

Channel Auto Searching

Wireless FPV Monitor with Diversity

Receiver LCD Monitor



User Manual

Product description

Wireless FPV monitor with dual receiver LCD monitor is a new multi-functional product; adopt 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 build-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:

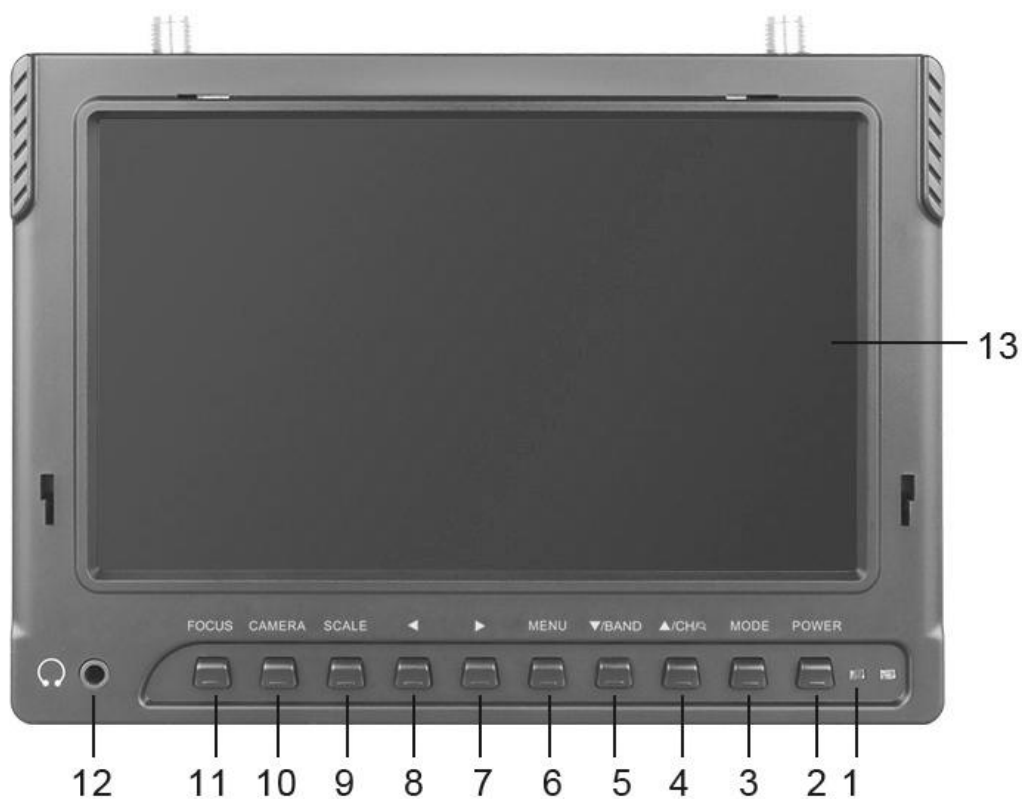
- **Dual antenna receiver, high-sensitivity, strong anti-interference**
- **Set DVR, wireless receiver, a monitor for the integration of Multi-functional combination machine, compact, suitable for a variety of purposes**
- **5.8G wireless receiver, 40-channel selection, effectively to avoid the signal interference**
- **Channel Auto searching, selection via button**
- **High brightness, contrast, anti-glare screen with a sun shade, sun clearly visible**
- **With VIDEO input, output, HDMI input, suitable for variety of sources.**
- **Color Control Systems support, enter the menu to manually Select the appropriate format, and adaptable**
- **Front headphone monitors playback audio effects**
- **Build-in battery and optional battery plate, can be equipped with Variety of battery, No power to facilitate use of the site in Country**
- **With VIDEO signal output function, connecting multiple Monitors.**
- **Check Field**
- **Picture Screen Markers and Center Marker**

