



HDMI/3G-SDI Single Display 17.3", 4K/30

User Manual

500842



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1. Safety Precautions

To ensure the best performance from the product, please read all instructions carefully before using the device. Save this manual for future reference.

- Follow basic safety precautions to reduce the risk of fire, electrical shock, and injury.
- Do not dismantle the housing or modify the module. It may result in electrical shock or burns.
- Do not open or remove the housing of the device as you may be exposed to dangerous voltage or other hazards.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture and do not install this product near water. Keep the product away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on the housing, unplug the module immediately.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Using supplies or parts not meeting the product specifications may cause damage, deterioration or malfunction.
- There are No adjustable components in the monitor. Refer all servicing to qualified service personnel.
- Install the device in a place with adequate ventilation to avoid damage caused by overheat.
- Unplug the power when left unused for a long period of time.
- Information on disposal of devices: do not burn or mix with general household waste, please treat them as normal electrical waste.

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2. Introduction

The HDMI/3G-SDI Single Display 17.3", 4K/30 features a 17.3-inch IPS LCD display that can be conveniently and securely rack-mounted into a 19" 7RU rack. This monitor adopts digital signal processing circuit which enables it to achieve high brightness, low power consumption and stable performance.

The unit supports input and loop-out of HDMI signals up to 4K/30, SDI signals up to 3G-SDI, DVI-I (VGA) and CVBS signals with Audio. The unit supports a tri-color Tally light indicator per display, customizable buttons allowing customers to tailor them to their needs, and advanced functions such as Center Marker, Safe Frames, Check Field, Focus Assist, Aspect Ratio, Image Flip, P2P, and Image Freeze.

3. Features

- 17.3-inch LCD display
- Supports HDMI (4K/30), 3G-SDI, DVI-I (VGA) and CVBS with Audio
- Fits 19-inch rackmount @ 7 RU
- Tri-color Tally light indicator
- Supports Center Marker, Safe Frames, Check Field, Focus Assist,
- Aspect Ratio, Image Flip, P2P & Image Freeze
- Stereo Earphone output, built-in speaker
- Customizable buttons tailored to customer needs

4. Package Contents

- One (1) HDMI/3G-SDI Single Display 17.3", 4K/30
- One (1) 12VDC power adapter 36W
- One (1) Tally - DB9 adapter
- One (1) USB cable adapter
- One (1) User manual (available via download)

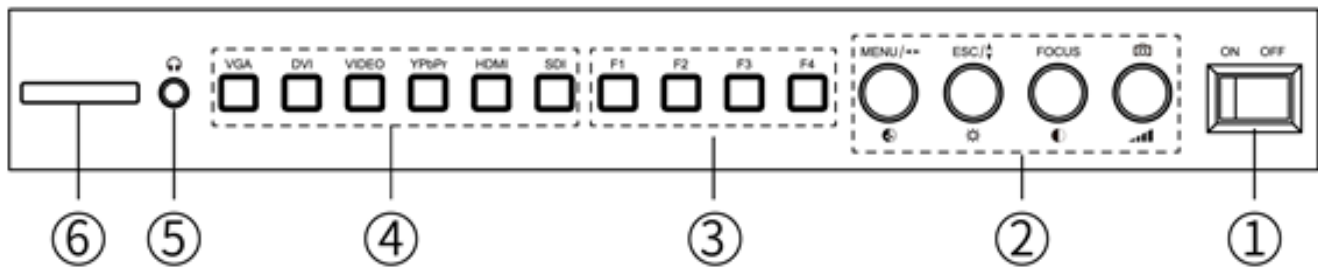
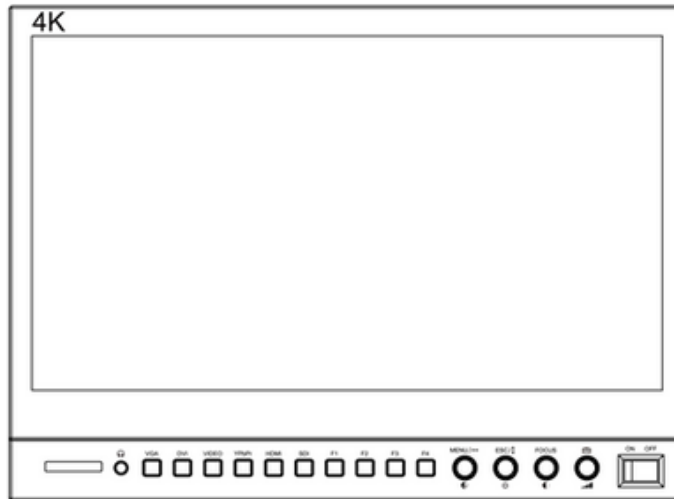
5. Specifications

