

# User Guide

## RM12G-1



**Osprey<sup>®</sup>**  
**Video**

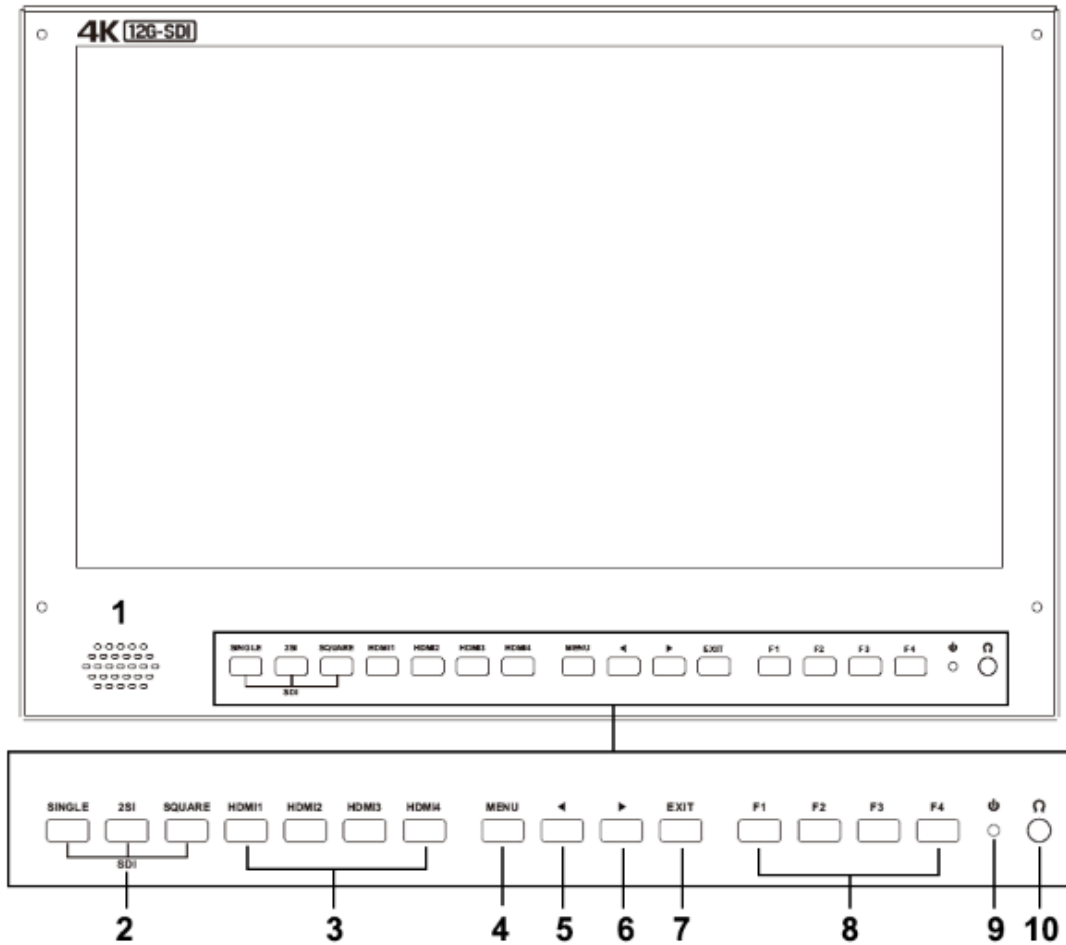
# FEATURES

- 15.6" Display 4K 3840x2160 Resolution
- 2x 12G-SDI inputs plus 2x 3G/HD-SDI inputs (Level A/B)
- Quad Link 12G Square Division.
- Quad Link 12G Two-Sample Interleave (2SI)
- 1x HDMI2.0 up to 4K60
- Quad View and PIP
- 3x HDMI1.4 up to 4K30
- Tally

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# 1. PRODUCT DESCRIPTION



## 1. Speaker

## 2. SDI

Press to monitor the signal input to each connector.

[SINGLE] Button

- Press the button to select SDI input for one channel.
- Mode changes in the order of [12G SDI 1] , [12G SDI 2] , [3G SDI 3] , [3G SDI 4].

