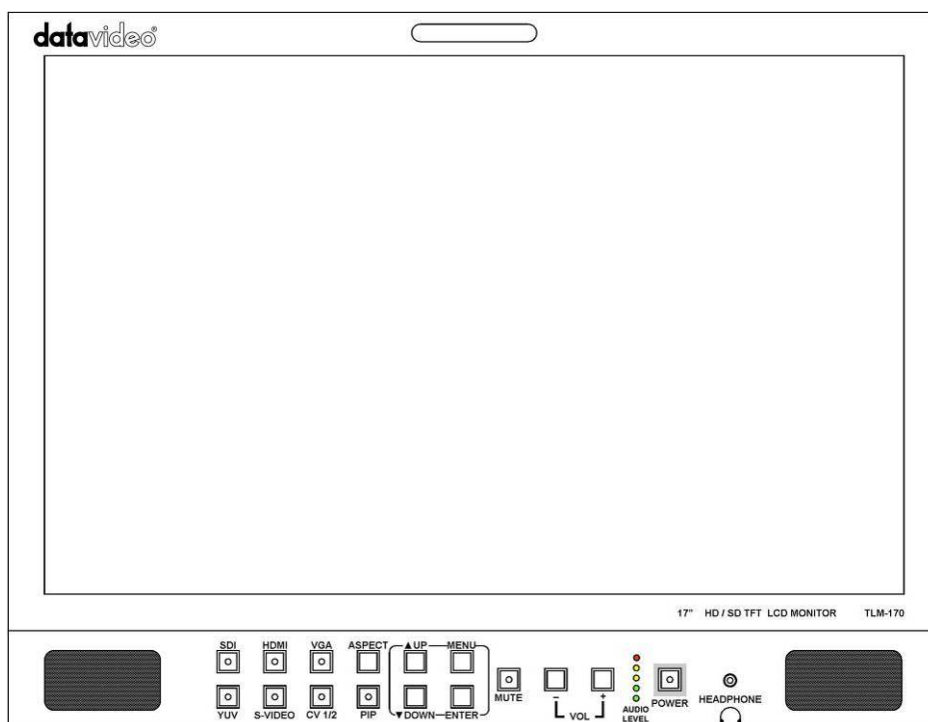


# TLM 170 / D / M / MD 17" Widescreen LCD TFT Monitor



## Instruction Manual

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## 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's 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

Datavideo warrants that the equipment it manufactures shall be free from defects in material and workmanship for a period of 12 months from the date of product purchased. If equipment fails due to such defects, Datavideo will, at its option, repair or provide a replacement for the defective part or product. Equipment that fails after the warranty period, has been operated or installed in a manner other than that specified by Datavideo, or has been subjected to abuse or modification, will be repaired for time and material charges at the Buyer's expense.

This warranty does not affect your statutory rights within the Country of purchase.

## Disposal

For EU Customers only - WEEE Marking.



This symbol on the product indicates that it will not be treated as household waste. It must be handed over to the applicable take-back scheme for the recycling of electrical and electronic equipment. For more detailed information about the recycling of this product, please contact your local Datavideo office.

## Packing List:

The following items should be included in the box. If any items are missing please contact your supplier.

Item	Model No.	TLM-170	TLM-170M	TLM-170D	TLM-170MD
BNC to BNC Cable 1.2m		3	3	5	5
Phono to Phono Cable 1.5m		2	2	2	2
Mini Din Plug to Plug Cable (S-Video) 1.2m		1	1	1	1
Switch Mode Power Supply 12V 6.6 A		1	1	1	1
AC Mains Cable for PSU		1	1	1	1
Rack Screws		8	8	10	10
Wrench 8mm / 10mm			1		1
Stand (LA-100-2)		1		1	
Screw M3 x 6mm		10		10	
Screw M4 x 6mm		8		8	
Velcro Cable Tie 36cm		2		2	
Crosshead Screwdriver Bit 7.5cm		1		1	

**\*\* Note \*\***

*Optional 19" Rack Ear Set (6U) can be ordered separately for the TLM-170 and TLM-170D models.  
Please speak with your local dealer for price and availability of these optional rack ears.*

## Introduction

The Datavideo TLM-170 is a 17" High Resolution (1440 x 90) TFT Widescreen Monitor. It features multiple input options, overscan, selectable safe area frame and Picture in Picture.

## Features

17" High Resolution TFT Widescreen Monitor 1440 x 900

Underscan + Overscan

Switchable Safe Area Frame - 70% / 80% / 90%

Multiple Inputs - HDMI / VGA / Component (YUV) / S-Video (Y/C) / Composite x 2 / HD/SD SDI (D models only)

