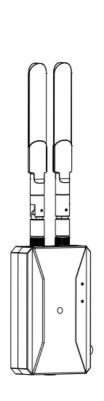
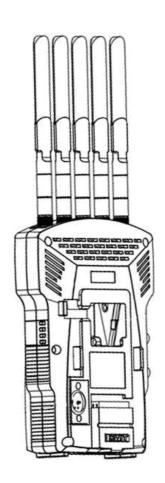




Wireless HD Transmission System





User Manual

Ver:V1.0V01

Please read this User Manual throughout before using.

Preface

Congratulations on your purchase of this product. Please read this user manual carefully.

- All internal technologies of this product are protected, including device, software and trademark.
 Reproduction in whole or in part without written permission is prohibited.
- 2. All brands and trademarks of SWIT Electronics Co., Ltd. are protected and other relative trademarks in this user manual are the property of their respective owners.
- 3. Due to constant effort of product development, SWIT reserves the right to make changes and improvements to the product described in this manual without prior notice.
- 4. The warranty period of this product is 2 years, and does not cover the following:
 - (1) Physical damage to the products;
 - (2) Any damage or breakdown caused by use, maintenance, or storage not according to the user manual's instructions;
 - (3) The attenuation of signal quality resulting from being used in any special environments;
 - (4) Any damage caused by not powering the product by package supplied power adaptor.
 - (5) Any damage or breakdown not caused by the product's design, workmanship, or manufacturing quality, etc.
- 5. For any suggestions and requirements on this product, please contact us through phone, fax, Email, etc.

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For Your Safety

Before start, please follow the safety precautions below

Do not try the followings:

- 1. Unauthorized repairs or parts replacement or other operations.
- 2. Inappropriate placement including but not limited to lighting, fire, exposure to rain, water or gas.
- 3. Switch to the power not in the voltage allowable range

The product

- 1. Do not use the products near water or in high humidity environments.
- 2. Do not block the ventilation openings or get substances inside, in order to avoid short circuit, fire or electric shock.
- 3. Switch the power off if any liquid or substance gets inside the product.

The power

The products can be powered by battery or 4-pin XLR power adaptor.

When the batteries are attached to the products, please make sure they are correctly and firmly locked.

Please use the package supplied power adapter. For third party 4-pin XLR adaptor, please make sure the voltage is within the specified range and the polarity connection is correct.

Please disconnect the power cable under the following situations:

- 1. If you do not operate this monitor for a period of time;
- 2. If the power cable or power adaptor is damaged;
- 3. If the product housing is broken.

Working Environment

- 1. Please don't lay this product on the unstable place.
- 2. Please don't lay the product on metal shelf, in order to ensure the effective wireless transmission.
- 3. Please don't use the products in a place with lots of moisture, soot or dust.

About the radio waves

The products adopt 5.1-5.9GHz wireless frequency, with the low antenna power specified under international and U.S. FCC radio wave regulations. Therefore a license for radio station use is not required to operate this product.

1. Product Introduction

This broadcast industry wireless system includes S-4913T transmitter and S-4913R receiver, adopts WHDI (OFDM) technology, supports uncompressed HDMI wirelessly transmitted in 200 meters scale, and with less than 1ms latency, which is widely used in on-site shooting and director monitoring.

2. Features

Uncompressed HDMI transmission

Support up to 1080p 50/60 uncompressed HDMI wireless transmission

200 meters transmission distance

In open outdoor area, the effective transmission distance is approx 200 meters.

◆ Less than 1ms latency

There's no discernible video delay and you can use it as real time on-location monitoring.

♦ License free operation frequency

The wireless frequency is 5.1-5.9GHz, license free operated.

Transmitting frequencies

The system will auto select from 4-ch frequencies, to ensure the effective transmission. In the same location, it supports 4-pair transmissions at most.

♦ HDMI embedded audio transmission

Support CH-1 and CH-2 HDMI audio wireless transmission

♦ Encryption

Support AES 128-bit encryption to protect the transmission.

◆ Portable transmitter

The transmitter S-4913T is compact, portable designed, suitable for HDV camera installation.

