

HollyView Cosmo C2

Hollyland Cosmo C2 Wireless HDMI/SDI Video Transmission System User Manual

Model: Cosmo C2 | Brand: HollyView

1. INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, maintenance, and troubleshooting of the Hollyland Cosmo C2 Wireless HDMI/SDI Video Transmission System. Please read this manual thoroughly before using the product to ensure safe and optimal performance.

1.1 Product Overview

The Hollyland Cosmo C2 is a professional wireless video transmission system designed for high-quality, low-latency video and audio transmission. This kit includes two transmitters (TX) and one receiver (RX), enabling a versatile 2TX & 1RX solution for complex production environments. It features advanced HEVO 2.0 technology for seamless frequency hopping, extended range, and ultra-low latency, supporting various streaming protocols like NDI, UVC, and RTMP.



Image: The Hollyland Cosmo C2 system, showing two transmitters and one receiver unit.

1.2 Key Features

- **2TX & 1RX Solution:** Allows transmission from two sources to a single receiver, optimizing workflow and reducing interference.
- **HEVO 2.0 Technology:** Features Seamless Frequency Hopping for enhanced signal strength and anti-interference performance.
- **Extended Range & Ultra-Low Latency:** Up to 3,000ft (1,000m) line of sight (LOS) range with only 33ms latency.
- **FPS Booster:** Receiver converts 24/25/30P inputs to smoother 60P outputs using a frame rate compensation algorithm.
- **Multiple Streaming Protocols:** Supports NDI for network streaming, UVC for direct computer connection via USB-C, and RTMP for compatibility with major live streaming platforms.
- **Comprehensive Ports:** Equipped with HDMI and SDI inputs/outputs, including conversion and loopout capabilities.
- **Versatile Power Options:** Transmitters support DC and NP-F batteries; receivers support DC and V-Mount batteries.

- **Fractional Frame Rate Support:** Accommodates various video formats for flexible production.
- **Frozen Frame Function:** Freezes the last frame upon transmission interruption, preventing manufacturer logo display.



Image: An infographic highlighting the main features of the Cosmo C2 system, including range, latency, and supported technologies.

1.3 What's in the Box

The Hollyland Cosmo C2 (2TX & 1RX Kit) package includes the following items:

- Cosmo C2 Wireless Video Transmitter x 2
- Cosmo C2 Wireless Video Receiver x 1
- Blade Antenna x 7
- 12V/2A DC Power Adapter x 1
- USB-C OTG Adapter x 1
- Expansion Accessory x 2
- Cold Shoe x 2
- User Manual x 1
- Packing List Card x 1
- Protective plastic box x 1

Packing list



Wireless Video Transmitter x 2



Wireless Video Receiver x 1



USB-C OTG Adapter x 1



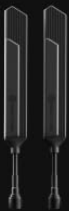
Expansion Accessory x 2



Cold Shoe x 2



Protective plastic box x 1



Blade Antenna x 7



12V/2A DC Power Adapter x 1



User Manual x 1



Packing List Card x 1

Image: A visual representation of the complete packing list for the Cosmo C2 2TX & 1RX kit.

2. PRODUCT COMPONENTS AND INTERFACES

2.1 Transmitter (TX)

The Cosmo C2 Transmitter features multiple ports for versatile connectivity:

- **USB-C Port:** For firmware upgrades and UVC streaming.
- **HDMI IN:** HDMI video input.
- **3G-SDI IN:** SDI video input.
- **3G-SDI LoopOut:** SDI video output for monitoring.
- **DC Power Input:** For external power supply.

