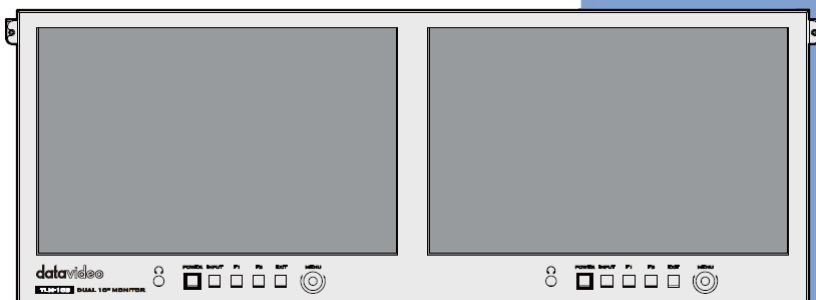




DUAL 10" MONITOR

TLM-102

Instruction Manual

www.datavideo.com

Table of Contents

FCC COMPLIANCE STATEMENT	4
WARNINGS AND PRECAUTIONS	4
WARRANTY	5
STANDARD WARRANTY	5
FIVE YEAR WARRANTY	6
DISPOSAL.....	6
INTRODUCTION	7
FEATURES.....	7
TLM-102 MODEL TYPE	7
COMPATIBLE RESOLUTIONS AND FORMATS.....	8
CONNECTIONS AND CONTROLS	9
FRONT PANEL.....	9
REAR PANEL.....	12
OSD MENU	14
SOFTWARE FUNCTION.....	15
SDI-HDMI CROSS CONVERSION	16
MOUNTING THE TLM-102	17
DIMENSIONS	20
SPECIFICATIONS	21
ACCESSORIES	22
SERVICE AND SUPPORT	23

DISCLAIMER OF PRODUCT AND SERVICES

The information offered in this instruction manual is intended as a guide only. At all times, Datavideo Technologies will try to give correct, complete and suitable information. However, Datavideo Technologies cannot exclude that some information in this manual, from time to time, may not be correct or may be incomplete. This manual may contain typing errors, omissions or incorrect information. Datavideo Technologies always recommend that you double check the information in this document for accuracy before making any purchase decision or using the product. Datavideo Technologies is not responsible for any omissions or errors, or for any subsequent loss or damage caused by using the information contained within this manual. Further advice on the content of this manual or on the product can be obtained by contacting your local Datavideo Office or dealer.

FCC Compliance Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Warnings and Precautions

1. Read all of these warnings and save them for later reference.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit in or near water.
5. Do not place this unit on an unstable cart, stand, or table. The unit may fall, causing serious damage.
6. Slots and openings on the cabinet top, back, and bottom are provided for ventilation. To ensure safe and reliable operation of this unit, and to protect it from overheating, do not block or cover these openings. Do not place this unit on a bed, sofa, rug, or similar surface, as the ventilation openings on the bottom of the cabinet will be blocked. This unit should never be placed near or over a heat register or radiator. This unit should not be placed in a built-in installation unless proper ventilation is provided.
7. This product should only be operated from the type of power source indicated on the marking label of the AC adapter. If you are not sure of the type of power available, consult your Datavideo dealer or your local power company.
8. Do not allow anything to rest on the power cord. Do not locate this unit where the power cord will be walked on, rolled over, or otherwise stressed.
9. If an extension cord must be used with this unit, make sure that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord rating.
10. Make sure that the total amperes of all the units that are plugged into a single wall outlet do not exceed 15 amperes.
11. Never push objects of any kind into this unit through the cabinet ventilation slots, as they may touch dangerous voltage points or short out parts that could result in risk of fire or electric shock. Never spill liquid of any kind onto or into this unit.
12. Except as specifically explained elsewhere in this manual, do not attempt to service this product yourself. Opening or removing covers that are marked "Do

Not Remove” may expose you to dangerous voltage points or other risks, and will void your warranty. Refer all service issues to qualified service personnel.

