



Manuals.plus /

› HollyView /

› Hollyland Cosmo C1 Wireless HDMI/SDI Video Transmission System User Manual

## HollyView COSMO C1

# Hollyland Cosmo C1 Wireless HDMI/SDI Video Transmission System User Manual

Model: COSMO C1 | Brand: HollyView

## 1. INTRODUCTION

The Hollyland Cosmo C1 is a high-performance wireless video transmission system designed for professional video production. It features Hollyland's HEVO technology, offering adaptive frequency hopping (AFH), seamless retransmitting, and simplified UVC streaming. This system provides stable and reliable 1080P video transmission over 5GHz frequency with ultra-low latency, making it suitable for various electronic field production and live streaming applications.

Key features include:

- Up to 1,000ft line-of-sight (LOS) transmission range.
- Ultra-low latency of 40ms.
- Adaptive Frequency Hopping (AFH) for enhanced signal stability.
- Embedded USB Video Capture (UVC) for direct live streaming via USB-C.
- HDMI and SDI input/output compatibility.
- Multiple power supply options: DC, L-series battery, and USB-C.

# COSMO C1

Hollyland Wireless Video Transmission



UVC Transmission  
Technology



SDI+HDMI  
+SDI Loopout



1000ft  
Transmission



1080P HD  
Image



Seamless  
Frequency Switching



0.04S Ultra  
Low Latency

Image: The Cosmo C1 system mounted on a camera rig, displaying its core functionalities and performance metrics.

## 2. WHAT'S IN THE BOX

Verify that all items are present in your package:

- Hard Plastic Case x1
- Hollyland Cosmo C1 Wireless Video Transmitter and Receiver x1 (set)
- Mushroom Antenna x2
- Antenna x4
- DC Adapter x1
- Magic Arm x1
- Type-C Converter x1
- Cold Shoe x1
- Expansion Accessory x1
- User Guide x1

# PACKING LIST



Hard Plastic Case \* 1



Receiver \* 1



Transmitter \* 1



Mushroom Antenna \* 2



Antenna \* 4



DC Adapter \* 1



Magic Arm \* 1



Type-C Converter \* 1



Cold Shoe \* 1



Expansion Accessory \* 1



User Guide \* 1

Image: Contents of the Hollyland Cosmo C1 package.

## 3. PRODUCT OVERVIEW

The Cosmo C1 system consists of a transmitter (TX) and a receiver (RX) unit. Both units are designed for robust performance and ease of use in various production environments.

### 3.1. Transmitter (TX) and Receiver (RX) Units

Each unit features multiple ports for video input/output, power, and data transfer, along with an intuitive display for status monitoring.

- **Video Ports:** HDMI In/Out, SDI In/Out, SDI Loopout (on TX).
- **Power Ports:** DC input, USB-C (for power and UVC), NP-F battery plate.
- **Antennas:** Two external antennas for stable wireless transmission.
- **Display:** OLED screen showing channel, resolution, battery status, and fan mode.



Image: Front and side views of the Cosmo C1 units.

Image: Detailed view of HDMI and SDI ports on the Cosmo C1.

### 3.2. Cooling Fan

The Cosmo C1 features an auto and quiet fan mode to manage internal temperature during operation, ensuring stable performance without excessive noise interference.



## Auto and Quiet Fan Mode



Image: Cosmo C1 with fan mode illustration.

## 4. SETUP

### 4.1. Attaching Antennas

Screw the provided antennas firmly onto the antenna ports of both the transmitter and receiver units. Ensure they are securely attached for optimal signal transmission.

### 4.2. Powering the Device

The Cosmo C1 offers three power options:

- **DC Power Supply:** Connect the DC adapter to the DC input port for continuous power, ideal for indoor use.
- **L-series Battery:** Attach a compatible NP-F series battery (NPF970/NPF750/NPF550, not included) to the battery plate for portable operation.
- **USB-C Port:** Use a USB-C cable for power. Note: USB-C power is not recommended for long-term use due to potential stability variations.



Image: Powering options for the Cosmo C1.

### 4.3. Connecting to Camera

Connect your camera's video output to the transmitter's HDMI IN or SDI IN port using a compatible cable. The TX unit also features an SDI LOOP OUT port for local monitoring.

### 4.4. Connecting to Monitor/Computer

Connect the receiver's HDMI OUT or SDI OUT port to your monitor. For direct live streaming to a computer, connect the receiver's USB-C port to your computer using a USB-C cable. The embedded UVC technology will allow your computer to recognize the video feed without additional drivers.

