



LCD-703HD Series  
High Definition  
7.0" TFT LCD Monitor



Model : LCD-703HD (Stand Alone)



Model: LCD-703HD2 (19" Rack Mount unit)

[www.totevision.com](http://www.totevision.com)

The LCD-703HD Series features our completely Digital million pixel TFT LCD high resolution screen, excellent color reproduction. Analog signals are digitized using an advanced 10 bit process with 4x over sampling and adaptive 5 line comb filter plus exacting color space conversion. Video is scaled to fit on screen in the highest resolution using a state of the art Triple gate technology LCD panel that incorporates with precision Gamma correction to product the best images available.



- High Resolution 7.0 inch wide screen 800xRGBx480 Dots with 1.2 million pixels
- Ultra low power consumption using 24 long life LED back light
- Runs 6 hours on optional 2600 MAh rechargeable battery(model: BP-563)
- Durable metal enclosure with VESA and 1/4-20 Mount holes
- Triple gate technology Antireflective/Antiglare coated TFT LCD
- 100% digital processing high resolution scaling of all images
- Analog signals converted to 10 bit digital
- Wide viewing radius - 130° horizontal and 120° vertical provides superior visibility
- 350 candelas per square meter (cd/m<sup>2</sup>) luminance produces enhanced image quality
- 300:1 ratio of contrast between black and white luminance values with response rates less than 22 ms results in excellent quality for motion images
- Video loss detect, Under scan feature
- 4:3 and 16:9 screen aspect ratios
- Automatic NTSC/PAL format detection
- **Standard inputs:**
  - Composite Video PAL/NTSC with BNC loop output
  - S-Video IN / OUTPUT
  - DVI INPUT
  - RS-232 and TALLY INPUT
  - HD/SD Component YPrPb with BNC loop out
  - 2.1mm center pin D.C. power jack
- Easy to see three color TALLY indicators
- Blue Screen for color adjustment
- Adjustment Settings Memory
- Includes ¼-20 mounting pad



## Electrical Specifications

Display (Viewing Area)	7" (6.0"H x 3.6"V) (152.4mm x 91.44mm)
Viewing Angles	130°H x 120°V
Resolution (RGB Dots)	800H x RGB x 480V (1.2 million pixels)
Contrast Ratio	300:1
Gamma	2.2
Luma Linearity	Typical +/- 3% with 5 ire increments (0 to 10 ire)
Dot Pitch	0.1905mm H x 0.1905mm V
Pixel Response	22ms average
Screen Refresh Rate	50/60 Frames per second
Backlight Type / Life	LED / 20,000 to 30,000 Hours Typical
Brightness	350 cd/m <sup>2</sup>
System	NTSC/PAL auto recognition
Inputs	Analog Component (YPrPb / YCrCb / Y R-y B-y) (3 BNC) Analog Composite (BNC) S-Video (Y/C) (4 pin mini din female) DVI, RS-232/TALLY (DB-9 Female)
Active Outputs <small>Available when power is applied</small>	S-Video (Y/C) (4 pin mini din female)
Passive Outputs <small>Available all the time</small>	Component Video (3 BNC) Composite Video (BNC)

## Mechanical Specification

	LCD-703HD	LCD-703HD2	LCD-703HDL
Dimensions (mm)	174x133x35	241x133x35	215x175x35
Approx. Weight(gm)	850	2,000	1,000
Power Consumption	5-20 VDC, Approx. 5 Watts		
Operating Temperature	-20° C to 60° C Ambient		
Storage Temperature	-30° C to 80° C		

