



5.6" HD-SDI CCTV TEST MONITOR

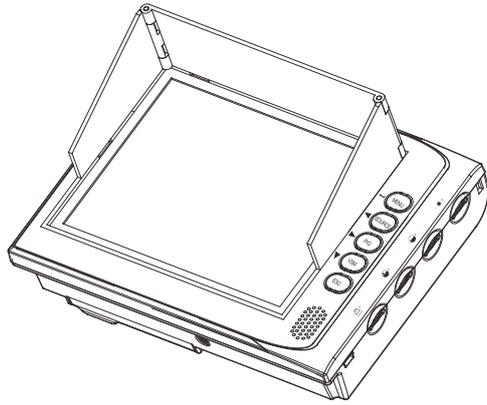


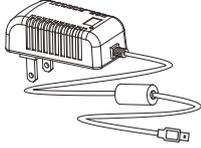
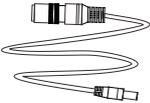
User's Manual

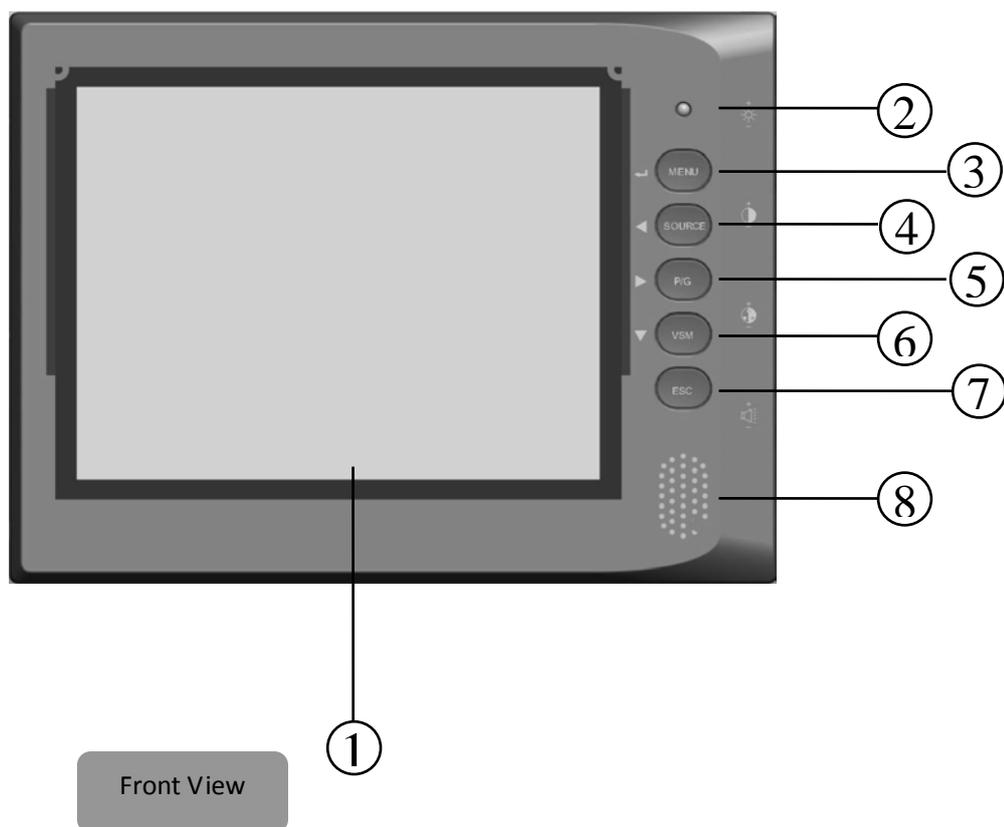
Please read this Manual carefully before use of this product, and keep it handy for future reference.