13. Unplug this product from the wall outlet and refer to qualified service personnel under the following conditions:
 - a. When the power cord is damaged or frayed;
 - b. When liquid has spilled into the unit;
 - c. When the product has been exposed to rain or water;
 - d. When the product does not operate normally under normal operating conditions. Adjust only those controls that are covered by the operating instructions in this manual; improper adjustment of other controls may result in damage to the unit and may often require extensive work by a qualified technician to restore the unit to normal operation;
 - e. When the product has been dropped or the cabinet has been damaged;
 - f. When the product exhibits a distinct change in performance, indicating a need for service.

Warranty

Standard Warranty

- Datavideo equipment is guaranteed against manufacturing defects for **one (1) year** from the date of purchase.
- A valid purchase invoice or other proof of purchase must be provided when requesting warranty service.
- The warranty period begins on the actual purchase date. If the purchase date cannot be verified, the warranty period will begin **thirty (30) days after shipment** from a Datavideo office.
- Non-Datavideo branded products (products without the Datavideo logo) are covered by a **one-year warranty** from the date of purchase.
- Damage caused by accident, misuse, unauthorized repair, or exposure to sand, grit, or water is **not covered** under warranty.
- Virus or malware infections on computer systems are **not covered** under warranty.
- Any issues caused by unauthorized third-party software installations that are not required by Datavideo systems are **not covered** under warranty.
- All shipping, mailing, or transportation costs, including insurance, are the responsibility of the owner unless otherwise stated.
- **Teleprompter glass is not covered** under warranty.

- Accessories, including **headphones, cables, batteries, metal parts, housings, protective cases, cable reels, and consumable items**, are **not covered** under warranty.
- Warranty is valid only in the country or region of purchase.
- All other claims **not explicitly stated** are not covered.
- Your statutory rights remain unaffected.

Five Year Warranty

- Starting January 1, 2026, all Datavideo products that are successfully registered on the Datavideo official website are eligible for a **free four-year extended warranty**, in addition to the standard one-year warranty, for a total of **five years of coverage**.
- **Only registrations completed through the Datavideo official website qualify** for the five-year warranty. Registrations completed through local Datavideo offices, resellers, or authorized distributors **are not eligible**.
- Certain parts with limited service life — including **LCD panels, DVD drives, hard drives, solid-state drives, SD cards, USB thumb drives, lighting equipment, non-PCIe cards, and third-party PC components** — are covered by a **one-year warranty only** and are **not eligible** for the extended warranty.
- **Camera modules** are covered by a **three-year warranty from the date of purchase**.



Disposal



For EU Customers only - WEEE Marking

This symbol on the product indicates that it should not be treated as household waste. It must be handed over to an applicable take-back scheme for the recycling of Waste Electrical and Electronic Equipment. For more detailed information about the recycling of this product, please contact your local Datavideo office or your local recycling centre.



CE Marking is the symbol as shown on the left of this page. The letters "CE" are the abbreviation of French phrase "Conformité Européenne" which literally means "European Conformity". The term initially used was "EC Mark" and it was officially replaced by "CE Marking" in the Directive 93/68/EEC in 1993. "CE Marking" is now used in all EU official documents.

Introduction

The Datavideo TLM-102 Dual 10” monitor is a 4RU Rack mount dual monitor which is designed for the broadcast quality monitoring application. Datavideo TLM-102’s 4RU rack design, SDI and HDMI inputs and outputs and different mounting methods make it the best solution for various applications such as live vans, on-site monitoring and video wall.

The Datavideo TLM-102 Dual 10” monitor brings high quality and user-friendly viewing experience for users via its excellent display quality and advanced auxiliary functions.

Features

- Dual 10” Monitor with 1280*800 IPS Panel Resolution.
- Dual Monitor with 4RU Rack Mount.
- 3G-SDI video input with loop-through output.
- HDMI video input with loop-through output.
- OSD menu for configuring various functions including column (YRGB peak), time code, waveform, vector scope, audio level meter, peaking, zoom, pix to pix, underscan, check field, etc.
- SDI & HDMI Cross Conversion.
- Individual adjustment of Brightness, Contrast, Color Saturation and LED Backlight Level for each monitor.
- Colour temperature menu option includes 4 modes (6500K, 7500K,9300K and user defined)
- Front panel headphone jack.
- 15 pin tally input interface.
- User-defined function buttons (F1/F2)

