

32 Channel Auto Searching

Wireless FPV Monitor with Dual Diversity

Receiver LCD Monitor



User Manual

Product description :

Wireless FPV monitor with dual diversity receiver LCD monitor is a new multi-functional product, adopts advanced integrated circuits and high-quality new HD LCD monitor. It integrates a high-sensitivity dual 5.8GHZ AV wireless receivers with auto searching, aerial receiver, high-definition monitor. The Monitor casing compact, easy to operate, can be used for FPV ground station, security monitoring, baby monitors, photography viewfinder, construction site video surveillance, advertising and other venues.

The monitor built-in battery, if you don't install the battery, you can use the 9~18V power supply or use the battery plate for external power supply



To insure best use of the unit, please read the user's manual carefully.

CAUTION

1. Do not use any damaged or leaking battery and please replace the battery immediately if its working life becomes short significantly.
2. Do not expose this product to direct sunlight, heat or humid conditions.
3. Keep away from strong light while using this product so as to obtain the clearest and the most colorful picture. Please use sun shade for the outdoor necessary.
4. Please avoid heavy impact or drop on the ground.
5. Do not use chemical solutions to clean this unit. Please simply wipe with a clean soft cloth to keep the brightness of the surface.
6. Without adjustable component in the unit, please do not take apart or repair the unit by yourself, to avoid damage the product.

Product feature:

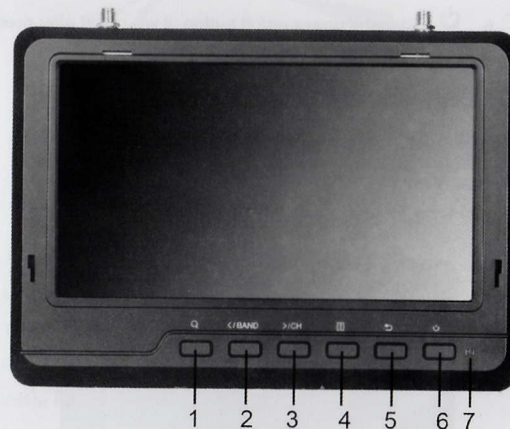
- Dual antenna receiver, high-sensitivity, strong anti-interference
- 5.8G wireless receiver, a monitor for the integration of multi-functional combination machine, compact, suitable for a variety of purposes.
- 5.8G wireless receiver, 32-channel selection, effective to avoid the signal interference.
- Channel Auto scan, selection via button, which improve the accuracy and convenience of channel selection.
- High brightness, contrast, anti-glare screen with a sun shade, clearly visible in the sunshine.
- Support various color systems and enter the menu manually to select the appropriate format, stronger adaptability.
- The built-in battery power, convenience for the outdoor without power

CONTENTS



1. Product Description	3
2. Wireless Transmit Receiver Operation ----	6
3. Operation Instruction	8
4. Sun Shade Installation	12
5. Power Supply	14
6. Parameters	16
7. Trouble Shooting	17

1 . Product Description

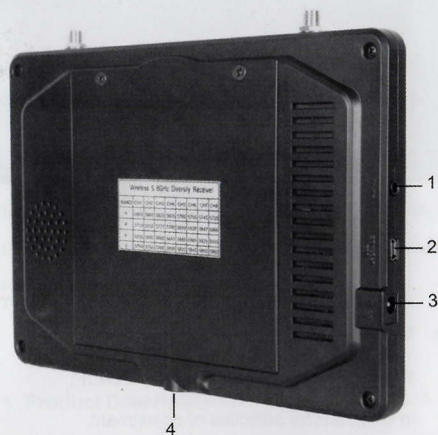
1.1 Front View:



1. : In RF receiving, it is for channel auto searching
2. / BAND : Multi button, Volume down
Manual Tuning: to switch BAND: A/B/E/F;
In OSD, it is for selection or adjustment.
3. / CH : Multi button, Volume up
Manual Tuning: to select 1~8 channel;
In OSD, it is for selection or adjustment.
4. : Menu button, as menu entry and adjustment confirmation button