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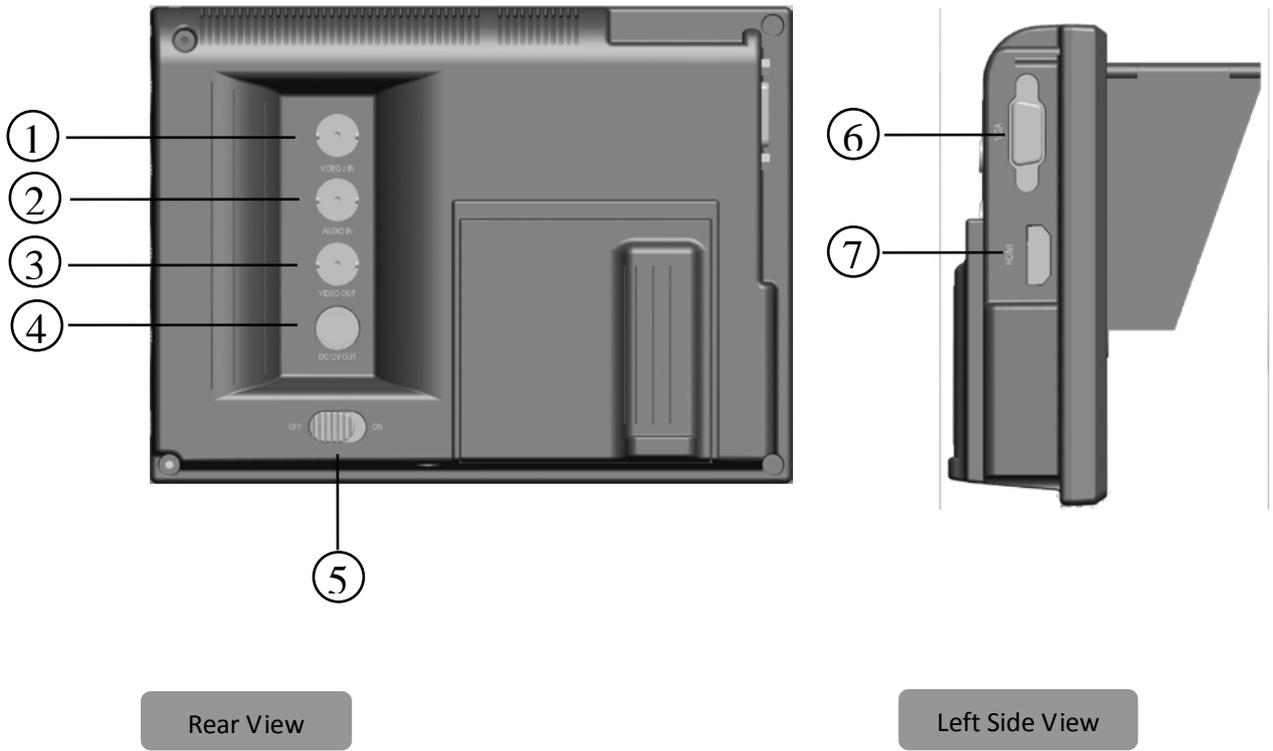




		
<p>5.6" multifunction monitor × 1 pc</p>	<p>Sun visor × 1 pc</p>	<p>Power adapter × 1pc</p>
		
<p>Ni-MH battery × 4 cells</p>	<p>12V power output cable ×1pc</p>	<p>User's Manual × 1 copy</p>



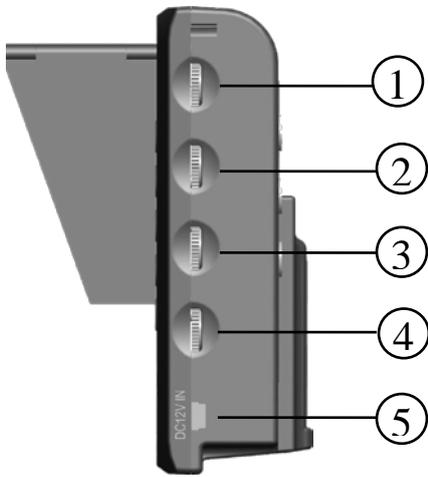
- | | |
|---|--|
| 1 | 5.6 " LCD panel (adopting tempered glass cover). |
| 2 | LED indicator. |
| 3 | MEMU Key: The main menu key, acting as the Enter Key during menu operation. |
| 4 | SOURCE Key: With the function of signal channel switching, acting as the Left Selection Key during menu operation. |
| 5 | P/G Key: With the function of color bar signal output built in this device, acting as the Right Selection Key during menu operation. |
| 6 | VSM Key: With the function of display of signal intensity and other information, acting as the Down Selection Key during menu operation. |
| 7 | ESC Key: exit and return to previous menu. |
| 8 | Speaker |



