

## GHOSTEYE 15000A KIT

### USER MANUAL



Full HD  
Video

SDI &  
HDMI

Very Low  
Latency

Plug &  
Play

Rugged  
Design

#### EU Environmental Protection

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.






PAP

# Important Information

Please read this user manual before you use this product, it contains all the notes and important things regarding operating this product. In accordance with the safety precautions and operating instructions listed on this user manual, our applies provided the product is handled properly for its intended use, but may not apply to below cases:

- Repairs or product modification and alterations have been executed by unauthorized personnel.
- The damages are caused by accidents including but not limited to lightning, fire, exposed to rain or water, and moisture.
- Do not use provided power adapter with specific power voltage which are not compliant with the rated voltage range in the attached label of the power adapter in package.
- The model label on the product has been modified or the warranty tag has been removed by unauthorized personnel.

## Safety Precaution

 Danger! High voltage	To reduce the risks of electricity, do not remove or open the cover. No user-serviceable parts are inside. Please return to original factory for maintenance
 Beware of hot surfaces!	The high temperature in the process of operating the device may cause the high risk of scalding.
 Caution!	Please use our standard power adapter. Detailed information Please refer to the rated voltage range showed on the label at the back of package's power adapter.

## Danger: Be careful with electricity.

- As connecting any equipment (such as any player or TV , etc.), please turn off the power to the product before any operation is undertaken.
- Power outlet: To prevent electric shock or fire, short circuit, please make sure the type of electrical plug used on the receiver's and transmitter's power cord are compliant with the rated voltage range in the attached label of the power adapter in package.
- Power cord: Do not place any heavy articles above on the power cord. To avoid being stepped on or pinched by heavy items, the power cord should not be located on the place where people pass by frequently.
- Power overloading: Avoid overloading wall's electrical outlets and extension cord or other multi-socket; otherwise could result in electric shock or fire.
- Lightning: For protection from lightning or when the product is left unattended for a long period, please disconnect it from the power source.
- Please disconnect the power cord from the power outlet when you are not using the receiver and transmitter, this will reduce the risk of electric shock or fire.

# Important Information

## **Warning**

- This product should not be exposed to dripping or splashing. Do not place any object filled with liquid on the product(eg. vases).
- To avoid electric shock, please do not block or stick anything on the air vent of product; do not remove the cover or put the object just like pins, steel wire into the gap of the air vent.
- Please place the receiver/ transmitter on a flat with hard and stable surface.
- Ventilation: please do not block the air vents on the receiver/transmitter or place any heavy object on top of them . Blocking the air flow can damage the product itself. Please make sure that there is adequate ventilation distance between the receiver and TV, and also put the product away from direct sunlight or any source of heat.
- Water Exposure: To reduce the risk of electric shock or fire , please do not expose the receiver/transmitter to rain or moisture.
- We assume no responsibility for any damage or result caused by using other adapters instead of our standard adapters

## **Special Notice**

- Although the product has provided the function of data encryption when transmitting, you still need to pay attention to deliberate signal interception. There will be the possibility of a third party intentionally intercept the transmission signal since the product adopt wireless communication. Please do not use the product on confidential and important communications, or life-related communications. The main concern is that the content of wireless communication might be received by the third party's wireless devices deliberately or accidentally.
- The impact of radio waves such as the following environment may cause the abnormal audio and video(blocked image, noise ...etc.).
  - 1 ) Transmit near the wall which is hard for the radio waves to get through.
  - 2 ) Quite close to the refrigerator, metal fitment and appliances, or next to the crowded situation
- Although this product made in accordance with national electrical safety standards, it still will occur noise with other machines mutual interference in rare cases. When interference occurs, please maintain a certain distance from the other machines.
- Turn on the transmitter power must after connected the antenna.
- Receiver and transmitter do not set in metal racks that will hinder the wireless communication.
- When the wireless communication start, the machine will take about 15-20 seconds to boot the system. During this time, the media receiver cannot operate.
- Different software versions and functions cannot replacement or exchange.