5.  : Input signal select button, as exit button in Menu operation.
6.  : Standby power on/off button, it will on/off after press this button about 3~6S.
7. Power/ Battery charge indicator light

1.2 Rear View:



1. AV IN: AUDIO input port (See AV cable instruction)
2. USB **Upgrade** port
3. Power input port
4. 1/4 inch thread mounting hole

1.3 AV Cable (optional)



We use 3.5mm selection plug for VIDEO/AUDIO input (see the picture as above)

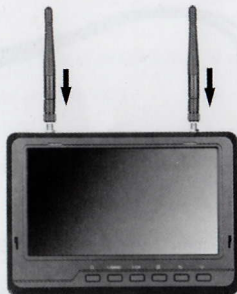
Use No.1 plug for the VIDEO input

Yellow RCA 4: VIDEO input port

Red RCA 3: AUDIO R input port

White RCA 2: AUDIO L input port

2. Wireless Transmit Receiver Operation



Take the matching antennas assemble on the unit's antenna input ports; the assembly should be secured and locked on the buckle.

2.1 Band Selection

Wireless transmitter channel and receiver channel must be strictly consistent; otherwise it will not receive a transmitter signal.

(Frequency range of each region are different, please check the unit's paste instructions).

This unit can auto scan for 32 receiver channels. When multiple transmitters and receivers simultaneously work, should choose different frequency to avoid co-channel interference.

Wireless 5.8GHz Diversity Receiver								
BAND	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
A	5865	5845	5825	5805	5785	5765	5745	5725
B	5733	5752	5771	5790	5809	5828	5847	5866
E	5705	5685	5665	5645	5885	5905	5925	5945
F	5740	5760	5780	5800	5820	5840	5860	5880



Note! Channels must be supporting the transmitter

2.2 Auto Searching:

Confirm that the transmitter has entered a normal working condition.

Press "⏻" button for 3~6S to turn on the monitor, then press "↶" button to select "RF" signal input.

Long pressing "Q" button, "Auto Searching" will display on the top left corner of the screen, it means the machine start to auto searching. When the top left corner of screen shows the "BAND:X CH:X", FR:XXXX Mhz, and image display, it means the receiver s have detected the signal from the Transmitter. Now it turns to normal reception work.

2.3 Manual Searching and Setting:



Confirm that the transmitter has entered a normal working condition.



Press "⏻" button for 3~6S to turn on the monitor, then press "↶" button to choose "RF" signal input. Firstly, press ">/CH" button, BAND:X CH:X will display on the top left corner of the screen, then press "</BAND" button to switch BAND A/B/E/F, press ">/CH" button to select 1~8 channels, If this time transmitter has worked, receiver and transmitter frequency in agreement, the receiver will receive the signal sent from the transmitter and displayed on the monitor



Note: The effect of receiving and the distance has a great relationship with the reception power of the transmitter and the receiver venues. If the reception is poor, the antenna can be replaced with three leaves, four leaf antenna or panel antenna. When replace the antenna, the antenna and receiver should have same frequency

3. Operation Instruction


3.1 Button Instruction:

  Standby power on/off button, it will on/off after press this button about 3~6S.


  Input signal select button, as exit button in Menu operation.



  Menu button, as menu entry and adjustment confirmation button

  Multi button






- Volume Up, in RF state, presses **</BAND** to confirm in advance.
- In RF receiving, as CH1~8 channels selection.
- In Menu operation, it is for item up selection.
After enter to sub-menu, it is for up adjustment.
After enter to sub-menu adjustment, press  button to confirm, this button is for the value of analog increase or selection for the adjustment

  Multi button

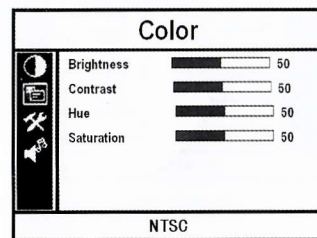
- Volume Down, In RF state, presses this button to confirm in advance.
- In RF receiving, as BAND: A/B/E/F channel selection.
- In Menu operation, it is for item down selection.
After enter to sub-menu adjustment, Press  button to confirm, this button is for the value of analog decrease or selection for the adjustment

  In RF receiving, it is for channel auto searching.