TLM-102 Model Type

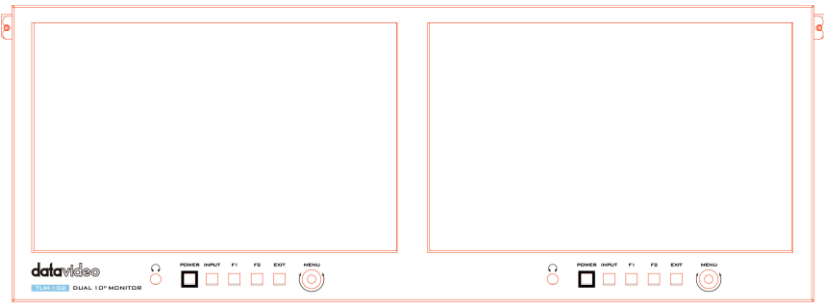
Model	TLM-102	
Image		
System	4U Rack Mount	

Compatible Resolutions and Formats

Format	TLM-102 Interface	
	HDMI	SDI
1920x1080P @ 59.94	Support	Support
1920x1080P @ 60	Support	Support
1920x1080P @ 50	Support	Support
1920x1080P @ 29.97	Support	Support
1920x1080P @ 25	Support	Support
1920x1080P @ 30	Support	Support
1920x1080P @ 23.98	Support	Support
1920x1080P @ 24	Support	Support
1920x1080i @ 59.94	Support	Support
1920x1080i @ 60	Support	Support
1920x1080i @ 50	Support	Support
1280x720P @ 59.94	Support	Support
1280x720P @ 60	Support	Support
1280x720P @ 50	Support	Support
1280x720P @ 23.98	Support	Support
1280x720P @ 24	Support	Support
1280x720P @ 25	Support	Support
1280x720p@29.97	Support	Support
1280x720p@30	Support	Support
720 x 480i (NTSC)	Support	Support
720 x 576i (PAL)	Support	Support

Connections and Controls

Front Panel

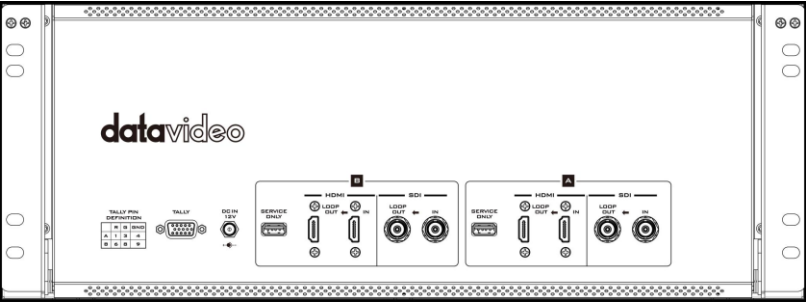


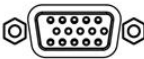
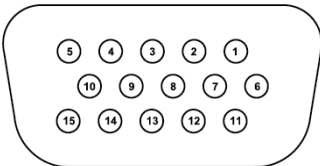
Buttons	Descriptions
	Headphone Socket Once the 3.5mm headphone jack is connected, the internal speaker will be automatically muted. Follow the menu path Main Menu > Audio > Volume to adjust the audio volume.
POWER 	Power Button This button powers the monitor ON/OFF.
INPUT 	Input Button This button is for users to select the input signal type. The available input interfaces are SDI and HDMI. Press to select an input source (SDI or HDMI) to view on the monitor. Please note that you can also connect the loop out port (see Rear Panel) to an external monitor to view the activated input video source. The TLM-102 provides internal conversion between SDI and HDMI input signals. For details, see SDI-HDMI Cross Conversion.