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1. Product description

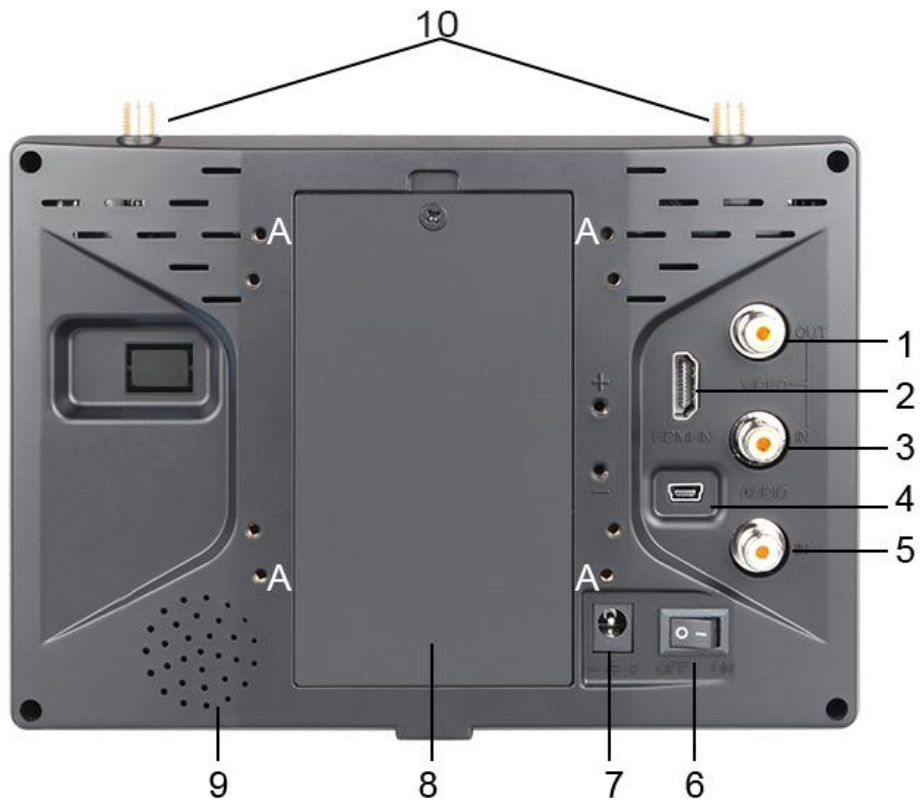
1.1 Front panel instruction




1. Power Indicator
2. **POWER**: Standby button
3. **MODE**: Input signal selection button
4. **▲/CH/Q** : Multi button for UP/CHANNEL/SEARCH:
Press this button for channel selection LONG pressing
for channel auto searching in OSD for “UP” button
5. **▼/BAND** : Multi button for DOWN/Channel selection
Press this button for channel selection from “A/B/E/F/R”
in OSD for “DOWN” button

6. **MENU**: Menu key, as exit button when on BAND selection
7.  : Volume up, press this key to increase the volume control, menu item selection for settings adjustment
8.  : Volume down and center mark button press this key for center mark on/off. If would like to make the volume down, press “  ” firstly and then press this button for adjustment. Menu item selection for Settings adjustment
9. **SCALE**: SCALE on and settings
10. **CAMERA**: CAMERA mode on/off
11. **FOCUS**: FOCUS on/off
12. : Stereo earphone jack
13. LCD screen

1.2 Rear battery plate instruction



1. **VIDEO OUT:** Composite video signal output
2. **HDMI:** HD HDMI signal input
3. **VIDEO IN:** Composite video signal input
4. USB data ungraded port
5. **AUDIO IN:** Audio signal input
6. Power switch “-” Indicates that the power is turned, “0” means Disconnect the power
7. Power input jack 
8. Battery Pack
9. Speaker
10. Antenna connector

A~A: 75×75mm VESA, Screw size: M4×5.0mm

2. Wireless transmission receiver operation



Take the form a complete set of the antenna assemble on the unit's antenna input ports, the assembly should secure, locked on the buckle.

2.1 Channel selection

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

This unit can auto searching for 40 receiver channels, also can accept simultaneously multi transmitters and receivers together work, to avoid co-channel interference

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

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
R	5658	5695	5732	5769	5806	5843	5880	5917



Note! During select channels must be supporting the transmitter

2.2 Auto searching

Confirm that the transmitter has entered a normal working condition and then turn on the monitor, press “**MENU**” and select “RF” signal input. Long pressing “▲/CH/Q”, “**Auto Searching**” will display on the top left corner of the screen means the machine start to auto searching when the screen on the upper left corner shows the “**BAND:X CH:X**”, images, said that finished searching. Now can be received the signal.