Specification	
Screen Size	17.3" IPS
Display Colors	16.7M
Dot Pitch	0.1989(H) x 0.1989(V) mm
Aspect Ratio	16:9
Brightness	300cd/m ²
Contrast	700:1
Backlight	LED
Response Time	Tr + Tf = 25ms
Viewing Angle	89°/89°(L/R) 89°/89°(U/D)
Inputs	3G-SDI, HDMI, YPbPr, Video, Audio(L/R), DVI-I (VGA), Tally, USB Upgrade
Outputs	3G-SDI, HDMI, YPbPr, Video
Audio	3.5mm Stereo Headphone, Speaker
SDI Support Format	480i/576i 720p (60/59.94/50/30/29/25/24/23.98) 1080i (60/59.94/50) 1080p (60/59.94/50/30/29.97/25/24/24sF/23.98/23.98sF)
HDMI Support Format	480i/576i/480p/576p 720p (60/59.94/50/30/29/25/24/23.98) 1080i (60/59.94/50) 1080p (60/59.94/50/30/29.97/25/24/24sF/23.98/23.98sF) 4K UHD 3840x2160p (30/29.97/25/24/23.98Hz, 4096x2160 (24Hz))
Power Consumption	≤26W
Input Voltage Range	9.0 to 24 VDC
Power Source	100/240VAC to 12VDC @ 3A power supply
Working Temperature	0°C to 50°C
Storage Temperature	-20°C to 60°C
Dimensions	481.6L X 297H X 35D mm
Weight	3.40kg
Warranty	2 years
Order Information	500842 HDMI/3G-SDI Single Display 17.3", 4K/30 (UPC: 627699008423)

6. Operation Controls and Functions

6.1 Front Panel

Front Panel



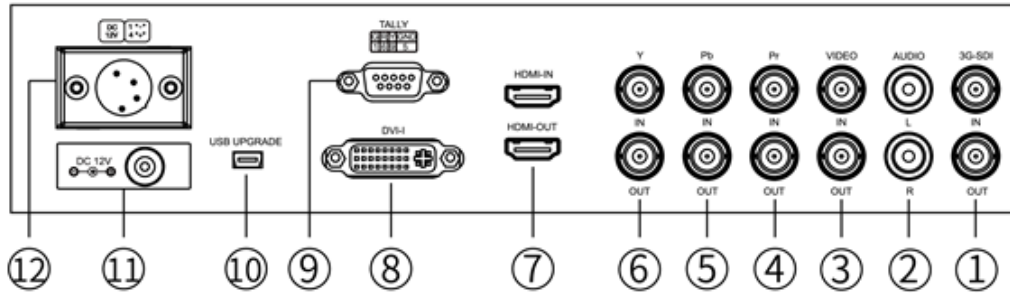
No	Name	Description
1	Power Switch	Power ON/OFF Switch
2	Multifunctional Knobs	See table below.
3	User defined Function Buttons	Four user-defined function buttons to operate on user presets.
4	Input Selection Buttons	Video input selection: VGA (DVI to VGA signal), DVI, VIDEO, YPbPr, HDMI and SDI
5	Audio output	3.5mm Stereo Headphone Jack output
6	Tally	Tally Indicator

Multifunctional Knobs

Knobs	Function when OSD is not displayed	Function when OSD is displayed
MENU/↔ 	Rotate knob to adjust image Saturation. Press it to enter the OSD menu.	Rotate knob to select or adjust the selected menu item. Press it to exit (confirm) the current menu settings.
ESC/↑ 	Rotate knob to adjust image Brightness.	Rotate knob to select menu items up or down. Press it to exit the OSD menu.
FOCUS 	Rotate knob to adjust image Contrast. Press it to enter "Focus Assist" function.	/
	Rotate knob to adjust Volume. Press it to enter "Camera Mode" Function.	/

6.2 Rear Panel

Rear Panel



No	Name	Function Description
1	3G-SDI IN/OUT	SDI signal input & output
2	AUDIO L/R:	Audio Left and Right channel input
3	VIDEO IN/ OUT:	Composite Video signal input & output
4	Pr IN/ OUT:	Component video Pr input & output signal in YPbPr
5	Pb IN/ OUT:	Component video Pb input & output signal in YPbPr
6	Y IN/ OUT:	Component video Y input & output signal in YPbPr
7	HDMI IN/ OUT:	HDMI signal input & output
8	DVI-I signals input	(VGA input from this port after conversion module signal conversion)
9	TALLY	TALLY indicator input port
10	USB UPGRADE	USB upgrade port
11	Power input	Direct DC plug-in power supply input port
12	Power input	4-pin XLR DC power input

6.3 Power Input Selection

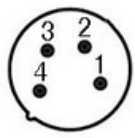
There are two ways of power supply to our monitor:

A. The direct plug-in DC power input port. Please use DC5.5*2.1m DC power plug, power input polarity as shown:



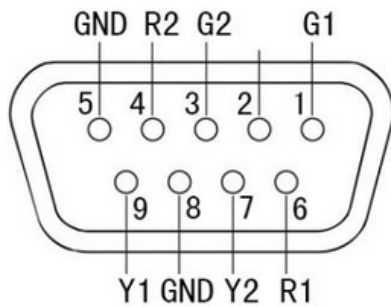
Please use the qualified power supply with output power no less than 21W 9-24VDC.

