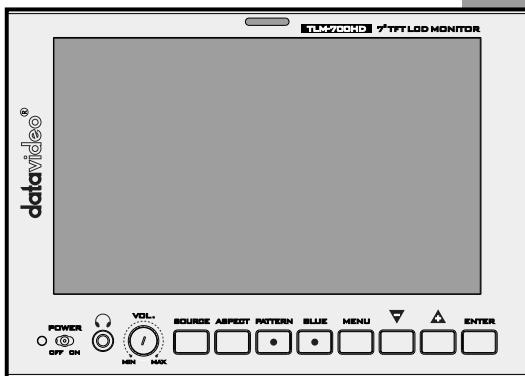


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7" TFT LCD MONITOR TLM-700HD Instruction Manual

www.datavideo.com

Welcome to the TLM-700HD Instruction Manual



Thank you for choosing a Datavideo product, please visit the support pages on our website for the latest version of the instruction manual.

<http://www.datavideo.info/LCD+Monitors/TLM-700HD>

Don't forget to register your product online to qualify for an additional free one year extension to the standard warranty, and to receive information from Datavideo on service & information relevant to your Datavideo product including new software updates & drivers

Warranty

Standard Warranty

- Datavideo equipment is guaranteed against any manufacturing defects for one year from the date of purchase.
- The original purchase invoice or other documentary evidence should be supplied at the time of any request for repair under warranty.
- Damage caused by accident, misuse, unauthorized repairs, sand, grit or water is not covered by this warranty.
- All mail or transportation costs including insurance are at the expense of the owner.
- All other claims of any nature are not covered.
- Cables & batteries are not covered under warranty.
- Warranty only valid within the country or region of purchase.
- Your statutory rights are not affected.

Two Year Warranty

- All Datavideo products purchased after 01-Oct.-2008 qualify for a free one year extension to the standard Warranty, providing the product is registered with Datavideo within 30 days of purchase. For information on how to register please visit www.datavideo.com or contact your local Datavideo office or authorized Distributors
- Certain parts with limited lifetime expectancy such as LCD Panels, DVD Drives, Hard Drives are only covered for the first 10,000 hours, or 1 year (whichever comes first).
- Any second year warranty claims must be made to your local Datavideo office or one of its authorized Distributors before the extended warranty expires.

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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.

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.

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 slightly damp cloth for cleaning.
4. Do not use this unit in or near water.
5. Do not place this unit on an unstable surface, cart, stand, or table. The unit may fall, causing serious damage.
6. Any slots and openings on the case 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 may become blocked. This unit should never be placed near or over a heat source 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, damaged 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 case 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 case has been damaged;
 - f. When the product exhibits a distinct change in performance, indicating a need for service.

Packing List

Items	Description	Q'ty
1	TLM-700HD	1
2	Sunshield	1
3	Switching Adaptor DC 12V/1A	1
4	Instruction Manual	1

Introduction

The Datavideo TLM-700HD is a 7 Inch monitor designed for use in the field or in a studio. The TLM-700HD can be powered from a standard V-Mount battery connection or by mains power. It is rugged and easy to carry with a variety of professional features and connections that make it easy for set up and intuitive to use.

Features

- 7" 16:9 Wide Screen Panel
- Resolution: 800 x 480 dots
- View Angle (V)+60/-40°, (H)+60/-60°
- HD/SD-SDI, YUV, HD-YUV, HDMI & CV Input
- Internal colour bar
- Blue only function
- Audio indicator for SDI, HDMI
- Safe Area indicator
- VITC time code display
- Dual colour tally light indicator
- Brightness, Contrast, Colour, Tint Adjustable
- Colour Temp* adjustable
- Audio Level indicators
- NTSC / PAL Auto Switching
- 4:3 / 15:9 / 16:9 switchable

* can be set to 9300, 7500, 6500, 5400 or USER RGB values.

