

WEVI

CAM ~ WAVE

CW-5
取扱説明書
Operating Instructions

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I. SAFETY INSTRUCTIONS

To use this product safely and correctly please follow the safety precautions set out below. Product misuse may cause fire, shock, injury, product failure or other hazards. Please read this manual prior to using your CW-5 and retain for future reference.



Caution

Fire or electric shock may cause injury or other accidents.

● Before using an external power supply always check that the voltage is within the range specified for the CW-5 and that the polarity of the connector is correct, to avoid permanent damage to the unit.

● Do not attempt to disassemble, modify or repair this product yourself, this will affect your warranty and may cause permanent damage to the unit.

Please refer all servicing to your dealer or WEVI directly.

● Do not use this product near water and humidity. For example, in a bathroom, this may cause fire or electric shock.

● In case of damage, smoke, odour or other unexpected situation. Stop use immediately and consult your dealer.

● Turn the power switch off if any liquid or other matter gets inside the product. If continuously used under such condition may cause shortage, fire or electric shock.

● Please make sure that the CW-5 is correctly locked and mounted when in battery use or mounted on a Video Camera, monitor etc.



Caution

Fire or electric shock may cause injury or other accidents.

- | | |
|--|---|
| ●If ventilation openings are blocked it may cause excessive heat or damage. | ●After long periods of continuous use the case of the unit may be warm to touch. |
| ●Use in an environment with a lot of moisture or dust may cause heat or electric shock. | ●Do not look directly into LED on the front panel, as this may cause damage to the eye. |
| ●Do not place this product on an uneven surface or one with vibration. It may cause failure or damage. | |

Caution on electric magnetic waves

- This product is approved for technical standard compliance certificate (TELEC) based on the electric magnetic wave regulations so there is no need for wireless transmission license.
- This product uses 5.2GHz band wireless LAN and has been checked for interference with medical devices. However when in use it is recommended to keep the CW-5 at least 22cm away from medical devices to assure safety.

II. CONTENTS

CHAPTER 1 Product Overview

The Wireless CAM~WAVE Module (CW-5) delivers high quality resolution video and audio using wireless WLAN 802.11a at 5.2GHz as a media stream. The CW-5TX is the transmitter unit and is usually connected to a video camera or video source.

When used in open spaces it is possible to transmit/receive up to approx: 50m and approx: 30m in places separated by two typical office/home walls.

- *Other characteristics*

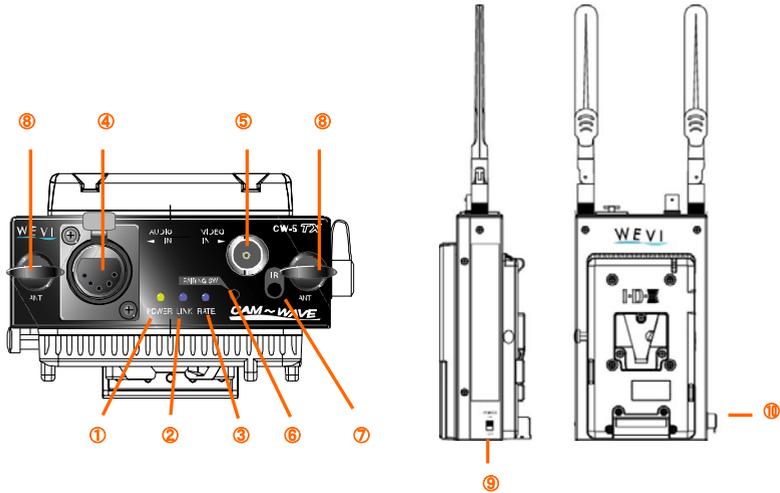
- *Transfer speed adaptive capability allows stable video transmission and avoids interruption even in varying reception conditions.*
- *Automatic hopping function for optimum channel selection up to 4Ch's*
- *NTSC/PAL/SECAM automatic recognition and operation function*
- *AES standard adoption enables high security level contents encryption*
- *Back up power failure function enables immediate and automatic switching to a connected battery if the external DC connected power fails.*

