CW-1
Wireless HD Video Transmission System

Instruction Manual

Thank you for choosing the CW-1. Please read this instruction manual to best maximize performance and safety when operating the CW-1.

Product overview
The CW-1 is a wireless transmission device that transmits video and audio with 5GHz band radio frequencies. CW-1 provides DFS function which enables indoor and outdoor use without being affected by other local wireless regulations. Signals can be transmitted up to 30m (1000ft) where a direct line-of-sight is offered between TX and RX.

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 before using your CW-1 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 specified range and that the polarity of the connector is correct, to prevent smoke or fire.
- Do not attempt to disassemble, modify or repair this product by yourself. It may cause fire or electric shock. Please consult your dealer or local IFX office for inspection and repair services.
- Do not use this product near water or in high humidity environments. It may cause fire or electric shock.
- In case of damage, misuse, unusual smell or other unusual/unexpected situations, stop using immediately and consult your dealer or local IFX office.
- If ventilation openings are blocked, this may cause excessive heat or damage.
- After long periods of continuous use, please be cautious of touching the case of the unit as it may become overheated.
- Using the CW-1 in an environment with a lot of moisture, sweat or dust may cause excessive heat or electric shock.
- Do not place this product on an uneven or vibrating surface. It may cause failure or damage.

Caution on the use of this product radio waves:
- This product has been approved for technical standard compliance certification as a wireless device of radio stations with low antenna power supplied under the FCC (in USA) / ETSI (in Europe) Radio wave regulation. Therefore, a license for radio station use is not required for operation.
- This product is allowed to be used only in designated region by IFX.
- This product is in accordance with the appropriate regulations and can be used outdoors as well.
- CW-1 uses 5GHz band radio frequencies and will not interfere with medical devices. However, when in use, it is recommended to keep the CW-1 at least 30cm (12in) away from medical devices to ensure safety.

Packing list:
- CW-1 TX (Transmitter)
- CW-1 RX (Receiver)
- AC power cord for TX
- DC power cord for RX
- HDMI cable for TX
- HDMI cable for RX
- USB cable for TX (for TX power supply)
- HDMI cable / adapter for the TX will be provided separately. (*Customer option

FOR USE version
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FOR EU version
This equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/ECC. In order to obtain the declaration of conformity statement for the European Union countries, please contact the appropriate IFX office.

Features
- HDMI IN and OUT allows for using with commonly available small camcorders.
- Enables to transmit uncompressed HD video and SD video wirelessly up to approximately 30m (1000ft) LOS.
- Transmission delay is less than 1ms.
- Signal is encrypted by 128bit AES encryption.
- DFS function allows for both indoor and outdoor use.

Set-Up and Operation
1) Install TX to the supplied bracket and connect the HDMI cable from the video output of the camera to the RX.
2) Connect the AC adapter to the RX, and then connect the HDMI cable to the monitor. Power will be turned ON when the AC adapter and/or battery is plugged in to the TX and RX.
3) After the power supplied properly, then CW-1 automatically starts searching for an available frequency. The Link LED flashes when the system is in search mode and turns SOLID as soon as the system links firmly.
4) The Video LED turns off when video signals fails.

Set-Up and Operation
- In areas where other 5GHz wireless devices are in operating, transmission may be interrupted.
- CW-1 is programmed accordingly to each region, thus the transmission and use in the unspecified region may violate the law.
- The maximum transmission range varies depending on the surrounding environment such as radio wave conditions, composition of the wall, weather, etc.
- Unstable signal reception may be caused by the height, angle and distance between TX and RX.

DFS Function
DFS is the abbreviation of “Dynamic Frequency Selection”. DFS detects the radio waves of weather radar and the CW-1 automatically searches for an available frequency to avoid interference. LINK TIME takes approximately one minute.

Specifications
- Power input: DC 5V
- Connectors: HDMI IN/OUT
- Video input: TX: HDMI plug RX: HDMI jack
- Video format: 1080i, 59.94i, 59.94p, 720p, 59.94p, 525i, 59.54i, 625i/50i, 625p/50p, 525i/60i, 625p/60i, 1125i/50i, 1125p/50p
- Wireless: 2.4GHz/5GHz
- Frequencies: 5.62GHz, 5.94GHz, 6GHz, 6.1GHz, 6.2GHz, 6.4GHz, 6.5GHz, 6.6GHz, 6.8GHz, 6.9GHz, 7GHz, 7.2GHz, 7.3GHz, 7.5GHz, 7.6GHz, 7.7GHz, 7.8GHz, 7.9GHz, 8GHz
- Channel bandwidth: 20MHz
- Transmission distance: 30m / 100ft (outdoor), 50m / 165ft (inside)
- Transmission format: 802.11b/g/n, 16QAM, 64QAM, 256QAM
- Antenna: Omni directional, TX: Omni, RX: Dipole, RX: Omnidirectional 2dBi, RX: Omnidirectional 3dBi
- Casing: ABS 128-bit encryption
- Link mode: ENCAST
- Link LED: Blink, Linked, Link off
- Video LED: On, Off, Light on, Light off

Warranty & Service
- Warranty period of the CW-1 is two years after purchase.
- Warranty may be voided even within the warranty period when IFX noticed failures:
  - Improper use of CW-1/Malfunction due to excess or deficiency of power / Malfunction due to power short circuit / Physical damages caused by dropping or vibration / Malfunction due to water / Unauthorized used and/or modification done by customer
  - When any assistance is needed, please contact your local IFX dealer or appropriate IFX office below.

Design and specification are subject to change without notice.

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取扱説明書

このたびは、CW-1をお買い求めいただきありがとうございます。本機の使用に当たっては、本书をよくお読みいただき、基本的な取り扱い方法や注意事項をご理解の上で安全にお使いください。お読みになった後は、いつでもご覧いただけるよう、必ず保存してください。

概要

CW-1は5GHz帯の無線周波数を使ったHD映像および音声を伝送する無線伝送装置です。CW-1はDHS機能を搭載しており、日本の電波法に基づき内蔵および屋外で使用できます。一般的な広域無線通話を目的として、TX（送信機）とRX（受信機）の間が見渡せる場所で最大約300mです。

ご使用上的注意

間違った使い方をした場合、火災、感電あるいは障害発生などの重大な原因となることもあります。事故を防ぐために、次の項目を必ずお読みください。

警告
● 電源の取り扱いに誤る場合、火災や感電の原因となります。火災や感電を防ぐため、次の項目を必ずお読みください。
● 送信機をそのまま携帯して移動する場合、火災や感電の原因となります。
● 送信機を携帯して移動する場合、火災や感電の原因となります。

電波に関する注意

本製品は、電波法に基づく電波の利用規則の無線設備の無線設備として、技術適性試験を行い工事設計等規制を設けておりますので、その使用は日本国内でのみ使用できます。本製品は日本国内の電波設備を調査し、無線設備等の許可は必要ありません。

保証と修理

本製品の保証期間はお買い上げ日後2年間です。

仕様

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<td>入力麻電</td>
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<td>走行方式</td>
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<td>通信方式</td>
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