## Brief Introduction

Ghosteye 15000A transmitter and receiver low latency wireless HD video transmission systems are based on H.264 CODEC and COFDM digital modulation. The transmitter transmits HD video from HDMI input and the receiver receives the signal wirelessly and presents the video through HDMI output.

## Features

- Support point to point and broadcasting to unlimited number of receivers in range.
- Hi speed H.264 CODEC robust COFDM modulation enabled low latency and big range.
- HDMI standard compliance.
- Manual channel selection.
- Working temperature range - 10 ~ + 50 ° C.

# What is included

Please check the packing list carefully after unpacking, if any part is missing, please contact your dealer.

TX



Wireless HD Transmitter  
15000A x 1



Power converting  
cable x 1



HDMI cableMini interface  
standard interface x1



Omni-directional  
antenna (3dBi) x1

RX



Wireless HD Receiver  
15000A x 1



Power Adapter  
(5V/1A) x 1



HDMI cableMini interface  
standard interface x1



Omni-directional  
antenna (3dBi) x1



6dBi Antenna x1  
(extension)(optional)

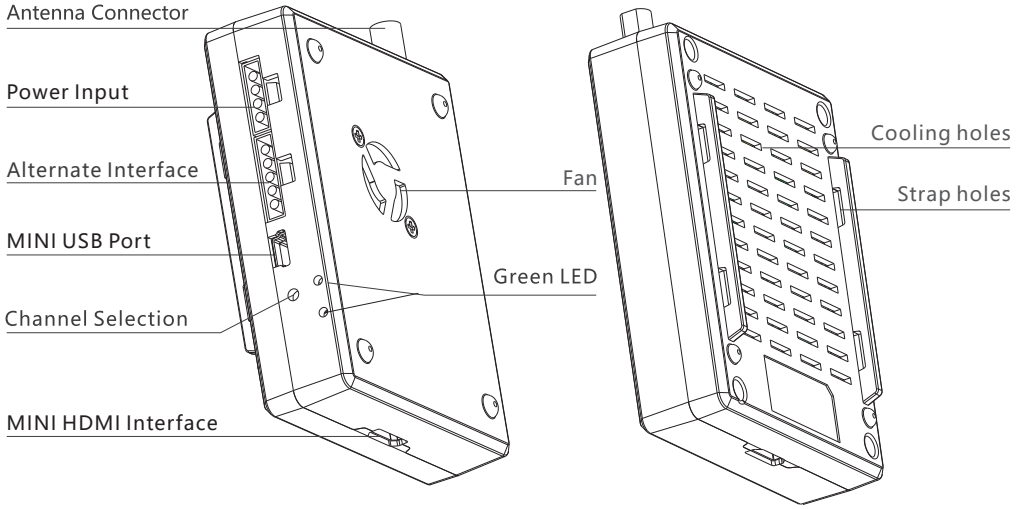


7dBi Directional  
panel antenna x 1

\* Accessories in package may vary according to certain conditions in different country/region, please check out the conten