2.3 Manual searching and setting:

Confirm that the transmitter has entered a normal working condition and then turn on the monitor, press “**MENU**” and select “RF” signal input. “**BAND: X CH: X**” will display on the top left corner of the screen Press “▼/BAND” to switch channel A/B/E/F/R. Press “▲/CH/Q” to select 1~8 channel. If the 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

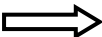
Note: The effect of receiving the distance has a great relationship with the reception power of the transmitter and the receiver venues. If the reception is poor, the antenna can be replaced with three leaves, four leaf antenna or panel antenna. Replace the antenna should pay attention to the antenna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

3. Operation instructions

3.1 Button instructions

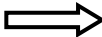
POWER  Standby button


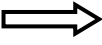
MODE  Input Signal selection button


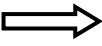

▲/CH/Q  Multi button for UP/CHANNEL/SEARCH:
Press this button for channel selection LONG
pressing for channel auto searching in OSD for
“UP” button

▼/BAND  Multi button for DOWN/Channel selection

Press this button for channel selection from "A/ B/ E/ F/R". In OSD is for "DOWN" button

MENU  Menu key, as exit button when on BAND selection

  Volume up, press this key to increase the volume control, menu item selection for settings adjustment





  Volume down and center mark button, press this key for center mark on/off. If would like to make the volume down, press "" firstly and then press this button for adjustment. To menu item selection for settings adjustment

SCALE  Scale on and settings

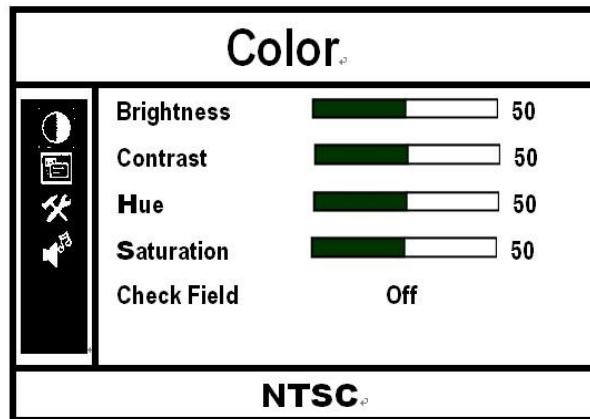
CAMERA  Camera mode on/off

FOCUS  Focus on/off

3.2 Menu instructions

Press "**MENU**" to enter the menu, use the " " or " " button to select "**Color/ MENU/ Function/ Volume**", select it and press "**MENU** " button to confirm, enter the submenu Operation, use the " " or " "button select the adjustment item. After selected adjustment item, press the "**MENU**" once again to confirm, press "**MENU**" key to exit the OSD menu.

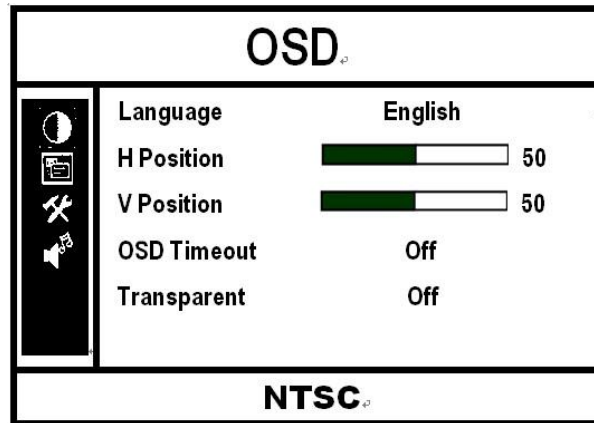
Color



- ※ **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
- ※ **Check Field:** Switch on/off Check Field (Red, Green, Blue, Monochromatic and Color)



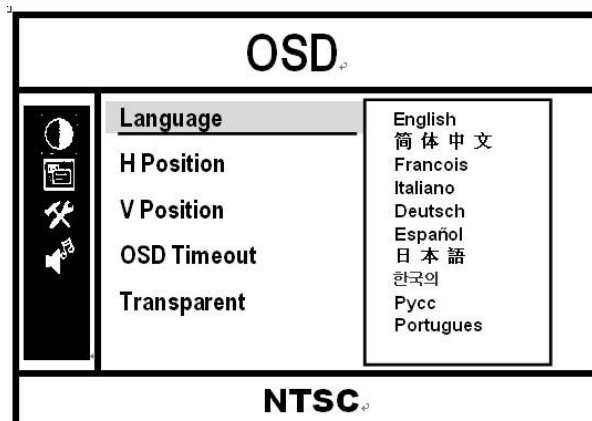
OSD



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

English, 简体中文, Français, Italiano, Deutsch

Español, 日本語, 한국의, Pycc, Portugues



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

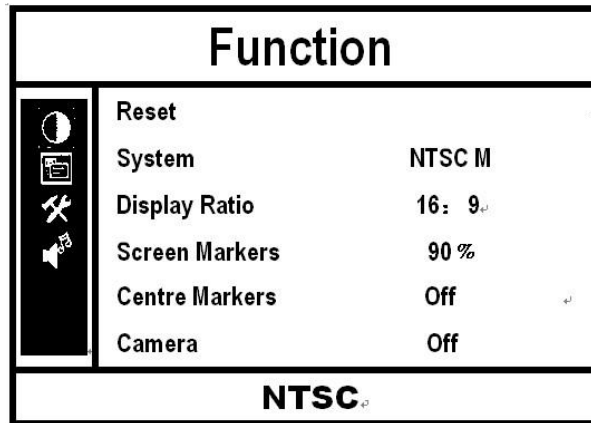
※ **V Position:** To adjust the OSD position in vertical