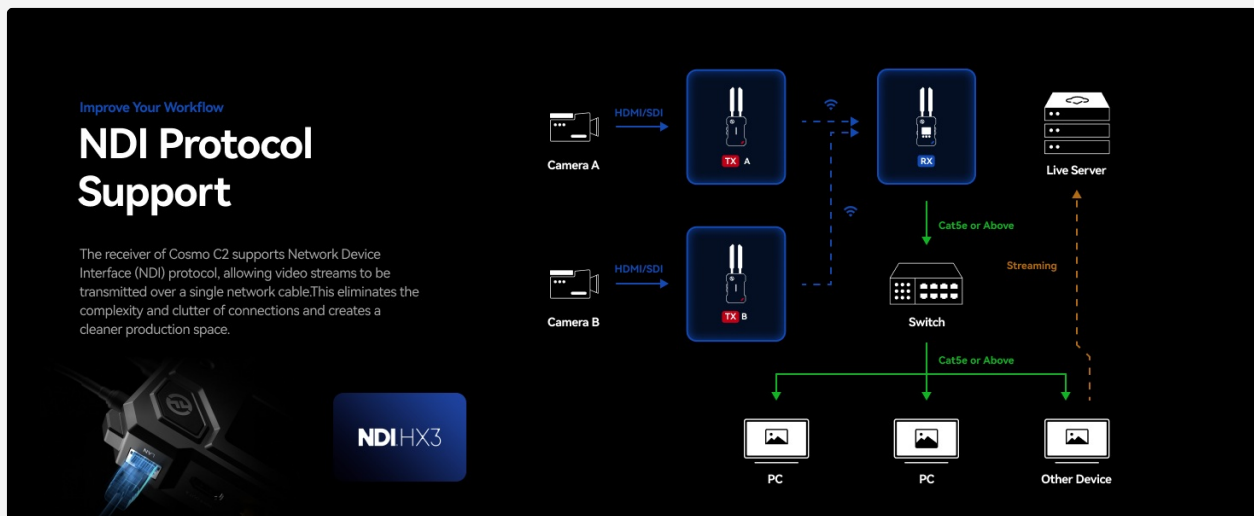


Image: Detailed view of the Cosmo C2 Transmitter's ports and their functions.

2.2 Receiver (RX)

The Cosmo C2 Receiver provides various output and network connectivity options:

- **HDMI OUT A/B:** HDMI video outputs.
- **3G-SDI OUT A/B:** SDI video outputs.
- **USB-C Port:** For firmware upgrades and UVC streaming.
- **RJ-45 Port:** For NDI network connection.
- **DC Power Input:** For external power supply.

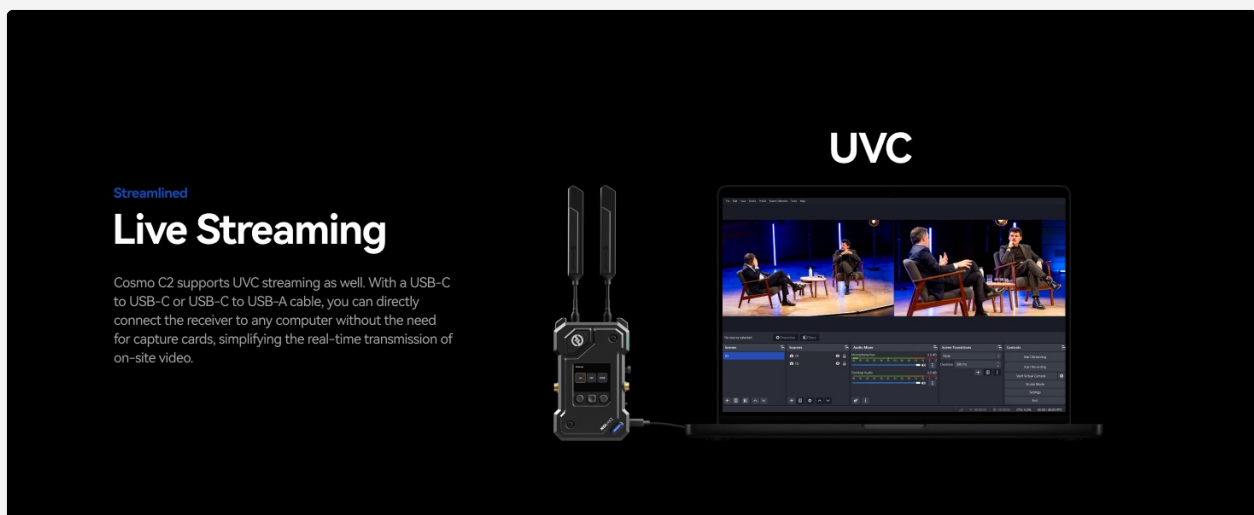


Image: Detailed view of the Cosmo C2 Receiver's ports and their functions.

2.3 Power Options

The Cosmo C2 system offers flexible power solutions:

- **Transmitter:** Supports DC (locking) and NP-F batteries.

- **Receiver:** Supports DC (locking) and V-Mount batteries.