Supported Formats

■ HDMI YUV

- 720 x 576i x 50 Hz
- 720 x 480i x 60 Hz
- 1280 x 720p x 50 Hz
- 1280 x 720p x 60 Hz
- 1920 x 1080i x 50 Hz
- 1920 x 1080i x 60 Hz

■ SDI

- 720 x 576i / 50 Hz
- 720 x 480i / 60 Hz
- 1280 x 720p / 60 Hz
- 1280 x 720p / 50 Hz
- 1920 x 1080i / 50 Hz
- 1920 x 1080i / 60 Hz

■ CV

- 720 x 576i (PAL)
- 720 x 480i (NTSC)

■ HDMI RGB

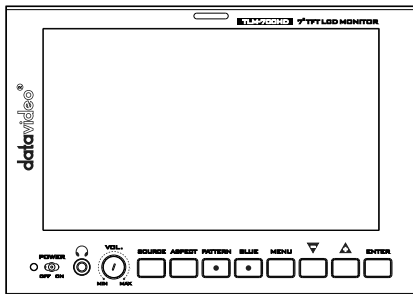
- 720 x 576i x 50 Hz
- 720 x 480i x 60 Hz
- 1280 x 720p x 50 Hz
- 1280 x 720p x 60 Hz
- 1920 x 1080i x 50 Hz
- 1920 x 1080i x 60 Hz

■ YUV

- 720 x 576i x 50 Hz
- 720 x 480i x 60 Hz
- 1280 x 720p x 50 Hz
- 1280 x 720p x 60 Hz
- 1920 x 1080i x 50 Hz
- 1920 x 1080i x 60 Hz

Connections & Controls

Front Panel



Power Switch

Switches the power On / Off.



Stereo Headphone Mini Jack socket

The level is adjusted by headphone volume control.

Listen to embedded audio from HDMI or SDI sources.



Headphone Volume Control

Allows you to adjust the headphone volume.



Source Button

Selects Input include SDI, YPbPr, CVBS, and HDMI.



Aspect Ratio Button

Select 4:3, 15:9, or 16:9



PATTERN

Generate on colour bars.



BLUE

For blue only display to allow accurate chroma and phase adjustments with NTSC signals.



MENU

Calls up the on-screen adjustment menu (See Page10 Menu Options for more details).



UP / DOWN

Menu navigation controls.



ENTER

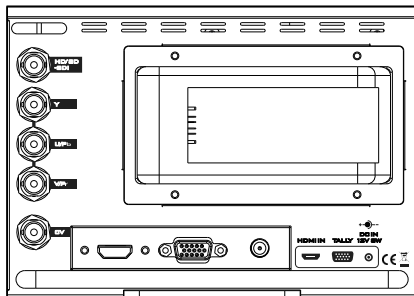
Confirms the new settings or return to the default state.



TALLY LIGHT

Red = Live
Amber = Standby

Rear Panel

**HD/SD - SDI input**

BNC connector for SDI Input.

**YUV input**

BNC connectors for Analogue (Component) video inputs.

**Composite video input**

BNC connector for Analogue (Composite) video input.

**HDMI in interface**

Supports HDMI 1.1

**Tally In**

Sends in red and amber colour tally signal to tally LED. Red means on-air, amber means standby.

**DC in socket**

Connects the supplied 12V 1A PSU to this socket. The connection can be secured by screwing the outer fastening ring of the DC In plug to the socket.

Menu Options

1. Picture (Screen Setup)

Picture setting

- Press the MENU button once to display the Picture setting menu.
- Press the ENTER button to highlight the Brightness setting.
- Press the UP or DOWN button to highlight the setting that needs to be adjusted.

Brightness

- Press ENTER button to select the Brightness setting.
- Press the UP or DOWN button to adjust the Brightness value between 0 and 100.
- Press ENTER button again to save and return to the Picture setting menu; now highlight another Picture setting to be adjusted. To select a different setting (**Contrast, Saturation, Tint, Color Temp***) use the UP / DOWN buttons. Follow the same procedure to set the other values.
- Keep pressing the MENU button to cycle through the main menu options.
- Press the SOURCE button to exit the menu mode.

* **N.B.:** Color Temp can be set to 9300, 7500, 6500, 5400 or USER RGB values.

