



# DELV-12GSDI-15

## User Guide



***15.6" 4K 12G-SDI Multiformat Monitor  
with Road Ready Case Supports 4K Quad Link***

## IMPORTANT SAFETY INSTRUCTIONS

- Read manual before using this product.
- Keep manual for future reference.
- Do not place the display screen on the ground.
- Avoid heavy impact or dropping.
- Do NOT use chemical solutions to clean this product.  
Wipe with a clean soft cloth to maintain the brightness of the surface.
- Do not block vent holes.
- Follow the instructions when making adjustments.
- Unplug the power and remove the battery if you do not plan to use the monitor for an extended period of time.

## FEATURES

### 4K 12G-SDI Ultra-HD Resolution

Ultra HD 4K screen, 3840×2160 resolution

### Multiple Viewing Options

Full Screen, Split, and Quad

### Embedded Audio Meter—SDI Only

Displays numerical indicators and headroom levels

### Rack Mountable

Fits standard 19" 6RU equipment rack

### Carrying Case

Rugged carrying case provides added protection, stability, and portability.

## INCLUDED ACCESSORIES

- Collapsible Sunshade
- Carrying Case
- 15V 4-Pin XLR Power Cable
- Battery Plate Bracket
- V-Mount
- Tally Connector Kit



## SPECIFICATIONS

Display Screen:	15.6 inch IPS LCD
Backlight:	LED
Resolution:	3840x2160
Brightness:	330cd/m <sup>2</sup>
Contrast	1000:1
Aspect Ratio:	16:9
Viewing Angle:	176°/ 176°(H/V)
Input Signal:	12G-SDI, 3G-SDI, HDMI 4K 60Hz, HDMI 1.4 4K 30Hz
Output Signal:	12G-SDI, 3G-SDI Loop
Audio:	Audio Level Meter (SDI only)/Headphone Jack /Speaker 1 Watt
Input Voltage:	12-24VDC (XLR)
Power Consumption:	34W
Dimensions (LxHxD):	15.3x10.5x1.5 in (20.6x12x6.7 in with case) 389×267×38mm (524 x 305 x 170mm with case)
Weight:	7.1 lb (6.5 lb with case) 3.2 kg (2 kg with case)

## SUNSHADE INSTALLATION

Place the sunshade on the outside edge of the carrying case and press Velcro into place.



## MONITOR FRONT



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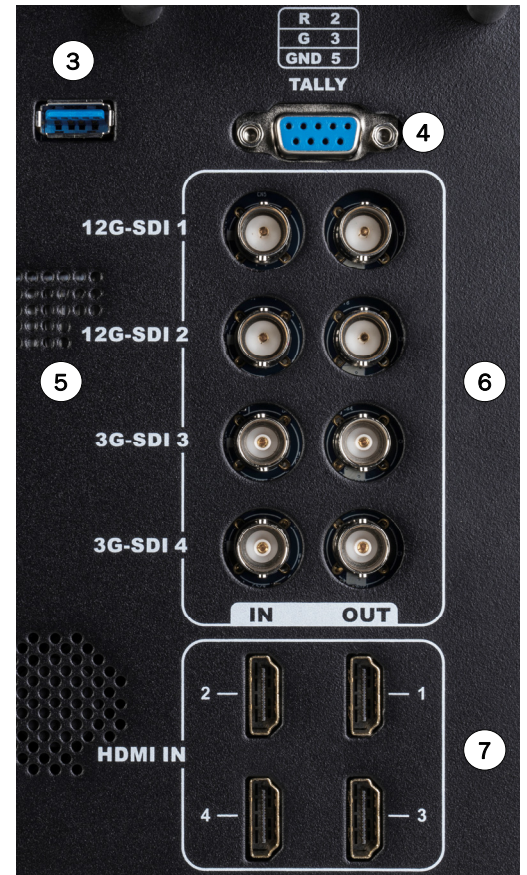
- 1 Speaker
- 2 SDI Select:  
SINGLE—12G-SDI 1, 12G-SDI 2, 3G-SDI 3, 3G-SDI 4  
2SI—Dual-Link 2SI, Quad-Link 2SI  
SQUARE—Quad-Link Square Division Mode
- 3 HDMI—Select Input
- 4 MENU/RETURN
- 5 ◀ Select options in the menu. Before entering the menu, press once to activate volume, press again to scroll through options.
- 6 ▶ Select options in the menu.
- 7 EXIT Back or exit
- 8 F1-F4 User definable buttons Default function options:  
F1 Display Mode, F2 Display Rotate, F3 Safety Marker, F4 Aspect
- 9 Power Indicator Light  
Red: Standby, Green: Working
- 10 Earphone Jack

# MONITOR REAR



- 1 Carrying handle
- 2 Strain relief bar
- 3 USB port—FACTORY USE ONLY
- 4 TALLY input
- 5 SDI input (BNC)
- 6 SDI output (BNC) - corresponds to SDI input
- 7 HDMI input  
HDMI 1: HDMI 2.0, 4K 60Hz  
HDMI 2, 3, & 4: HDMI 1.4, 4K 30Hz
- 8 15VDC power supply XLR connector
- 9 Power Switch

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



## VOLUME OPERATION ◀▶

Use the ◀▶ buttons for volume control.