## 5. OPERATING INSTRUCTIONS

### 5.1. Power On/Off

Press and hold the power button on each unit to turn it on or off. The OLED screen will display the boot-up sequence and current status.

### 5.2. Channel Selection and Adaptive Frequency Hopping (AFH)

The Cosmo C1 utilizes HEVO technology with Adaptive Frequency Hopping to ensure stable transmission. In AUTO mode, the system automatically scans and switches to the clearest channel to avoid interference. You can also manually select channels if needed.

Video: Demonstration of the Cosmo C1's seamless channel switching feature, preventing screen flickering or black screens during operation.

# Automatic Frequency Hopping Function



Image: Automatic Frequency Hopping Function display.

## 5.3. UVC Live Streaming

With embedded UVC technology, the Cosmo C1 receiver can directly output a 1080P60 HD video feed to your computer via a single USB-C cable, enabling direct live streaming without additional capture cards or drivers.

Video: Illustrates the simple USB-C connection for UVC live streaming directly from the Cosmo C1 receiver to a laptop.

# USB VIDEO CAPTURE (UVC)

Embedded Video Capture Like None Other



Image: Cosmo C1 connected for UVC live streaming.

## 5.4. Low Battery Indicator

The unit's screen and an LED light will provide a low battery warning approximately 20 minutes before the battery is depleted, allowing time to switch power sources.



## Battery Low Indicator



Image: Low battery indicator on the Cosmo C1.

## 6. MOUNTING OPTIONS

The Cosmo C1 offers versatile mounting options for various setups:

- **Vertical Mounting:** The unit can be mounted vertically using the 1/4"-20 threaded hole on the bottom.
- **Horizontal Mounting:** Two mounting holes on the front panel allow for horizontal installation, which can help balance the setup on cameras and stabilizers.

# Patented Ball Catch and Vertical & Horizontal Mount Design



Image: Vertical and horizontal mounting designs for the Cosmo C1.

## 7. SPECIFICATIONS

Feature	Specification
Product Dimensions	11.42 x 5.39 x 10.43 inches
Item Weight	4.25 pounds
Item Model Number	COSMO C1
Batteries	1 Lithium Ion battery required
Connectivity Technology	HDMI, USB
Controller Type	Button
Special Features	Adaptive Frequency Hopping (AFH), Cooling Fan, Embedded UVC Live Stream, Wide Range Device Compatibility
Compatible Devices	Monitor, Personal Computer, Television, Camera
Total HDMI Ports	2
Connector Type	HDMI, SDI
Audio Output Mode	Stereo
Surround Sound Channel Configuration	8
Video Encoding	H.265

## 8. TROUBLESHOOTING

- **No Video Signal:**

- Ensure all cables (HDMI/SDI) are securely connected to both the camera, transmitter, receiver, and monitor.
- Verify that the camera is outputting a video signal and is powered on.
- Check the channel selection on both TX and RX units. Try switching to AUTO mode or manually selecting a different channel.
- Confirm that the TX unit's loopout function only works when the input is from the SDI port, not HDMI.

- **Flickering or Unstable Video:**

- This may indicate interference. Ensure both units are in AUTO channel selection mode to utilize Adaptive Frequency Hopping.
- Reduce the distance between the transmitter and receiver, or ensure there are no major obstructions.
- Check for other 5GHz wireless devices in the vicinity that might be causing interference.

- **UVC Live Stream Not Working:**

- Ensure the USB-C cable is connected from the RX unit to your computer.
  - Verify that the RX unit is receiving a video signal from the camera. The UVC function requires an active video input.
  - Some USB-C to USB-C cables may not provide sufficient power or data stability. If experiencing issues, try using a USB-A to USB-C cable with the provided Type-C converter.
  - Check your computer's privacy settings to ensure the application (e.g., OBS, Zoom) has permission to access the camera/video input.
- **Short Battery Life:**
    - Ensure you are using fully charged L-series batteries.
    - Consider using DC power for longer sessions to conserve battery life.

## 9. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the units. Avoid liquid cleaners or solvents.
- **Storage:** Store the system in its hard plastic case in a cool, dry place when not in use.
- **Firmware Updates:** Periodically check the Hollyland official website for firmware updates to ensure optimal performance and access to new features.

## 10. WARRANTY AND SUPPORT

For detailed warranty information, technical support, or service inquiries, please refer to the official HollyView website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.