3.2 Menu Instructions

Press  button to enter the menu and use **</BAND** or **>/CH** button to select "Color, OSD, Function, Sound", then press  button to confirm, that is, enter corresponding menu item operation. Select the adjustment item by **</BAND** or **>/CH** button, then press  button to confirm. After the confirmation, select or adjust the parameters by **</BAND** or **>/CH** button, then press  button to confirm again. Exit the OSD menu press " " button.

Color



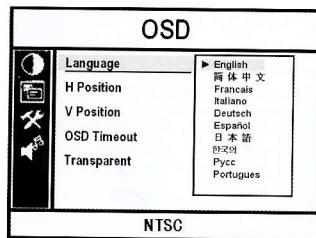
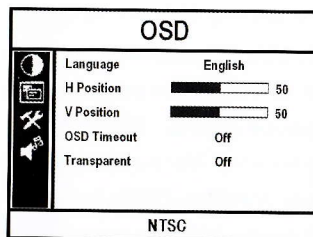
※ **Brightness:** To adjust the image's brightness.

※ **Contrast:** To adjust the brightest and darkest ratio of the image, please note the sense of picture when adjust, proportion too large or small, will make the picture lose the color of showy.

※ **Hue:** On NTSC Video mode, the image color tint difference is adjustable by tint.

※ **Saturation:** To adjust color concentration.

OSD



※ **Language:** Languages for OSD as below:

English、简体中文、Français、Italiano、Deutsch

Español、日本語、조선의、Pycc、Portugues

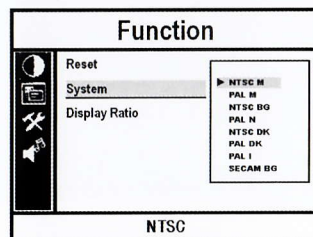
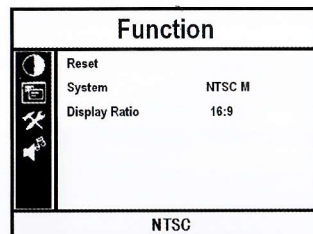
※ **H Position:** To adjust the OSD position in horizontal.

※ **V Position:** To adjust the OSD position in vertical.

※ **OSD Timeout:** To adjust the clock.

※ **Transparent:** To adjust the level of transparent.

Function

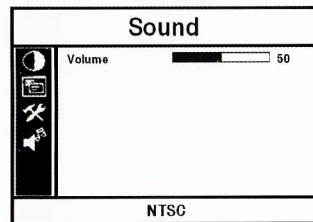


※ **Reset:** Back to original setting.

※ **System:** To adjust color video format.

※ **Display Ratio:** To switch the image display ratio 16:9/4:3

Sound



※ **Volume:** To adjust the volume.

4. Sun Shade Installation

4.1 Positive parallel alignment of the sun shade and monitor, the projection of the sun shade hanging claw at the monitor sun shade slots.



4.2 The sun shade's hanging claw and the monitor's sun shade slots should be aligned around inserted balanced to slide down.



4.3 Put the corresponding sun shade with paste tape, follow the image and paste on the fixed frame.



4.4 Assembled monitor with sun shade.




5. Power Supply

There are three ways for power supply:

5.1 Supply by electricity with power adapter

When the monitor connect the electricity by DC power adapter, red light is illuminated, means it is charging, after fully charged, the light go out.