PIP Mode

Bicolour Tally Light

Switchable Aspect Ratio -16:10 / 16:9 / 4:3

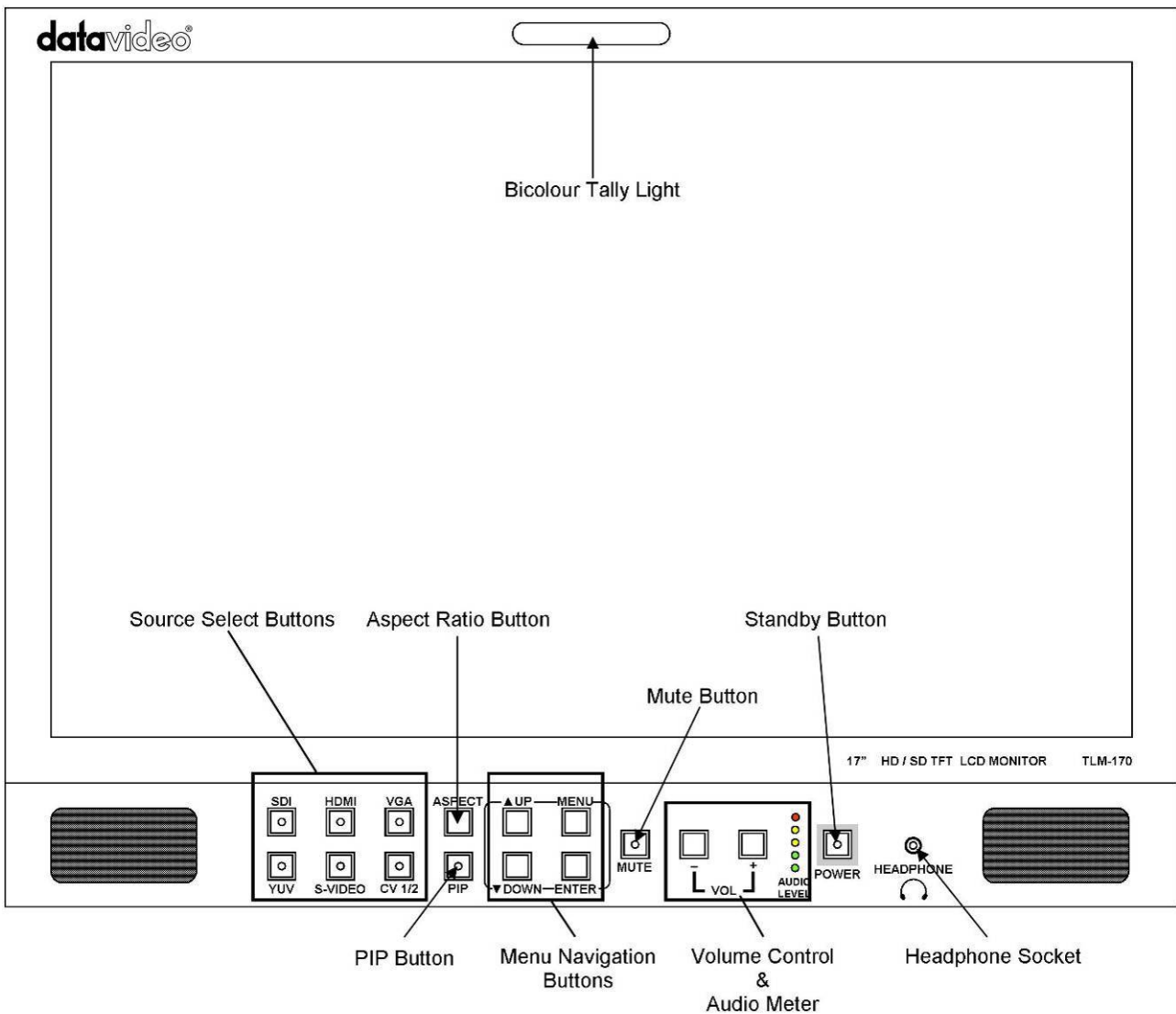
Robust Metal Construction

NTSC / PAL Compatible

12v Operation

# Operation

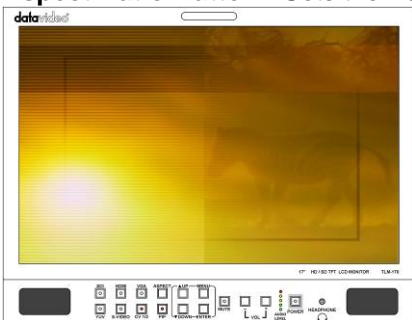
## Front Panel



**Bi-Colour Tally Light** - Can be used to indicate Live (RED) or Cued (AMBER) source.

**Source Select Buttons** - Select the type of input you are using - SDI (*TLM-170D / TLM170MD only*), HDMI, VGA, YUV, S-Video, CV 1 & 2  
The active input will be indicated by a red LED on the Source Button

**Aspect Ratio Button** - Sets the Aspect Ratio to 16:10 / 16:9 / 4:3



16:10

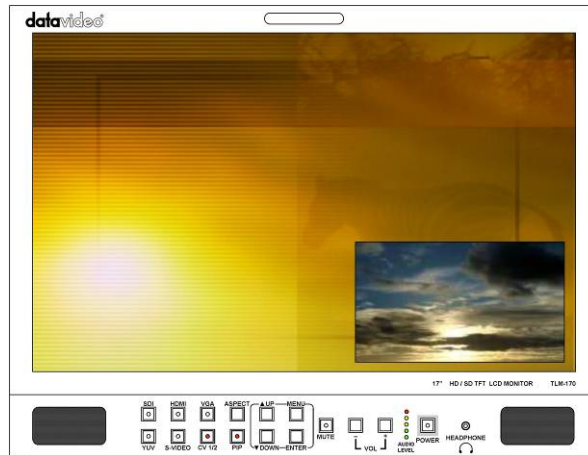


16:9



4:3

**PIP Button** - Activates Picture in Picture Mode - See *PIP Menu* for more details. Red LED will light when PIP mode is active.