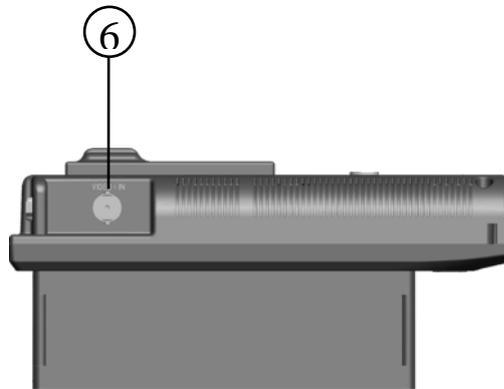
Rear View

Left Side View

- | | |
|---|--|
| 1 | Video 2 signal input interface or SDI signal input interface (depending on the product model). |
| 2 | Audio signal input interface. |
| 3 | Video signal output and color bar signal output interface |
| 4 | DC12V --350MA output interface. |
| 5 | Power switch. The product can work properly only when the switch is turned "ON". |
| 6 | VGA signal input interface. |
| 7 | HDMI signal input interface. |

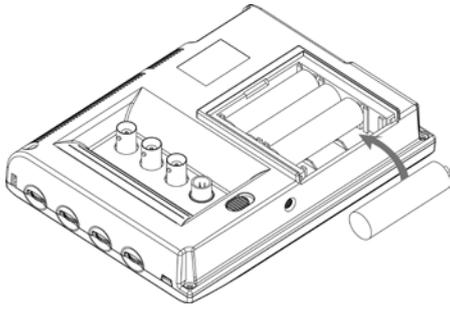


Right Side View

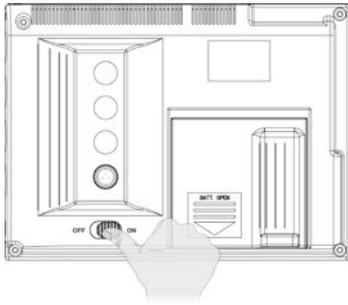


Top View

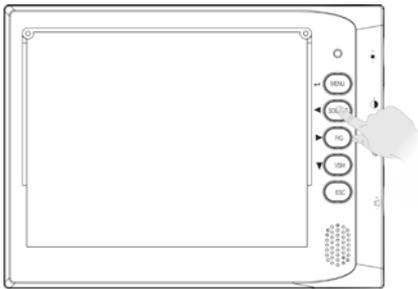
- 1 Picture brightness adjusting knob: turn it upwards to increase the brightness, and turn it downwards to decrease the brightness.
- 2 Picture contrast adjusting knob: turn it upwards to increase the contrast, and turn it downwards to decrease the contrast.
- 3 Picture saturation adjusting knob: turn it upwards to increase the saturation, and turn it downwards to decrease the saturation.
- 4 Volume adjusting knob: turn it upwards to increase the volume, and turn it downwards to decrease the volume.
- 5 DC12V-1500MA power input interface.
- 6 Video 1 signal input interface.



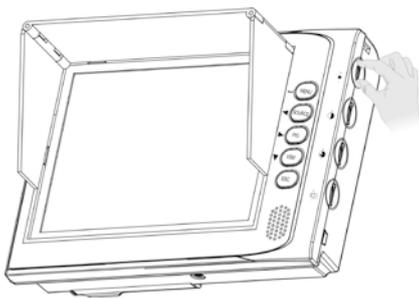
Step 1: As shown in Fig. 1, put four Ni-MH cells in the battery compartment of the product in sequence according to the anode and cathode marks. (Please pay attention to the anode and cathode of each battery; installation with reversed node and cathode may result in electrical failures and damage the



Step 2: Turn the power switch "ON", the LED indicator stays on in green and the device is working properly.

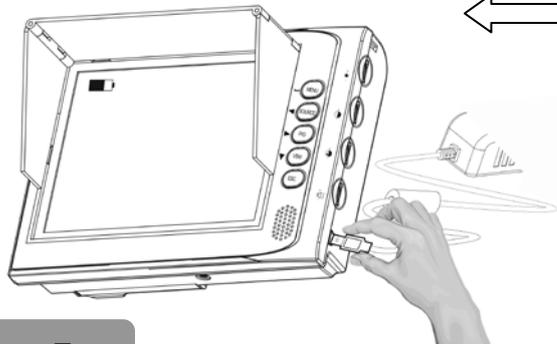


Step 3: According to the current signal access mode, press "SOURCE" on the right side of panel to select the corresponding signal channel.



