User Guide

Field Monitor

FPV Monitor

IMPORTANT SAFETY INSTRUCTIONS:

- Please read User Guide before using this product.
- Please keep User Guide for future reference.
- Please read the cautions to prevent possible danger and loss of property.

FEATURES:

➢ Shutter shortcut button;

➢ 178° Wide viewing angles;

➢ High resolution: 1280×800;

➢ High brightness: 400cd/㎡;

➢ Wide voltage: DC 7-24V;

➢ High contrast: 800:1;

➢ For aerial photography;

➢ Faster response time;

➢ Slim & portable design;
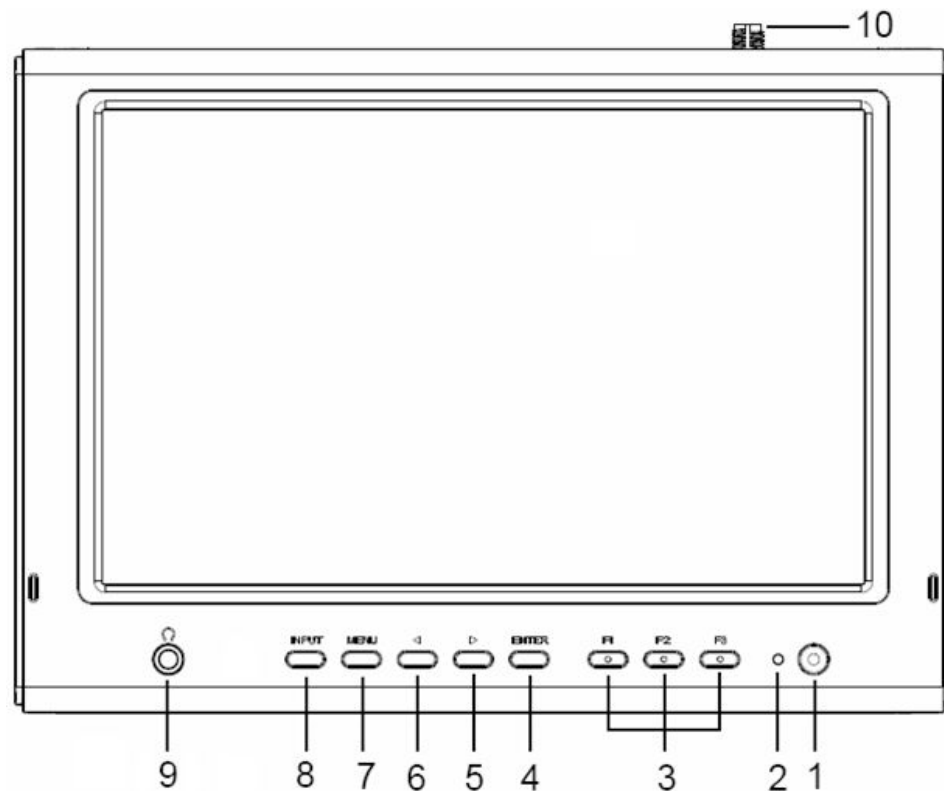
➢ POP-UP shortcut menu.

CAUTIONS:

1. Please do not place the display screen towards the ground.

2. Please avoid heavy impact or drop onto the ground.

3. Please do NOT use chemical solutions to clean this product. Please wipe with a clean soft cloth to maintain the brightness of the surface.

4. Please do not block any vent hole.

5. Please follow the instructions and trouble-shootings to adjust the product. Other improper adjustment may result in damage. Any further adjustment must be performed or conducted by a qualified technician.

6. Please unplug the power and remove the battery if long-term no-use, or thunder weather.

Contents

1. PRODUCT DESCRIPTION

1. Shutter shortcut button.
2. Power indicator light: ON/OFF (Light turns to red when power on).
3. F1、F2、F3 User-definable buttons.