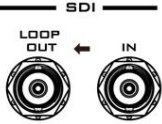
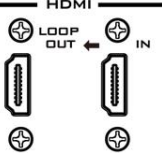
F1	F2	F1/F2 Button Press the F1/F2 shortcut keys to access the designated function setting menus. The default function setting menus are shown as follows: F1: Scan F2: Waveform Customization of Button Functions Users can customize or reassign function setting menus to the F1 and F2 shortcut keys. The customization steps are outlined below. 1. First press and hold one of the shortcut keys (F1/F2) for approximately 3-5 seconds until a pop-up function list appears on the monitor. The pop-up function list is shown below: • Center Marker • Aspect Marker • Check Field • Underscan • Scan • Aspect • DSLR • Freeze • H/V Delay • Peaking • False Color • Exposure • Histogram • Level Meter • Waveform • Time Code 2. Rotate the menu knob left and right to move between options in the pop-up function list. 3. Press the menu knob to assign the highlighted function setting menu to the shortcut key selected at step 1. 4. Press the EXIT button to close the pop-up function list.
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	Button Reset To reset F1/F2 buttons to the factory defaults, follow the steps outlined as follows: 1. Open the OSD menu and navigate to SYSTEM. 2. Press the MENU knob to select the SYSTEM sub menu. 3. Move down to the RESET option and select by pressing the MENU knob. 4. Press the MENU knob again to enable the reset. Note: The reset option resets all TLM-102 settings.
EXIT 	Exit Button When the OSD menu is open: Press to exit the menu.
MENU 	Menu Knob Press the MENU knob to open the OSD menu. While the OSD menu is open rotate the MENU knob to navigate and press to select. When the OSD menu is closed, rotating the MENU knob provides direct access to the following settings: • Brightness • Sharpness • Contrast • Saturation • Volume • Tint • Exit These options appear at the bottom center of the screen. Press the MENU knob to cycle through the options and rotate the knob to adjust the selected setting.

Rear Panel



Ports	Descriptions																																					
TALLY 	Tally Light Input Tally light information can be supplied to the TLM-102K via the Tally port. The pinout information is provided below. <table><tr><th colspan="4">TALLY PIN DEFINITION</th></tr><tr><th></th><th>R</th><th>G</th><th>GND</th></tr><tr><th>A</th><td>1</td><td>3</td><td>4</td></tr><tr><th>B</th><td>6</td><td>8</td><td>9</td></tr></table> <table><tr><th>Pin No.</th><th>Signal Name</th><th>Descriptions</th></tr><tr><td>1</td><td>Red</td><td>Red tally light indicator for monitor A</td></tr><tr><td>3</td><td>Green</td><td>Green tally light indicator for monitor A</td></tr><tr><td>4</td><td>GND</td><td>Ground for monitor A's tally signal</td></tr><tr><td>6</td><td>Red</td><td>Red tally light indicator for monitor B</td></tr><tr><td>8</td><td>Green</td><td>Green tally light indicator for monitor B</td></tr><tr><td>9</td><td>GND</td><td>Ground for monitor B's tally signal</td></tr></table>	TALLY PIN DEFINITION					R	G	GND	A	1	3	4	B	6	8	9	Pin No.	Signal Name	Descriptions	1	Red	Red tally light indicator for monitor A	3	Green	Green tally light indicator for monitor A	4	GND	Ground for monitor A's tally signal	6	Red	Red tally light indicator for monitor B	8	Green	Green tally light indicator for monitor B	9	GND	Ground for monitor B's tally signal
TALLY PIN DEFINITION																																						
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8	Green	Green tally light indicator for monitor B																																				
9	GND	Ground for monitor B's tally signal																																				
SERVICE ONLY 	Service Only USB Port The two USB ports are reserved for maintenance, firmware updates, or function upgrades performed exclusively by the																																					

	original manufacturer. Customers must not use these service ports.
 The diagram shows two BNC connectors. The left one is labeled 'LOOP OUT' and the right one is labeled 'IN'. An arrow points from the 'IN' connector to the 'LOOP OUT' connector, indicating a loop-through connection.	SDI Input & Loop Through Connect an SDI video source to the SDI IN port. The Loop Out port is simply a loop thru output of the SDI input.
 The diagram shows two HDMI ports. The left one is labeled 'LOOP OUT' and the right one is labeled 'IN'. An arrow points from the 'IN' port to the 'LOOP OUT' port, indicating a loop-through connection.	HDMI Input & Loop Through Connect an HDMI video source to the HDMI IN port. The Loop Out port is simply a loop thru output of the HDMI input.
 The diagram shows a DC In Socket with a hexagonal shape and a central circle. Below it is a small icon of a DC In plug with a screw.	DC In Socket DC In Socket for connecting 12V / 3A power supply. The connection can be secured by screwing the outer fastening ring of the DC In plug to the socket.