### Standard Accessories

- Remote Control
- User manual

### Optional Accessories

- Custom tote bag, model TB-703

## LCD Panel Cleaning

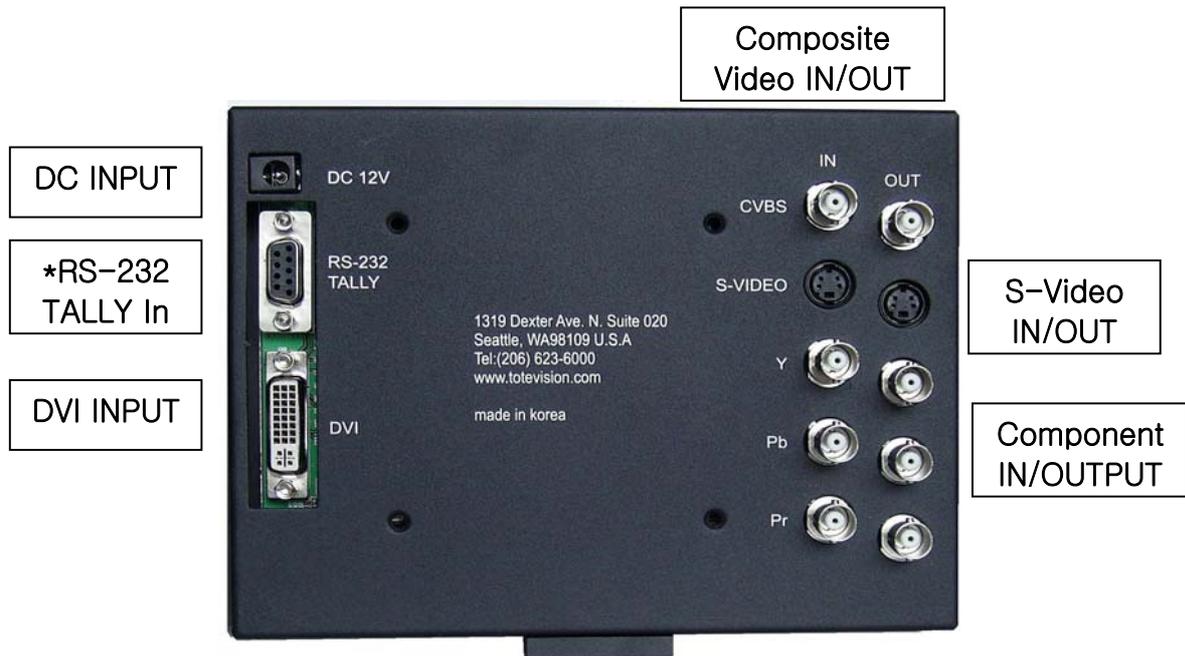
When cleaning the LCD Panel it is very important to use non-abrasive and ammonia free cleaning agents and a clean micro fiber clothe, or cheese clothe. Do not use paper towels. Paper towel fibers are coarse and may scratch the surface of the LCD screen. Paper towels may also leave streaks on the surface. Antistatic and fingerprint resistant cleaning agents are recommended.

## Operational Setup

1. Unpack the LCD-703HD and accompanying remote control. Physically inspect for any damage that may have occurred during shipping. Should there be any damage, immediately contact ToteVision at 206-623-6000.
2. Connect required cables for signal input and output. Please note that power must be applied to the LCD-703HD for the S-Video outputs to be activated. All BNC connectors should be rated for 75Ω.
3. Plug the power supply into the A.C. source. Please note that power can be supplied from a variety of DC sources, such as batteries or Vehicle power. Input power range is 5.0 to 20 Volt D.C. In operation, the LCD-703HD will draw approx. 0.4 amp. @ 12VDC.
4. Turn on the LCD-703HD by tapping the power switch located on the front of the unit.
5. LED indicate selected signal source. It becomes bright if there is video loss.

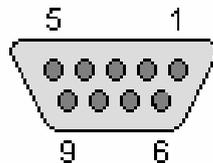
## Input Connectors

- \* Composite Video Inputs comply to SMPTE-170M
- \* Component Inputs comply to ITU-BT.601/656
- \* BNC Output always active regardless of Power ON/OFF
- \* S-Video Outputs active when power is ON.



\* 9pin D-Sub Connector pin assignment  
RS-232 /TALLY pin configuration

	5	4	3	2	1
RS-232	GND	NC	T/X	R/X	NC



	9	8	7	6
TALLY	GND	Green	RED	Yellow

**TALLY SYSTEM** - The tally system on the LCD-703HD is accessed via the DB-09 connector on the back of the unit labeled 'RS-232/TALLY'. The system works by closing the contacts between the ground pin and the corresponding LED pin. The system is self powered, **DO NOT GIVE POWER TO THE PINS.**

## Applicable signal format

Signals	Frames per Second	Aspect Ratio	Active Lines	Scanning Method	Input
525-60i	30/29.97	4:3/16:9	483	Interlaced	CVBS, Y/C, YPrPb
480i	60/59.94/50	4:3/16:9	483	Interlaced	CVBS, Y/C, YPrPb
625-50i	25	4:3/16:9	576	Interlaced	CVBS, Y/C, YPrPb
480P	60/59.94/50/30/29.97 /25/24/23.976	16:9	483	Progressive	YPrPb, DVI
720P	60/59.94/50/30/29.97 /25/24/23.976	16:9	720	Progressive	YPrPb, DVI
1035i	60/59.94	16:9	1080	Interlaced	YPrPb, DVI
1080i	60/59.94/50/48/47.96	16:9	1080	Interlaced	YPrPb, DVI
1080P	30/29.97/25/24/23.976	16:9	1080	Progressive	YPrPb, DVI

## Switch Settings, Functions and Indicators

### Tally Indicators



CVBS, S-Video, YPrPb and DVI select input source and LED on when active.

Mode : select under scan or normal mode

Note: Tapping any active input signal toggles BLUE GUN On/Off.

Signal selection is active when Blue Gun is on.

Tap active selection to turn off.

Model numbers of LCD-703HD Series



LCD-703HD



LCD-703HDL



LCD-703HDX



LCD-703HDL back



LCD-703HD1 (single unit)

LCD-703HD2 (two units)