   Default functions:

 | **F1 Safety Marker** | **F2 Check Field** | **F3 Freeze Input** |
   | *F1 Peaking* | *F2 Exposure* | *F3 Histogram* |

   （**function customized to meet your needs**）

4. ENTER.
5. ► Right selection key, to select items on OSD menu, value option adjustment and confirmation; Press to adjust the brightness, sharpness, contrast, saturation, volume and Tint value increase .
6. ◄ Left selection key, to select items on OSD menu and value option adjustment; Press to adjust the brightness, sharpness, contrast, saturation, volume and Tint value decrease.
7. MENU: To activate OSD (on-screen display) menu. Select switch the brightness, sharpness, contrast, saturation, volume, MENU and Exit.
8. INPUT: circularly switch among of AV2 (for aerial photography) AV1 and HDMI.
9. Earphone jack.
10. Wireless signal receiving antenna port (for aerial photography).
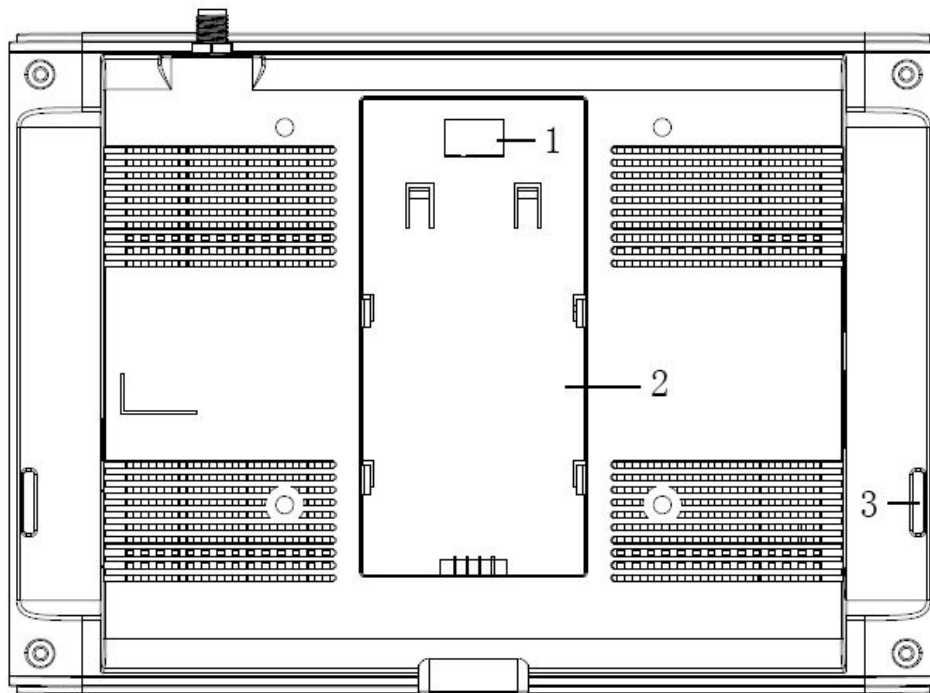
1. Frequency Control (for aerial photography).

2. Battery plate slot.

3. Sun shade fixing slots
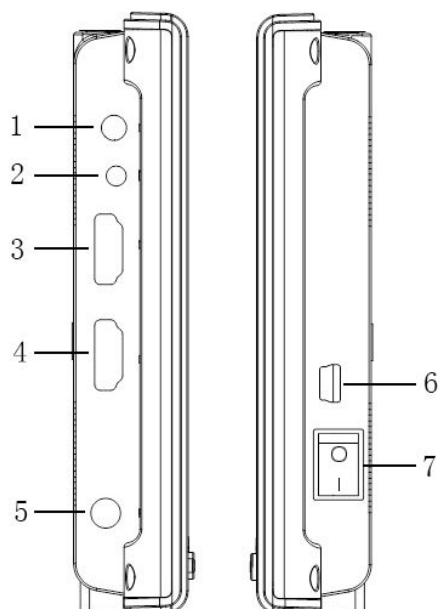
1. A / V input.

2. Shutter release cable interface.

3. HDMI signal loop output (Optional).

4. HDMI signal input.

5. DC 12V power input.

6. Mini USB input. (Only for program upgrades, do NOT use if non-professionals).

7. Power on/off: "O" is power off; "|" power on.

2. AERIAL PHOTOGRAPHY SIGNAL RECEIVER

2-1 Radio signal receiving antenna

1. Connected to the wireless receiving antenna port.
2. When a product with wireless module connected with antenna, and then connecting with flying camera system, you can receive the sound and image signals.

2-2 5.8GHz 8 Channel AV receiver

> Built-in AV receiver support PAL / NTSC switch automatically, anti-black, anti-blue, anti-flash.
> Simulation of composite video AV inputs, aerial camera connection.
> Not affect by 2.4GHz R/C Radios
> High capacity rechargeable Li-ion battery, make power cables free.
> Small, light weight, durable.

