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## SYNCO XH-HD-1T1R

# SYNCO XVision HD Wireless Video Transmission System User Manual

## 1. INTRODUCTION

The SYNCO XVision HD Wireless Video Transmission System (Model XH-HD-1T1R) provides reliable and high-quality video transmission for professional applications. This system features a long-distance transmission range, ultra-low latency, and flexible power options, making it suitable for various shooting environments. This manual provides detailed instructions for setting up, operating, and maintaining your device.

## 2. WHAT'S IN THE BOX

Verify that all items are present in the package:

- Wireless Transmitter (TX) x 1
- Wireless Receiver (RX) x 1
- USB Charging Cable x 2
- Package Box x 1
- Manual x 1

## 3. PRODUCT OVERVIEW

The SYNCO XVision HD system consists of a transmitter (TX) and a receiver (RX) unit, designed for seamless video transmission.

### 3.1 Device Components



# XVision HD

Wireless Video Transmission System



984ft (300m)  
LOS Range



Connect  
Up to 4 RX



Super-Low  
Latency



LCD  
Color Screen



HDMI Loop  
Out Support



Ultra-Low Power  
Design

Figure 3.1: SYNCO XVision HD Transmitter (TX) and Receiver (RX) units.

The image above displays both the transmitter (TX) and receiver (RX) units of the SYNCO XVision HD Wireless Video Transmission System. The TX unit is typically darker, and the RX unit is lighter, both featuring a compact design with integrated antennas.

# Flexible Power Options for Anywhere Use

Equipped with an NP-F battery slot and USB-C power input, eliminating the need for a power adapter.



Figure 3.2: Side view of a SYNCO XVision HD unit highlighting the power switch, pairing button, USB-C port, and NP-F battery slot.

This view illustrates the key controls and power interfaces on the side of the unit, including the ON/OFF power switch, the PAIR button for device synchronization, the 5V IN USB-C port for power input, and the NP-F battery slot for portable power.

# Stable HD Transmission up to 200 Meters

Powered by SYNCO's proprietary ultra-penetrating signal transmission technology, with channel selection to avoid common signal interference.



Figure 3.3: Side view of a SYNCO XVision HD unit displaying the HDMI IN and HDMI OUT ports.

The image above shows the HDMI connectivity options. The transmitter unit features one HDMI IN port and one HDMI OUT (loop out) port. The receiver unit features two HDMI OUT ports for connecting to multiple monitors.

## 3.2 Instructional Video: Product Overview and Basic Operations

Your browser does not support the video tag.

Video 3.1: This video provides a visual guide to the SYNCO XVision HD Wireless Video Transmission System, covering unboxing, product introduction, power options, port identification, and basic operational steps including power on/off and initial pairing.

## 4. SETUP INSTRUCTIONS

### 4.1 Powering the Device

The SYNCO XVision HD offers flexible power options:

- **NP-F Battery:** Press the lock button and slide a fully charged NP-F battery (7.4-8.4V) into the battery slot.
- **USB-C Power:** Connect a 5V 2A power source to the USB-C port using the provided USB charging cable.

## Low Power Design for Quiet and Efficient Shooting Experience

The SYNCO XVision video transmission system utilizes advanced low-power chips and intelligent power management technology, consuming only 2W of power, effectively avoiding heat and noise interference without the need for fan cooling.

Optimized heat dissipation structure and intelligent adjustments ensure long-lasting, efficient operation, maintaining a low-temperature environment without adding extra noise to the shooting space.



Figure 4.1: Powering the SYNCO XVision HD via USB-C or NP-F battery.

This image demonstrates how to connect the USB-C power cable and how to insert an NP-F battery into the dedicated slot, providing versatile power solutions for your setup.

### 4.2 Antenna Deployment

Before powering on, ensure the antennas are unfolded and positioned vertically for optimal signal transmission and reception.