[2SI] Button

- Press the button to select 2-SAMPLE Interleave SDI input signal through two or four SDI input connectors.

- Mode changes in the order of [Dual-Link 2SI], [Quad-Link 2SI].

[SQUARE] Button

- Press the button to select Quad-Link Square Division mode.

### 3. **HDMI 1 ~ 4**

Press the button to select HDMI input.

### 4. **MENU/ENTER**

Press to enter menu.

Press to enter option in the menu.

### 5. ◀

Select option in the menu.

Decrease the option value.

Before enter the menu, single press to activate volume, press again to switch between volume, brightness, contrast, color, hue, sharpness and backlight.

### 6. ▶

Select option in the menu.

Increase the option value.

### 7. **EXIT**

Back or exit.

### 8. **F1~F4 User defined buttons**

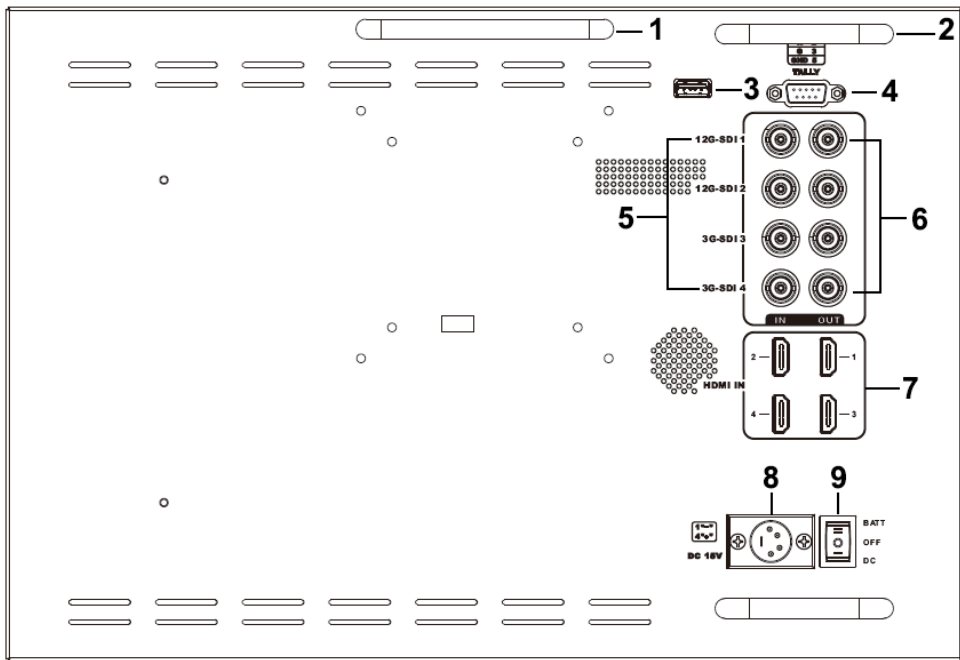
Default function options:

F1: Display Mode    F2: Display Rotate    F3: Safety Marker    F4: Aspect

**(functions can be customized by long pressing any one of the 4 buttons)**

### 9. **Power Switch**

### 10. **Earphone jack**



1. Handle

2. Connector protector

Preventing connectors from damage.

3. USB port (Only for firmware upgrades).

4. TALLY port

5. SDI (BNC)

Input connectors for SDI

6. SDI (BNC)

Loopout connectors for SDI.

Note – Loopouts are only active when the power is on.

## 7. HDMI input connectors


Input connectors for HDMI signals.

**HDMI 1:** HDMI2.0, supports 4K 60Hz

**HDMI 2, HDMI 3&HDMI 4:** HDMI1.4, supports 4K 30Hz

## 8. DC IN (XLR) terminal

Connects the DC power supply to the monitor.

