Panasonic AW-HE130

Panasonic AW-HE130 HD Integrated PTZ Camera User Manual

Model: AW-HE130

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the Panasonic AW-HE130 HD Integrated PTZ Camera. Please read this manual thoroughly before operating the camera and retain it for future reference. The AW-HE130 is designed for professional applications requiring high-quality video capture and flexible remote control, such as sports, news, and corporate events.

2. PRODUCT OVERVIEW

The Panasonic AW-HE130 is a high-definition integrated Pan/Tilt/Zoom (PTZ) camera featuring a 1/2.86" 3MOS sensor and an advanced digital signal processor. It is equipped with a motorized 20x optical zoom lens and supports multiple video output formats, including IP, SDI, and HDMI. Key features include:

- **High-Sensitivity 3MOS Sensor:** Ensures high image quality even in low-light conditions.
- **20x Optical Zoom Lens:** Provides versatile framing options for various environments.
- **Multi-Format IP Transmission:** Capable of transmitting up to four channels over IP (1080p60, 1080p30, 720p30) simultaneously with SDI/HDMI output.
- **Power-over-Ethernet+ (PoE+):** Simplifies installation by providing power and data over a single Ethernet cable.
- **12-Axis Color Correction:** Allows for precise color adjustments.
- **Built-in ND Filters and Optical Image Stabilization (OIS):** Enhances image quality in challenging lighting and motion scenarios.

Figure 1: Front-rear view of the Panasonic AW-HE130 camera, highlighting its compact design and various input/output ports on the base.

3. Setup and Installation

Proper setup is crucial for optimal performance. Follow these steps for initial installation:

1. **Mounting:** Securely mount the camera on a stable surface or compatible mounting bracket. Ensure proper ventilation around the unit.

2. **Power Connection:**

   - **PoE+ (Power over Ethernet Plus):** Connect a single Ethernet cable from a PoE+ compatible network switch or injector to the camera's LAN port. This provides both power and network connectivity.

   - **External Power Supply:** Alternatively, connect the supplied AC adapter to the camera's DC IN port and then to a power outlet.

3. **Network Connection:** If not using PoE+, connect an Ethernet cable from the camera's LAN port to your network switch or router for IP control and streaming.

4. **Video Output Connections:**

- **SDI Output:** Connect an SDI cable from the camera's SDI OUT port to a compatible SDI monitor or video switcher.
- **HDMI Output:** Connect an HDMI cable from the camera's HDMI OUT port to an HDMI monitor or video switcher.

5. **Control Connections (Optional):**

- **RS-422:** For serial control, connect an RS-422 cable to the appropriate port.*Note: Do not connect a PoE cable to the RS-422 port.*
- **Remote Control:** Connect to a compatible Panasonic remote camera controller via IP or serial connection.

Figure 2: Detailed view of the AW-HE130's rear panel, illustrating the various connectivity options for power, network, and video outputs.

4. OPERATING INSTRUCTIONS

Once the camera is set up, you can begin operation using a compatible controller or web interface.

4.1. Powering On and Initial Access

- Ensure all connections are secure.
- Power on the camera. The camera will perform a self-test and initialize.
- Access the camera's web interface by entering its IP address into a web browser. Refer to the network settings for the default IP address or how to discover it on your network.

4.2. Pan, Tilt, and Zoom Control

Use the connected remote controller or the web interface to manipulate the camera's pan, tilt, and zoom functions. Adjust speed settings for smooth camera movements.

4.3. Image Settings

Adjust image parameters such as exposure, white balance, gain, and focus through the control interface. Utilize the 12-axis color correction for fine-tuning color reproduction. The built-in ND filters can be engaged to manage bright lighting conditions.

4.4. IP Streaming

The AW-HE130 supports multiple IP streaming channels. Configure streaming settings (resolution, bitrate, protocol) via the web interface. The camera can multicast to up to 14 devices simultaneously.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your camera.

- **Cleaning:** Gently wipe the camera body with a soft, dry cloth. For the lens, use a lens cleaning cloth and solution specifically designed for optical surfaces. Avoid abrasive cleaners or solvents.
- **Firmware Updates:** Periodically check the Panasonic support website for firmware updates. Keeping the firmware current can improve performance, add features, and resolve potential issues. Follow the instructions provided with the firmware update carefully.
- **Environmental Conditions:** Operate and store the camera within the recommended temperature and humidity ranges to prevent damage. Avoid exposure to direct sunlight, excessive dust, or moisture.

6. TROUBLESHOOTING

If you encounter issues, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No power	Power cable disconnected, faulty power supply, or PoE+ issue.	Check power cable connections. Verify PoE+ switch functionality or use external power supply.
No video output (SDI/HDMI)	Incorrect cable connection, monitor input not selected, or camera output settings.	Ensure cables are securely connected. Select correct input on monitor. Check camera's video output settings via web interface.

Problem	Possible Cause	Solution
Cannot access camera via IP	Network cable disconnected, incorrect IP address, or network configuration issue.	Verify Ethernet cable connection. Confirm camera's IP address and ensure it's on the same subnet as the controlling device. Check network switch status.
PTZ control unresponsive	Control cable issue, incorrect control protocol, or camera in standby mode.	Check RS-422 or network cable. Ensure controller is set to the correct protocol and camera ID. Power cycle the camera.
Poor image quality	Incorrect exposure/white balance, dirty lens, or low-light conditions.	Adjust exposure, white balance, and gain settings. Clean the lens. Utilize ND filters if too bright.

If the problem persists after attempting these solutions, please contact Panasonic customer support.

7. SPECIFICATIONS

Below are the key technical specifications for the Panasonic AW-HE130 HD Integrated PTZ Camera:

Feature	Detail
Model Number	AW-HE130
Sensor	1/2.86" 3MOS Sensor
Lens	20x Optical Zoom
Video Output	SDI (up to 1080p60), HDMI (up to 1080p60), IP (up to 1080p60)
IP Streaming	4 channels (1080p60, 1080p30, 720p30), Multicast to up to 14 devices
Power Supply	PoE+ (IEEE 802.3at) or External DC 12V
Control Interface	IP, RS-422
Dimensions (W x H x D)	7.1 x 9 x 9.2 inches (approximate)
Weight	6.9 pounds (approximate)
Special Features	12-Axis Color Correction, Built-in ND Filters, Optical Image Stabilization (OIS)

8. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official Panasonic website. For technical support, service, or inquiries, please contact Panasonic customer service through their official support channels. Have your model number (AW-HE130) and serial number ready when contacting support.
Panasonic Official Website: na.panasonic.com/us/