**Menu Navigation Buttons** - Display and navigate the set up menus - See *Menu Options* for more details

**Down Button** also switches the **Safe Area Mask On / Off**

**UP Button** also switches the **4:3 Mask On / Off** - (only available in 16:9 and 16:10 modes)

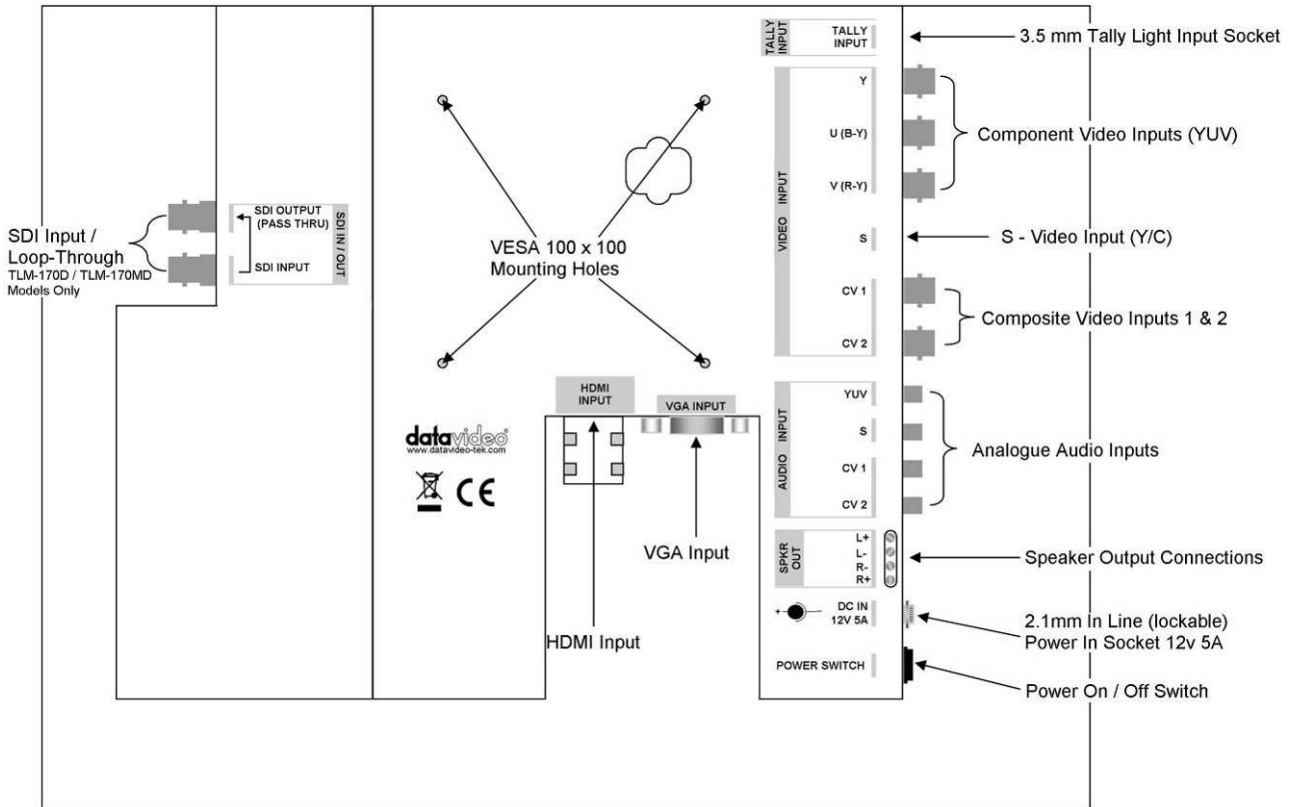
**Mute Button** - Mutes the audio from the internal speakers or headphone socket.

**Volume Control & Audio Meter** - Adjusts the speaker / headphone volume up / down.

**Standby Button** - Switches the TLM-170 screen On from standby / Off to standby  
**N.B. main Power On/Off switch is located on the rear of the TLM-170.**

**Headphone Socket** - 3.5mm headphone socket; internal speaker circuit will automatically mute when headphones are connected.

## Rear Panel



**VESA 100 x 100 Mounting Holes** - For fitting a universal VESA style wall mounting bracket. Also used for attaching the stand (LA-100-2) to the monitor. **Stand is supplied with TLM-170 & TLM-170D models.**

**3.5mm Tally Light Input** - Tally light information can be supplied to the TLM-170 from the Datavideo RMC-140, TB-5 or TB-10 via this socket.

**Component Video Input** - BNC connectors for Component (YUV (Y/R-Y/B-Y)) Video.

**S-Video Input** - Input for S-Video (Y/C).

**Composite Video Inputs 1 & 2** - BNC connectors for Composite Video.

**Analog Audio Inputs** - Mono Audio Inputs to correspond to the Analog Video Inputs (Component / S-Video / Composite 1 & 2)

**Speaker Output Connections** - Speaker Output connections Max 5v p - p (2w)

**DC In Socket** - 2.1mm In Line Power Socket with screw lock, for connecting the power supply or suitable 12v 5A feed.

**On / Off Switch** - Main on / off switch, switches the TLM-170 on and off. *The Standby button on the front panel will switch the TLM-170 from Standby Mode to On.*

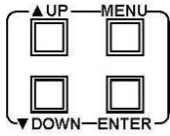
**VGA Input** - Sub D 15 Pin connection for VGA Input - Max Res. 1920 x 1080.

**HDMI Input** - Video and Audio input from HDMI

**SDI Input & Loop Through** - BNC Input for HD / SD SDI with a Loop Through Output (*D Models only*)

## Menu Options

The TLM-170 is set up via on screen menus. To display the on screen menu press the MENU button. The menus are navigated using the Up / Down buttons.



There are four menus

Colour Processor

COLOR PROCESSOR		
Brightness	<input type="range" value="50"/>	50
Contrast	<input type="range" value="50"/>	50
Saturation	<input type="range" value="50"/>	50
Sharpness	<input type="range" value="12"/>	12

PIP Feature Setting

PIP Feature Setting		
PIP Mode	Large PIP	↕
PIP Position	Bottom - Right	↕
PIP Main Source	CVBS 1	↕
PIP Sub Source	HDMI	↕

Special Feature Setting

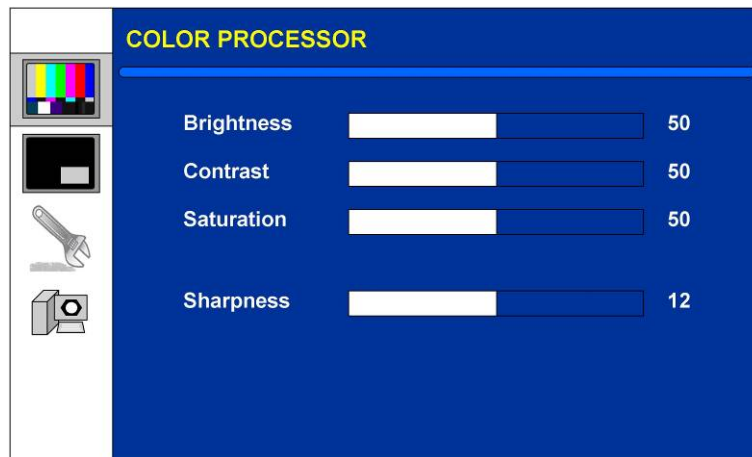
Special Feature Setting		
Frame Ratio	Off	↕
Mask Type	Overlay	↕
Scan Mode	Overscan	↕
Internal Speaker	Mute Control	↕
External Speaker	Mute Control	↕

System Information

System Information		
Factory Reset	No	↕
Firmware Version	V 1.0 - 0805105	

## Colour Processor

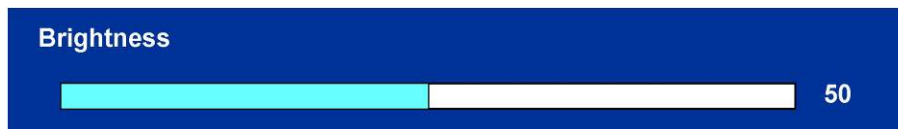
The first menu to be displayed is the Colour Processor Menu.



