

NearStream VM33 Gen 2

NearStream VM33 Gen 2 Wireless Streaming Camera

Instruction Manual

INTRODUCTION

This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your NearStream VM33 Gen 2 Wireless Streaming Camera. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.

The NearStream VM33 Gen 2 is a professional 2K wireless streaming camera designed for various applications, including live streaming for churches, sports events, lectures, and content creation. It features a powerful 40X hybrid zoom, an 8-mic array with AI noise reduction, and versatile connectivity options.

WHAT'S IN THE BOX

Upon unboxing your NearStream VM33 Gen 2 camera, verify that all components are present:

- Camera body (1 unit)
- USB 2.0 Type-C data cable (1 unit)
- User manual (1 unit)
- Warranty card (1 unit)

SETUP

1. Initial Charging

Before first use, fully charge the camera using the provided USB-C cable. The built-in rechargeable battery provides up to 6 hours of continuous livestreaming on a full charge.

2. App Installation and Camera Connection

The NearStream app is essential for controlling your VM33 Gen 2 camera. It is currently available for mobile devices.

1. Download and install the NearStream app on your smartphone or tablet.
2. Turn on a single VM33 camera.
3. On your mobile device, go to Wi-Fi settings and connect to the Wi-Fi network broadcast by the NearStream camera. This network will typically be named after the camera. Confirm that your phone is set to 'keep connected even if no internet' if prompted.
4. Open the NearStream app, tap the '+' icon to add a camera. Select the camera from the available list.
5. Choose 'HOTSPOT' mode for initial setup if you are not connecting to an existing Wi-Fi network. Follow the on-screen wizard.
6. For multi-camera setups (up to 3 VM33 cameras): Turn on additional cameras. In the app, add each camera. When prompted, select 'WIFI' and choose the first camera's hotspot network to connect them all to the same network.

3. Connectivity Options

The VM33 Gen 2 offers flexible connectivity for various streaming environments:

- **Wireless Wi-Fi Streaming:** Connect to an existing Wi-Fi network for stable RTMP or NDI streaming.
- **Built-in Hotspot Mode:** The camera can broadcast its own Wi-Fi signal, allowing your mobile device to connect directly for control and streaming.
- **USB-C Webcam Mode:** Connect the camera directly to a computer (PC/Mac) via USB-C for use as a webcam.
- **Wired Ethernet Connection:** Use a USB-C adapter (not included) to connect the camera to an Ethernet network for stable wired RTMP or NDI streaming over LAN.

4. Connecting to OBS Using RTSP

To integrate your VM33 Gen 2 with OBS Studio via RTSP:

1. Install the 64-bit version of VLC Media Player to enable VLC Video Source in OBS.
2. Ensure your VM33, smartphone, and computer are connected to the same Wi-Fi network.
3. In the NearStream App, navigate to **Device Settings** → **About** → **IP Address** to get the RTSP URL. Create your stream link using the format: `rtsp://[Camera IP]:554/live/mainstream`.
4. In OBS, add a new source and select 'VLC Video Source'. Enter the RTSP link obtained in the previous step.
5. Your VM33 video feed will now appear in OBS.



Image: The NearStream VM33 Gen 2 camera in various streaming environments, highlighting its versatility.



Image: Demonstrates the 40X hybrid zoom capability of the VM33 Gen 2 camera, capturing sharp detail from a distance.

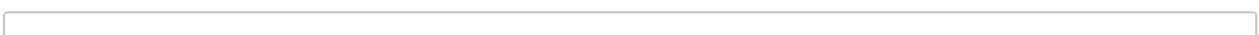


Image: Overview of the four connection methods for the VM33 Gen 2 camera: Wi-Fi/Hotspot, Ethernet, USB-C Webcam, and GameChanger RTMP setup.

OPERATING INSTRUCTIONS

1. Camera Control via NearStream App

The NearStream app provides comprehensive control over your camera settings:

- Adjust video resolution.
- Control zoom (10x optical + 4x digital for 40x hybrid zoom).
- Select audio input (built-in 8-mic array or external 3.5mm mic).
- Modify image settings.

2. Live Streaming

The VM33 Gen 2 supports native RTMP and NDI protocols for direct live streaming:

- Stream directly to platforms like YouTube, Facebook, Twitch, and OBS.
- One-touch streaming to popular platforms simplifies the process.
- Supports GameChanger RTMP setup for sports streaming up to 720p.

