Panasonic AW-HE130

Panasonic AW-HE130 HD Integrated PTZ Camera User Manual

Model: AW-HE130

1. INTRODUCTION

The Panasonic AW-HE130 HD Integrated PTZ Camera is a high-performance pan/tilt/zoom camera designed for professional video production, broadcasting, and live event applications. It features a high-sensitivity 1/2.86" 3MOS sensor and a 20x optical zoom lens, capable of capturing high-definition video even in low-light conditions. This manual provides essential information for the safe and effective installation, operation, and maintenance of your AW-HE130 camera.

Figure 1: Front and side view of the Panasonic AW-HE130 HD Integrated PTZ Camera. This image shows the camera's lens, pan/tilt mechanism, and base unit.

1.1. Included Components

Verify that all the following items are included in your package:

- Panasonic AW-HE130 HD Integrated PTZ Camera (White)
- Mount Bracket
- Drop-Prevention Wire Bracket
- Mounting Screws (Bind-Head, M4 x 10mm)

- Main Unit Mounting Screw (M3 x 6mm)
- Cable Cover
- Power Cable
- AC Adapter

2. SAFETY INFORMATION

Read all safety instructions carefully before using the camera. Failure to follow these instructions may result in injury or damage to the product.

- **Power Source:** Use only the specified AC adapter and power cable. Ensure the power supply voltage matches the camera's requirements.
- **Installation:** Install the camera on a stable surface or mount securely using the provided brackets and screws. Ensure the mounting location can support the camera's weight.
- **Environment:** This camera is designed for indoor use. Avoid exposing it to rain, moisture, direct sunlight, extreme temperatures, or excessive dust.
- **Handling:** Do not attempt to disassemble or modify the camera. Refer all servicing to qualified personnel.
- **Cables:** Route cables carefully to prevent tripping hazards or damage. Do not connect PoE+ cables to non-PoE ports.

3. SETUP

3.1. Mounting the Camera

The AW-HE130 can be mounted on a wall or ceiling using the included mount bracket. Ensure the mounting surface is strong enough to support the camera's weight (approximately 12.13 pounds).

1. Attach the mount bracket to the desired location using the appropriate mounting screws.
2. Secure the camera to the mount bracket using the main unit mounting screw.
3. Attach the drop-prevention wire bracket as an additional safety measure.

3.2. Connecting Cables

Connect the necessary cables to the rear panel of the camera. Refer to Figure 2 for port locations.

Figure 2: Rear view of the Panasonic AW-HE130 HD Integrated PTZ Camera, showing various input/output ports including IP, SDI, HDMI, and power connections.

- **Power:** Connect the AC adapter to the camera's power input or use a Power-over-Ethernet+ (PoE+) compatible network switch/injector for power and data via a single Ethernet cable.
- **Network (IP):** Connect an Ethernet cable to the LAN port for IP control and video transmission. Ensure the network supports PoE+ if using it for power.
- **Video Output:**

- **SDI:** Connect an SDI cable to the SDI OUT port for professional video output.
    - **HDMI:** Connect an HDMI cable to the HDMI OUT port for high-definition video output.
- **Control:** Connect a control cable (e.g., RS-422) to the appropriate control port for external PTZ controller integration.

4. OPERATING INSTRUCTIONS

4.1. Powering On/Off

To power on the camera, connect the power cable or PoE+ Ethernet cable. The camera will initiate its startup sequence. To power off, disconnect the power source.

4.2. PTZ Control

The camera's pan, tilt, and zoom functions can be controlled remotely via a compatible controller (e.g., an Android device or dedicated PTZ controller) connected over the network or via serial communication. The 20x optical zoom lens allows for precise framing.

4.3. Video Transmission

The AW-HE130 supports multiple video output and transmission methods:

- **IP Transmission:** The camera can transmit up to four IP channels simultaneously.

    - Channel 1: Up to 1080p60 H.264
    - Channel 2: Up to 1080p30
    - Channels 3 & 4: Up to 720p30

    IP multicasting is supported, allowing simultaneous transmission to up to 14 devices, including Android devices.
- **SDI Output:** Supports up to 1080p60 video output.
- **HDMI Output:** Supports up to 1080p60 video output.

4.4. Image Settings

The camera incorporates advanced image processing features:

- **12-Axis Color Correction:** Allows for fine-tuning of color reproduction.
- **Built-in Neutral Density Filters:** Helps manage exposure in bright lighting conditions.
- **Optical Image Stabilization (OIS):** Reduces blur caused by camera shake.
- **Low Light Performance:** The 3MOS sensor and advanced digital signal processor are designed for high-quality image capture in challenging low-light environments, featuring "Night Color" technology.

5. MAINTENANCE

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

- **Cleaning the Lens:** Use a soft, lint-free cloth specifically designed for optical lenses. Avoid abrasive materials or harsh chemicals.
- **Cleaning the Camera Body:** Wipe the camera body with a soft, dry cloth. For stubborn dirt, slightly dampen the cloth with water. Do not use solvents or alcohol.
- **Storage:** When not in use for extended periods, store the camera in a clean, dry environment away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

If you encounter issues with your AW-HE130 camera, refer to the following common troubleshooting steps:

- **No Power:**

  - Ensure the power cable is securely connected to both the camera and a working power outlet.
  - If using PoE+, verify that the Ethernet cable is connected to a PoE+ compatible port and the network switch/injector is powered on.

- **No Video Output:**

  - Check all video cables (SDI, HDMI, Ethernet for IP) for secure connections.
  - Verify that the receiving device (monitor, switcher) is correctly configured for the input source and resolution.
  - Confirm the camera is powered on and functioning.

- **PTZ Control Not Responding:**

  - Ensure the control cable (if wired) or network connection (if IP control) is secure and active.
  - Verify that the control device (e.g., Android app, hardware controller) is properly configured and communicating with the camera.
  - Check the camera's network settings if using IP control.

- **Poor Image Quality:**

  - Clean the camera lens as described in the Maintenance section.
  - Check lighting conditions and adjust camera settings (e.g., exposure, white balance, ND filters) as needed.
  - Ensure the camera is not experiencing excessive vibration, which could affect image stability.

For persistent issues, please contact Panasonic customer support.

7. SPECIFICATIONS

Model Name	AW-HE130
Brand	Panasonic
Sensor	1/2.86" 3MOS Sensor
Zoom Type	20x Optical Zoom
Video Capture Resolution	Up to 1080p60 (IP, SDI, HDMI)
Connectivity Technology	Wired (IP, SDI, HDMI, RS-422)
Connectivity Protocol	Wi-Fi (for control via Android devices), IP
Power Source	AC/DC, Power-over-Ethernet+ (PoE+)
Indoor/Outdoor Usage	Indoor
Mounting Type	Wall Mount
Color	White
Item Weight	12.13 pounds (5.5 kg)

Package Dimensions	18 x 16 x 14 inches
Low Light Technology	Night Color
International Protection Rating	IP65
Control Method	Remote (via IP or serial)
Special Feature	PTZ Technology, 12-axis color correction, Built-in ND filters, Optical Image Stabilization

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official Panasonic website or contact your authorized Panasonic dealer. Keep your purchase receipt as proof of purchase for warranty claims.
You can find additional resources and contact information on the Panasonic Store.

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