8 Channel (Default)

8 Channel

5.8GHz AV receiver

	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
Default	5705M	5685M	5665M	5645M	5885M	5905M	5925M	5945M
Optional	5865M	5845M	5825M	5805M	5785M	5765M	5745M	5725M
	5733M	5752M	5771M	5790M	5809M	5828M	5847M	5866M
	5740M	5760M	5780M	5800M	5820M	5840M	5860M	
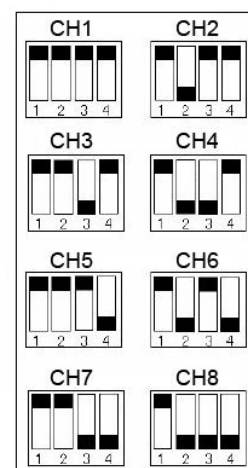
3. INSTALLATION OF SUNSHADE AND BATTERY PLATE

Installation of sunshade:

① As shown, buckle the sunshade on the device.

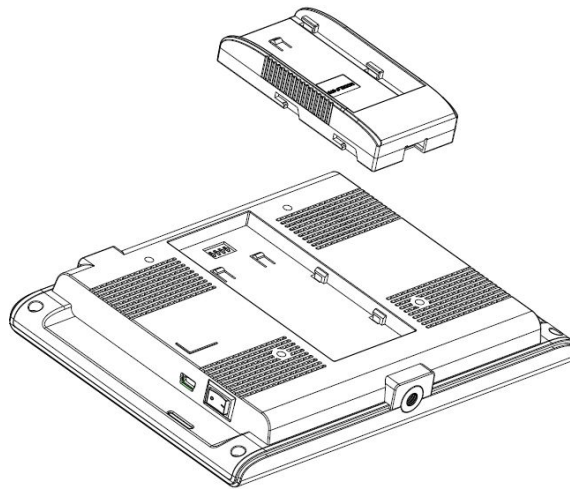② As shown, cover buttoned into the appropriate slot, and fastened in accordance with the order of the both sides.

①   ②

③ As shown, bend sunshade panel to meet and paste with sunshade interlocking.

④ Installation completed.

③   ④

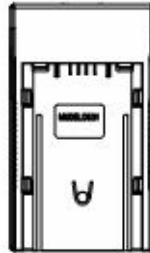# 4. DV BATTERY MOUNT PLATE

Standard mounts process

Following three types of battery plates are suitable for this device, model F970, QM91D, DU21 & LP-E6 (choose 2 out of 4).

MODEL: F-970   MODEL: QM91D   MODEL: DU21   MODEL: LP-E6

DV Battery Mount Plate:

DV Battery Mount Plate Specification:

Model DU21 for battery of Panasonic DV:
NV-GS/PV-GS/DZ-MV/GS/H28/H258/H288GK series, comply with Panasonic battery DU06/VBD140/SANYO DZhs301sw/Hitachi DZ-HS303SW/BZ-BP14S/DZ3200/BP07W.

Model QM91D for battery of SONY DV:
DSCR1/F/S/MVCCD/E/HC15E/HC1E/AE1u/DCRTRV828/E/CCD-TRV 116/DCR-DVD/PS105K/300K/10P/1E series.

Model F970 for battery of SONY DV:
DCR-TRV series, DCR-TRV E series, VX2100E PD P series, GV-A700, GV-D800 FD/CCD-SC/TR3/FX1E/HVR-AIC, HDR-FX1000E, HVR-Z1C, HVR-V1C, FX7E F330.
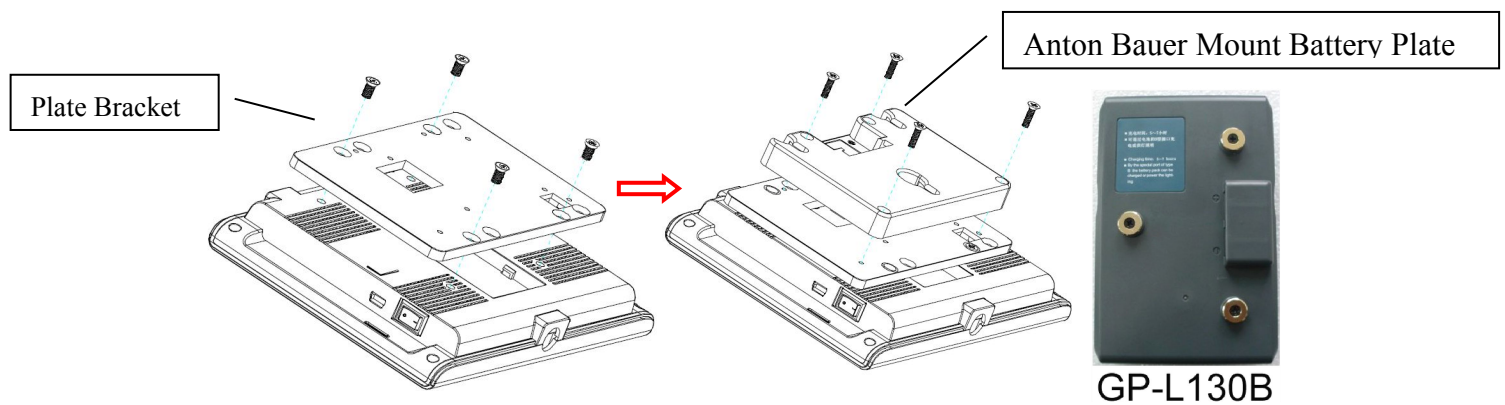
Model LP-E6 for battery of Canon DSLR:
5D Mark II/5D Mark III/EOS7D/EOS60D;