- ※ *Above transmission distance is approximate (an estimate) and the condition may vary depending on wall materials, surroundings, electrical activity etc.*
- ※ *If more than 4 sets are used adjacent, they might interfere with each other and video image may stop (freeze).*
- ※ *If it is placed near a TV etc, the TV image can be interrupted. Please keep away from devices such as TVs if this happens.*
- ※ *At places with many 5.2GHz wireless LAN devices in operation and communicating, CW-5 operation can be influenced and images may be more interrupted.*

- ※ *Signal reception may be effected according to the position, height and angle of placement. If reception is not stable, please look for the best condition.*

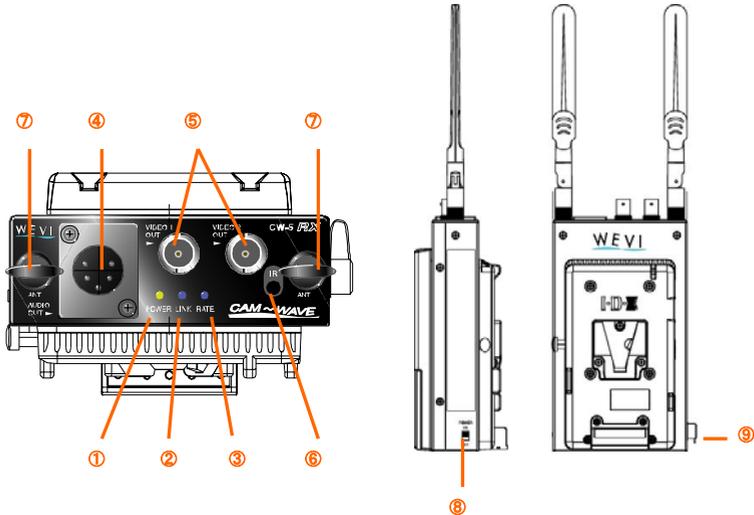
CHAPTER 2 Getting Started

2.1 CW-5TX



1.POWER LED	<u>PowerON/OFF Status and colour:</u> <ul style="list-style-type: none"> ◇ Green light: Operating by battery ◇ Amber light : Operating by external DC-IN ◇ No light : Power is OFF
2.LINK LED	<u>Indicates link status with CW-5RX:</u> <ul style="list-style-type: none"> ◇ Slow blinking : searching for receiver ◇ Fast blinking : Connection with RX is being processed ◇ Fully Lit : connection and authentication complete
3.RATE LED	<u>Indicates transmit speed:</u> <ul style="list-style-type: none"> ◇ Fast blinking : high rate ◇ Medium blinking: middle rate ◇ Slow blinking : low rate
4.AUDIO IN	Connect to the video camera audio output connector Pin Assign No1: GND No2:L CH IN (H) No3:L CH IN (C) No4 :R CH IN (H) No5:R CH IN (C)
5.VIDEO IN	Connect to the video camera video output connector
6.PAIRING SW	Used for TX and RX Pairing setup
7.IR	IR signal beam to setup Pairing
8.ANT	Transmitting diversity antenna
9.POWER SW	Power operation ON/OFF
10.DC-IN	Connect when external power supply is used Input range: DC11V~24V Pin Assign No1 : negative (-) No4 : positive (+)