### 4.3 Power On/Off

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

### 4.4 Pairing the Transmitter and Receiver

To pair the transmitter (TX) and receiver (RX) units:

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

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

### 4.5 Connecting to Camera and Monitor

1. Connect an HDMI cable from your camera's HDMI OUT port to the HDMI IN port on the transmitter unit.

2. Connect an HDMI cable from the receiver's HDMI OUT port to the HDMI IN port of your monitor.
3. The transmitter will receive the camera signal, and the receiver will output the signal to the monitor, providing real-time video monitoring.

## Multi-User Monitoring for Precise Visual Control

Supports simultaneous wired and wireless transmission, enabling one-to-four efficient collaboration. Real-time monitoring across multiple devices for directors, lighting designers, makeup artists, and art directors.



Figure 4.2: Example setup showing the SYNCO XVision HD transmitter connected to a camera and the receiver connected to a monitor.

This illustration demonstrates a typical connection setup, where the transmitter receives video from a camera and wirelessly sends it to the receiver, which then outputs to a monitor for viewing.

## 5. OPERATING INSTRUCTIONS

### 5.1 Display Information

The large display screen on both units provides real-time status information, including:

- Transmitter (TX) / Receiver (RX) status
- WiFi connection status

- Connection signal strength
- Battery power level
- Video resolution (e.g., 1080P 60fps)
- Bitstream information



Figure 5.1: Detailed view of the SYNCO XVision HD's display screen.

This close-up shows the intuitive display, providing essential operational data at a glance for easy monitoring.

## 5.2 SYNCO Link App Features

The SYNCO Link App enhances monitoring and control capabilities:

- Real-time monitoring on mobile devices.
- Precise image adjustments: zebra stripes, mirror, inverse colors.
- Built-in video saving, screenshot, and playback functions for easy review of key moments.



Figure 5.2: The SYNCO Link App icon.

The SYNCO Link App provides advanced tools for optimizing shooting results and managing video content directly from your smartphone or tablet.

## 6. MAINTENANCE

- Keep the devices clean and free from dust and moisture. Use a soft, dry cloth for cleaning.
- Avoid exposing the units to extreme temperatures or direct sunlight for prolonged periods.
- Ensure proper ventilation during operation to prevent overheating. The low-power design helps minimize heat

generation.

- Store the devices in a protective case when not in use to prevent physical damage.
- Regularly check all cables and connections for wear and tear.

## 7. TROUBLESHOOTING

- **No Signal:**

- Check all HDMI cable connections between the camera, transmitter, receiver, and monitor.
- Ensure both transmitter and receiver units are powered on and fully charged or connected to a stable power source.
- Verify that the units are successfully paired (check the display for "Paired" status).
- Confirm that the camera is outputting a video signal and the monitor is set to the correct HDMI input.
- Reduce the distance between the TX and RX units and ensure there are no major obstructions.

- **Intermittent Signal/Poor Quality:**

- Ensure antennas are fully unfolded and oriented correctly.
- Minimize interference from other wireless devices (e.g., Wi-Fi routers, other wireless video systems).
- Check the signal strength indicator on the display. If low, reduce distance or clear line of sight.
- Ensure the video resolution and frame rate are supported by both the system and the connected monitor.

- **Device Not Powering On:**

- Check the NP-F battery for charge and proper insertion.
- Verify the USB-C power connection and ensure the power source (5V 2A) is functioning.
- Ensure the power switch is in the "ON" position.

- **Pairing Issues:**

- Ensure both units are powered on and within close proximity during pairing.
- Long press the PAIR buttons on both units for 5 seconds.
- If pairing multiple receivers, pair them one at a time.

## 8. SPECIFICATIONS

Feature	Specification
Model Number	XH-HD-1T1R
Transmission Range	Up to 300m / 985 ft (Line of Sight)
Latency	0.04s (40ms)
Video Resolution	1080P HD (60fps)
Input/Output	Dual HDMI (TX: 1x HDMI IN, 1x HDMI OUT; RX: 2x HDMI OUT)
Power Input	NP-F Battery Slot, USB-C (5V 2A)
Item Weight	1.01 pounds

Feature	Specification
Package Dimensions	8.07 x 4.92 x 2.01 inches

## 9. WARRANTY AND SUPPORT

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