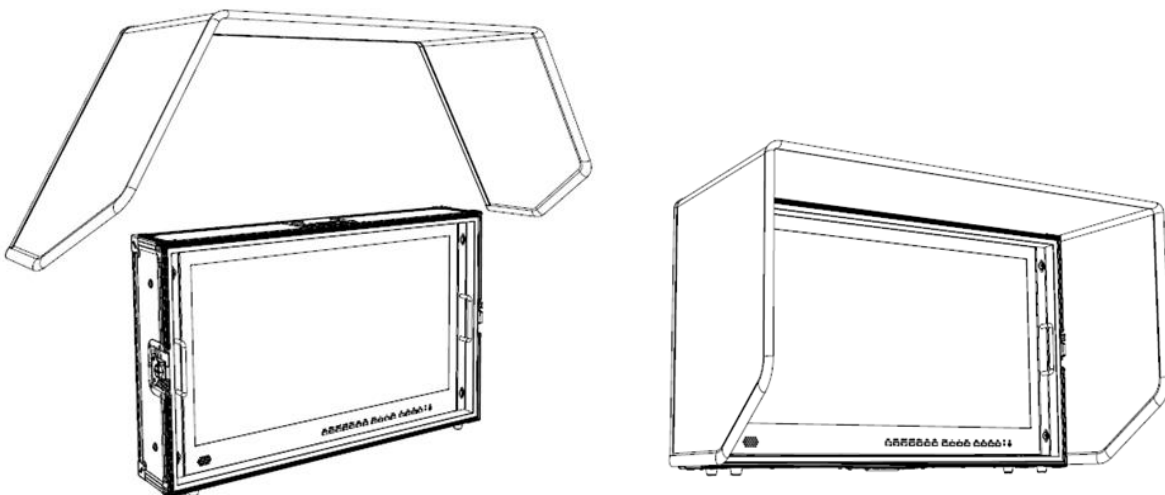
	Pin number	Signal
	①	GND
	②③	.....
	④	+15V

## 9. Power switch

|| battery power; ○ power off; | DC power

# 2. SUN SHADE INSTALLATION

Put the sun shade on the suitcase, and match the magnets on both sides.



# 3. MENU SETTINGS

## 3-1. F1~F4 user definable shortcut buttons

Long press any one of the 4 buttons for 3-5 seconds to activate shortcut menu setting. Selected Setting will be highlighted in white, options will be highlighted in yellow, unavailable options will be highlighted in gray.

Select option via “◀/▶” buttons.

Then press “MENU” button to confirm to set as default option.

Functions can be customized to meet user’ s needs: center marker, safety marker, aspect marker, aspect, underscan, check field, freeze, pixel to pixel, peaking, false color, display mode, disp rotate, disp mirror.

### Default options:

F1: Display Mode      F2: Display Rotate

F3: Safety Marker      F4: Aspect

## 3-2. ◀ / ▶ Buttons Operation

Press ◀/▶ buttons to activate volume bar,

Within Menu use ◀ / ▶ buttons to select and change the desired options.

## 3-3. MENU Operation

When power on, press “MENU” on the device – Menu will display

Press ◀ / ▶ button to choose the menu item;

Then press “MENU” button to confirm; Press “EXIT” button to return / exit

menu.

<b>Picture</b>	Brightness	0~100	
	Contrast	0~100	
	Saturation	0~100	
	Hue	0~100	
	Sharpness	0~4	
	Temperature	9300, 7500, 6500, 5800, User	
	Backlight	0~100	
<b>Function</b>	Center Marker	ON, OFF	
	Safety Marker	OFF, 95%, 93%, 90%, 88%, 85%, 80%	
	Aspect Marker	Full, 17:9, 16:9, 4:3, 1.85:1, 2.35:1	
	Aspect	Full, 17:9, 16:9, 4:3, 1.85:1, 2.35:1	
	Underscan	ON, OFF	
	Pixel To Pixel	ON, OFF	
	Check Field	OFF, Red, Green, Blue	
	Freeze Input	ON, OFF	
	Peaking	ON, OFF	
	False Color	ON, OFF	
<b>Display Mode</b>	1P, 2P LR, 2P TB, 2P PIP, 4P		
<b>Display Setting</b>	Display Rotate	0°, 90°, 180°, 270°	Available only in single display mode.
	Display Mirror	OFF, L/R, U/D	Available only in dual display mode