To access the Colour Processor Menu press enter, the Brightness setting will be highlighted.

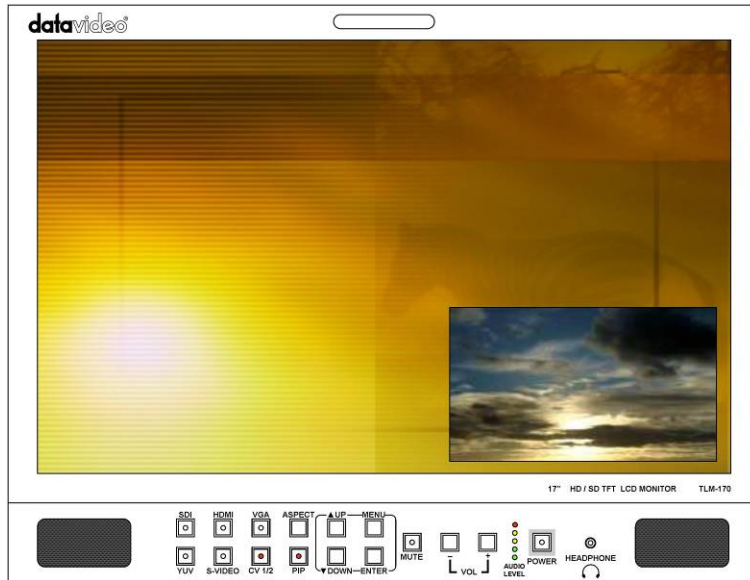


To adjust the Brightness press Enter again. An adjustment bar will appear at the bottom of the screen. Use the Up / Down buttons to change the setting and then press Enter to store the new value and return to the main menu.

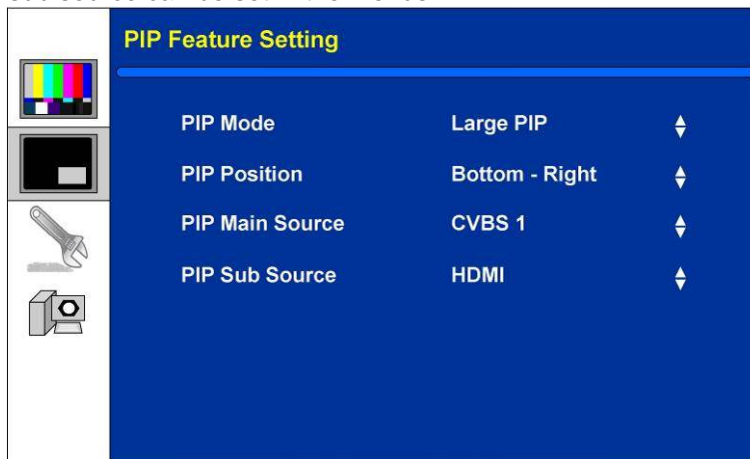


To select a different setting (Contrast, Saturation, Sharpness) use the Up / Down buttons. Follow the same procedure to set the other values.

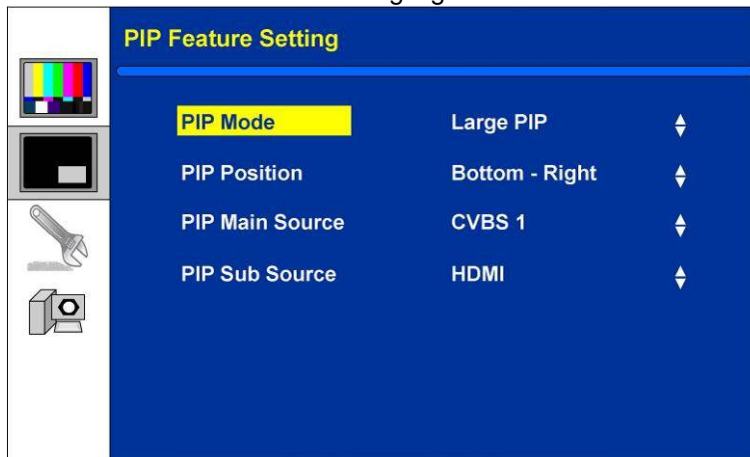
# PIP Menu



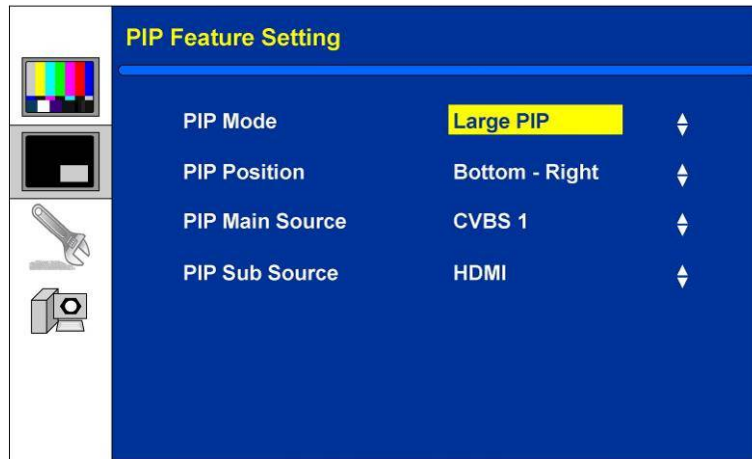
The PIP Feature Setting Menu allows you to adjust the appearance of the picture in picture. The position, size, main source and sub source can be set in the menus.



To access the menu press enter so that PIP Mode is highlighted



To access the options for the selected setting press enter again, so that the option column is highlighted - In this case Large PIP.



Use the Up / Down buttons to navigate the available options.