2. Audio (Audio Indicator)

- Press the MENU button twice to display the Audio setting menu.
- Press the ENTER button to highlight the Indicator setting.
- Press the ENTER button again to toggle the on screen audio indicator ON/OFF.
- Keep pressing the MENU button to cycle through the main menu options.
- Press the SOURCE button to exit the menu mode.

3. Function (Center Mark, Safety Zone)

- Press the MENU button three times to display the Function. Settings menu.

Center Mark

- Press the ENTER button to highlight the Center Mark setting.
- Press the ENTER button to toggle the on screen Center Mark ON/OFF.

Safety Zone

- Press the UP or DOWN button to highlight the Safety Zone setting.
- Keep pressing the ENTER button to cycle through the values **80%, 90%** or **OFF**.
- Press the UP or DOWN button to exit the Safety Zone setting. To select a different setting (**4:3 Screen, Cinema Zone**) use the UP or DOWN buttons. Follow the same procedure to set the next setting.
- Keep pressing the MENU button to cycle through the main menu options.
- Press the SOURCE button to exit the menu mode.

4. Setup (On Screen Display, Time Code)

- Press the MENU button four times to display the Setup setting menu.

OSD Timer

- Press the ENTER button to highlight the OSD Timer setting.
*** N.B.: OSD Timer sets how long the setting menus will stay on screen.**
- Press the ENTER button again to display the OSD Timer setting position.
- Press the UP or DOWN button to set the OSD value between 5 to 60 SEC.
- Press ENTER button to save the OSD value.

OSD Blending

- Press the UP or DOWN button to highlight the OSD Blending setting.
*** N.B.: OSD Blending sets how transparent the setting menus will be on screen.**
- Press the ENTER button to display the OSD Blending setting position.
- Press the UP or DOWN button to select the OSD blending value (from 0~7).
- * N.B.: OSD Blending value 0 = Min transparency 7 = Max transparency**
- Press the ENTER button to save the OSD blending value.

Time Code

- Press the UP or DOWN button to highlight the Time Code setting.
- Press the ENTER button to toggle the on screen Time Code display ON/ OFF.

TC Position

- Press the UP or DOWN button to highlight the TC Position setting.
*** N.B.: TC Position is used to set where on the monitor Time Code will be shown.**
- Press the ENTER button to cycle through the possible Time Code Positions on the monitor (Left/Up, Middle/Down, Right/Down, Right/Up)

TC HD Line

- Press the UP or DOWN button to highlight the TC HD Line setting.
- Press ENTER button to cycle through the possible HD time code lines (8~20).

TC SD Line

- Press the UP or DOWN button to highlight the TC SD Line setting.
- Press ENTER button to cycle through the possible SD time code lines (10~21).

TC Font Size

- Press the UP or DOWN button to highlight the TC Font Size setting.
- Press ENTER button to cycle through the possible time code font sizes on the screen (Large or Small).
- Keep pressing the MENU button to cycle through the main menu options.
- Press the SOURCE button to exit the menu mode.

5. Advance (LCD Display, Reset Firmware Version)

- Press the MENU button five times to display the Advance setting menu.

LCD L/R Scan

- Press the ENTER button to highlight the LCD L/R Scan setting.
 - * **N.B.: The LCD L/R Scan will reverse the image displayed horizontally.**
- Press the ENTER button, the screen image will be reversed (Left to Right).
- Press the ENTER button again, the screen image will return to normal view.

LCD U/D Scan

- Press UP / DOWN button to highlight the LCD U/D Scan setting.
 - * **N.B.: The LCD U/D Scan will reverse the image displayed vertically.**
- Press the ENTER button, the screen image will be reversed (Top to Bottom).
- Press the ENTER button again, the screen image will return to normal view.

Reset

- Press UP / DOWN button to highlight the Reset option.
 - * **N.B.: This option will return the monitor to the factory default settings.**
- Press the ENTER button to re-start the monitor with the factory default settings.

