AIDA Imaging PTZ-NDI-X18B

AIDA Imaging PTZ-NDI-X18B Broadcast NDI|HX FHD NDI/IP/HDMI 18X Zoom PTZ Camera User Manual

Model: PTZ-NDI-X18B | Brand: AIDA Imaging

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your AIDA Imaging PTZ-NDI-X18B Broadcast NDI|HX FHD NDI/IP/HDMI 18X Zoom PTZ Camera. Please read this manual thoroughly before using the product to ensure proper functionality and to prevent damage.

Figure 1: Front view of the AIDA Imaging PTZ-NDI-X18B Camera, showcasing its compact design and NDI|HX branding.

What's in the Box

- AIDA Imaging Full HD NDI|HX Broadcast PTZ Camera with 18x Optical Zoom (Black)
- Remote Control
- Camera Mounting Bracket
- Power Adapter
- Power Cable
- Limited 2-Year Warranty Information

SETUP

Follow these steps to set up your PTZ camera for initial use.

1. **Unpacking:** Carefully remove all components from the packaging. Verify that all items listed in "What's in the Box" are present.
2. **Mounting:** The camera supports wall mounting. Use the provided camera mounting bracket to securely install the camera in your desired location. Ensure the mounting surface is stable and can support the camera's weight.
3. **Power Connection:** Connect the power adapter to the camera's DC12V input port and then plug the

power cable into a suitable power outlet.

4. **Video Output Connection:**

   - **HDMI Output:** Connect an HDMI cable from the camera's HDMI port to your display or video switcher.
   - **IP/NDI Output:** Connect an Ethernet cable from the camera's NDI/IP port to your network switch or router. This enables NDI|HX streaming and IP control.

5. **Audio Input (Optional):** If external audio is required, connect an audio source to the "Line in" port.

6. **Control Connections (Optional):** For RS232 control, connect appropriate cables to the IN-RS232-OUT ports.

Figure 2: Rear view of the camera showing connection ports including RS232, HDMI, Line In, NDI/IP, and DC12V power input.

OPERATING INSTRUCTIONS

This section details the basic operation of the PTZ-NDI-X18B camera.

Powering On/Off

Once connected to power, the camera will automatically power on. To power off, disconnect the power cable.

Pan, Tilt, and Zoom (PTZ) Control

The camera features pan, tilt, and 18x optical zoom capabilities. Control can be achieved via the included remote control or through NDI|HX protocol over the network.

- **Remote Control:** Use the directional buttons on the remote to pan and tilt the camera. Use the zoom buttons to adjust the 18x optical zoom.
- **NDI|HX Control:** Connect the camera to an NDI-compatible network. Use NDI-enabled software or hardware controllers to remotely control pan, tilt, and zoom functions with low latency.

Video Output

The camera provides simultaneous IP and HDMI outputs. This allows for flexible integration into various production workflows.

- **HDMI:** Provides a direct Full HD video feed to a monitor or switcher.
- **NDI|HX:** Streams Full HD video and audio over your network with low latency, compatible with NDI-enabled devices and software.

Image Quality Features

The camera utilizes a Full HD Progressive Scan sensor and an advanced digital image processor to deliver sharp, vivid images. It also includes a motion-compensated temporal noise reduction filter for clear video even in challenging lighting conditions.

MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to clean the camera body. For the lens, use a specialized lens cleaning cloth and solution. Avoid harsh chemicals or abrasive materials.
- **Firmware Updates:** Periodically check the AIDA Imaging website for firmware updates. Keeping the firmware current can improve performance and add new features.
- **Environmental Conditions:** Operate the camera within recommended temperature and humidity ranges. Avoid exposing the camera to extreme temperatures, moisture, or dust.

TROUBLESHOOTING

If you encounter issues with your camera, refer to the following common problems and solutions.

- **No Power:**

    - Ensure the power adapter is securely connected to both the camera and a working power outlet.
    - Verify the power cable is not damaged.

- **No Video Output (HDMI):**

    - Check the HDMI cable connection at both the camera and the display/switcher.
    - Try a different HDMI cable or input port on your display.
    - Ensure the display is set to the correct input source.