You can choose:

PIP Mode	Large PIP Small PIP
PIP Position	Bottom-Right Top-Left Top-Right Bottom Left
PIP Main Source	CVBS 1 CVBS 2 SVIDEO COMP. - Component HDMI SDI
PIP Sub Source	CVBS 1 CVBS 2 SVIDEO COMP. - Component HDMI SDI

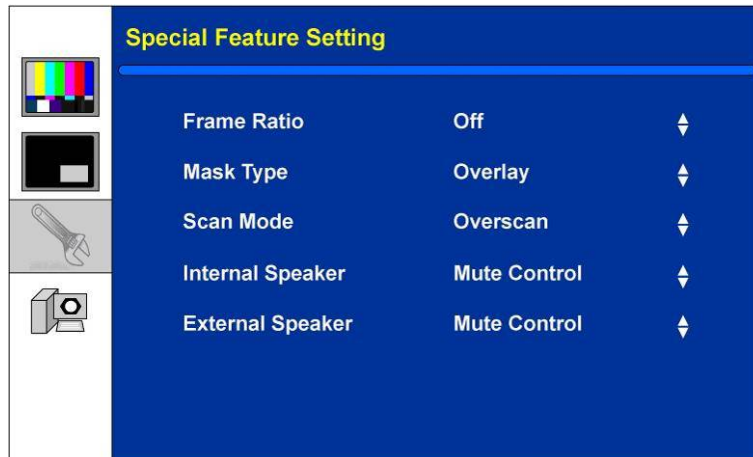
***N.B. The PIP feature can only be one analogue source and one digital source. i.e. If the main source is analogue then the sub source must be digital, and vice versa.***

Examples:

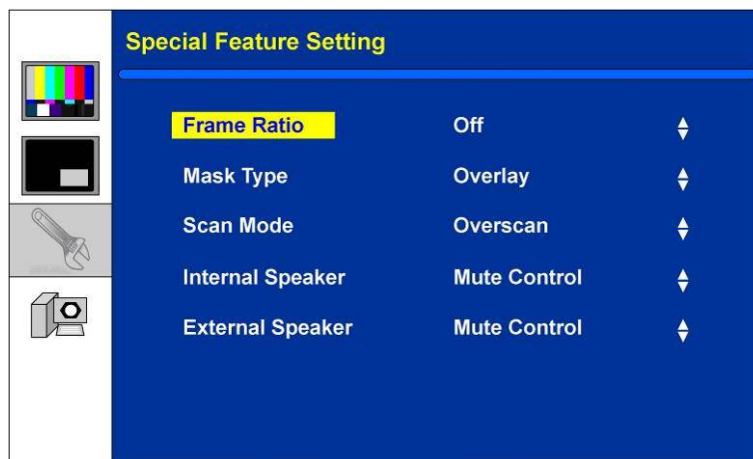
Main Source	=	CVBS 1
Sub Source	=	SDI / HDMI only
Main Source	=	HDMI
Sub Source	=	CVBS1 / 2 SVIDEO COMP. VGA only

## Special Feature Menu

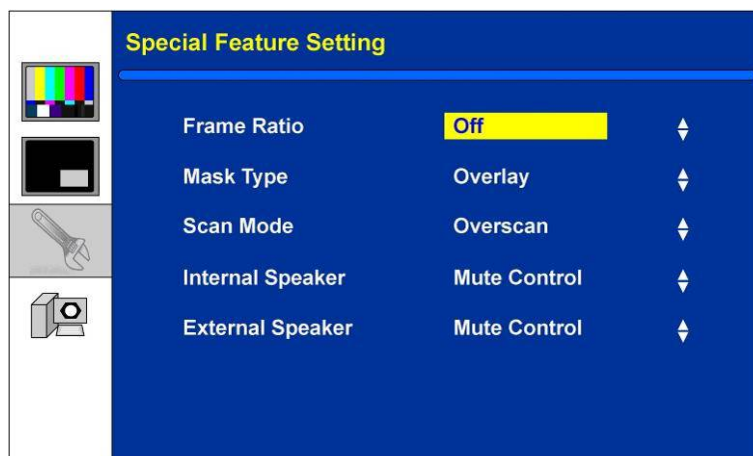
The Special Feature Menu has settings for the safe area frame, the scan mode and the speaker settings.



The menu is accessed in the same way as the other menus, press the ENTER button and then use the UP / DOWN buttons to highlight the setting you want to alter. In this case Frame Ratio

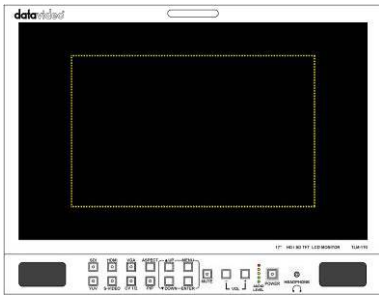


Once the setting is highlighted press the ENTER button again to highlight the options, and then use the UP / DOWN buttons to select the required value, and press ENTER once more to accept the new value.

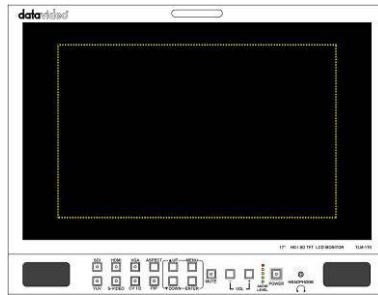


In the Special Feature Menu you can choose:

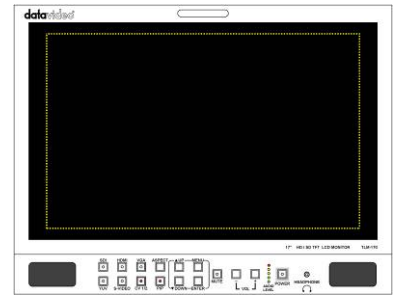
Frame Ratio - This will display a "Safe Area" frame on the screen  
Off / 70% / 80% / 90%



70%



80%



90%

Once you have set the Frame Ratio you can exit the menu. To display the Safe Area frame press the DOWN Button

Mask Type - This sets the 4:3 Mask option. Overlay / Transparent



Overlay Mode



Transparent Mode

Once you have set the Mask Type you can exit the menu. To display the 4:3 Mask press the UP Button  
**N.B. Only works in 16:9 and 16:10 modes**

- |                  |                         |
|------------------|-------------------------|
| Scan Mode        | Overscan / Underscan    |
| Internal Speaker | Mute Control - On / Off |
| External Speaker | Mute Control - On / Off |

### System Info. Menu

The System Info. Menu displays the Firmware Version of the monitor, and offers a Factory Reset option, which will return all the settings of the monitor to the factory defaults.