♦ Simple connection

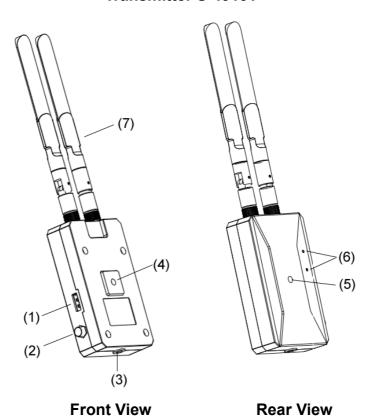
The wireless system is plug-and-play designed, without any software connection and configuration.

Remark:

- 1. The transmission distance may be different, and depend on surroundings, radio wave conditions, buildings, etc., the 200 meters transmission distance may be not guaranteed.
- 2. The wireless transmission might be interrupt if there're many other devices of 5GHz wireless bandwidth operated in the in the same location.
- 3. Signal reception may be affected by the position, height and angle of devices. If reception video is not stable, please physically adjust placement for the optimized signal.
- 4. Set the antennas at 45° to each other will enhance the transmission efficiency.
- 5. The product offers the AES 128-bit encryption to protect the wireless transmission. Anyway, please be ware of the intentional capture from third person.

3. Product Instruction

Transmitter S-4913T



(1) **HDMI:** HDMI input (HDMI-A type connector)

(2) **DC 7-17V:** DC Power input socket

Voltage range: DC 7-17V; Connector: 5.5mm/2.1mm Pole-tap

Pin assign: Outer: negative, Inner: positive

(3) (4) (5) **Installation thread:** 1/4"-20 screw thread installation

(6) LED status indicators

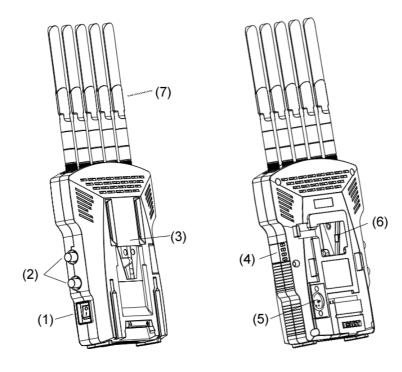
Including Video Signal and Wireless connection condition indicators

(7) Antenna

The description of LED status indicator

Device	Indicators	Status	Description		
S-4913T Transmistter	NET	Constant On	Wireless connected with the receiver		
		Normal Flashing	Searching the connection with the receiver		
		Fast Flashing	System fault (Meanwhile the VIDEO indicator is fas flashing as well)		
	Video	Constant On	The receiver S-4913R has got SDI Video output		
		Normal Flashing	No SDI Video output at the receiver		
		Fast Flashing	System fault (Meanwhile the NET indicator is fast		
			flashing as well)		

S-4913R Receiver



Front View

Rear View

- (1) **Power:** Switch the power on/off
- (2) **SDI OUT:** 3G/HD-SDI output x2 (BNC connector)
- (3) V-mount power adaptor

Connect the S-4913R to V-mount devices, and supply DC power

(4) LED status indicators

Including Power, Video Signal and Wireless connection condition indicators

(5) **DC-IN**

Power the S-4913R via 4-pin XLR adaptor.

Voltage range: DC 8-17V; Pin assign: No.1: negative, No. 4: positive

(6) V-mount plate

Connect V-mount battery to S-4913R to supply power

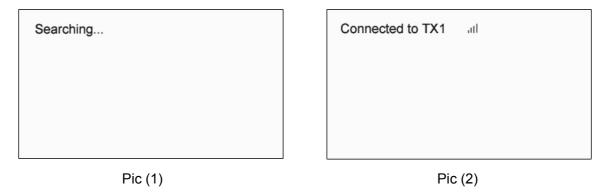
(7) Antenna

The description of LED status indicator

Device	Indicators	Status	Description
S-4913R Receiver	Power	Constant On	Power connected and switched on
		Off	Power disconnected or switched off
	Video	Constant On	The receiver S-4913R has got SDI Video output
		Fast Flashing	System fault (Meanwhile the NET indicator is fast
			flashing as well)
	NET	Constant On	Wireless connected with the transmitter
		Normal Flashing	Searching the connection with the transmitter
		Fast Flashing	System fault (Meanwhile the VIDEO indicator is fast
			flashing as well)
	Reserved	Constant On	Reserved function