Long pressing  button about 3~6S to turn on the monitor. If the built-in battery is not fully charged, it still continues to charge the battery, until the battery is full.

To use power adapter supply, it can choose the power adapter (optional), which matches to the monitor. If the customers need to use the other power adapter, please use the qualified power supply in DC9-18V, $\geq 1.5A$.

5.2 Built-in Battery Power Supply

This unit is built-in Li-ion battery capacity: 7.4V-2200mA/h (2Hours), after fully-charged, it lasts to work about 2 hours.

5.3 Maintenance of Li-ion Battery.

- The working temperature of Li-ion battery is -20~60°C, please don't use battery in the place with temperature too low or too high. The power of battery will be reduced if it is working in low temperature environment. It may cause battery case swell even explode in high temperature environment. Please check

the temperature of battery when it works in high temperature environment.

- Over-charge and over-discharge, it will cause permanent damage to the positive pole and negative pole of batteries. No need over discharge then rechargeable every time.
- Period of time to do a deep charge and discharge the battery under the protection circuit control to correct the consumption statistics, but it will not improve your battery's actual capacity
- please place it in a cool place to weaken the perspiration speed of battery, if you don't use the battery for long time.
- Please charge power stored in the battery to prevent self-discharge of excessive led to excessive discharge damage if you don't use the battery for long time.

6. Parameters

Panel Size	IPS LCD 7.0inch
Panel Type	IPS LCD
Resolution	1024×600 Pixels
Backlight	LED
Dot Pitch	0.1506(H) × 0.1432(V) mm
Display Ratio	16:9
Brightness	600cd/m ²
Contrast	800:1
Response Time	30ms
Viewing Angle	85°/85°(L/R) 85°/85°(U/D)
Surface Treatment	Anti-Glare
Input Signal	Video / Audio / RF
Video Color System	PAL-4.43 / NTSC-3.58
Input Voltage	DC: 9~18V
Power Consumption	≤ 13W
RF Receiving Frequency	5.8 G broadband FM audio and video synchronization receiving (other frequencies optional) 32 channel (Auto Searching)
RF Wireless Receiving Sensitivity	Typical value -90dBm
Frequency Stability	±100ppm
Unit Size (mm)	191(L)×134.7(H)×23(D)mm
Unit Weight	470g(Including the battery without antennas)
Installation Method	1/4-20 thread mounting holes in the monitor, easy to install on the tripod
Built-in battery	Li-ion 7.4V/2200 mA/h
Working Temperature	-20 ~ 50℃
Storage Temperature	-30 ~ 65℃

7. Trouble shooting

7.1 Only black and white or monochrome picture

- ① Please check saturation, brightness & contrast adjustment whether it is appropriate.
- ② In RF receiving, please check If Video Color System of the transmitter frequency matches with the receiver frequency.
Or you could enter the "Function" in the Menu to set the system.

7.2 NO picture after put on the power

- ① Check signal cable contact if are in good condition or not, make sure whether the monitor and input signal are synchronized, press the "↻" button and have a try. If in the RF channel, please check if the transmitter has been work
- ② Make sure to use the standard adapter connect the monitor. If the monitor is supplied by battery, please check if the battery is fully charged.

7.3 Images are not synchronized

- ① The RF signal is too weak.
- ② Enter "Function" in OSD, check if the input video color format matches accordingly, try other system.

7.4 NO sound

- ① Volume control did not open, try to increase the volume.
- ② Check if the AUDIO input is workable

7.5 Open the RF, no signal detected

- ① Check if the transmitter work properly or not.
- ② Check if transmitter frequency matches with the receiver frequency band.

- ③ If customer change the receiving antenna, please note that antenna must match with the transmitter, otherwise receiving sensitivity may be weak, even can't receive signals
- ④ Re-auto searching or channel manual operation

■ **Remark: If there are still other problems, please contact with our related deals.**

★ **If there are changes without prior notice.**