2.2 CW-5RX



1. POWER LED	PowerON/OFF Status and colour: <ul style="list-style-type: none"> ✧ Green light : Operating by battery ✧ Amber light : Operating by external DC-IN ✧ No light : Power is OFF
2.LINK LED	Indicates link status with CW-5TX: <ul style="list-style-type: none"> ✧ Slow blinking : searching for transmitter ✧ Fast blinking : Connection with TX is being processed ✧ Fully Lit : connection and authentication complete
3.RATE LED	Indicates transmit speed: <ul style="list-style-type: none"> ✧ Fast blinking : high rate ✧ Medium blinking: middle rate ✧ Slow blinking : low rate
4.AUDIO OUT	Connect to the audio input connector such as a monitor Pin Assign No1:GND No2:L CH OUT (H) No3:L CH OUT (C) No4:R CH OUT (H) No5:R CH OUT (C)
5.VIDEO OUT	Connect to the video input connector such as a monitor
6.IR	IR signal beam for setup Pairing
7.ANT	Receiving Diversity antenna
8. POWER SW	Power operation ON/OFF
9.DC-IN	Connect when external power supply is used Input range: DC11V~24V Pin Assign No1 : negative (-) No4 : positive (+)

CHAPTER 3 Operation Guide

3.1 Set up

The CW-5 does not include the following, please prepare them before use.

- BNC cable for Video 2 or 3 cables
- XLR (5 pin) cable for audio 2 cables
 - * Please refer " Chapter 2 Getting started " for XLR connector Pin assignments
- ENDURA series V-Mount batteries or external power supply
Note : External power supply
Use only an AC adaptor, or batteries with a DC output of 11V – 24V. The CW-5 DC-IN connector product number is HR10A-7R-4PC (HIROSE.) Please refer " Chapter 2 " Getting started " for XLR connector Pin assignments.

3.2 Operating procedures

- ① Mount antennas (included) to CW-5TX and CW-5RX antenna connectors.
- ② (Example of use) Connect CW-5TX to the battery mount of the video camera, and CW-5RX to the monitor battery mount. If either device does not have a V-Mount as standard use applicable adapter.
- ③ Connect video camera video /audio output connector and CW-5TX video/audio input connector cables. Also connect monitor etc video/audio input connector and CW-5RX video/audio output connector cables.
Please note that CW-5RX video output connector has two outputs so it can be connected to two monitors simultaneously.
- ④ Connect a fully charged ENDURA battery to CW-5TX and CW-5RX and turn the power on. (Power LED lights green.)
When external power supply is used, connect to DC-IN connector and turn the power on.(Power LED lights Amber.)
Note:
When using an ENDURA battery, power is supplied to both CW-5 and video camera / monitors etc. However, when external power supply is used power is only supplied to the CW-5, video camera, monitors etc must be powered separately.

3.3 When reception is unstable

Signal reception may be effected according to the position, height and angle of placement. If reception is not stable, please look for the best condition by adjusting the location and antenna angle/direction etc.

3.4 Back-up power failure function

When an external power supply is used power failure can be avoided by mounting an ENDURA battery to CW-5 at the same time. if the external power supply fails, use can continue via battery power. Depending on conditions, video quality may be momentarily affected.

3.5 Power saving mode

When the CW-5 is used with ENDURA batteries, power supply to video camera, monitor etc will not stop even when CW-5 power switch is turned off.

While video camera or monitor is still operating the power supply on CW-5 can be turned off, so saving battery consumption.

CHAPTER 4 Pairing

1. The CW-5 is already supplied paired (matched) from the factory.
2. If needed users can also pair manually using the following steps (note if units are not paired correctly when operated communication is not possible):

- Supply power to and switch on both CW-5TX and CW-5RX
- Bring TX and RX connector surfaces to approx. within 20cm distance and face connectors toward each other.
- Then press the pairing button at the top of the CW-5TX for at least 2 sec.

Note: The CW-5TX sends an authorisation code to the CW-5RX and when this configuration data is confirmed over the IR link the pairing is set.

CHAPTER 5 SPECIFICATION

5.1 Basic Specification

Wireless LAN Interface	
Standard	IEEE802.11a (ARIB STD-T71)
Transmission method	Orthogonal Frequency Division Multiple Modulation (OFDM)
Frequency	5,150~5,250MHz (4ch) Auto-select 5,150~5,350MHz (8ch) Auto-select U.S. Spec
Data transfer speed	6/12/24Mbps Auto Switch
Encryption	AES Encryption
Transmission power (max) *1	Japan: 180mW/18MHz U.S.: 50mW/20MHz Europe: 200mW/20MHz
Reception sensitivity	-74dBmW typ.