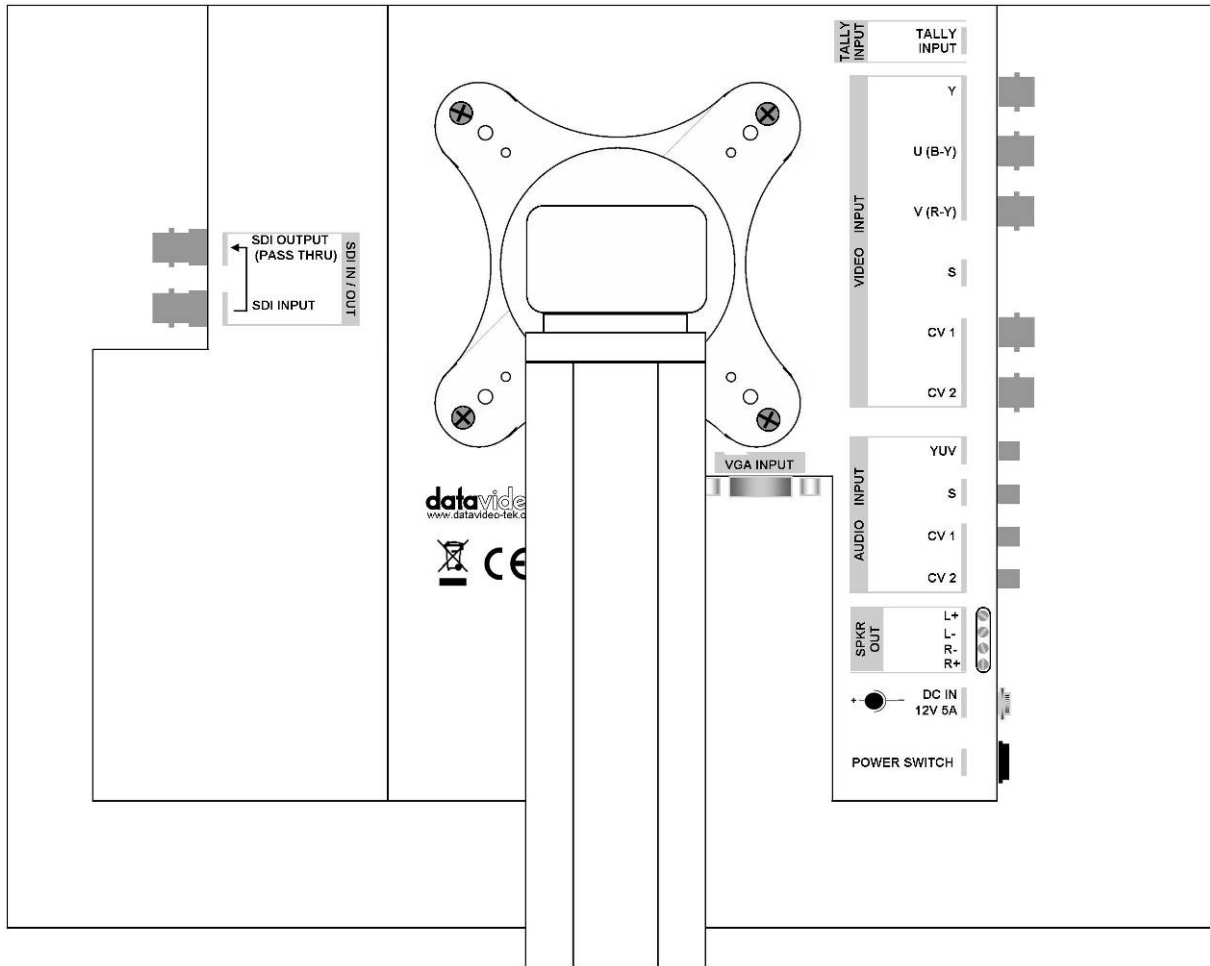


To reset the monitor press the ENTER button, so that Factory Reset is highlighted, and then press ENTER again to highlight the options column. Use the UP / Down button to select YES from the options and then press ENTER to reset the monitor. After a few seconds the monitor will be reset.

