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Panasonic AW-UE100KPJ

Panasonic AW-UE100 4K NDI Professional PTZ Camera User Manual

Model: AW-UE100KPJ

1. Introduction

This manual provides essential information for the safe and effective use of the Panasonic AW-UE100 4K NDI Professional PTZ Camera. The AW-UE100 is a high-performance PTZ camera designed for professional remote production and streaming applications. It supports 4K 60p video output and features advanced IP transmission protocols including High Bandwidth NDI, NDI|HX, SRT, and RTMP/RTMPS, alongside 12G-SDI output. Its compact design incorporates a 24x optical zoom lens and a wide 74.1-degree field of view.

2. Safety Information

Please read all safety instructions carefully before operating the camera. Retain this manual for future reference.

- **Power Supply:** Use only the specified AC adapter. Ensure the power source voltage matches the camera's requirements.
- **Placement:** Install the camera on a stable surface or mount securely. Avoid locations with excessive vibration, humidity, dust, or direct sunlight.
- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the camera to prevent overheating.
- **Liquid and Foreign Objects:** Prevent liquids or foreign objects from entering the camera body. If this occurs, disconnect power immediately and contact qualified service personnel.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

3. Package Contents

Verify that all items listed below are included in your package:

- Panasonic AW-UE100 4K NDI Professional PTZ Camera
- AC Adapter

4. Setup

4.1 Unpacking and Initial Inspection

Carefully remove the camera and accessories from the packaging. Inspect all components for any signs of damage. If any damage is found, contact your dealer immediately.

4.2 Camera Overview



Figure 4.2.1: Front view of the Panasonic AW-UE100 camera, showing the lens, Panasonic logo, and power/standby indicators.



Figure 4.2.2: Rear view of the Panasonic AW-UE100 camera, detailing the G/L IN, AUDIO IN, DC IN 12V, LAN, RS-422, 3G SDI OUT, 12G SDI OUT, IR ID, HDMI, and SERVICE ports.

4.3 Connections

1. **Power Connection:** Connect the supplied AC adapter to the DC IN 12V port on the rear of the camera. Plug the AC adapter into a suitable power outlet.
2. **Network Connection (LAN):** Connect an Ethernet cable from your network switch or router to the LAN port on the camera. This connection is essential for NDI, NDI|HX, SRT, RTMP/RTMPS, and IP control.
3. **Video Output:**
    - **12G-SDI OUT:** For high-quality 4K video output to compatible SDI devices.

    - **3G SDI OUT:** For HD video output to compatible SDI devices.
    - **HDMI:** For direct connection to an HDMI display or capture device.
4. **Audio Input:** Connect an audio source to the AUDIO IN port if external audio is required.
5. **Control Connection (RS-422):** For serial control using compatible PTZ controllers.

4.4 Initial Configuration (IP Settings)

Upon initial power-up, the camera will attempt to obtain an IP address via DHCP. If DHCP is not available or a static IP is preferred, you will need to access the camera's web interface. Refer to the Panasonic support website for detailed instructions on accessing and configuring network settings.

5. Operating Instructions

5.1 Basic Camera Control

The AW-UE100 can be controlled via IP using a web browser, a dedicated PTZ controller, or software applications that support NDI or other IP protocols.

- **Pan/Tilt:** Adjust the camera's horizontal and vertical orientation.
- **Zoom:** Utilize the 24x optical zoom to adjust the focal length.
- **Focus:** The camera supports auto-focus. Manual focus adjustment is also available via control interfaces.
- **Exposure:** Automatic exposure control is standard. Manual adjustments for iris, gain, and shutter speed are accessible.

5.2 IP Transmission Protocols

The camera supports various IP protocols for video transmission:

- **NDI (High Bandwidth):** Provides high-quality 4K 60p video with low latency over a single LAN cable. Ideal for professional broadcast and production environments.
- **NDI|HX (High Efficiency):** Offers efficient video transmission at lower bitrates, suitable for networks with bandwidth limitations.
- **SRT (Secure Reliable Transport):** Ensures stable and high-quality video transmission even in unstable network environments.
- **RTMP/RTMPS:** Enables direct streaming to popular live broadcasting services like YouTube Live and Facebook Live.

Configuration of these protocols is typically done through the camera's web interface or compatible control software.

6. Maintenance

6.1 Cleaning

- **Camera Body:** Use a soft, dry cloth to wipe the camera body. For stubborn dirt, dampen the cloth slightly with water and then wipe dry. Do not use strong detergents or abrasive cleaners.
- **Lens:** Use a lens brush or a soft, lint-free cloth specifically designed for optical lenses. Avoid touching the lens surface with your fingers.

6.2 Firmware Updates

Periodically check the Panasonic official website for firmware updates. Keeping your camera's firmware up-to-date ensures optimal performance, new features, and bug fixes. Follow the instructions provided with the firmware update package carefully.

6.3 Storage

When not in use for extended periods, store the camera in a cool, dry place, away from direct sunlight and extreme temperatures. Use the original packaging or a protective case to prevent dust accumulation and physical damage.

7. Troubleshooting

This section addresses common issues you might encounter. For more complex problems, refer to the Panasonic support website or contact customer service.

Problem	Possible Cause	Solution
No power	AC adapter not connected or faulty; power outlet issue.	Ensure AC adapter is securely connected. Try a different power outlet. Check the AC adapter for damage.
No video output	Incorrect cable connection; wrong input selected on display; camera settings.	Verify SDI/HDMI/LAN cable connections. Ensure the display is on the correct input. Check camera's video output settings via web interface.
Cannot control camera via IP	Network connectivity issue; incorrect IP address; firewall blocking.	Check network cable. Verify camera's IP address and subnet mask. Ensure your control device is on the same network. Temporarily disable firewalls for testing.
Image is blurry	Focus issue; dirty lens.	Adjust focus manually or use auto-focus. Clean the lens as described in the Maintenance section.

8. Specifications

Feature	Detail
Model Number	AW-UE100KPJ
Product Dimensions	16 x 14 x 13 inches
Item Weight	9.69 pounds
Optical Zoom	24x
Field of View	74.1 Degrees
Video Output	4K 60p, 12G-SDI, 3G-SDI, HDMI
IP Protocols	NDI (High Bandwidth), NDI|HX, SRT, RTMP/RTMPS
Manufacturer	Panasonic
Date First Available	October 26, 2021

9. Warranty and Support

9.1 Warranty Information

The Panasonic AW-UE100 4K NDI Professional PTZ Camera comes with a**Panasonic 1 Year Limited Warranty**.

Please retain your proof of purchase for warranty claims. For full terms and conditions of the warranty, refer to the documentation provided with your product or visit the official Panasonic website.

9.2 Customer Support

For technical assistance, product information, or service inquiries, please visit the official Panasonic support website or contact their customer service department. Up-to-date contact information and resources can be found on the Panasonic website.

Panasonic Official Website: www.panasonic.com

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