OSD Menu

The TLM-102 can be set up using an OSD menu system. Press the MENU knob to display the OSD menu. This menu system is navigated using the knob to change a value or to highlight a menu option. Press the MENU Knob to select an option or confirm a value.

Main Options	Sub Options	Parameters
Picture	BRIGHTNESS	0~100
	CONTRAST	0~100
	SATURATION	0~100
	TINT	0~100
	Sharpness	0~100
	Color Temp.	6500K/7500K/9300K/User
Marker	Center Marker	On/Off
	Aspect Marker	Off/16:9/1.85:1/2.35:1/4:3/3:2
	Safety Marker	Off/95%/93%/90%/88%/85%/80%
	Marker Color	Red/Green/Blue/White/Black
	Marker Mat	Off/1~7
	Thickness	2/4/6
Function	Scan	Aspect/Pixel to Pixel/Zoom
	Aspect	Full/16:9/1.85:1/2.35:1/4:3/3:2
	Underscan	On/Off
	H/V Delay	OFF/H/V/HV
	Check Field	OFF/RED/GREEN/BLUE
	Zoom	10%~90%
	Freeze	On/Off
	DSLR	Off/5D2/5D3 (under HDMI)
	3G Format	Normal GBRA444 10 YCbCrA444 10 YCbCrA422 12 GBR444 12 YCbCr444 12 (under SDI)
Waveform	Waveform	Off/Multi/Y/YCbCr/RGB
	Waveform Trans.	Off/20%/50%
	Peaking	Off/On
	Peaking Color	Red/Green/Blue/White
	Peaking Level	0~100
	False Color	On/Off
	Exposure	On/Off
	Exposure Level	0~100
	Histogram	Off/Y/RGB/Color

	Time Code	Off/LTC/VITC(under SDI)
Audio	Volume	0~100
	Level Meter	On/Off
	Audio Ch	Ch1&Ch2 (under SDI)
	Language	English/Chinese
System	HDMI/SDI Convert	On/Off
	Color Bar	On/100%/75%
	OSD Timer	10s/20s/30s
	Back light	0 ~100
	Reset	On/Off
	Version	V1.0

Software Function

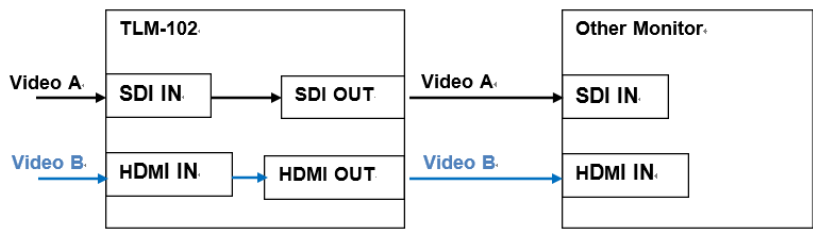
Basic Functions	
Center Marker	•
Safety Marker	•
Aspect Marker	•
Aspect	•
Underscan	•
Pixel to Pixel	•
Zoom	•
H/V Delay	•
DSLR	•
Freeze	•
Check Field	•
Level Meter	•
TALLY	•
Advanced Functions	
Peaking	•
False Color	•
Exposure	•
Histogram	•
Waveform	•
Vector	•
Time Code	•
HDMI/SDI Convert	•
Color Bar	•

SDI-HDMI Cross Conversion

The TLM-102 features a built-in SDI-HDMI cross-conversion function, allowing users to convert an SDI input signal into an HDMI output signal, or an HDMI input signal into an SDI output signal. Three selectable modes for SDI-HDMI cross-conversion are available, as shown below.

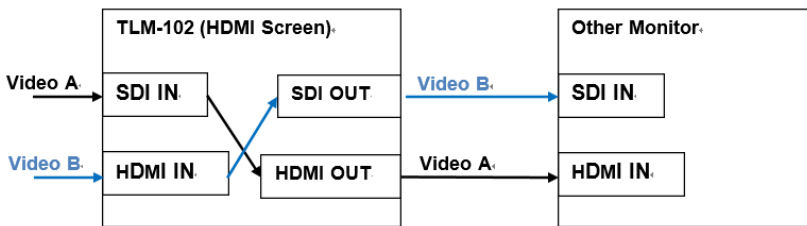
Conversion Function OFF

When the conversion function is OFF, SDI IN goes to SDI OUT, and HDMI IN goes to HDMI OUT.



