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FEELWORLD NDI20X

FEELWORLD NDI20X PTZ Camera User Manual

Model: NDI20X

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your FEELWORLD NDI20X PTZ Camera. The NDI20X is designed for professional video production, offering high-quality 1080P 60fps video with 20X optical zoom, NDI|HX support, and Power over Ethernet (PoE) capabilities. It is suitable for various applications including church streaming, video conferencing, sports events, and online education.



Figure 1.1: FEELWORLD NDI20X PTZ Camera overview, highlighting 20X optical zoom, 1080P 60fps resolution, pan/tilt capabilities, and multiple video outputs including 3G-SDI, HDMI, and NDI.

2. Product Overview

2.1 Key Features

- **NDI|HX and PoE Support:** The camera supports the NDI|HX interface transmission protocol for low-latency video and audio. Power over Ethernet (PoE) allows for power, video/audio streaming, and control via a single Ethernet cable.
- **High Resolution and Optical Zoom:** Delivers 1080P at 60 frames per second (fps) with excellent color reproduction. The 20X optical zoom lens provides clear close-ups even from a distance.
- **Low Light Correction and Auto Focus:** Advanced low-light performance technology automatically adjusts brightness levels, ensuring clear images in dark or backlit conditions. Auto-focus maintains sharp images during zoom or movement.
- **Efficient Encoding and Presets:** Supports H.264 and H.265 video compression for smooth, clear motion video under low bandwidth. Features 10 preset positions via IR remote controller and up to 255 preset positions via web server for pan, tilt, and zoom settings.
- **Multiple Control Methods:** Can be controlled using the included IR remote, WBESREVER software (web browser), or

FEELWORLD L2 PLUS video switcher.

2.2 What's in the Box

Verify that all items are present before proceeding with installation:

- Video Camera (NDI20X PTZ Camera)
- Remote Control
- RS232 Control Cable
- RS485 Terminal Block
- Power Adapter
- Manual (EU Standard)
- Manual (US Standard)

