SYNCO 1 TX and 1 RX

SYNCO Xvision Video Transmission System User Manual

Model: 1 TX and 1 RX

Brand: SYNCO

1. PRODUCT OVERVIEW

The SYNCO Xvision Video Transmission System provides stable and high-quality wireless video transmission for professional filming, live streaming, and TVC production. This system includes one transmitter (TX) and one receiver (RX), designed for real-time monitoring with ultra-low latency.

Figure 1.1: SYNCO Xvision Video Transmission System (1 TX and 1 RX) and included USB-C cables.

Key Features:

- **Superior Signal Penetration:** Stable 1080P/60fps video transmission over long distances (up to 300m) using SYNCO's ultra-penetration technology.
- **Ultra-Low Latency:** Achieves a 40ms latency for precise real-time feedback, crucial for dynamic shooting environments.
- **Low Power Design:** Utilizes advanced low-power chips and intelligent power management, consuming only 2W, ensuring quiet and efficient operation without fan cooling.
- **All-in-One Assistive App (SYNCO Link):** Supports real-time monitoring, image adjustments (zebra stripes, mirror, inverse colors), video saving, screenshot, and playback functions.
- **Smart Design, Easy Operation:** Features a 1.47-inch large display for real-time device status, intuitive button layout, and automatic pairing memory.
- **Flexible Power Options:** Supports NP-F battery (7.4-8.4V) and USB-C power input (5V 2A) for versatile use.
- **Compact and Lightweight:** Weighs only 119g with foldable antennas, making it highly portable.

2. WHAT'S IN THE BOX

- 1 x Transmitter (TX)
- 1 x Receiver (RX)
- 1 x Type-C Cable

Figure 2.1: Included components: Transmitter, Receiver, and Type-C Cable.

3. DEVICE LAYOUT AND PORTS

Familiarize yourself with the various components and connection points of the SYNCO Xvision units.

Figure 3.1: Side view of the unit highlighting the Power Switch, Pairing Button, and 5V IN USB-C Port.

Figure 3.2: HDMI ports on the Transmitter (HDMI IN, HDMI OUT/Loop Out) and Receiver (2x HDMI OUT).

- **Power Switch:** Used to turn the device On or Off.
- **Pairing Button:** Initiates the pairing process between units.
- **USB-C Port (5V IN):** For power supply.
- **HDMI IN (Transmitter):** Connects to the video source (e.g., camera).
- **HDMI OUT (Transmitter - Loop Out):** Allows for local monitoring of the input signal.
- **HDMI OUT (Receiver):** Connects to display monitors. The receiver has two HDMI OUT ports.
- **Antennas:** Foldable antennas for signal transmission and reception.

4. Setup and Initial Operation

4.1 Powering the Device

The SYNCO Xvision system offers flexible power options:

- **NP-F Battery:** Insert a compatible NP-F battery (7.4-8.4V) into the battery slot. Press the lock button to slide the battery in or out.
- **USB-C Power:** Connect a 5V 2A power source to the USB-C port.

Figure 4.1: Attaching an NP-F battery to the unit.

Figure 4.2: Powering the unit via USB-C cable.

4.2 Unfolding Antennas

Before operation, gently unfold the antennas on both the transmitter and receiver units to ensure optimal signal performance.

Figure 4.3: Unfolding the antenna for operation.

4.3 Power On/Off

To power on the device, slide the power switch down. To power off, slide the switch up. The device will automatically reconnect to a previously paired device upon startup.

4.4 Pairing the Units

The transmitter (TX) and receiver (RX) units typically come pre-paired. If re-pairing is necessary or for pairing additional receivers:

1. Ensure both the transmitter and receiver are powered on.
2. Long press the pairing buttons on both the transmitter and receiver for 5 seconds to enter pairing mode.
3. Once paired, the screen will display "Paired".

Note: A single transmitter supports up to 4 receivers (including RX and APP monitoring devices). The device will exit pairing mode if no device is found within 90 seconds. Pair receivers one at a time.

4.5 Connecting to Equipment

1. Connect the HDMI cable from your camera or video source to the **HDMI IN** port on the transmitter.
2. Connect an HDMI cable from the receiver's **HDMI OUT** port to your monitor's **HDMI IN** port.

Figure 4.4: Transmitter connected to a camera.

Figure 4.5: Receiver connected to a monitor.

5. Operating the System

5.1 Monitoring Display

The 1.47-inch display on both units provides real-time status information, including:

- Transmitter (TX) / Receiver (RX) status
- WiFi connection status
- Connection signal strength
- Power level
- Resolution (e.g., 1080P)
- Frame Rate (e.g., 60fps)
- Bitstream (e.g., 1Mbps)

Figure 5.1: Display indicators for operational status.