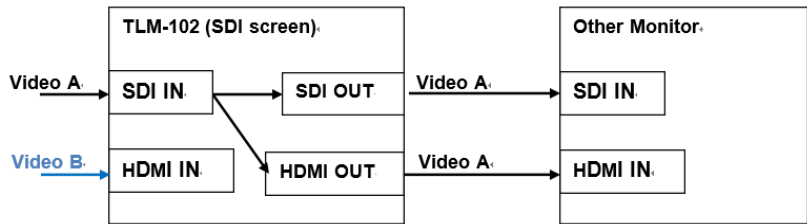
Conversion Function ON with HDMI Input

When the conversion function is ON and the input is set to HDMI, the HDMI IN signal is converted to SDI OUT, while the SDI IN signal is converted to HDMI OUT.



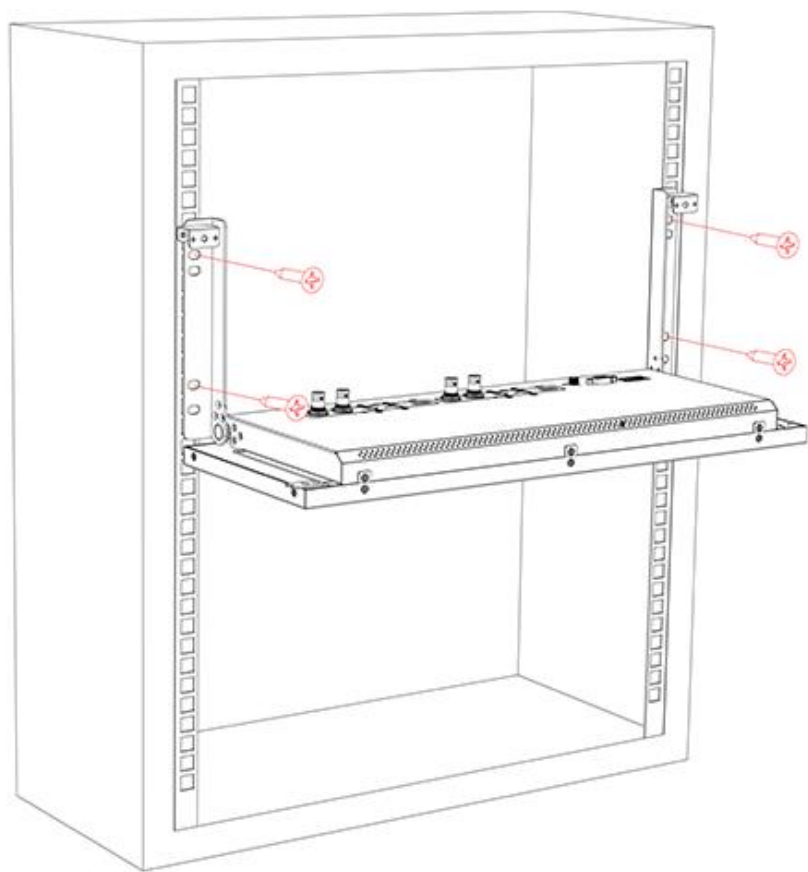
Conversion Function is ON with SDI Input