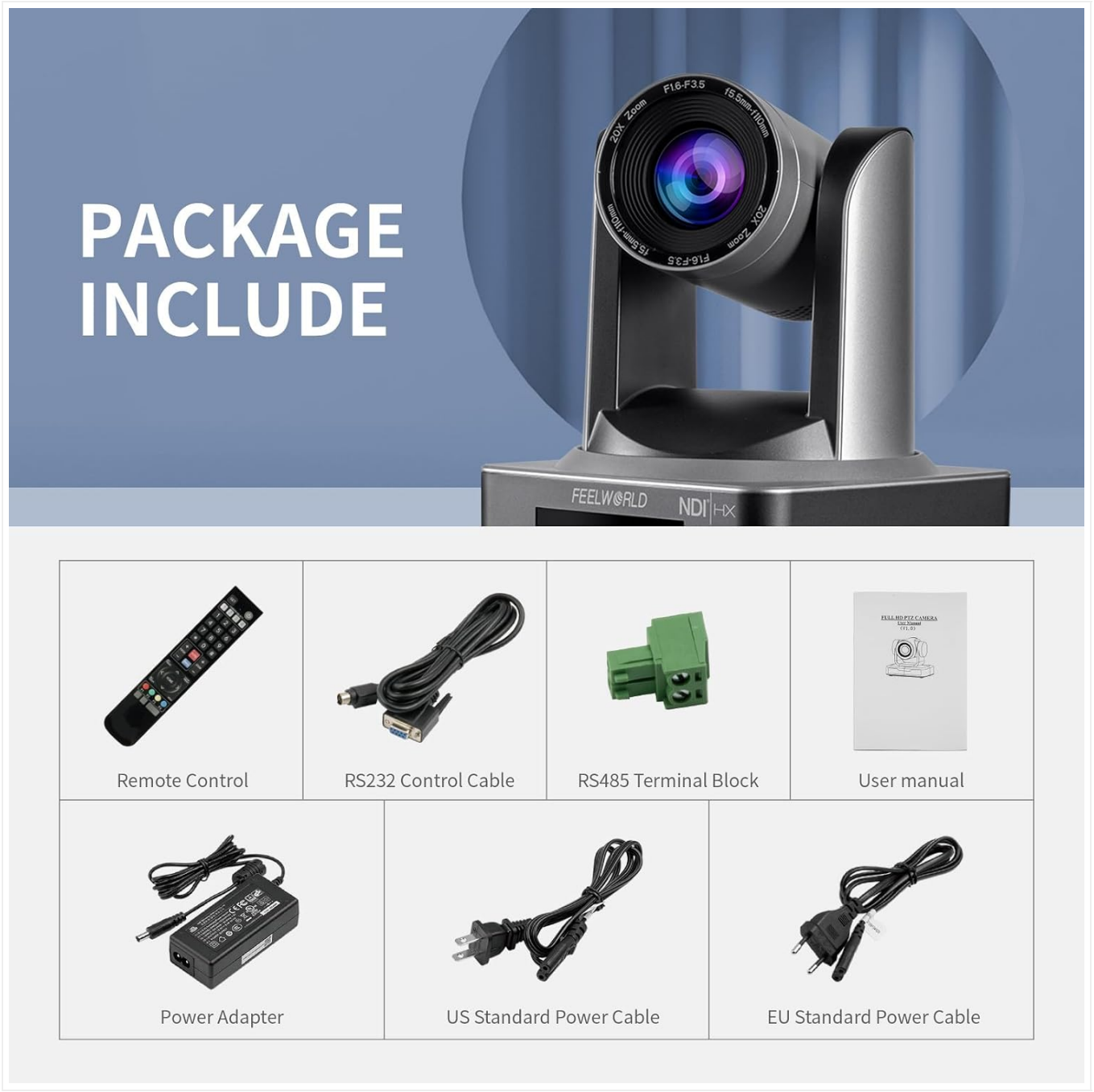

Figure 2.1: Package contents for the FEELWORLD NDI20X PTZ Camera.

3. Setup

3.1 Physical Connections

The NDI20X camera offers multiple output interfaces for versatile integration into your video production workflow.

1. **Power Connection:** Connect the provided power adapter to the DC12V port on the camera. Alternatively, if using PoE, connect an Ethernet cable from a PoE-enabled network switch to the NDI port.
2. **Video Output:**
    - **3G-SDI:** Connect a 3G-SDI cable to a compatible video switcher or monitor.
    - **HDMI:** Connect an HDMI cable to an HDMI input device, such as a monitor, video switcher, or HDMI-to-USB converter for computer input.
    - **NDI (Ethernet):** Connect an Ethernet cable to a network switch for NDI|HX streaming and control. This port also supports PoE.
3. **Audio Input:** Connect an external microphone to the A-IN port for audio input.
4. **Control Connections:**
    - **RS232/RS485:** Use the RS232 or RS485 ports with the provided terminal block for serial control from a PTZ controller.
    - **NDI (Ethernet):** Control the camera via IP using the NDI protocol.



Figure 3.1: Rear panel connections of the NDI20X camera.



Figure 3.2: Easy connection diagram for the NDI20X camera.

3.2 Installation Flexibility

The NDI20X camera offers flexible installation options to suit various environments. It can be mounted on a wall, ceiling, or tripod (mounting brackets not included).



Figure 3.3: Examples of NDI20X camera installation options: wall mount, ceiling mount, and tripod mount.

▶ **Watch video online**
FEELWORLD NDI20X Simultaneous 3G-SDI/HDMI/NDI/IP PTZ Camera

Video 3.1: An overview of the FEELWORLD NDI20X PTZ Camera, demonstrating its features, connectivity, and applications in live streaming and multi-camera productions.

4. Operating Instructions

4.1 Camera Control

The NDI20X camera can be controlled through several methods:

- **IR Remote Control:** Use the included IR remote to control camera functions such as pan, tilt, zoom, focus, and to set/recall up to 10 preset positions.
- **Web Browser Control:** Access the camera's web interface via an IP connection to control all functions and manage up to 255 preset positions.