Version

- Press UP / DOWN button to highlight the Version setting.
- Press the ENTER button, the firmware version will be displayed on screen.
- Keep pressing the MENU button to cycle through the main menu options.
- Press the SOURCE button to exit the menu mode.

Calibrating Datavideo Monitors

Calibrating professional monitors is crucial. For guidance on how to calibrate a Datavideo Monitor using SMPTE colour bars please visit our website http://www.datavideo.info/specs/Datavideo_Calibrating_Monitors.pdf

Tally light indication

The TLM-700HD has a tally input connector on the rear panel; many digital video switchers can provide tally light signals to this connector. The Datavideo range of intercom systems can also be used to pass on these tally signals.



Tally In
D-sub 15pin type connector.



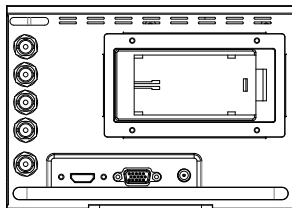
TALLY LIGHT
Red = Live
Amber = Standby

Pin 1:	Tally RED	LED On/Off
Pin 3:	Tally Yellow	LED On/Off
Pin 4, 10 :	GND	
Pin 2,5,6,7,8,9,11,13,14 :	Not used	
Pin 12,15:	Reserved – service only.	

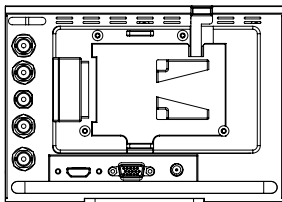
TLM-700HD Model & Battery Plate Variations

There are several versions of TLM-700HD monitor with different battery connection plates.

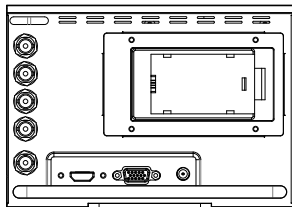
TLM-700HD-C:
with Canon battery mount



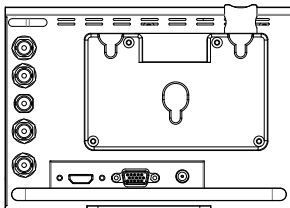
TLM-700HD:
with V-mount Battery Plate



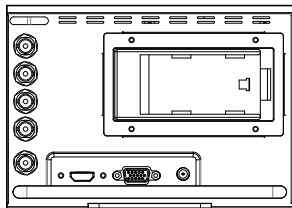
TLM-700HD-P:
with Panasonic battery mount



TLM-700HD-A:
with Anton Bauer battery mount



TLM-700HD-S1 & -S2:
with Sony battery mount



Specifications

Interface	1x HD/SD-SDI input (SMPTE 272M-C 1.5Gbps, 270Mbps with Embedded Audio) 1x Component Y.U.V Sony Betacam Spec 1x CV input 1x HDMI input 1x D-Sub 15 Pin Plug (Tally Light Signal)	
HD/SD-SDI Spec	SDI/HD-SDI Specifications	
	Standard	SMPTE 259M-C (270Mbps - 525/625 Component Video) and SMPTE 292M (1.485/1.001 Gbps)
	Connector	BNC (IEC 169-8)
	Impedance	75 Ω
	Return Loss	HD > 15 dB (5 MHz to 750 MHz) > 10 dB (750 MHz to 1.5 GHz) SD > 15 dB (5 MHz to 270 MHz)
	Equalization 200 m Belden 8281 cable at 270 Mbps; 100 m (typical) of Belden 1694A at 1.485 Gbps	
CV Spec	Bandwidth: > 5.0MHz Differential of Gain (DG) < 3% Differential of Phase (DP) < 3° S/N: > 50 dB	
YUV Spec	Bandwidth: > 5.2MHz Differential of Gain (DG) < 3% S/N: > 50 dB	
HDMI	Supports HDMI 1.1	
Operating Temperature	0°C to 40°C (32°F to 102°F)	
Humidity	10% to 90% (non condensing)	
Dimension & Weight	187mm (W) x 132mm (H) x 72mm (D) / 1.2Kgs	
Power	DC 12V / 1A (8W)	

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.

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