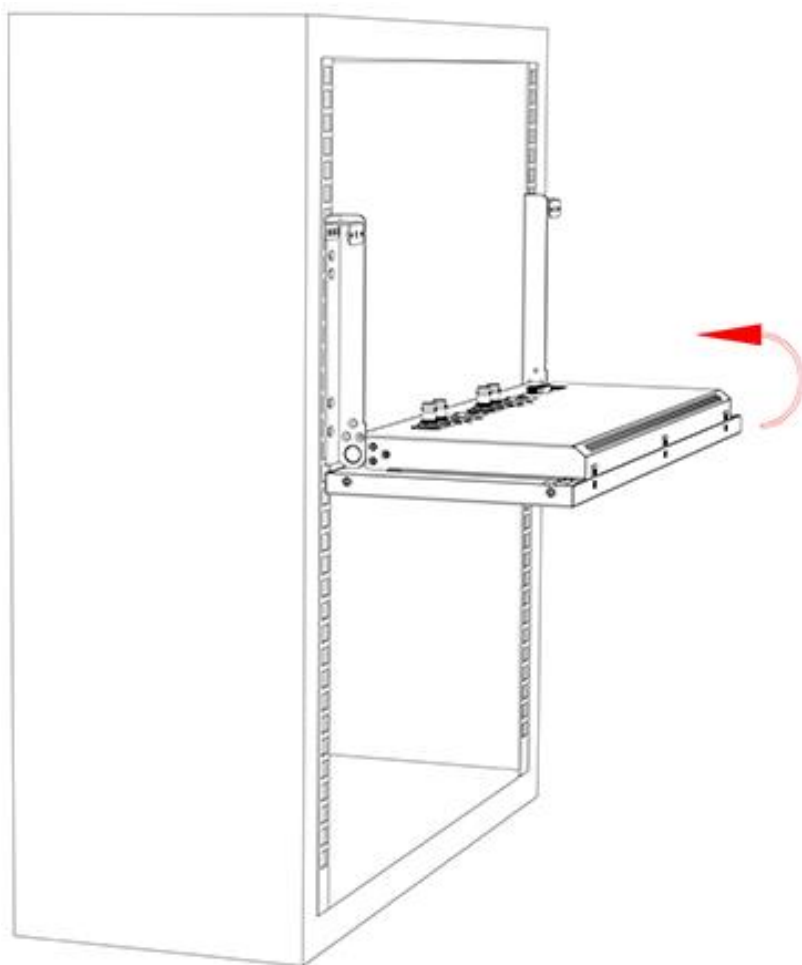
When the conversion function is ON and the input is set to SDI, the HDMI IN signal is not used. The SDI IN signal is delivered to both SDI OUT and HDMI OUT.