- **PTZ Controller:** Connect a dedicated PTZ controller (e.g., FEELWORLD KBC10) via RS232, RS485, or IP for advanced control of multiple cameras.
- **Video Switcher:** Integrate with a video switcher (e.g., FEELWORLD L2 PLUS) for seamless control during live productions.



Figure 4.1: Multiple control options for the NDI20X camera.



Figure 4.2: IR Remote Control functions and layout.

4.2 Preset Positions

The camera supports storing and recalling preset positions. This allows for quick transitions between different camera angles and zoom levels. Use the IR remote for 10 presets or the web interface for up to 255 presets.

4.3 Image Settings

Adjust image parameters such as brightness, contrast, sharpness, and color settings via the camera's menu (accessible through the IR remote or web interface) to optimize video quality for your specific environment.

4.4 Live Streaming and Multi-Platform Compatibility

The NDI20X is compatible with various streaming platforms and software, enabling easy integration into your live production setup. It supports direct streaming to platforms like YouTube, OBS Studio, vMix, Facebook, and more.



Figure 4.3: Multi-camera live streaming solution examples.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your NDI20X PTZ Camera.

- **Cleaning:** Use a soft, dry cloth to clean the camera body. For the lens, use a specialized lens cleaning cloth and solution. Avoid abrasive cleaners or solvents.
- **Storage:** When not in use, store the camera in a dry, dust-free environment. Protect the lens with its cap.
- **Firmware Updates:** Periodically check the FEELWORLD official website for firmware updates to ensure your camera has the latest features and performance improvements.
- **Cable Management:** Ensure all cables are securely connected and not under strain to prevent damage to ports or cables.

6. Troubleshooting

If you encounter issues with your NDI20X PTZ Camera, refer to the following common troubleshooting steps:

- **No Power:** Ensure the power adapter is correctly connected and the power outlet is functional. If using PoE, verify the Ethernet cable is connected to a PoE-enabled port and the switch is powered.
- **No Video Output:** Check all video cables (HDMI, SDI, Ethernet) for secure connections. Verify the input source on your monitor or switcher is correctly selected. Ensure the camera is powered on.
- **No Control Response:**
    - **IR Remote:** Check remote batteries. Ensure there are no obstructions between the remote and the camera's IR receiver.
    - **IP Control:** Verify the camera's IP address and network settings. Ensure the camera and control device are on the same network.
    - **Serial Control (RS232/RS485):** Check cable connections and ensure the correct communication parameters (baud rate, data bits, stop bits) are set on both the camera and the controller.
- **Image Blurry/Out of Focus:** Ensure auto-focus is enabled, or manually adjust focus using the remote or web interface. Clean the lens if necessary.
- **Poor Image Quality in Low Light:** Verify that low light correction features are enabled in the camera settings. Ensure adequate lighting in the environment if possible.

If the issue persists after following these steps, please contact FEELWORLD customer support for further assistance.

7. Specifications

Feature	Specification
Brand	FEELWORLD
Model Number	NDI20X
Photo Sensor Technology	CMOS
Video Capture Resolution	1080p
Optical Zoom	20x
Maximum Aperture	1.6 Millimeters
Connectivity Technology	Wired (NDI, HDMI, 3G-SDI, RS232, RS485)
Special Feature	Low Light Correction, Auto Focus
Image Stabilization	Optical
File Format	MP4 (H.264, H.265)
Operating System Compatibility	Android, iOS (for web browser control)

8. Warranty and Support

FEELWORLD products are designed for reliability and performance. For specific warranty information, please refer to the warranty card included with your product or visit the official FEELWORLD website. In case of technical issues or questions not covered in this manual, please contact FEELWORLD customer support.

Customer Support: Refer to the contact information provided in your product packaging or on the official FEELWORLD website.

Return Policy: The standard return policy allows for returns within 30 days for refund or replacement. Please check with your retailer for specific terms and conditions.

Protection Plans: Additional protection plans may be available for purchase. Consult your retailer for details on extended warranties or complete protection options.

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