V-mount battery plate (optional): Please refer to GP-L130AB type battery specifications.
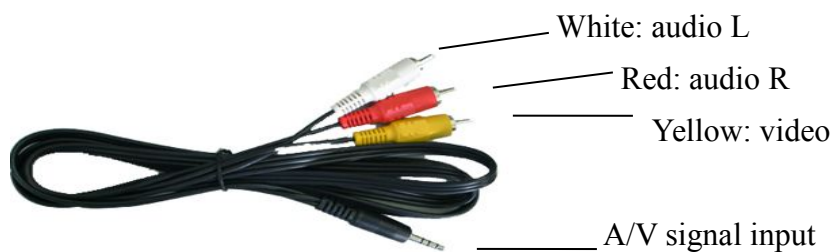
Plate Bracket

V-mount Battery Plate
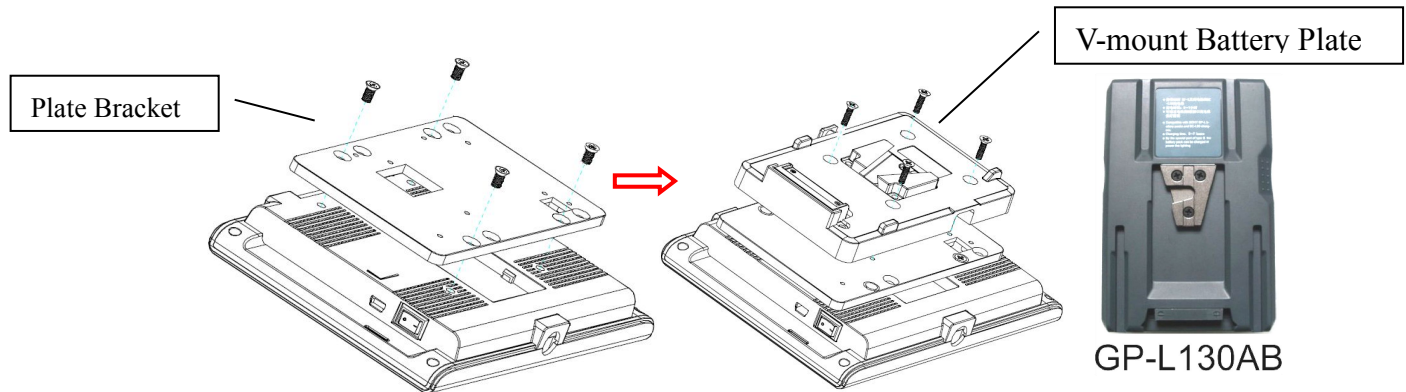
GP-L130AB

Anton Bauer mount battery plate (optional): Please refer to GP-L130B type battery specifications.

Plate Bracket

Anton Bauer Mount Battery Plate

GP-L130B

5. WIRING INSTRUCTIONS

Composite cable

White: audio L

Red: audio R

Yellow: video

A/V signal input

6. MENU SETTING

Before setting the functions, please make sure the device is connected correctly.

6-1. Shortcut keys:

6-1-1. the image menu

When power on, press "◄ / ►" key on the device, brightness will appear at the bottom of the screen, then press the MENU button to select brightness, sharpness, contrast, saturation, volume, tint, MENU and Exit. User can adjust the parameters of the selected item with "◄ / ►"button to meet their needs.