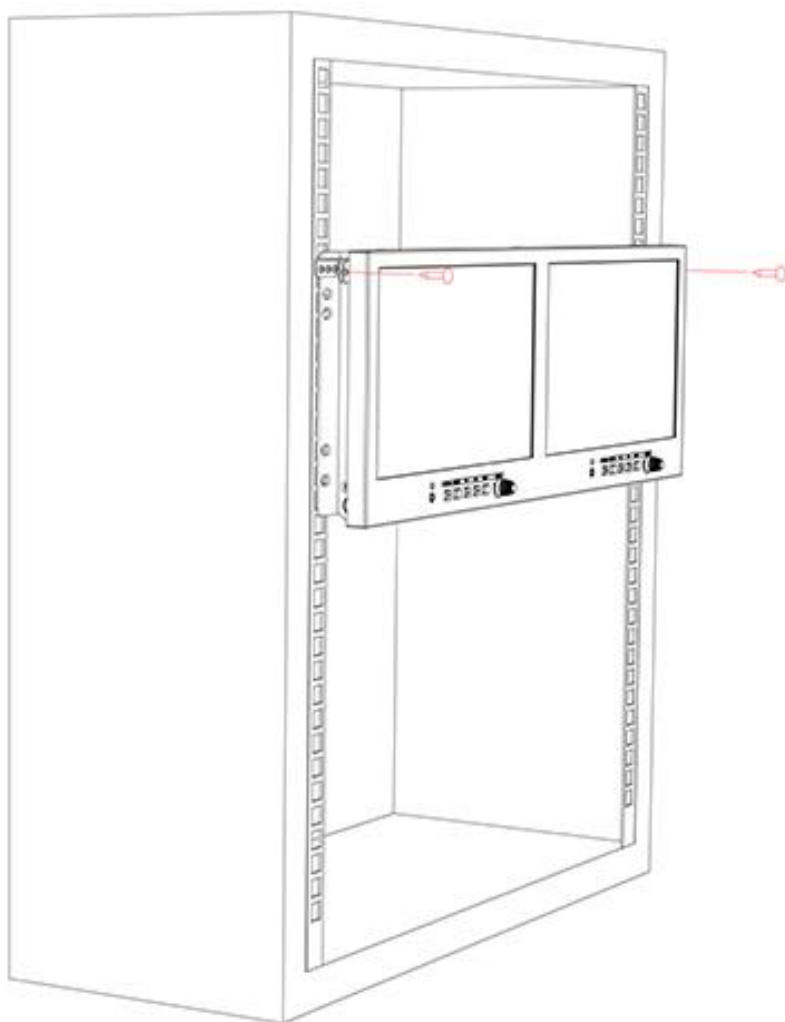


Mounting the TLM-102

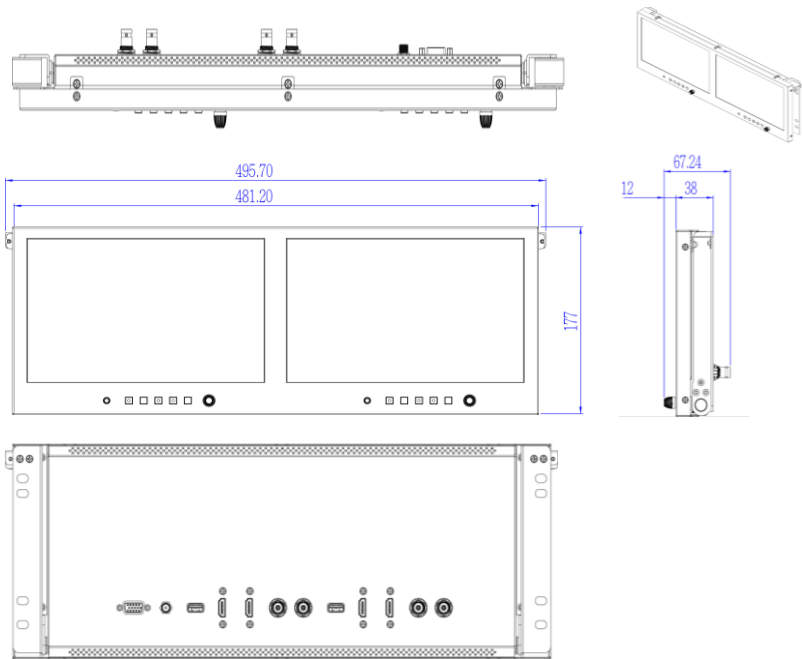
See the diagrams below for rack installation instructions







Dimensions



All measurements in millimeters (mm)

Specifications

Model Name	TLM-102
Product Name	Dual 10" Monitor
Screen	10.1" LCD
Chassis	4RU Rack Mount
Resolution	1280 x 800
Viewing Angle	(H) 170° (V) 170°
Luminance/Contrast	300 cd/m ² 800:1
Video Input	2x 3G/HD/SD-SDI 2x HDMI
Loop Through	2x 3G/HD/SD-SDI 2x HDMI
Support Input Resolutions	1080p (23.98/24/25/29.97/30/50/59.94/60Hz), 1080i (50/59.94/60Hz), 720p (23.98/24/25/29.97/30/50/59.94/60Hz), 480i (NTSC), 576i (PAL)
Aspect Ratio	16:9, 4:3
Tally LED	Live (Red) Cued (Green)
Audio In/OUT	Embedded Audio on SDI and HDMI Headphone Jack
Special Features	Time Code, Waveform, Vector Scope & Audio Level Meter, Peaking, Zoom, Pix to Pix, Underscan, SDI, HDMI Cross Conversion
Power	DC 12V, 28W
Service	USB x 2
Operating Temperature	-10°C ~ 40°C (14°F-104°F)
Storage Temperature	-40°C ~ 60°C(-40°F-140°F)
Dimension(mm)	482.5(L)× 178(W)× 38(D) mm
Weight	3.6Kg
Accessory	TALLY× 1 piece 12V DC adapter× 1 piece Manual× 1copy

Accessories

			
1	2	3	
Accessories		Quantity	
1. DC 12V Power adapter		1 piece	
2. Tally Connector		1 piece	
3. Manual		1 piece	

Service & Support

It is our goal to make your products ownership a satisfying experience. Our supporting staff is available to assist you in setting up and operating your system. Please refer to our web site www.datavideo.com for answers to common questions, support requests or contact your local office below.

Please visit our website for latest manual update.

<https://www.datavideo.com/product/TLM-102>



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