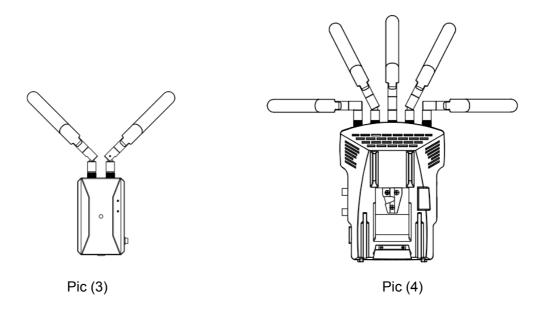
4. System Connection

- 1. Check the match codes on the products. The S-4913T and S-4913R with same match codes are allowed to transmit. (For example: match the S-4913T with "TRANSMITTER ***801" code and the S-4913R with "RECEIVER ***801" code.)
- 2. Connect the HDMI video source with the "HDMI" port of S-4913T transmitter.
- 3. Connect the "SDI OUT" port of S-4913R receiver with SDI monitor or receiving devices.
- 4. Power on the S-4913T and S-4913R by battery or DC cable, and the system will search wireless connection automatically, and display OSD as Pic (1).
- 5. After 10-20 seconds, the wireless will be connected and the receiver will display OSD as Pic (2).



Recommended antenna position:

To ensure the transmission efficiency, it is recommended to set the antennas at different angles. See Pic (3) and Pic (4).



5. Trouble-Shooting

If the receiver failed to output video correctly, and OSD displayed as Pic (5) or Pic (6), please find the solution from following chart:

Connected to TX1, Please Check Video Source

Please wait, this action may take up to 60Sec...

Pic (5) Pic (6)

OSD Display	Possible Causes	Solution		
	The transmitter S-4913T is powered off	Check the power supply of the transmitter.		
O. antina	Antenna unconnected of either transmitter or receiver	Fix on the antennas to both transmitter and receiver, and check the connection conditions.		
Searching	The transmission distance is out of effective range.	Try the wireless transmission at a closer distance.		
	There're obstacles between transmitter and receiver, and blocked the signal transmission.	Try to get rid of the obstacles, or operate at a closer transmission distance		
Connected to TX1, Please Check Video Source	There's no recognized video input at transmitter side.	Check the HDMI video source and cable connections of S-4913T transmitter. (See the supported HDMI format at 6. Specifications)		
Please wait, this action may take up	The wireless transmission is disturbed by environment, such as other electronic devices in the same location.	Wait 60 seconds or restart the transmitter and receiver		
to 60Sec	The transmission distance is out of effective range.	Try the wireless transmission at a closer distance.		

6. Specifications

Model	S-4913T	S-4913R		
Input	HDMI input ×1	Wireless receiving		
Output	Wireless transmitting	3G/HD-SDI output ×2		
	HDMI input	SDI output		
	1080p (60 / 59.94 / 50)			
Video format	1080psf (30 / 29.97 / 25 / 24 / 23.98)			
video ioimat	1080p (30 / 29.97 / 25 / 24 / 23.98) The same as input HDMI form 1080i (60 / 59.94 / 50)			
	720p (60 / 59.94 / 50)			
Wireless frequency	5.1 ~ 5.9GHz License-free			
Radio modules	OFDM			
Max Transmission distance	Approx 200m			
Latency	≤1ms			
Power consumption	tion ≤10W			
Radio power	≤63mW	/		
Input voltage	DC 7∼17V	DC 8∼17V		
Working environment	Temperature: 0°C -+40°C			
Dimension	71×270×28mm (with antenna)	146×344×58mm (with antenna)		
Net weight	256g (with antenna)	655g (with antenna)		

7. Packing List