## MENU OPERATION

Turn the power ON. Press the "MENU" button to access first level options:

- Picture
- Functions
- Display Mode
- Display Settings
- Input
- Audio
- System
- Information

Use ◀▶ buttons to highlight the desired option. Press "MENU" button to confirm. Press "EXIT" button to return / exit menu.

## F1 - F4 USER DEFINABLE SHORTCUT BUTTONS

Press and hold any one of the 4 buttons until the shortcut menu appears. Current option will be highlighted in white.

Using the ◀▶ buttons, cycle through the options, which will be yellow, unavailable options will be gray. Press the "MENU" button to set the selected option.

Available options: center marker, safety marker, aspect ratio, under scan, check field, image freeze, peaking, display mode and image flip.

### Default options

F1 : Display Mode

F2 : Display Rotate

F3 : Safety Marker

F4 : Aspect

## SETTINGS

Picture	Brightness	0-100
	Contrast	0-100
	Saturation	0-100
	Hue	0-100
	Sharpness	0-4
	Temperature	9300, 7500, 6500, 5800, User
	Backlight	0-100
Functions	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 (image edge enhancement)
	False Color	ON, OFF
Display Mode	1P, 2P LR, 2P TB, 2P PIP, 4P	
Display Settings	Display Rotate	0°, 90°, 180°, 270°, available in single display
	Display Mirror	OFF, L/R, U/D, available in dual display
Select Region	Set to region	
Input	SDI 1, SDI 2, SDI 3, SDI 4, 2SI, SQUARE, HDMI 1, HDMI 2, HDMI 3, HDMI 4	
Audio	Volume	0-100
	Audio Level Meter—SDI ONLY	CH0&CH1, CH2&CH3, CH4&CH5, CH6&CH7, CH8&CH9, CH10&CH11, CH12&CH13, CH14&CH15 (SDI ONLY)
System	Reset	Resets to default
	Menu Time	5-60s
	OSD H Position	0-100
	OSD V Position	0-100
	Language	English, Chinese
	Transparency	0-255
	OSD Rotate	0°, 90°, 270°
	Border Width	0-10
	Border Color	R, G, B, W
Info	Displays current information	

## SDI SIGNAL CONNECTION

### Input Signals

- Up to 2-channel, single link 12G-SDI
- Up to 4-channel 3GHD-SDI
- 1 channel quad-link 3G-SDI

Refer to the tables below for the appropriate connectors for each signal.

#### 12G-SDI Single Link Signal

Connector	Input Signal
SDI 1	12G-SDI
SDI 2	12G-SDI

#### 3G-SDI Dual Link Signal Interleave

Connector	Input Signal
SDI 1	3G-SDI Link 1
SDI 2	3G-SDI Link 2

#### 3G-SDI Dual Link Signal Square Division

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 Interleave

Connector	Input Signal
SDI 1	3G-SDI Link 1
SDI 2	3G-SDI Link 2
SDI 3	3G-SDI Link 3
SDI 4	3G-SDI Link 4

#### 12G-SDI Single Link Signal Square Division

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

#### Square Division Screen View

Sub Image 1 Upper Left Screen	Sub Image 3 Upper Right Screen
Sub Image 2 Lower Left Screen	Sub Image 4 Lower Right Screen

### Signal Formats

SDI-SDI	525i, 625i	4:2:2 YCbCr 10 bits	
HD-SDI	1280×720 (23.98/24/25/29.97/30/50/59.94/60p) 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	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



**SDI SIGNAL CONNECTION**

**Signal Formats**

6G-SDI Single Link	3840×2160/4096×2160 (23.98/24/25/29.97/30p)	4:2:2 YCbCr 10bits
	1920×1080/2048×1080 (47.95/48/50/59.94/60p)	4:4:4 GBR 10bits 4:4:4 GBR+A 10bits 4:4:4 YCbCr 10bits 4:4:4 YCbCr+A 10bits 4:4:4 GBR 12bits 4:4:4 YCbCr 12bits 4:2:2 YCbCr 12bits
	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	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	3840×2160/4096×2160 (23.98/24/25/29.97/30p)	4:2:2 YCbCr 10bits
3G-SDI Dual Link 2SI	3840×2160/4096×2160 (23.98/24/25/29.97/30p)	4:2:2 YCbCr 10bits
3G-SDI Dual Link Square Division	3840×2160/4096×2160 (23.98/24/25/29.97/30p)	4:2:2 YCbCr 10bits
3G-SDI Quad Link Square Division	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	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

## TROUBLE SHOOTING

### 1. No Image

- Ensure that the power is on and the cables are properly connected.
- Use the standard power adapter that is included as improper voltage input may cause damage or injury.

### 2. Incorrect or Abnormal Colors

- Ensure that the cables are properly connected.
- Check the signal source video output.
- Check Saturation for appropriate setting.
- Reset image ratio.

### 3. Image Size Error

- Go to Menu/Function/Underscan to zoom in and out of pictures automatically for HDMI signals

### 3. No Sound

- Press the HDMI button.
- Ensure that the cables are properly connected.
- Check volume control.

### 4. HDMI 1 No Signal

- Activate the HDMI signal by pressing the HDMI 1 button for 3 to 5 seconds