6-1-2. F1-F3 3 user-definable function buttons:

Long press any F1-F3 key for 3-5 seconds to pop-up shortcut menu directly. As shown in Figure (default menu button in white font).

Use "◄ / ►" buttons to select the desired option.

Finally, use the "ENTER" key to confirm the selected item as default.

Functions of F1-F3 buttons can also be customized: Center Marker, Safety Marker, Check Field, Color Bar, Aspect Ratio, Camera, PIP, Image Flip, Zoom, Pixel-to-Pixel, Freeze Input, Underscan, H/V delay.

* Aspect Marker, Level Meter, Peaking, False Color, Exposure, Histogram.

| Center Marker |
| Safety Marker |
| Aspect Marker |
| Check Field |
| Color Bar |
| Aspect Ratio |
| Camera |
| PIP |
| Image Flip |
| Zoom |
| Pixel-to-Pixel |
| Freeze Input |
| Underscan |
| H/V delay |
| Level Meter |
| Peaking |
| False Color |
| Exposure |
| Histogram |
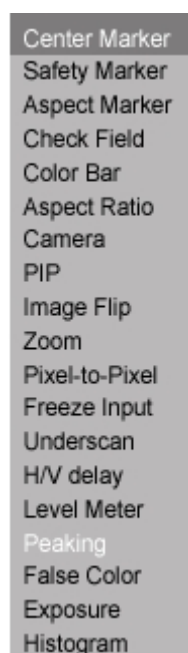
F1-F3：3 user-definable function buttons

Default function:

F1 Safety Marker	**F2 Check Field**	**F3 Freeze Input**
* F1: Peaking	**F2: Exposure**	**F3: Histogram**

6-1-3. Camera shutter shortcut button.

Connect camera and field monitor with shutter release cable, then press"▢"shortcut button on monitor to shoot instead of shutter on camera.

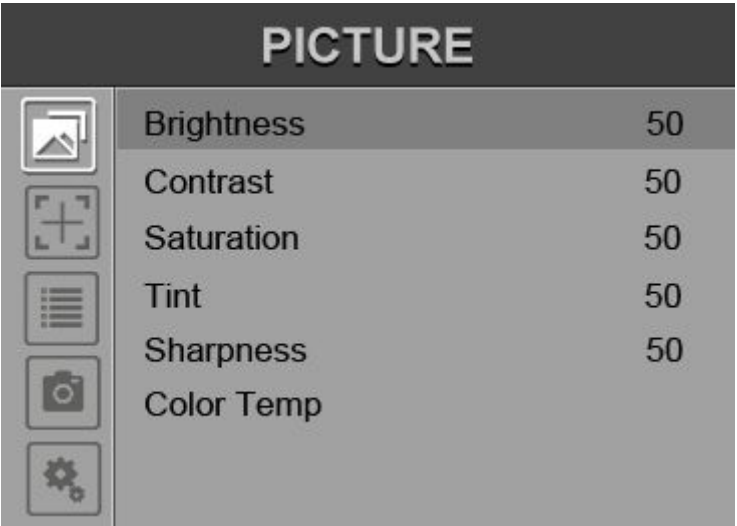6-1-3-1. Shoot function: halfway pressing to lock the focus, full pressing to shoot.

6-1-3-2. B photography: long press for 2-3 seconds (button light turns blue) to lock the metering, and then press again to shoot.

6-2. MENU Operation

When power on, press "**MENU"** on the device. The menu of function setting will display on the screen.

Press ◄/► buttons to choose menu; then press ENTER to confirm; after that, press MENU to return.

6-2-1. Picture

ITEMS	OPTIONS	
Brightness	0 - 100	
Contrast	0 - 100	
Saturation	0 – 100	
Tint	0 – 100	
Sharpness	0 – 100	
Color Temp	6500ºK/7500 ºK/9300 ºK/User	
	Red	Note: Available only under "User" mode to choose the color value you need.
	Green	
	Blue	

6-2-2. Marker

ITEMS	OPTIONS
*Marker Enable	ON, OFF
Center Marker	ON, OFF
*Aspect Marker	OFF, 16:9, 4:3, 14:9, 13:9, 15:9, 1.85:1, 2.35:1,
Safety Marker	OFF, 95%, 93%, 90%, 88%, 85%, 80%
*Marker Color	Red, Green, Blue, White, Black
*Marker Mat	OFF 0 – 6
*Thickness	1 – 7