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

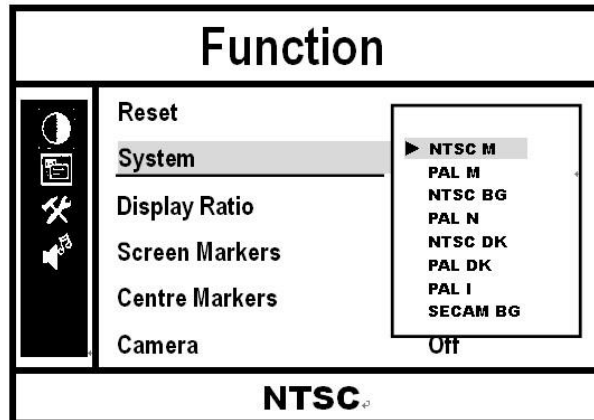
※ **Transparent:** To adjust the level of transparent



Function

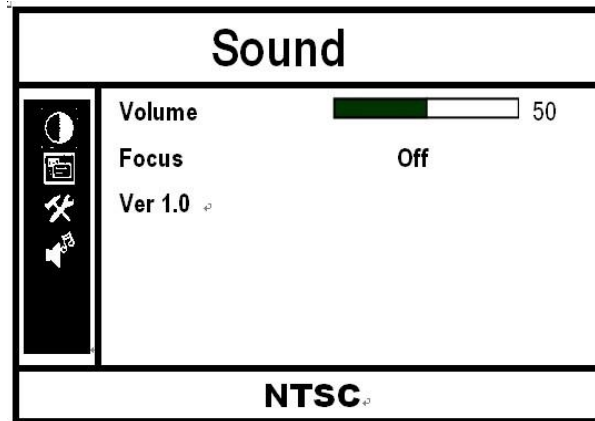


- ※ **Reset:** Back to original setting.
- ※ **System:** To adjust color video format.



- ※ **Display Ratio:** To change the display ratio 16:9/4:3
- ※ **Screen Markers:** To adjust screen marker (off, 96%, 93%, 90%, 85%, 80%)
- ※ **Centre Markers:** To set centre mark (cross mark) display
- ※ **Camera:** Use the Canon 5 d II or similar camera, the monitor video has real-time images. NO black screen, NO delay, perfect without distortion.

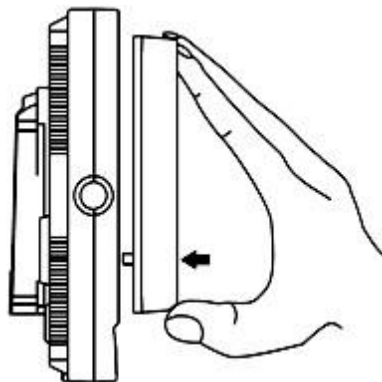
Sound



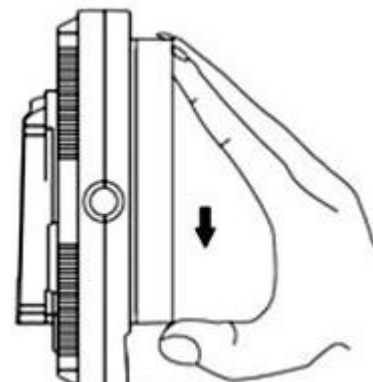
- ※ **Volume:** To adjust the volume.
- ※ **Focus:** As an auxiliary functions (in HDMI mode) when used as the camera viewfinder.
- ※ **Ver.1.0:** Software version number

4. Sun shade installation and remove

4.1 Installation: Positive parallel alignment of the sun shade and monitor, the projection of the sun shade hanging claw at the monitor sun shade slot (see the monitor front view marked 17), pay attention to the position should be aligned around inserted balanced slide down.