B. Via 4 pin XLR interface power supply. The polarity of the 4-pin XLR power input is shown below.



Pin number	Signal
1	GND
2	No connection
3	No connection
4	+12V

6.4 TALLY Indicator Pinout




Indicator Color	Pin Connection	
	1 Screen	2 Screen
Green	1-5	3-8
Red	6-5	4-8
Yellow	9-5	7-8


Note: Pin 5 and 8 are sharing GND connection.

7. On Screen Display Menu (OSD) Instructions


The display has a number of buttons for controlling and adjusting setting for display.

- Pressing the MENU knob will enter the On Screen Display (OSD), turning the knob  to select secondary menu.



- Turning the Esc knob  to navigate the secondary menu.

Pic. Mode	User
Brightness	50
Contrast	50
Saturation	50
Sharpness	15
Color Temp.	User
Red	128
Green	128

- After selecting the item, rotate the Menu knob  to adjust the item parameter.
- Pressing the ESC knob will exit the OSD menu.

7.1 On Screen Display Menu (OSD) Functions



- **Pic. Mode:** **Standard, Mild, User, Dynamic**, Under "User-", you can adjust the Brightness (0 ~ 100), Contrast (0 ~ 100), Saturation (0 ~ 100), and Sharpness (0 ~ 100).
- **Color Temp. :** **6500, 9300, User**; Under "User", you can adjust the Red, Green and Blue values of the image.
- **Tint:** 0~100



- **Language:** Language selection.
- **Aspect Ratio:** Auto, 4:3, 16:9, Just Scan, Panorama, P2P.
- **No Signal:** Screen color when no video signal; Blue Screen, Red Screen, Green Screen, Black Screen, White Screen
- **VGA Self-adj:** This function can be realized under DVI to VGA signal.
- **OSD Trans. :** Off, Low, Middle, High
- **OSD H:** 0~100
- **OSD V:** 0~100
- **OSD Time:** Off, 10Sec, 20Sec, 30Sec
- **Camera Mode:** Off, 480P, 1080i
- **Backlight:** 0~100
- **USB Upgrade:** Download upgrades to a USB disk, then connect it to the Upgrade USB port, then press confirm. After the upgrade, the monitor will automatically restart. Do NOT plug any USB cable into this port.
- **Reset:** reset to the original settings.



- **Zoom:** Off, 4X, 9X, 16X.
- **Zoom Mode:** Off, Mode1, Mode2; In Mode 1 and Mode 2, you can customize the Zoom All (0-100).
- **Scan Mode:** Under Scan, Over Scan



- **Center Marker:** Off, On
- **Safe Frames:** Off, 80%, 85%, 90%, 93%, 96%, 2.35:1
- **Image Freeze:** Off, On
- **Image Flip:** Off, H Flip, V Flip, H_V Flip
- **OSD Flip:** Off, On
- **Check Field:** Off, Mono, Red, Green, Blue,
- **Focus Assist:** Off, On; Superimpose red highlight over parts of the monochrome image in focus.



- **F1 to F4:** Center Marker, Safe Frames, Check Field, Focus Assist, Aspect Ratio, Image Flip, P2P, Image Freeze, Zoom, Backlight, Color Temp., VGA Self-adj can be pre-selected for each Function button.

Choose F, rotate ◀▶ button, then rotate ⬆ button to select one of options as definition function. Press "MENU" button to confirm and rotate ⬆ button back to next F setting.

8. Troubleshooting

If there is any problem when using the unit, please try following ways to inspect and solve

Symptom	Probable Cause	Possible Solution
No Image	Video cable off or connect incorrectly	Check the quality of the cable and make sure to select the correct input interface
	Without video signal input	Check that the signal source and output interface connection are correct.
	Monitor cannot be powered on	Check whether the power is connected, put the power switch to "on" position
	Supply voltage instability	The power adapter is not connected properly.
Image/color display abnormal	Video cable poor contact	Change video cable
	Video signal interfered by external environment	Move to another environment and try again
	Video input signal amplitude too low	Check signal source video output, or change signal source and try again.
	Menu color saturation adjustment closing	Enter menu to check color, or reset to factory settings
	Check Field set in mono or black & white	Reset Check Field, back to the color
	Image deformation	Reset the image ratio
Speaker without sound	Audio cable off or improper connection	Confirm connected with the corresponding input port
	Volume adjustment was closed	Reset the volume control and adjust to a proper position
	HDMI cable poor Connected	Check the quality of cable, or change cable and try again
	No sound after switch video signal	This monitor is with audio signal only in audio input and HDMI state

If you still cannot diagnose the problem, please call MuxLab Customer Technical Support at 877-689-5228 (toll-free in North America) or (+1) 514-905-0588 (International).

9. Application Diagram