Step 4: Use the keys on the front panel and the knobs on the right side to adjust the picture display effects to meet individual needs.

Charge and Discharge



Connect the DC12V-1500mA charger from the accessories according to the figure shown, and connect to the AC power.

Battery Test

After the charger is inserted, the LED indicator (green-green-off) acts once; then, it enters the test state, and the LED indicator flashes fast (red-green-red-green...) for about 13 times; if the battery has no defects, it will enter the normal charging state.

When the battery is charged normally

- ▶ State of the LED indicator when the battery level is lower than 50%: red-green-off- red-green-off...
- ▶ State of the LED indicator when the battery level is higher than 50%: red-green-red-green-red-green...
- ▶ State of the LED indicator when the battery level is 100% (fully charged): constantly green.
- ▶ If the charger is inserted again after the battery is fully charged, it will continue to charge for about 30min before stop.

★Note: When the battery is fully charged, please do not repeatedly charge it for several successive times if it is in use; or else, the battery may be damaged. Please charge the battery when its level is below 10% or when the device can not be turned on completely; due to the memorability of Ni-MH battery, repeated abnormal charging may shorten the service life of the battery.

DC12V output

▶ The product is designed with complete circuit protection; when the DC12V output interface has no load access, the DC12V output voltage is approximate to the current battery voltage and the output current is about 0.5mA. When normal load is accessed, the circuit will automatically open DC12V output; after load disconnection, DC12V output will not be closed; it is needed to restart the device to restore output protection.

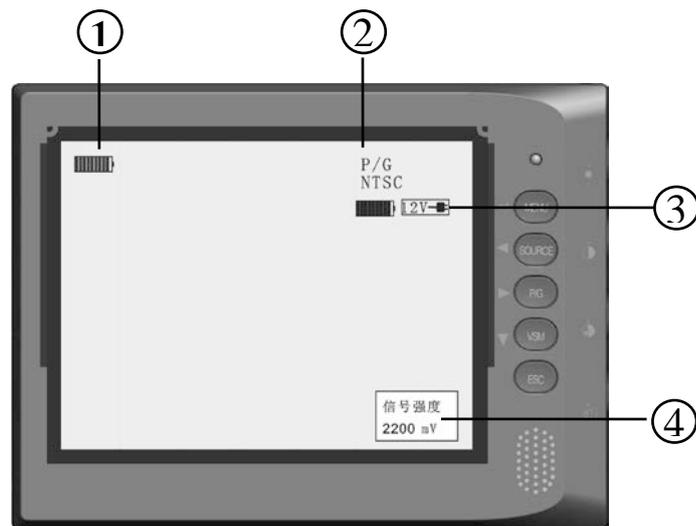
- ▶ When the battery voltage is $\geq 4.3V$, the maximum load of DC12V output is 350mA.
- ▶ Over-current and short circuit both can enable the circuit protection, thus to automatically cut off DC12V output. During protection, the circuit will automatically repeatedly test whether the load is normal at a time interval of 2-3s; when the load returns to normal, DC12V output will also automatically return to normal.

Other Precautions

▶ This product is designed with the overheating protection function during charging and discharging of the battery; it is set that the circuit protection will be enabled when the internal temperature of the product is over $62^{\circ}C$, at which moment it is not allowed to charge the battery or turn on/off the device. The protection cannot be removed by replacing the battery with a new one; it can be removed only when the temperature of the temperature sensing component on the circuit board returns to normal.

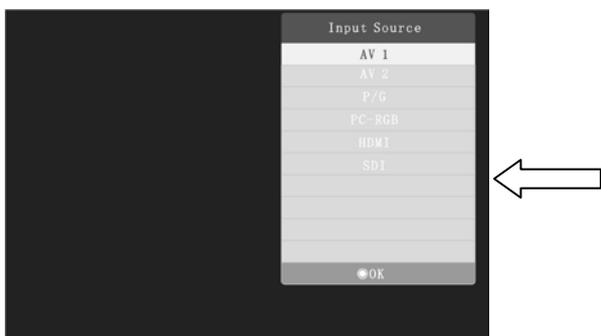
▶ This product is designed with the battery over-discharge protection function; it is set that the circuit protection will be enabled when the working current of the product exceeds 2600mA, at which moment the device cannot be turned on to work properly; the protection can be removed only by restarting the device.