## Fitting the stand to the TLM-170 / TLM 170D

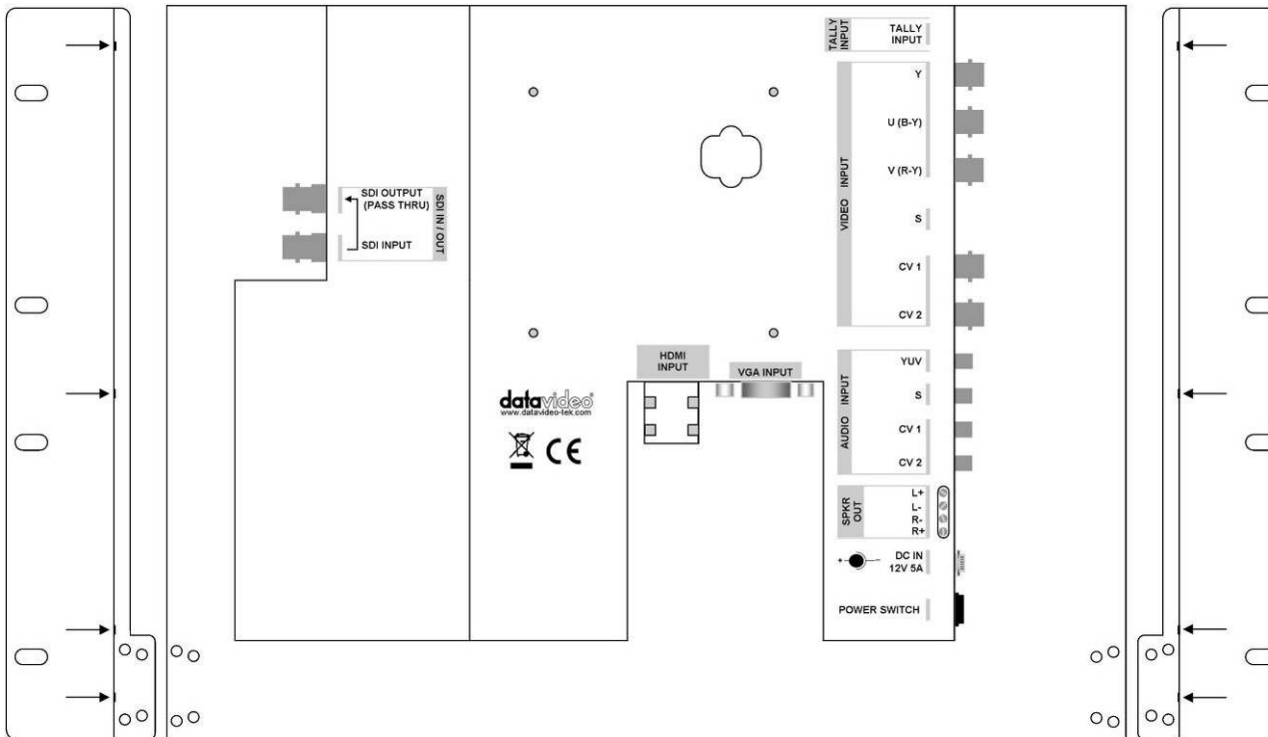
The TLM-170 / TLM-170D is supplied with a desktop stand (LA-100-2). Please refer to the LA-100-2 User Guide for adjustments to the stand, prior to fitting it to the monitor.

To attach the stand to the monitor, align the stand with the VESA 100 mounting holes on the rear of the monitor, and use the four supplied screws to secure it.

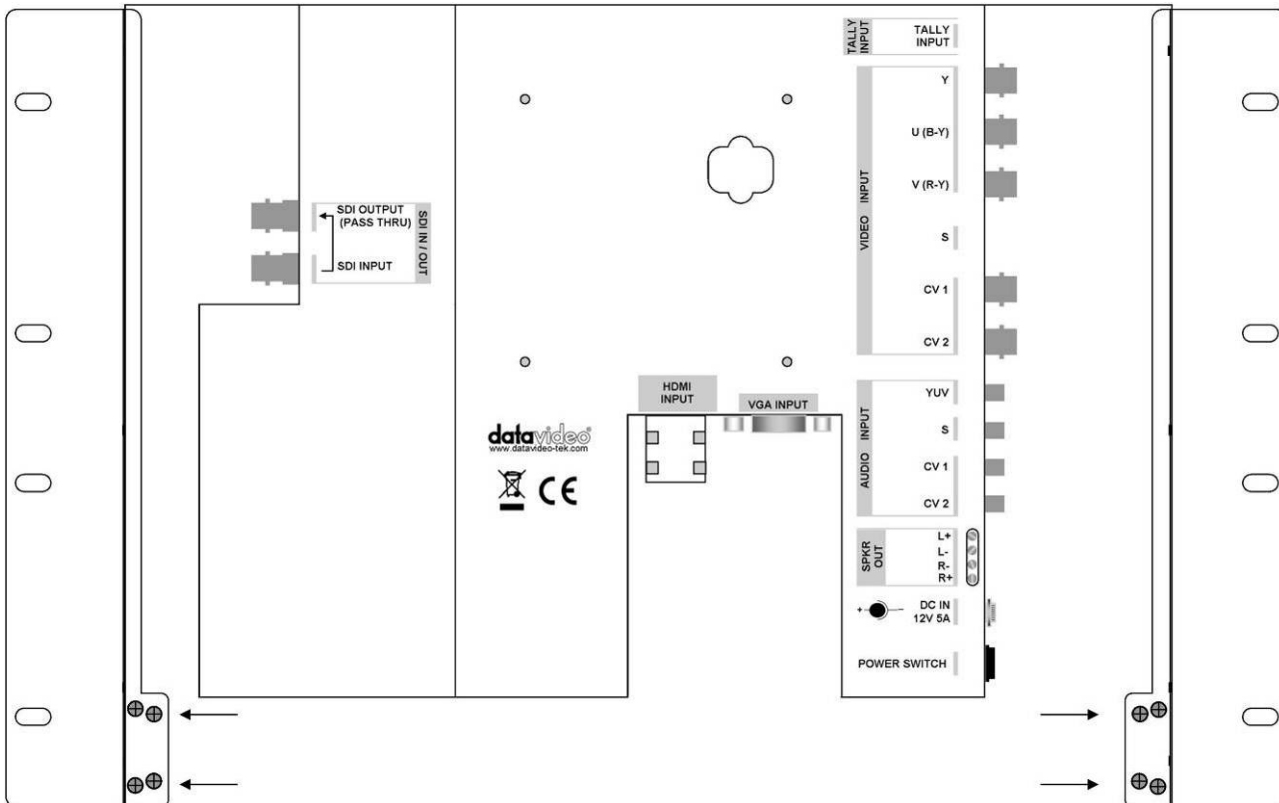


## Fitting Optional 19" Rack Ears to the TLM-170 / TLM-170D

In addition to the desktop stand the TLM-170 / TLM-170D can be fitted with 19" Rack Ears, these allow the monitor to be rack mounted (19" 6U). For price and availability of these rack ears please speak to your local dealer. If purchased these ears can be fitted as follows:



Use the supplied screws to attach the left and right rack ears. You will find there are four screws either side, as illustrated above, plus additional screws at the base of each rack ear, as illustrated below.

