

**datavideo®**

**7" TFT LCD PANEL**

**TLM-70D**



**Error!**

**INSTRUCTION GUIDE**

[Http://www.datavideo-tek.com](http://www.datavideo-tek.com)

## **Warnings and Precautions**

1. Follow all warnings and instructions marked on this unit.
2. High temperature and humidity may degrade performance, the response time & brightness will drift by different temperature; Please operate panel in specified temperature and humidity.
3. Do not expose the panel to the direct sunlight and so on.
4. Do not use this unit in or near water.
5. Do not have pressure adding to the panel surface (front or rear side)
6. Do not place this unit on an unstable cart, stand, or table. The unit may fall, causing serious damage.
7. Do not display a fixed pattern for a long period of time, it will cause image sticking.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.

## **TECH SUPPORT**

Please visit [www.datavideo-tek.com](http://www.datavideo-tek.com) for answers to many questions or contact your local Datavideo offices worldwide to support this and other Datavideo products.

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## **WHAT'S IN THE BOX?**

1. AC / DC Switching Power Adaptor \* 1
2. AC Cord \* 1
4. 1.8M IEEE 1394 Firewire 6 to 4 Cable \* 1
5. 1.8M IEEE 1394 Firewire 6 to 6 Cable \*1
6. 1.2M BNC to BNC 75 Ohm Video cable \*1
7. Stereo Audio RCA 2 to 2 Cable \*1
8. Sun shade and Screws
9. Instruction Guide \* 1

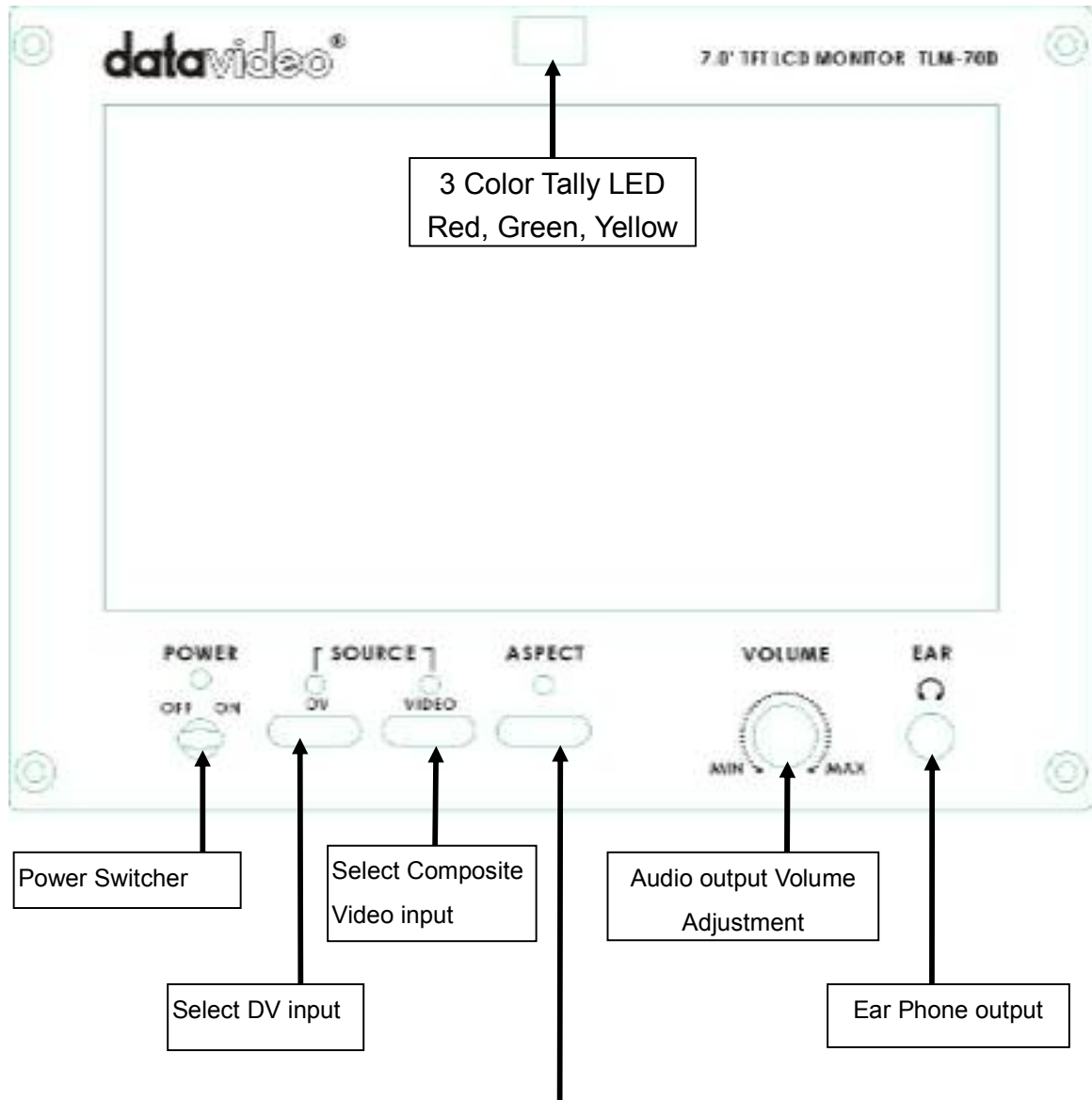
## GENERAL:

Datavideo TLM-70D is a 7" TFT LCD monitors, selectable DV/CV input video source and NTSC/PAL video format auto recognition with video pass through 75-ohm self-terminated video output connector. The "AUX" input provides options for an external SDI to RGB video format converters. The tilt hinges let you tilt the screen +/- 90 degree with contrast, brightness, color and tint (Tint only available for NTSC) controls for a best view quality of display.

## SPECIFICATIONS:

- LCD Display 7" TFT LCD active matrix, resolution 1440 x 234 dots
- Aspect Ratio 4:3 and 16:9 selectable
- Brightness (Luminance) 500 cd/m<sup>2</sup>
- Contrast Ratio 300
- View Angle Top: 40 deg  
Bottom: 60 deg  
Left: 60 deg  
Right: 60 deg
- Video Input CV input 1.0Vp-p, with self Loop-through output 75 Ohm-terminated  
DV Input, support DV25 NTSC 4:1:1, PAL 4:2:0  
Additional analog RGB Input for SDI format converter
- Video System NTSC/PAL auto recognition
- Color Adjustment Brightness, Contrast, Color, Tint
- Audio Input Stereo Audio Input RCA x 2  
Embedded DV Audio input
- Audio Output Stereo Audio Bypass Output RCA x 2  
Detachable Stereo Audio Speaker L/R
- Tally Indication Three-Way Tally LED indicators
- Operation condition Operation temperature from 0°C to 50°C, RH less than 90%
- Power Consumption DC12Volt, 2A
- Dimension of LCD Panel 7.5" x 5.5" x 2.5" (W x H x D)

## FRONT PANEL



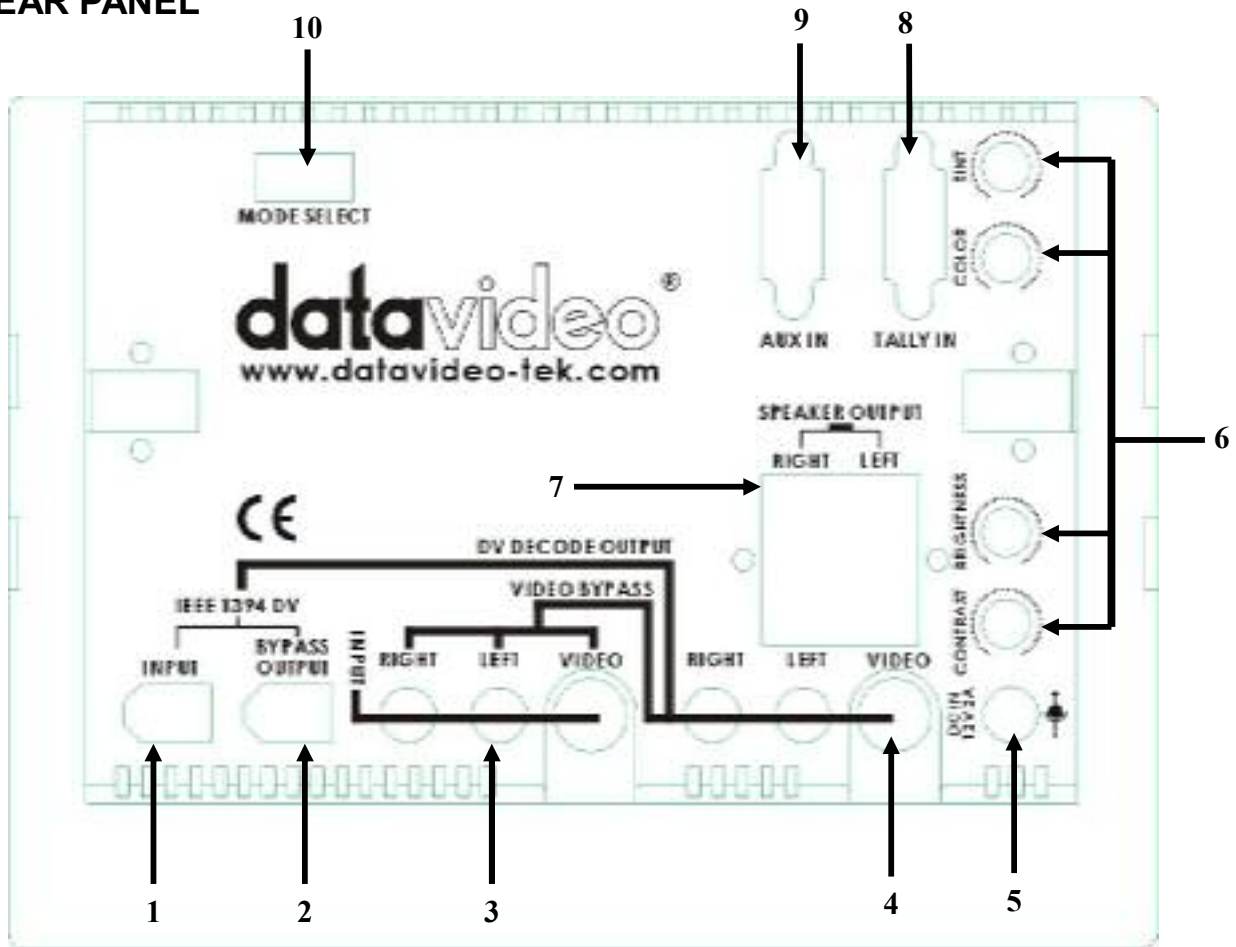
There are two groups of function's operation on this button:

Function 1: Click on the button to select three display aspects of 4:3, 16:9 or 16:9 aspect with different horizontal timing scaling.

Function 2: Push and hold on the button 2 seconds to select display effects;  
Release the button to enable the selected effect accordingly.

- 1). Push and hold on the button 2 seconds to select "Mirror" effect.
- 2). Keep holding for another 2 seconds to flip the video "Up Side Down".
- 3). Keep holding for another 2 seconds to back to normal display mode.

## REAR PANEL



1. **DV Input:** Support DV25, NTSC 4:1:1, PAL: 4:2:0
2. **DV Loopthru Output**
3. **CV and Stereo Audio Input.**
4. **Video/ Bypass Output and Audio Line out**
5. **DC power input:** 12V, 2.0Amp
6. **Color adjustments:** Brightness, Contrast, Color, Tint for CV input, DV input can adjust only the Brightness
7. **Stereo Audio Speaker Output L/R**
8. **Tally LED Control Input (D-Sub 15-Pin):** D-Sub 15 pins connector on the rear panel. It works by closing contacts between a ground pin and the corresponding LED pin as following pin out table. **Do not give power to the pins.**

LED	Red	Green	Yellow
Pin	1-4 short	2-4 short	3-4 short

**9. AUX Video Input (D-Sub 9-Pin):**

An additional video input terminal with RGB and Sync input interface. Connect the Pin 7 to Ground (Short the Pin 7 & 8) to activate this interface and turn on the 12VDC power output on Pin 1 & 6.

- PIN 1: 12VDC 300mA output
- PIN 2: Video "R"Input
- PIN 3: Video "G"Input
- PIN 4: Video "CV\_Sync"Input
- PIN 5: Video "B"Input
- PIN 6: 12VDC 300mA output
- PIN 7: SDI Switch (Connect to Ground to enable RGB Input of Pin 2-5)
- PIN 8: Ground
- PIN 9: Ground

**10. DIP Switch setting for DV Input mode select**

Please refer to the setting below for proper operation. (See Note 1 below)

- **S1.** PAL or NTSC (PAL-ON, NTSC-OFF)
- **S2.** NTSC setup level 7.5 IRE / 0 IRE (ON: 0 IRE, OFF: 7.5 IRE). (See Note 2 below)
- **S3.** Locked Audio (OFF: Locked Audio, ON: Unlocked Audio, factory default)
- **S4 & S5** setting for different PC Operation System

<b>S5</b>	ON	<b>S4</b>	ON	MAC OS (See Note 3 below)
			OFF	Windows 2000 and Windows 98
<b>S5</b>	OFF	<b>S4</b>	ON	Windows XP and Windows ME
			OFF	DV Camera mode

- **S6.** Factory setting (OFF), please do not change.

- \*. **Note 1:** Reboot TLM-70D if you change a DIP Switch  
Turn-on TLM-70D before launching any NLE software
- \*. **Note 2:** NTSC 0 IRE is most often used in Japan  
NTSC 7.5 IRE is used elsewhere  
\*. PAL Video is always at 0 IRE mode
- \*. **Note 3:** To work with a DV source from MAC with Final Cut Pro:
  - 1). Select "Preferences" from Final Cut Pro menu
  - 2). Select "General" page
  - 3). Uncheck "Abort capture on dropped frame"
  - 4). Uncheck "Abort capture on time code break" for Final cut pro
  - 5). Click OK button

## LCD Sunshade Installation

Two Sunshade screws

Sunshade sheet



Step-1. Remove two screw covers on LCD panel



Step-2 Put on Sunshade cover and locate two screw holes position





**Step-3 Fasten two Sunshade screws**



**Step-4 Correctly installed LCD Sunshade**



## APPLICATION EXAMPLE



(TLM-70D Mounting on Wall)



Additional accessories --- BH-05  
The application to install TLM-70D  
on a DV Cam by using BH-05



(TLM-70D on DV Cam)

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