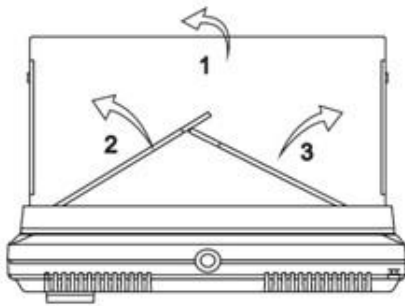
①



②

●Sun shade installation view

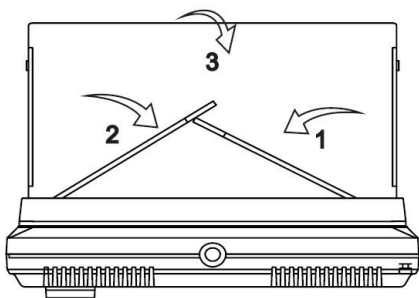
- ① the sun shade's hanging claw and the monitor's sun shade slot should be aligned around inserted balanced to slide down.
- ② By equilibrium of sliding down to match up the sun shade and monitor.
- ③ Please follow steps, otherwise will damage the cover, please do not press the L/R panel of the sun shade, if not, unable open the cover.



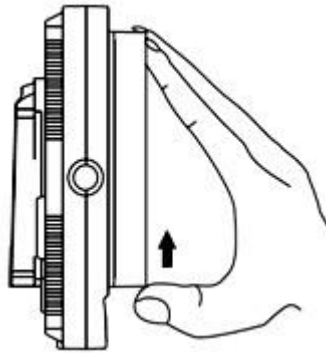
③

4.2 Remove: When you want to shade cover remove from the monitor, hands clench monitor and the sun shade, drag up shade cover from monitor, then separates the sun shade from the monitor.

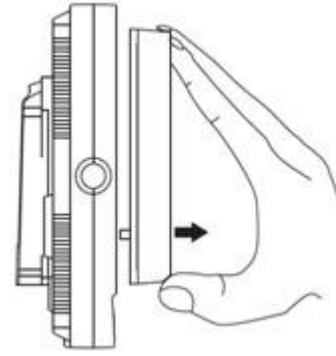
●Remove sun shade view:



①



②



③

- ① In accordance with the instructions below steps, close the sun shade in sequence
- ② Drag up sun shade balanced to separates the sun shade from the monitor.
- ③ Remove the sun shade

5. Power Supply

There are two versions for power supply:

5.1 Supply by city electricity with power adapter

When the monitor connect the electricity by DC power adapter, red light is illuminated, means is charging, after fully charged, then switch to green light.

When the power switch is on “—”, the monitor is in operation mode, green light is illuminated. If the built-in battery is not fully charged , it still continue 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 customer

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

5.3 Li-ion Battery

- The working temperature of Li-ion battery is $-20\sim 60^{\circ}C$, 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. Please don't use the battery in high temperature environment, may cause battery swell then fire. Please check the temperature of battery when it is working 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 be placed in a cool place to weaken the aevastation 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	7.0 inch
Panel type	IPS LCD
Resolution	1024×600×RGB= 1843200 Pixels
Backlight	LED
Dot pitch	0.05(H) x 0.15 (V) mm
Display ratio	16:9
Brightness	600cd/m ²
Contrast ratio	800:1
Viewing angle	85°/85°(L/R) 85°/85°(U/D)
Input signal	Video/Audio/RF/HDMI
Output signal	Video
Video color system	PAL-4.43 / NTSC-3.58
HDMI support format	480i /480p /576i /576p 720p /1080i /1080p (50/60Hz)
Headphone output	stereo 3.5mm
Input voltage	DC:9~18V
Power consumption	≅ 13W
RF receiving frequency	5.8 G broadband FM audio and video synchronization receiving (other frequencies optional) 40 channel (Auto Searching)
RF wireless receiving sensitivity	typical value -90dBm
Frequency stability	±100ppm
Unit size (mm)	188.4L×134H×29.2D (mm)
Unit weight	500g

Installation method	1/4-20 thread mounting holes in the monitor, easy to install on the tripod 75X75cm VESA
Build-in battery	Li-ion 7.4V/2200mA/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.
- ② Please check monitor's "color" from the menu "Check Field" is in black and white or monochrome image or other condition.

7.2 NO picture after put on the power

- ① Check signal cable contact are in good condition, a monitor is Synchronized with the input signal, and can press the "Mode" gives it a try. If in the RF channel, please Check to see if the transmitter has been work.
- ② Check signal cable connecting, and make sure use the standard adapter connect the monitor. If power supply by battery, please check the battery whether fully charged.

7.3 Images are not synchronized

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

7.4 Playback the video without sound

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

7.5 Open the RF, no signal detected

- ① Transmitter is working properly or not.
- ② If transmitter frequency matches with the receiver frequency band
- ③ If customer change the receiving antenna, please note that must be matched with the transmitter, otherwise may cause receiving sensitivity is low, even can't receive signals
- ④ Re-auto searching or selection channel by hand operation

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

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