3. Multi-Camera Streaming

For professional-level productions, the app supports controlling up to 3 VM33 cameras simultaneously:

- Switch between different camera angles wirelessly.
- Utilize Auto-Director for automatic switching between feeds.
- Ideal for worship services, conferences, classrooms, and event production.

4. Scoreboard Overlay

The NearStream app includes a live scoreboard overlay feature:

- Currently available for soccer and basketball events.
- Control scores, timers, and match status directly from your device.

5. Recording and Cloud Storage

The camera supports recording and offers cloud integration:

- Record directly to a Micro SD card (32GB-256GB, V10 or higher, FAT32 format recommended).
- Enjoy 20GB of free cloud storage for automatic backup of recordings.
- Instantly share highlights and footage to social media platforms directly from the app.



Image: The VM33 Gen 2 camera with its internal 6400mAh battery, providing up to 6 hours of operation.



Image: Workflow from VM33 camera to NearStream Cloud and then to various social media platforms for instant sharing.



Image: Multiple VM33 Gen 2 cameras controlled via the NearStream app, demonstrating multi-cam setup and live scoreboard functionality.

Video: An overview of the VM33 Wireless Streaming Camera, showcasing its use for sports streaming.

MAINTENANCE

1. Firmware Updates

The VM33's firmware can be upgraded through the NearStream app. The app will notify you when a firmware or app update is available.

2. Heat Management

The VM33 can operate normally in environments up to 122°F (50°C). To protect the device and extend its lifespan, avoid direct sunlight. For best results, use the VM33 in a shaded or cool area whenever possible. Consider creating a simple sunshade or cover if operating in hot conditions.

3. Micro SD Card Usage

The VM33 automatically splits long recordings into smaller clips to keep your video files safe and reliable. This helps prevent issues like file errors or recording interruptions. You can combine these clips later using video editing software if needed.

TROUBLESHOOTING

1. Resetting the Camera / Password Issues

If you forget your camera's password or need to perform a factory reset:

- Press the power button four times within two seconds to reset the camera. After the reset, the password restriction will be removed.

Video: Instructions on how to reset your VM33 / VM46 camera to fix password issues.

2. Connecting to a Monitor/TV

The VM33 camera cannot directly plug into a monitor or TV. An intermediary device is required:

- **Option 1: Via Computer:** Connect the VM33 to a computer via USB, then use the computer's HDMI output to connect to the monitor/TV.
- **Option 2: Using a USB to HDMI Box:** Connect the VM33 to a USB to HDMI adapter box, then connect the box's HDMI output to the monitor/TV.

3. Audio Quality

The VM33's built-in microphone array provides optimal experience at a distance of 2 meters (6.5 feet). For professional setups or complex audio needs, consider using an external microphone. The 3.5mm audio input supports external microphones, wireless lav mics, and audio interfaces. Ensure you use a 3.5mm TRS to TRS cable for external microphones; a TRRS cable may not work.

4. App Availability

The NearStream app is currently only available for mobile devices. There is no desktop version. To use the VM33 with a computer, you can leverage its NDI feature to connect and stream to your PC.

SPECIFICATIONS

Feature	Detail
Brand	NearStream
Model Name	VM33 Gen 2
Model Number	VM33-US1
Video Capture Resolution	2K
Photo Sensor Technology	CMOS
Photo Sensor Size	1/2.8-inch
Zoom	40X Hybrid (10x Optical, 4x Digital)
Focus Type	Auto Focus
Battery Average Life	6 Hours (6400mAh)
Connectivity Technology	USB, Wireless (Wi-Fi, Hotspot), Ethernet (via adapter)
Special Features	App Control, RTMP & NDI Streaming, 8-MEMS Microphone Array, AI Noise Suppression, 3.5mm External Mic Input, Multi-Camera Support, Live Scoreboard Overlay, 20GB Free Cloud Storage
Supported Audio Format	AAC, MP3
Video Capture Format	MP4
Flash Memory Type	Micro SD (32GB-256GB, V10+, FAT32)
Item Weight	2.2 Pounds
Item Dimensions (D x W x H)	5.35"D x 3.86"W x 2.83"H

WARRANTY INFORMATION

The NearStream VM33 Gen 2 Wireless Streaming Camera comes with a **1-Year Manufacturer Warranty**. Please refer to the included warranty card for full terms and conditions.

SUPPORT

For any questions, technical assistance, or support regarding your NearStream VM33 Gen 2 camera, please contact NearStream customer service. Our team is dedicated to providing reliable support before and after your purchase.

You can typically find contact information on the official NearStream website or through the NearStream app.