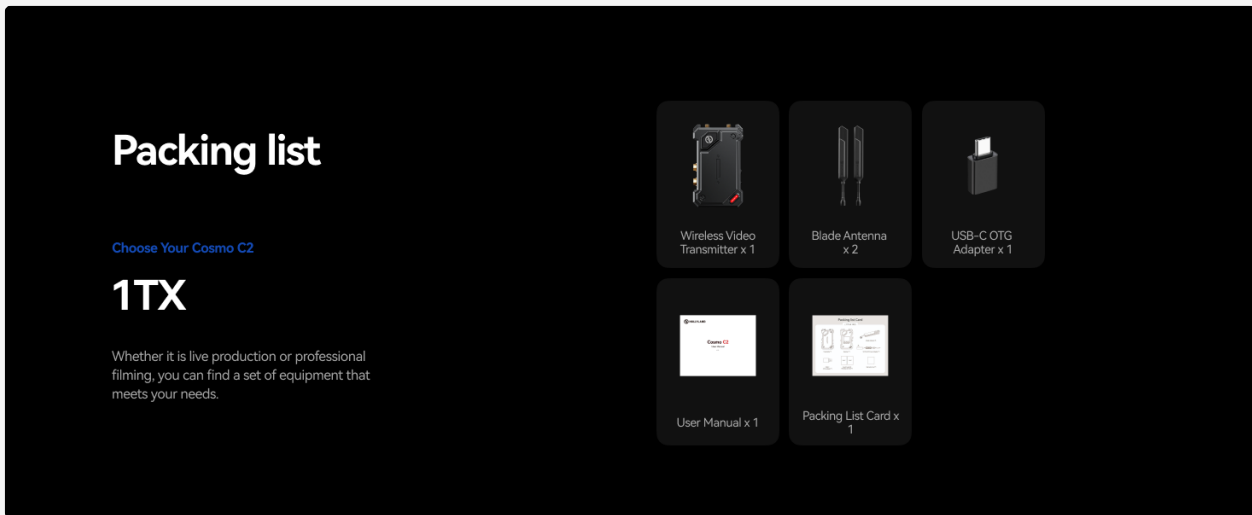


Image: Visual representation of the various battery and DC power options for both transmitter and receiver units.

3. SETUP GUIDE

3.1 Initial Connection (2TX & 1RX Solution)

1. Attach the blade antennas to the transmitter(s) and receiver.
2. Connect your video source (e.g., camera A) to the first transmitter (TX A) via HDMI or SDI cable.
3. Connect your second video source (e.g., camera B) to the second transmitter (TX B) via HDMI or SDI cable.
4. Power on both transmitters using either a DC power adapter or compatible NP-F batteries.
5. Power on the receiver using a DC power adapter or a V-Mount battery.
6. Connect the receiver's HDMI or SDI output to your monitor, switcher, or other display device.
7. Ensure all units are within the effective transmission range for optimal performance.

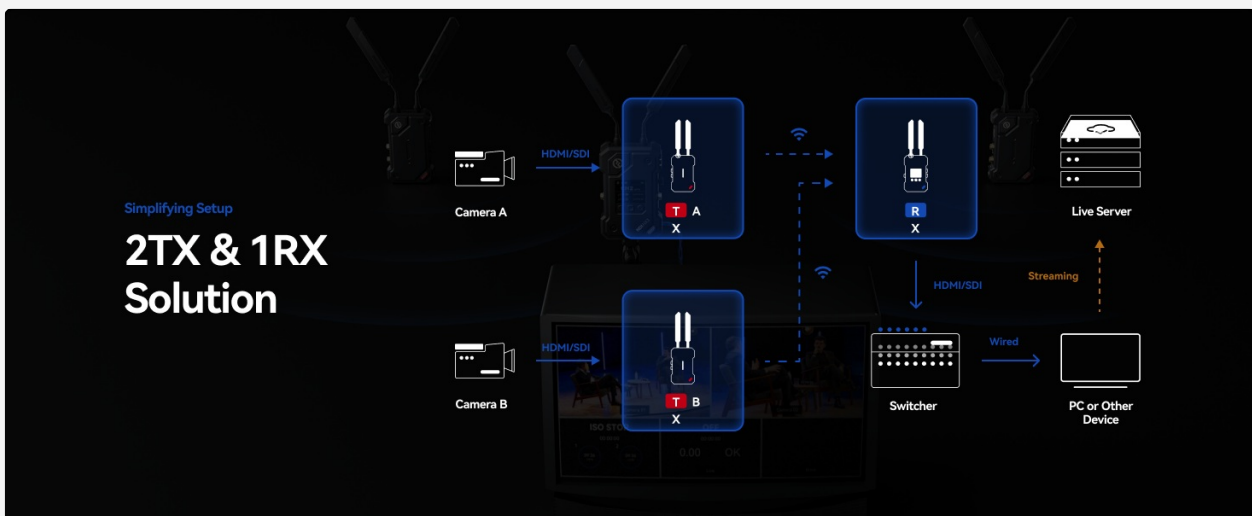


Image: A visual guide to setting up the 2TX & 1RX solution, demonstrating how two camera feeds are transmitted to a single receiver for output or streaming.

4. OPERATING INSTRUCTIONS

4.1 Channel Selection and Pairing

The Cosmo C2 system automatically detects and selects the optimal channel. In complex wireless environments, the system's HEVO 2.0 technology performs seamless frequency hopping to maintain a stable connection. Manual channel selection may also be available via the device's interface if needed, refer to the on-screen display for current channel information.