<b>Select Region</b>	Menu setting to region selected according to users' needs.	
<b>Input</b>	SDI 1, SDI 2 , SDI 3 , SDI 4, 2SI, SQUARE, HDMI 1, HDMI 2, HDMI 3, HDMI 4	
<b>Audio</b>	Volume	0~100
	Audio CH	CH0&CH1, CH2&CH3, CH4&CH5, CH6&CH7, CH8&CH9, CH10&CH11, CH12&CH13, CH14&CH15  (HDMI mode unavailable)
<b>System</b>	Reset	Press to confirm after selected.
	Menu Time	5~60s
	OSD H Position	0~100 (To set menu display area)
	OSD V Position	0~100 (To set menu display area)
	Language	English, Chinese
	Transparency	0~255 (To set menu transparency)
	OSD Rotate	0°, 90°, 270°
	Border Width	0~10
	Border Color	R, G, B, W
<b>Info</b>	To display current information.	

# 4. Connecting the SDI signals

The monitor accepts Single Link 12G/6G/3G/HD/SD-SDI, Dual-Link 3G-SDI, and Quad-Link 3G/HD-SDI. Use the appropriate input connectors depending on the input signal, referring to the tables on the next page.

## 12G –SDI Single-Link Signal

Connector	Input signal
SDI 1	12G SDI
SDI 2	12G SDI

## 3G-SDI Dual-Link signal

\* 2-sample interleave signals

Connector	Input signal
SDI 1	3G SDI Link 1
SDI 2	3G SDI Link 2

\*Square division signals

Connector	Input signal
SDI 1	Sub-image 1(upper left screen) Sub-image 2( lower left screen)
SDI 2	Sub-image 3( upper right screen) Sub-image 4(lower right screen)

## Quad-Link 3G/HD –SDI Signal

\* 2-sample interleave signals

Connector	Input signal
SDI 1	3G SDI Link1
SDI 2	3G SDI Link2
SDI 3	3G SDI Link3
SDI 4	3G SDI Link4

\*Square division signals

Connector	Input signal
SDI 1	Sub-image 1(upper left screen)
SDI 2	Sub-image 2(lower left screen)
SDI 3	Sub-image 3(upper right screen)
SDI 4	Sub-image 4(lower right screen)

## Image of square division signals

Sub-image1 (upper left screen)	Sub-image 3 (upper right screen)
Sub-image 2 (lower left screen)	Sub-image 4 (lower right screen)

# 5. Available Signal Formats

## SD-SDI

Signal system	Signal format
525i	4:2:2 YCbCr 10bits
625i	4:2:2 YCbCr 10bits

## HD-SDI

Signal system	Signal format
1280×720 (23.98/24/25/29.97/30/50/59.94/60p)	4:2:2 YCbCr 10bits
1920×1080 / 2048×1080 (50/59.94/60i) (23.98/29.97/24/25/30p) (23.98/29.97/24/25/30Psf)	4:2:2 YCbCr 10bits

## 3G-SDI

Signal system	Signal format	
1920×1080/2048×1080 (47.95/48/50/59.94/60p)	4:2:2 YCbCr 10bits	3G-LevelA / DL 3G-Level B
1920×1080/2048×1080 (50/59.94/60i) (23.98/24/25/29.97/30p) (23.98/24/25/29.97/30Psf)	4:4:4 GBR 10bits 4:4:4 GBR+A 10bits 4:4:4 YCbCr 10bits 4:4:4 YCbCr+A 10bits 4:4:4 GBR 12bits 4:4:4 YCbCr 12bits	3G-LevelA / DL 3G-Level B
1280×720 (23.98/24/25/29.97/30/50/59.94/60p)	4:4:4 GBR 10bits 4:4:4 GBR+A 10bits 4:4:4 YCbCr 10bits 4:4:4 YCbCr+A 10bits	3G-LevelA / DL 3G-Level B
1920×1080/2048×1080 (50/59.94/60i) (23.98/24/25/29.97/30p) (23.98/24/25/29.97/30Psf)	4:2:2 YCbCr 10bits	DS 3G-Level B
1280×720 (23.98/24/25/29.97/30P)	4:2:2 YCbCr 10bits	DS 3G-Level B