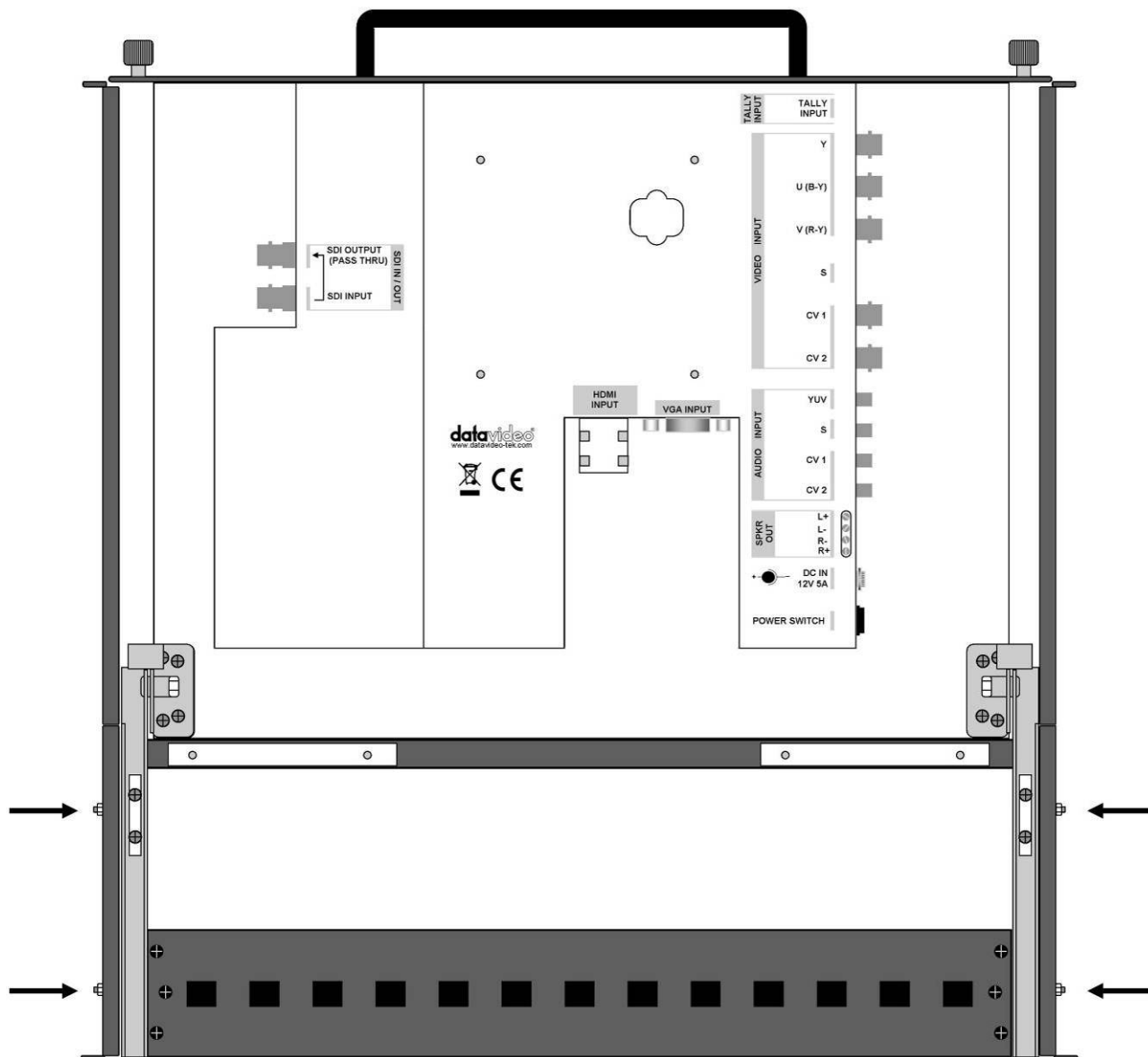


## Fitting the TLM-170M / MD to a 19" Rack

The TLM-170 M / TLM-170 MD is designed to rack mount. When folded away it is 1U high, please bear in mind that when opened for operation the monitor is 6U high, so leave adequate room for this.

The monitor is ready fitted with sliding rack rails, these have a length adjustment at the rear to suit the distance between the front and rear rack rails of your cabinet.

To adjust the length loosen the four adjustment nuts as illustrated below, and pull the side rails back as far as is required. Then re-tighten the nuts.



Mount the monitor in your rack with the rear panel facing upwards. Ensure the rack mounting screws are secured both front and rear.

Once mounted unscrew the two locking screws on either side of the front panel, and pull the monitor forward using the handle. Once the monitor is fully forward simply hinge it up into a vertical position.

To fold away, pull the top of the monitor forward, so that it hinges down to a horizontal position, then push it back into the rack until you are able to screw in the locking screws.

***N.B. When folding the monitor away be careful not to trap your fingers or scrape your knuckles on the rack cabinet.***

## Specifications

### LCD

Size	17"
Resolution	1440 x 900
Aspect Ratio	16:10 / 16:9 / 4:3
Viewing Angle	140° Horizontal / 120° Vertical
Response Time	8ms (B to W)
Contrast	700:1
Brightness	500 cd/m2

### Video Formats

#### Video Inputs

SD Video NTSC / PAL

HD Video 720/50P / 720/59P  
1080/50i / 1080/59i

#### Video Outputs

HD/SD-SDI Loop Through Output (TLM-170D / MD models only)

### Audio Inputs

Unbalanced mono audio inputs for CVBS1 / CVBS2 / SVIDEO / Component  
HDMI Audio Input

### Audio Outputs

Terminal Connection for speaker outputs (2 Watt)  
Maximum output for speaker in FP is 2 Watts  
Headphone Socket 3.5mm Stereo Jack

### Video Adjustments

Brightness	0 ~ 100
Contrast	0 ~ 100
Colour	0 ~ 100
Tint (NTSC)	0 ~ 100
Sharpness	0 ~ 24

### Working Temperature

0° to 50° C / 32° to 122° F

### Power Requirements

DC In 12V 5.5A via 2.1mm In-Line DC Jack Socket (Lockable)

### Weight

4.3Kg

*Specifications are subject to change without notice.*

## Service and 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-tek.com](http://www.datavideo-tek.com) for answers to common questions, support requests or contact your local office below.

Datavideo Global Website: [www.datavideo-tek.com](http://www.datavideo-tek.com)

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