4.2 Fractional Frame Rate Support

The Cosmo C2 supports various HDMI/SDI fractional frame rate inputs and outputs, ensuring compatibility with diverse production requirements. This includes NTSC, PAL, and TV standards with specific frame rates like 23.976fps, 24.975fps, 29.97fps, and 59.94fps.

Flexible

Fractional Frame Rate

Cosmo C2 supports HDMI/SDI fractional frame rate input and output.



Image: An illustration detailing the supported fractional frame rates for the Cosmo C2 system.

4.3 Frozen Frame Function

In the event of a transmission interruption, the Cosmo C2's "Frozen Frame" feature will display the last successfully received frame instead of a blank screen or a manufacturer's logo. This provides a more professional and less disruptive experience. You can customize the displayed logo image using a USB flash drive.

Customizable

Frozen Frame

When transmission is interrupted, Cosmo C2 freezes the last frame of the video feed, preventing the manufacturer's logo from being displayed.

Output Image



Customized Image



*You can customize the logo image as desired using a USB flash drive.

Image: A visual comparison demonstrating the Frozen Frame feature, showing both a live output and a customized image displayed during signal interruption.

4.4 Live Streaming Capabilities

The Cosmo C2 receiver offers robust live streaming options:


- **NDI Protocol Support:** Simplifies network streaming via a single Ethernet cable (RJ-45 port), reducing setup complexity and cable clutter.
- **UVC Streaming:** Direct computer connection via USB-C eliminates the need for external capture cards, simplifying real-time transmission of on-site video.

- **RTMP Streaming:** Compatible with major streaming platforms such as YouTube, Twitch, Facebook Live, LinkedIn, and X (formerly Twitter) for low-latency live broadcasts.


Streamlined

Live Streaming

Simplifying the real-time transmission of on-site video.




UVC—Connect the receiver to any computer via USB-C, no capture card needed.




RTMP—Compatible with various streaming platforms like YouTube and Twitch.


NDI HX3





UVC



RTMP







and More...

Image: An overview of the Cosmo C2's live streaming capabilities, including UVC, RTMP, and NDI support, along with compatible platforms.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Hollyland Cosmo C2 system:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the units. Avoid using liquid cleaners or solvents.
- **Storage:** When not in use, store the system in its protective plastic box in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Antennas:** Handle antennas carefully to prevent bending or damage. Ensure they are securely attached during operation.
- **Firmware Updates:** Periodically check the Hollyland official website for firmware updates. Keeping your device's firmware up-to-date can improve performance and add new features.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Cosmo C2 system. If the problem persists, please contact Hollyland customer support.

Problem	Possible Cause	Solution
No video signal on receiver.	<ul style="list-style-type: none"> • Transmitter/Receiver not powered on. • Incorrect HDMI/SDI cable connection. • Out of range or excessive interference. • Input/Output format mismatch. 	<ul style="list-style-type: none"> • Ensure all units are powered on. • Check all cable connections are secure and correct. • Move units closer or to an area with less interference. • Verify that the input and output video formats are supported and match.
Video signal flickering or dropping.	<ul style="list-style-type: none"> • Strong wireless interference. • Obstructions between TX and RX. • Low battery on TX or RX. 	<ul style="list-style-type: none"> • Relocate units to avoid interference sources. • Ensure clear line of sight between TX and RX. • Recharge or replace batteries.
Cannot connect to streaming platform (NDI/UVC/RTMP).	<ul style="list-style-type: none"> • Incorrect network settings (NDI/RTMP). • USB-C cable issue (UVC). • Firewall or software blocking. 	<ul style="list-style-type: none"> • Verify network configuration and streaming keys/URLs. • Try a different USB-C cable and port. • Check computer firewall settings or streaming software configuration.

7. SPECIFICATIONS

Feature	Detail
Model Number	Cosmo C2

Feature	Detail
Wireless Range	Up to 3,000ft (1,000m) LOS
Latency	33ms
Video Resolution	Up to 1080P60
Connectivity Technology	HDMI, SDI
Video Encoding	H.264, H.265/HEVC
Audio Output Mode	Stereo, Surround, Mono
Surround Sound Channel Configuration	5.1
Number of Channels	7
Transmitter Power Input	DC, NP-F batteries
Receiver Power Input	DC, V-Mount batteries
Dimensions (Package)	15.98 x 13.86 x 7.17 inches
Item Weight	7.11 pounds
Manufacturer	Hollyland
Date First Available	December 5, 2024

8. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included in your product packaging or visit the official Hollyland website. Hollyland provides customer support for product inquiries, technical assistance, and warranty claims.

Manufacturer: Hollyland

Brand: HollyView

For the latest support resources, FAQs, and contact information, please visit the [Hollyland Official Website](#).