- **No Video Output (NDI/IP):**

    - Verify the Ethernet cable is securely connected and the network is active.

- Ensure your NDI-compatible software or hardware is properly configured to detect NDI sources on the network.
- Check the camera's IP settings (refer to advanced network configuration documentation if needed).

- **PTZ Control Not Responding:**

  - For remote control, ensure batteries are functional and there are no obstructions.
  - For NDI|HX control, verify network connectivity and NDI control software settings.

- **Poor Image Quality:**

  - Ensure the lens is clean and free of dust or smudges.
  - Check lighting conditions in the environment.
  - Verify camera settings (e.g., exposure, white balance) are appropriate for the current environment.

If the problem persists, please contact AIDA Imaging customer support.

SPECIFICATIONS

Feature	Detail
Model Number	PTZ-NDI-X18B
Product Dimensions	7.48 x 7.8 x 2.95 inches
Item Weight	7.19 pounds
Brand	AIDA Imaging
Photo Sensor Technology	CMOS
Video Capture Resolution	1080p (Full HD)
Optical Zoom	18x
Maximum Focal Length	1 Millimeter
Maximum Aperture	3.5 f
Connectivity Technology	Wireless (Wi-Fi), NDI|HX, IP, HDMI, RS232
Mounting Type	Wall Mount

WARRANTY AND SUPPORT

Warranty Information

This AIDA Imaging PTZ-NDI-X18B camera comes with a Limited 2-Year Warranty. Please refer to the warranty card included in your product packaging for full terms and conditions.

Customer Support

For technical assistance, troubleshooting not covered in this manual, or warranty claims, please contact

AIDA Imaging customer support through their official website or the contact information provided with your purchase.

Website: www.aidaimaging.com

Related Documents - PTZ-NDI-X18B

<table>
<tr>
<td>
AIDA Imaging HTTP Access Guide
For IP Video Cameras Only
OCT 2024 Revision</td>
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AIDA Imaging HTTP Access Guide for IP Video Cameras
This guide provides detailed instructions for accessing and controlling AIDA Imaging IP video cameras via HTTP, covering network settings, video/audio encoding, streaming protocols, and image control.

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<tr>
<td>HD-NDI-X20
Full-HD NDI®|HX2 POV Camera

Version 1.0
AIDA</td>
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AIDA HD-NDI-X20 Full-HD NDI|HX2 POV Camera User Manual and Specifications
Detailed user manual for the AIDA HD-NDI-X20 Full-HD NDI|HX2 POV Camera. Covers safety guidelines, packing list, product highlights, detailed specifications, OSD menu configuration, web interface settings, VISCA control, NDI|HX2 protocol explanation, and warranty information.

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AIDA CCU-IP Professional Broadcast PTZ Joystick Controller Operation Guide
Comprehensive operation guide for the AIDA CCU-IP Professional Broadcast PTZ Joystick Controller, covering features, setup, connections, configurations, and troubleshooting.

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<tr>
<td>HD-NDI-200
Full-HD NDI®|HX2 POV Camera

Version 2.0
AIDA</td>
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AIDA HD-NDI-200 Full-HD NDI® | HX2 POV Camera User Manual
Comprehensive user manual for the AIDA HD-NDI-200 Full-HD NDI® | HX2 POV Camera, covering safety, setup, specifications, OSD menu, web settings, VISCA control, NDI® | HX2 protocol, and warranty information.

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<td>
UHD6G-X12L
Micro UHD HDMI Optical Zoom EFP Camera
Operation Guide</td>
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AIDA UHD6G-X12L Micro UHD HDMI Optical Zoom EFP Camera Operation Guide
Comprehensive operation guide for the AIDA UHD6G-X12L Micro UHD HDMI Optical Zoom EFP Camera, detailing safety precautions, features, OSD menu controls, and technical specifications for professional broadcast and video applications.

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4K 60p POV Camera
UHD-200A</td>
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AIDA IMAGING UHD-200A 4K 60p POV Camera Operation Guide | Features & Specifications
Comprehensive operation guide for the AIDA IMAGING UHD-200A 4K 60p POV Camera, detailing features, OSD menu settings, connections, specifications, safety information, and support contacts.

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