# Structures and Interface

## Wireless HD Transmitter

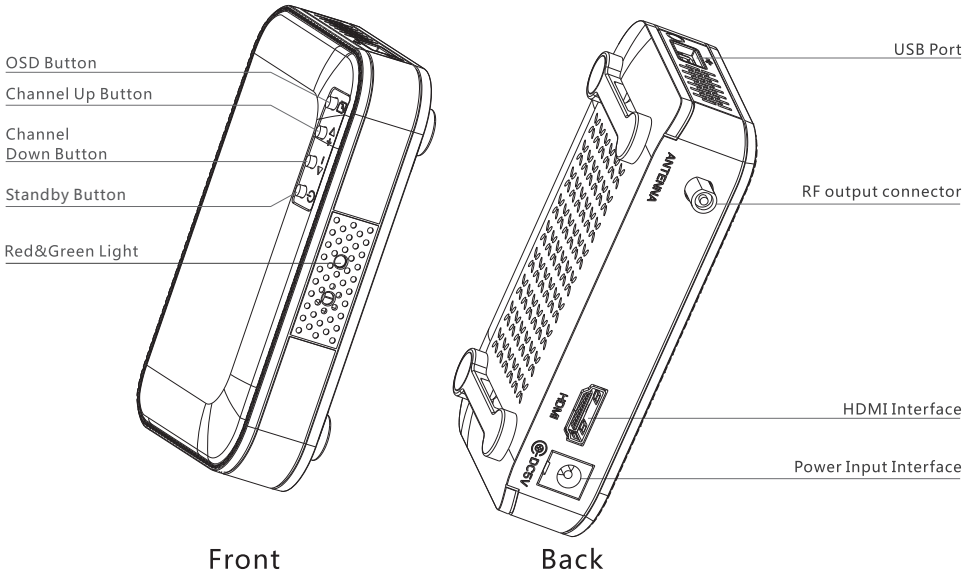


## Wireless HD Transmitter Interface Instructions:

1. Mini USB Port : Software upgrading
2. Mini HDMI Interface : HDMI video input
3. Channel Selection Button : Short press button, cyclic switching channels CH1-> CH2-> CH3-> CH4->CH1...
4. Power input ( 4 pin connector ) : DC power input, 12V 1A
5. RF Output (RPSMA connector) : Connect to the antenna
6. LED Indicators : Refer to "Indicator Light Instructions"

# Structures and Interface

## Wireless HD Receiver

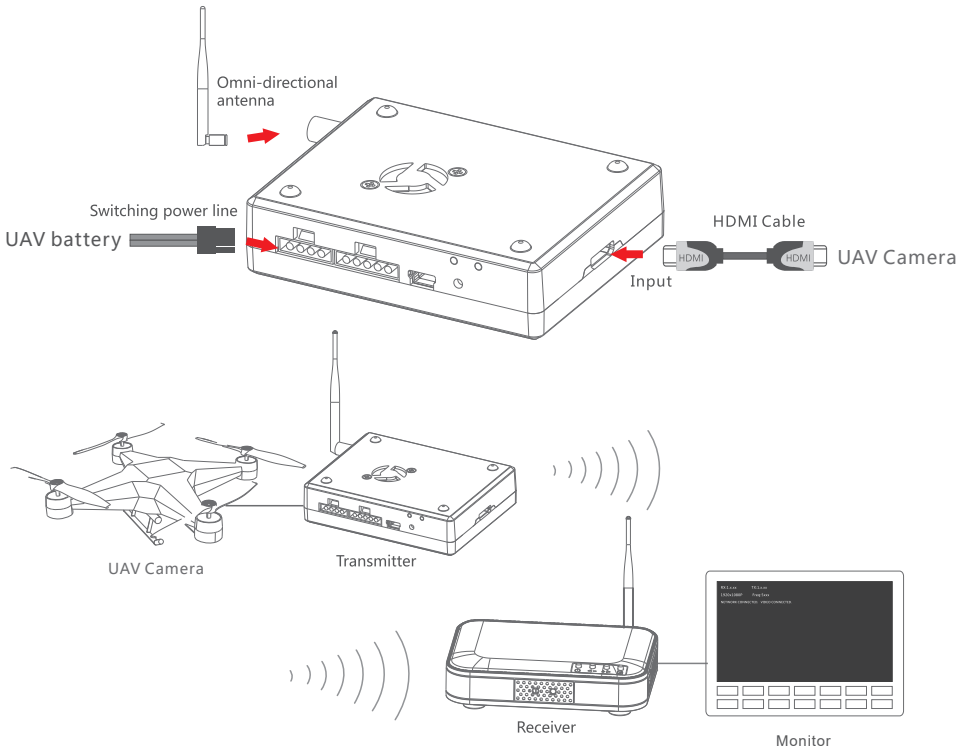


### Wireless HD Video Receiver Interface Instructions:

1. USB port : Software upgrade interface
2. HDMI interface : HDMI video output
3. Standby Button : Standby
4. Channel Up Button : Short press button, cycle increase channel  
CH1-> CH2-> CH3-> CH4-> CH1...
5. Channel Down Button : Short press button, cycle decreases channel  
CH4-> CH3-> CH2-> CH1-> CH4...
6. OSD Button : Show the current status on TV
7. Power Input Interface : DC power input, 5V 1A
8. RF output interface : Connect to the antenna

