFi Protect system.

1. Video Monitoring and Recording

- **4K (8MP) Video Resolution:** The camera captures high-definition video, providing clear and detailed imagery.
- **Ultra-wide Viewing Angle:** With a 109.9° viewing angle, the camera covers a broad area.
- **Night Vision:** The camera features 40 m (131 ft) IR night vision and an integrated LED spotlight for color night vision in low-light conditions.
- **Edge Recording:** Supports Micro SD card for local recording, providing redundancy or standalone

operation without an NVR.



Figure 3: Front view of the AI Turret, illustrating the camera lens and integrated LED spotlight.

2. Advanced AI Capabilities

Leverage the camera's AI features for enhanced security:

- **Face Recognition:** Identify individuals within the camera's field of view.
- **License Plate Recognition:** Detect and record vehicle license plates.

These features are configurable within the UniFi Protect software.

3. Two-Way Audio

The integrated far-field microphone array enables two-way audio communication, allowing you to listen and speak through the camera via the UniFi Protect application.

Maintenance

Regular maintenance ensures optimal performance and longevity of your AI Turret camera.

1. Cleaning

Periodically clean the camera lens and housing with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the finish or lens coating. Ensure the camera is powered off before cleaning.

2. Firmware Updates

Ubiquiti Networks frequently releases firmware updates to improve performance, add features, and address security vulnerabilities. It is recommended to keep your camera's firmware updated through the UniFi Protect interface. Refer to the UniFi Protect documentation for detailed instructions on managing firmware updates.

Troubleshooting

If you encounter issues with your AI Turret, refer to the following common troubleshooting steps:

- **No Power/No Connectivity:**
  - Ensure the Ethernet cable is securely connected to both the camera and a PoE+ compliant switch or injector.
  - Verify that the PoE+ switch/injector is powered on and functioning correctly.
  - Try a different Ethernet cable or port.
- **Video Feed Issues:**
  - Check network connectivity between the camera and the UniFi Protect NVR.
  - Ensure sufficient bandwidth is available on your network.
  - Restart the camera by disconnecting and reconnecting the PoE+ cable.
  - Verify camera settings within UniFi Protect.
- **AI Features Not Working:**
  - Confirm that AI features (face/license plate recognition) are enabled and configured correctly in UniFi Protect.
  - Ensure the camera's field of view is clear and lighting conditions are adequate for detection.
  - Update camera firmware to the latest version.

For further assistance, consult the Ubiquiti Networks support resources or contact their customer service.

Specifications

Key technical specifications for the Ubiquiti Networks AI Turret (UVC-AI-Turret-W):

Feature	Detail
Model Name	UVC-AI-Turret-W
Indoor/Outdoor Usage	Outdoor
Video Capture Resolution	4K (8MP)
Viewing Angle	109.9°
Night Vision	40 m (131 ft) IR, Integrated LED Spotlight for Color Night Vision
AI Capabilities	Face Recognition, License Plate Recognition

Feature	Detail
Audio	Far-field microphone array for two-way audio
Power Source	PoE+ (Power over Ethernet Plus)
Connectivity Technology	Wireless (Wi-Fi for management), Wired (Ethernet for PoE+)
Compatible Devices	Smartphone (Android, iOS)
Mounting Type	Ceiling Mount, Wall Mount
Storage	Micro SD card support for edge recording (32 GB Flash Memory Installed Size)
International Protection Rating	IP67 (Weatherproof)
Product Dimensions (L x W x H)	10 x 8 x 7 inches
Item Weight	1.43 pounds (650 Grams)
UPC	810084698457

Warranty Information

Ubiquiti Networks products typically come with a limited warranty. For specific warranty terms and conditions applicable to your AI Turret (UVC-AI-Turret-W), please refer to the warranty documentation included with your purchase or visit the official Ubiquiti Networks website. Keep your proof of purchase for warranty claims.

Customer Support

For technical assistance, product inquiries, or troubleshooting beyond the scope of this manual, please contact Ubiquiti Networks customer support. You can find contact information and additional resources, including FAQs and community forums, on the official Ubiquiti Networks website:
Website: www.ui.com/support
Please have your product model number (UVC-AI-Turret-W) and serial number (found on the bottom of the device, e.g., YYWWCXXXXXXXXXXX) ready when contacting support.