▶ This product is designed with the battery over-voltage protection function; it is set that the circuit protection will be enabled when the battery voltage of the product exceeds DC6.5V, at which moment the device cannot be powered on automatically even when the battery voltage returns to 4.8V; the protection can be removed by turning it off again.



Information Display on the Screen

- 1 Battery charging icon.
- 2 Display of the signal channel information and resolution of the current screen.
- 3 Display of battery level and indication of DC12V output state.
- 4 Display of the intensity of the current video signal input.

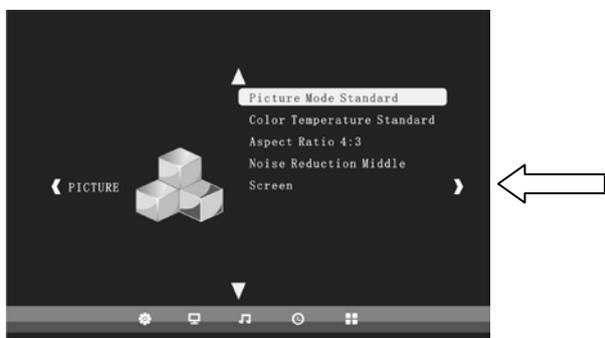


This interface may be slightly different from the real one, depending on the product

Signal Selection Menu

Operation method: Press the "SOURCE" key, and the signal channel selection interface will appear on the screen as shown in the figure on the left. Press the "SOURCE" key again, and the yellow cursor will move down to the next signal channel; stay on this channel for about 1 second, and the screen will display the signal channel where this cursor stays.

- AV1 indicates the input channel of video signals 1.
- AV2 indicates the input channel of video signals 2.
- P/G indicates the channel of color bar signals of the product itself.
- PC-RGB indicates the input channel of PC signals.
- HDMI indicates the input channel of high definition DVD signals.
- SDI indicates the input channel of high definition SDI camera signals.

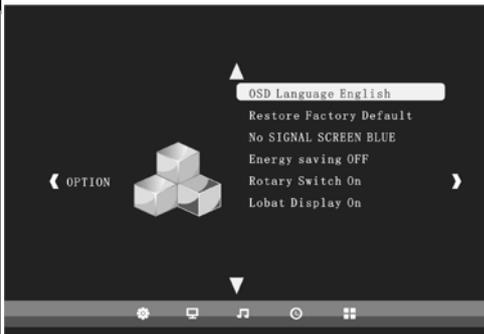


This interface may be slightly different from the real one due to product upgrading.

Main Menu (Picture)

Operation method: Press the "MENU" key, and the main menu interface will appear on the screen as shown in the figure on the left. Press the "SOURCE" key and "P/G" key to select submenus leftwards and rightwards; press the "VSM" key to select submenus downwards in a cyclic way; press the "MENU" key again to confirm the current selected submenu. Press the "ESC" key to go back level by level and exit the menu.

- Picture Mode: Four modes are optional, namely, "Standard", "Dynamic", "User", and "Soft".
- Color temperature: Four modes are optional, namely, "Standard", "Cold", "User", and "Warm".
- Aspect Ratio: Three modes are optional, namely, "Auto", "16:9", and "4:3".
- Noise Reduction: Four modes are optional, namely, "High", "Middle", "Low", and "Off".
- Screen: The option for adjustment of the position of display screen in the PC mode.



This interface may be slightly different from the real one due to product upgrading.

Main Menu (Settings)

Operation method: Press the "MENU" key, and the main menu interface will appear on the screen as shown in the figure on the left. Press the "SOURCE" key and "P/G" key to select submenus leftwards and rightwards; press the "VSM" key to select submenus downwards in a cyclic way; press the "MENU" key again to confirm the current selected submenu. Press the "ESC" key to go back level by level and exit the menu.

OSD Language: Multiple languages are optional such as "Chinese" and "English".

Restore Factory Default: Restore all adjusted parameters to factory default.

No Signal Screen: Color setting of screen display when the current channel has no signal input.

Two colors are optional, namely, "Blue" and "Black".

Energy Saving: The screen can enter sleep mode automatically when the current channel has no signal input; this function can be disabled or enabled here.

Rotary Switch: Select to turn on or off the brightness, contrast and saturation adjusting knobs.

Lobat Display: When the battery icon has only one bar left, the prompt of low battery will appear on the screen; this function can be disabled or enabled here.