6-2-3. Display

ITEMS	OPTIONS
Aspect Ratio	Full Screen, 16:9, 4:3, 1.85:1, 2.35:1
H / V delay	OFF, H&V Delay, V Delay, H Delay
Check Field	OFF, Mono, Red, Green, Blue
Pixel-to-Pixel	OFF, ON
Underscan	OFF, ON
Color Bar	OFF, ON
Zoom	OFF, ×2, ×4, ×6, ×8
Image Flip	OFF, ON
Freeze Input	OFF, Freeze
PIP	Small, Medium, Large, PBP, POP

6-2-4. DSLR Aux& Audio

ITEMS	OPTIONS
Camera	480P (5D-II Mode) / 1080I (5D-III Mode)
*Peaking	OFF, MONO, Color
*Peaking Color	Red, Green, Blue, White, Black
*Peaking Level	0 – 100
*False Color	OFF, ON
*Exposure	OFF, ON
*Exposure Level	0 – 100
*Histogram	OFF, ON
*Level Meter	OFF, Vertical, Horizontal
*Reference	-18dB, -20dB
*Level Meter Size	Small, Large
*Peak Decay Time	1 – 11
Volume	0 – 100

6-2-5. System

ITEMS	OPTIONS
LOGO	OFF, ON
Language	English, Chinese
Manufacturer Default	OFF, ON
Back Light	0 – 100
ISP	For program upgrades

Option for product model with"/P" only.   15

7. ACCESSORIES

No.	Name	Quantity	No.	Name	Quantity
\<h2\>Field Monitor\</h2\>					
1	Sun Shade	1 Piece	2	HDMI A/C cable	1 Piece
3	Composite cable	1 Piece	4	Shutter release cable **(Choose 2 out of 7)**	2 Pieces
5	12V DC adapter	1 Piece	6	Shoe Mount (for camera only)	1 Piece
7	Battery Plate **(Choose 2 out of 4)** F-970 QM91D DU-21 LP-E6	2 Pieces	8	Battery plate bracket	1 Piece
9	Manual	1 copy	10	Suitcase **(Optional)**	1 Piece
11	Anton Bauer Mount **(Optional)**	1 Piece	12	V- mount **(Optional)**	1 Piece

FPV Monitor

No.	Name	Quantity	No.	Name	Quantity
1	Sun Shade	1 Piece	2	5.8GHz wireless AV receiver	1 Piece
3	12V DC adapter	1 Piece	4	Shoe Mount (for camera only)	1 Piece
5	Battery Plate **(Choose 2 out of 4)** F-970 QM91D DU-21 LP-E6	2 Pieces	6	Battery plate bracket	1 Piece
7	Composite cable	1 Piece	8	Manual	1copy
9	Suitcase **(Optional)**	1 Piece	10	Anton Bauer Mount **(Optional)**	1 Piece
11	V- mount **(Optional)**	1 Piece			

8. PARAMETERS

Panel	7 inch LED Backlit (IPS)	
Aspect Ratio	16:10	
Physical Resolution	1280×800	
Brightness	400 cd/㎡	
Contrast	800: 1	
Viewing Angle	178°/ 178°(H/V)	
Input Voltage	DC 7-24V	
Input Signal	AV1、AV2 (for aerial photography)、HDMI	
Current	960mA	
Power Consumption	≤12W	
Operating Temperature	-20℃~60℃	
Storage Temperature	-30℃~70℃	
Dimension (LWD)	184.5×131×23mm	
Weight	365g	375g（with wireless AV receiver）

9. TROUBLE SHOOTING

1. Only black-and-white display:

Check whether the color saturation is properly setup or not.

2. Power on but no pictures:

Check whether the cables of AV and HDMI are correctly connected or not. Please use the standard power adapter coming with the product package. Improper power input may cause damage.

3. Wrong or abnormal colors:

Check whether the cables are correctly and properly connected or not. Broken or loose pins of the cables may cause a bad connection.

4. When on the picture shows size error:

Press "MENU → DISPLAY → Underscan" to zoom in/out pictures automatically when receiving HDMI signals

5. Other problems:

Please press "BRI/MENU" button and choose "MENU→SYSTEM→ Manufacturer Default →ON"

6. According to the ISP, the machine can not function properly:

ISP for program upgrades, non-professionals do not use. Please reboot your device if press accidentally!

• It is normal to see some bright lines appear on the screen when turn off the device.

Note: due to constant effort to improve products and product features, specifications may change without notice.