5.2 Using the SYNCO Link App

The SYNCO Link App enhances your monitoring experience with additional features:

- Real-time monitoring on your smart device.
- Precise image adjustments (zebra stripes, mirror, inverse colors).
- Built-in video saving, screenshot, and playback functions.

Refer to the SYNCO Link App manual for detailed instructions on connecting and using the app.

5.3 Multi-User Monitoring

The system supports simultaneous wired and wireless transmission, enabling efficient collaboration. Real-time monitoring across multiple devices is ideal for directors, lighting designers, makeup artists, and art directors.

Figure 5.2: Multi-user monitoring setup.

6. MAINTENANCE

- Keep the units clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid exposing the devices to extreme temperatures, humidity, or direct sunlight.
- Store the units in a dry, cool place when not in use.
- Ensure all cables are properly connected and not strained.
- Regularly check for firmware updates from the manufacturer's official website to ensure optimal performance and compatibility.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No signal on monitor	○ Incorrect HDMI connection. ○ Units not powered on. ○ Units not paired. ○ Signal interference.	○ Check HDMI cables are securely connected to correct ports. ○ Ensure both TX and RX units are powered on. ○ Re-pair the units as described in Section 4.4. ○ Reduce distance between units or move away from sources of interference.

Problem	Possible Cause	Solution
Poor video quality/lag	◦ Excessive distance. ◦ Obstructions between units. ◦ Low battery.	◦ Move units closer together. ◦ Ensure clear line of sight between units. ◦ Charge or replace batteries.
Unit not powering on	◦ Battery depleted or incorrectly inserted. ◦ USB-C power issue.	◦ Ensure NP-F battery is charged and correctly inserted. ◦ Verify USB-C cable and power adapter are functional and providing 5V 2A.

8. SPECIFICATIONS

Feature	Detail
Model	1 TX and 1 RX
Video Encoding	H.265/HEVC, RM
Transmission Distance	Up to 300 meters (line of sight)
Latency	40ms
Video Resolution	1080P 60fps
HDMI Ports	3 (1 HDMI IN, 1 HDMI OUT/Loop Out on TX; 2 HDMI OUT on RX)
Power Consumption	2W
Power Options	NP-F Battery (7.4-8.4V), USB-C (5V 2A)
Item Weight	119g (each unit)
Compatible Devices	Camera, Switcher, Production Equipment, Remote Monitoring Device

9. OFFICIAL PRODUCT VIDEO

Watch the official product video for a visual guide on unboxing, product introduction, power options, ports, and operational procedures.

Your browser does not support the video tag.
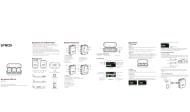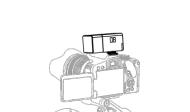
Video 9.1: SYNCO Xvision HD Wireless Video Transmission System User Manual. This video demonstrates unboxing, product features, power options, port connections, and pairing procedures for the system.

10. WARRANTY AND SUPPORT

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

Related Documents - 1 TX and 1 RX

	[SYNCO G2A2 Pro Wireless Microphone System: User Manual, Setup, and Specifications](#) Get detailed instructions for the SYNCO G2A2 Pro wireless microphone system. Learn about setup, operation, pairing, audio output, specifications, and warranty from SYNCO.
	[SYNCO P2 Series Wireless Microphone System User Manual](#) Comprehensive user manual for the SYNCO P2 Series wireless microphone system, detailing product features, operation, specifications, and warranty information.
	[SYNCO CE3 Tally Light User Manual - Setup and Operation Guide](#) Comprehensive user manual for the SYNCO CE3 Tally Light, covering setup, operation, pairing, vMix integration, specifications, and warranty information.
	[SYNCO XTALK FAQ: Headset Pairing, Firmware, and Support Guide](#) Frequently Asked Questions (FAQ) for the SYNCO XTALK wireless headset system. Find answers on contacting support, downloading low-latency firmware, pairing multiple headsets, reconnecting lost connections, and resolving signal instability.
	[SYNCO G2(A2) Wireless Microphone System User Manual](#) Comprehensive user manual for the SYNCO G2(A2) wireless microphone system, detailing setup, operation, features, specifications, and warranty information for optimal audio recording.
	[SYNCO G2(A1) Wireless Microphone System User Manual](#) Comprehensive user manual for the SYNCO G2(A1) 2.4GHz wireless microphone system, covering setup, specifications, operations, and warranty information.