Signal types	VGA	HDMI	SDI	AV
Supported formats	640*480	480P	720P 50 Hz	PAL
	800*600	576P	720P 60Hz	NTSC
	1024*768	720P 50Hz	1080P 24Hz	SECAM
	1280*1024	720P 60Hz	1080P 25Hz	
	1366*768	1080I 50Hz	1080P 30Hz	
	1440*900	1080I 60Hz	1080P 50Hz	
	1400*1050	1080P 50Hz	1080P 60Hz	
	1600*1200	1080P 60Hz		
	1680*1050			
	1920*1080			

Product name	Multifunction Monitor	
Product specification	5.6"	
LCD panel	Display area	112.896 (H) ×84.672 (V) mm
	Display scale	4:3
	Backlight	LED
	Resolution	640×480
	Brightness	200cd/m ²
	Contrast ratio	500:1
	Response time	10ms
	Dot matrix	0.0588 (H) ×0.1764 (V) mm
	Viewing angle	Top/bottom/left/right: 70°/50°/70°/70°
Signal interface	Composite video signals	2-way BNC input; 1-way BNC output
	VGA signals	1-way input
	HDMI signals	1-way input
	SDI signals	1-way input (depending on the model)
	Audio signals	1-way BNC input
Control mode	Knob control	Supported
	Touch key	Supported
Power supply	Charger input	100-240V~50/60Hz 0.5A max
	Charger output	DC12V--1500mA
	Working voltage of battery	DC3.9V--5.5V
	Maximum power	6W (SDI function enabled, no speaker output)
Operating environment	Temperature	0~60°C
	Humidity	5~95%RH
Other information	Product weight	1KG
	Product dimension	168mm×126mm×81.2mm (length × height × thickness) (including sun visor)

Before asking for maintenance, please check the information in this section to see if the problem can be solved by yourself; if necessary, please contact our After-sales Service Center or the distributor.

Problem	Possible cause	Solution
The device cannot be turned on	The battery is used up.	Recharge the battery or install a fully charged battery.
	The battery is installed with its anode and cathode reversed.	Reinstall the battery correctly.
	The AC charger is not properly connected with the DC power connector.	Make sure the AC charger is properly connected with the DC power connector.
	The contact between the battery and the battery contact plates is not good.	Clean the battery terminals and the battery contact plate with a piece of clean cloth.
	The cover of the battery holder is not well closed.	Close the cover of the battery holder.
	The power switch is not powered on.	Turn the power switch "ON"
	There is no video signal input.	Make sure video signal input is normal.
The device suddenly shuts down	The battery is used up.	Recharge the battery or install a fully charged battery.
	The AC power charger or the DC power connector is disconnected.	Make sure the AC charger is properly connected with the DC power connector.
The battery runs out quickly	The battery is too cold.	Warm the battery by putting it in the pocket or other warm places; then install the battery in the device before immediate use.
	There is dirt on battery terminals.	Clean the battery terminals with a piece of soft dry cloth.
	The battery has been charged for numerous times.	The service life of the battery is expired; please purchase a new battery.
Charging cannot be started	The battery is not properly installed.	Reinstall the battery correctly.
	The battery is installed with its anode and cathode reversed.	Reinstall the battery correctly.
The charging speed is low	The temperature is too low.	Charge the battery at room temperature.

Problem	Possible cause	Solution
The charging indicator indicates normal charging, but the battery is not being charged	There is dirt on battery terminals.	Clean the battery terminals with a piece of soft dry cloth.
	The battery has been charged for numerous times.	The service life of the battery is expired; please purchase a new battery.
There is no display signal	There is no video signal input.	Check if the front-end equipment generating video signals works normally.
	The input signal line is incorrectly connected.	Check if the interface at the signal input end and the SOURCE channel settings are correct; please refer to the operation section in the User's Manual for details.
	The AV input line 1 is in poor contact.	Check if the AV input line 1 interface is in poor contact and if there is looseness.
There is no DC12V output	The back-end load power is too high.	Replace the back-end load; make sure the maximum working current of the load accessed does not exceed 350mA.
	The battery level is low.	When the battery voltage is lower than 4.3V, there is no DC12V output; in such case, please recharge the battery.
There is interference against picture display	The video signal transmission line is severely interfered with.	Place an external signal amplifier at the video input end or appropriately shorten the video signal transmission line.