# Installation













## Wireless HD Video Transmitter Installation



1. Connect UAV battery and transmitter via power converting cable.
2. Install the antenna to the RF connector, and place it in vertical direction.
3. Connect the transmitter and video source with a HDMI cable. Turn on the transmitter, the video signal is connected correctly, a green light will be on, that means the video is transmitted correctly.



# Indicators

Model	Indicator	Indicator Status	Working Status
 TX: 15000A	Video Indicator	 Flash  ON	System start up Video signal
	Data Signal indicator	 ON  OFF	Data transfer Data interrupt
	Channel indicator	 Flash Once  Flash Twice  Flash Three times  Flash Four times	CH1 Channel CH2 Channel CH3 Channel CH4 Channel
		*Press Channel button to switch channels	
 RX: 15000A	Signal Status indicator	 Power indicator  Signal indicator	Red light on Green light on

# Specifications

## Wireless HD Video Transmitter Specification

Item	Data
Frequency	902MHz-928MHz
Antenna	RPSMA Male & MMCX Female
Impedance	50Ω
Modulation	COFDM
Data Rate	1~10 Mbps
HDMI Video Format	480i60、480P60、576i50、576P50、720P50、720P60、1080i50、1080i60、1080P24、1080P25、1080P30
Interface	HDMI input(Type A) ,Power input, MINI USB interfaces; RF output (RPSMA type male);
Power supply	DC 12V ( Support 7V~30V )
Power consumption	≤8W
Bandwidth	6MHz
Temperature	-10 °C ~ +50°C (Working) ; -20~+75°C (Storage)
Transmission Power	500mW
Delay	200mS
Range	RX antenna 3dBi : transmission distance can reach 3~5km RX antenna 6dBi : transmission distance can reach 7~10km RX antenna 7dBi : transmission distance can reach 7~10km
Weight	≤100g ( Not including antenna and cable )
Dimensions	83*63*20mm

Note: the transmission distance is under the condition of Line-Of Sight

# Specifications

## Wireless HD Video Receiver Specification

	Item	Data
	Frequency	902MHz-928MHz
	Receiver sensitivity	≤-96dBm
	Antenna	RPSMA male
	Impedance	50Ω
	Demodulation	COFDM
	Data Rate	1~10 Mbps
	HDMI Video Format	HD video
	Power supply	DC 5V
	Power consumption	≤3.5W
	Interface	HDMI output, power input, USB Interface, wireless input
	Temperature	-10 °C ~ +50°C (Working) ; -20~+75°C (Storage)
	Dimensions	115*78*26mm

\* We are improving products continuously , the specification may be upgraded with necessary change without notification.

## **FCC Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:-Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help. To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example use only shielded interface cables when connecting to computer or peripheral devices).

## **FCC Radiation Exposure Statement**

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment 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.

## **Cautions!**

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.

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## Customer Support

If you encounter any issues with any of our products please contact us directly on the  
via the details provided below. DO NOT CONTACT THE RETAIL STORE.

CINE GEARS INC.(USA)  
205-8105 Birch Bay Square ST,  
Blaine, WA. 98230 USA.  
Tel: 1 206 462 2858  
Toll Free: 1 800 693 8883

CINE GEARS Inc. (Canada)  
201- 6700 No. 3 Road.  
Richmond, BC,V6Y 2C3,Canada.  
Tel: 1 604 243 9995

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