*1: The max power setting is governed by the 802.11a regulations of each country.

5.2 Input·Output Specification

CW-5TX
(transmission side) Specification

Video / Audio	
Video signal	NTSC/PAL/SECAM auto selection
Composite Input	1.0Vpp/75Ω
Audio Input	0dB 10KΩ Balance
Compression method	MPEG-2
MPEG bit rate	4/8/14Mbps Auto switch
Infrared Signal	<i>* for pairing operation</i>
Signal carrier frequency	38KHz
Display · Operation	
Power switch	Turns the CW-5 Power ON/OFF Note: If a battery is attached the battery power is throughput to the output side even when the CW-5 is off
Pairing Switch	As shipped the CW-5 TX & RX are preset paired For manual pairing push down the pairing set switch The most recent paired information is always retained

Power indicator	Battery operating : Green colour lights DC-IN operating : Amber colour lights OFF : Turned off
Link indicator	Slow blinking : search RX side Fast blinking : connection is in process Fully Lit : Communication established
Video rate indicator	Indicates video rate by blinking speed Fast blinking : 14Mbps Medium blinking : 8Mbps Slow blinking : 4Mbps Lowest Speed blinking : only Audio Turned off : no communication
In/Out connector	
Video Input	BNC female (Composite)
Audio Input	XLR-5 pin female Stereo
Antenna connector	SMA Male Reverse 50Ω ×2
Others	
Size	Incl V-Mount Width 100mm Depth 60mm Height 190mm Main Body only Width 100mm Depth 35mm Height 173mm
Weight	720g (including supplied antenna)
Power Supply	DC in : 11-24V Hirose type 4pin male connector Battery : 11-17V V-Mount Operation guarantee : IDX ENDURA series Li-Ion battery battery input is throughput to the camera side even when DC power is switched off
Power consumption	Max approx. 11W
Operation environment	Temperature 0-40°C Humidity 20-80%(No dew)
Approved Standard	TELEC, FCC part15, CE

CW-5RX(reception side) Specification

Video Audio	
Video signal	NTSC/PAL/SECAM Auto selection
Composite output	1.0Vpp/75Ω
Audio output	0dB less than 50Ω Balance
Compression method	MPEG-2
MPEG bit rate	4/8/14Mbps Auto switch

Infrared Signal	<i>* for pairing operation</i>
Signal carrier frequency	38KHz
Display · Operation	
Power Switch	Power supply ON/OFF Battery input is through to the output side even when power is off
Power indicator	Battery operating : Green colour lights DC-IN operating : Amber colour lights OFF : Turned off
Link indicator	Slow blinking : search RX side Fast blinking : connection is in process Lit : Communication established
Video rate indicator	Indicates video rate by blinking speed Fast blinking : 14Mbps Medium blinking : 8Mbps Slow blinking : 4Mbps Lowest Speed blinking : only Audio Turned off : no communication
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Video output	BNC female (Composite) ×2
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FOR SALES AND SERVICE CONTACT

In Japan/Asia

WEVI
A division of IDX
6-28-11 Shukugawara
Tama-ku, Kawasaki-Shi
Kanagawa-ken 214-0012
Japan

Tel +81-(0)44-850-8801
Fax +81-(0)44-850-8838

In the United States

WEVI
A division of IDX
1602 Lockness Place
Torrance
CA 90501 USA
USA

Tel +1-310-891-2800
Fax +1-310-891-3600

In Europe/Middle East

WEVI
A division of IDX
Unit 34, Taunton Road
Greenford
Middlesex, UB6 8UQ
England

Tel +44-(0)20-8813-1666
Fax +44-(0)20-8813-1777