## 6G-SDI Single Link

Signal system	Signal format
3840×2160/4096×2160 (23.98/24/25/29.97/30p)	4:2:2 YCbCr 10bits
1920×1080/2048×1080	4:4:4 GBR 10bits

(47.95/48/50/59.94/60p)	4:4:4 GBR+A 10bits 4:4:4 YCbCr 10bits 4:4:4 YCbCr+A 10bits 4:4:4 GBR 12bits 4:4:4 YCbCr 12bits 4:2:2 YCbCr 12bits
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### 6G-SDI Dual Link

Signal system	Signal format
3840×2160/4096×2160 (47.95/48/50/59.94/60p)	4:2:2 YCbCr 10bits
3840×2160/4096×2160 (23.98/24/25/29.97/30p)	4:4:4 GBR 10bits 4:4:4 GBR+A 10bits 4:4:4 YCbCr 10bits 4:4:4 YCbCr+A 10bits 4:4:4 GBR 12bits 4:4:4 YCbCr 12bits 4:2:2 YCbCr 12bits

### 12G-SDI Single Link

Signal system	Signal format
3840×2160/4096×2160 (47.95/48/50/59.94/60p)	4:2:2 YCbCr 10bits
3840×2160/4096×2160 (23.98/24/25/29.97/30p)	4:4:4 GBR 10bits 4:4:4 GBR+A 10bits 4:4:4 YCbCr 10bits 4:4:4 YCbCr+A 10bits 4:4:4 GBR 12bits 4:4:4 YCbCr 12bits 4:2:2 YCbCr 12bits

### HD-SDI Quad Link

Signal system	Signal format
3840×2160/4096×2160 (23.98/24/25/29.97/30p)	4:2:2 YCbCr 10bits

### 3G-SDI Dual Link (2SI)

Signal system	Signal format
3840×2160/4096×2160 (23.98/24/25/29.97/30p)	4:2:2 YCbCr 10bits

### 3G-SDI Dual Link (Square Division)

Signal system	Signal format
3840×2160/4096×2160 (23.98/24/25/29.97/30p)	4:2:2 YCbCr 10bits

### 3G-SDI Quad Link (Square Division)

Signal system	Signal format
3840×2160/4096×2160 (47.95/48/50/59.94/60p)	4:2:2 YCbCr 10bits
3840×2160/4096×2160 (23.98/24/25/29.97/30p)	4:4:4 GBR 10bits 4:4:4 GBR+A 10bits 4:4:4 YCbCr 10bits 4:4:4 YCbCr+A 10bits 4:4:4 GBR 12bits 4:4:4 YCbCr 12bits 4:2:2 YCbCr 12bits

### 3G-SDI Quad Link (2SI)

Signal system	Signal format
3840×2160/4096×2160 (47.95/48/50/59.94/60p)	4:2:2 YCbCr 10bits
3840×2160/4096×2160 (23.98/24/25/29.97/30p)	4:4:4 GBR 10bits 4:4:4 GBR+A 10bits 4:4:4 YCbCr 10bits 4:4:4 YCbCr+A 10bits 4:4:4 GBR 12bits 4:4:4 YCbCr 12bits 4:2:2 YCbCr 12bits

## 6. Included ACCESSORIES

1. Folding sun shade cover 1 piece
2. Rugged Carry-on suitcase 1 piece
3. 15V DC adapter 1 piece
4. Battery plate bracket 1 piece
5. V-mount 1 piece
6. Base bracket 1 pair
7. TALLY connector (in bulk) 1 piece

## 7. Specifications

Display Screen	15.6" 8bit IPS
Physical Resolution	3840×2160
Aspect Ratio	16: 9
Brightness	330cd/m <sup>2</sup>
Contrast	1000: 1
Viewing Angle	176°/ 176°(H/V)
Input Voltage	DC 12~24V (XLR)
Input Signal	3G-SDI, 12G-SDI, HDMI and TALLY
Output Signal	3G-SDI loop, 12G-SDI
Power Consumption	≤34W
Operating Temperature	0°C~60°C
Storage Temperature	-20°C~60°C
Dimension (LWD)	389×267×38mm
Weight	3.2kg/ 12 kg (with case)

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