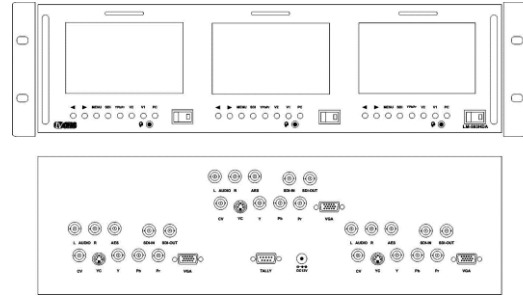




# HDTV Color Monitor

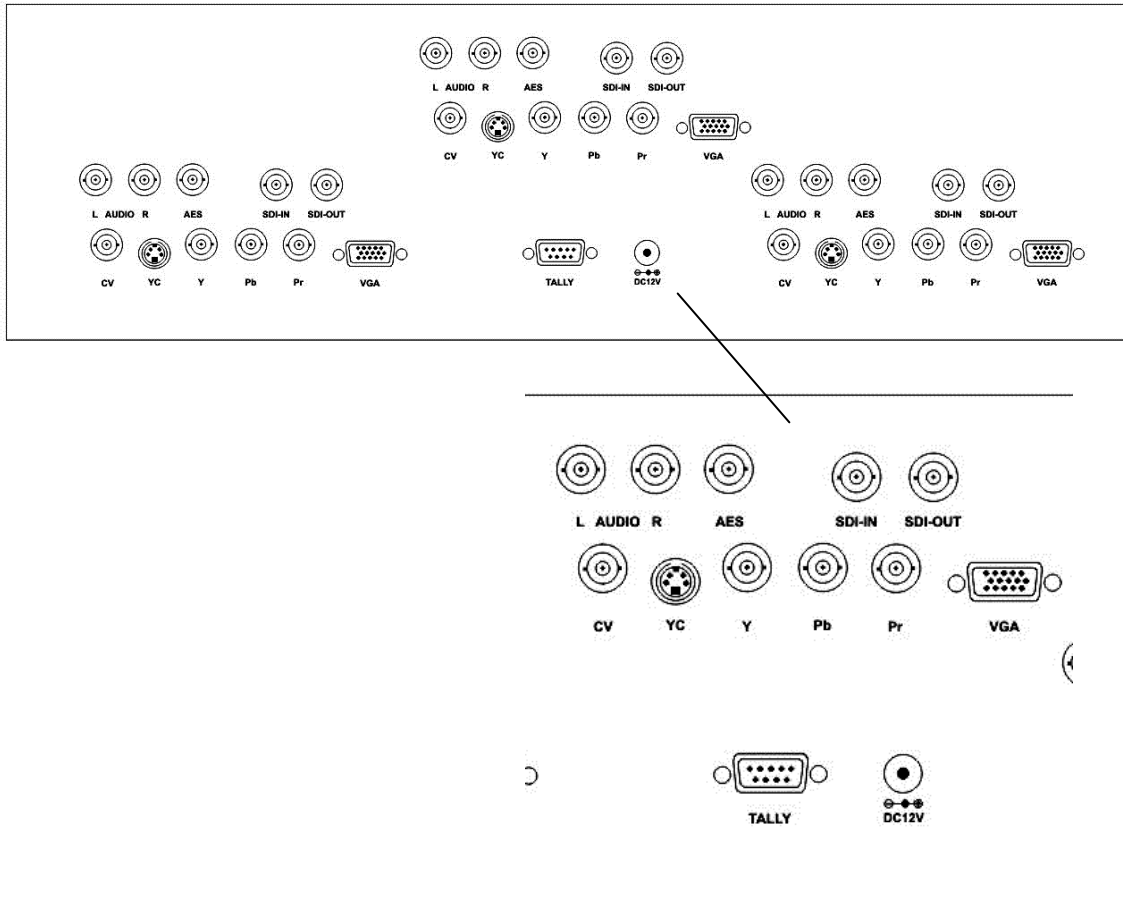
Model LM-503HDA

**LM-503HDA** is a high performance Multi-format, Triple 5" Color LCD Monitor for the broadcast and professional market. A multitude of video signal formats may be accurately monitored. The high brightness, wide viewing angle, excellent contrast ratio and high definition color result in an outstanding image. The unit features inputs for SDI (either SD or HD) with an active output, Analog RGBHV, YPbPr Component Video, a Composite Video and a YC input. NTSC and PAL Television Standards are supported and automatically detected. SDI, AES and analog audio monitoring is standard and front panel tally LED's can be activated externally via the DB9 connector. The On Screen Display (OSD) Menu contains all the necessary controls to adjust Contrast, Brightness, Sharpness, Color Level (R-G-B), and other parameters necessary for optimum monitor performance. Results of these adjustments can be viewed via the OSD. A Sync Delay (Pulse Cross) mode allows viewing of the vertical and horizontal sync and vertical blanking intervals. A Blue Only mode facilitates accurate monitor setup when viewing color bars. A rack mount kit is included that can be tilted up or down. Although the monitor has excellent viewing angles, the tilt feature can be beneficial when circumstances necessitate mounting the monitor considerably above or below normal eye level.



### Key Features of the LM-503HDA

- Inputs: SD/HD-SDI, RGBHV, YPbPr, CV & YC
- Resolutions up to 1024x768, 1080p
- High Brightness, Pro Grade LCD Panels
- 16.7 Million Colors
- 600:1 Contrast Ratio
- Blue Only and Sync Delay modes for easy setup
- Audio Monitoring and Triple Tally LED's
- 170° Left/Right and 170° Up/Down View Angles
- Vertically Tiltable Rackmount Housing
- Locking External DC Power Supply



**LM-503HDA Connector Panel Detail**



# HDTV Color Monitor

Model LM-503HDA

## Specifications

### LCD Panel

Display Size	5.0" (127mm) (Diagonal)
Display Area	4.25" x 2.55" (108 x 64.8mm)
Panel Resolution	800 x 480 (16:9)
Dot Pitch	0.135mm
Color Resolution	16.7 Million Colors
Contrast Ratio	600:1
Brightness	300 cd/m2
Response Time	25 msec
Left/Right View Angle	170°
Up/Down View Angle	170°
Aspect Ratio	4:3 or 16:9

### Video Inputs

SD/HD-SDI	1x via BNC with Active Output
Analog RGBHV	1x via HD-15 Female
Composite Video	1x via BNC Connectors
YC (S-Video)	1x via 4-Pin Mini-DIN Connector
YPbPr Component	1x via 3 BNC Connectors

### SD/HD-SDI Input Range

SDTV	480i, 576i
HDTV	1080P/30Hz, 1080P/29.97Hz, 1080P/25Hz, 1080P/24Hz, 1080P/23.98Hz 1080i/60Hz, 1080i/59.94Hz, 1080i/50 1035i/60Hz, 1035i/59.94Hz 720P/60Hz, 720P/59.94Hz, 720P/50

### Analog Component Input Range

SDTV	480i, 576i
HDTV - YPbPr	480p, 576p, 720p, 1080i, 1080p

### Analog RGBHV Input Range

640x350	70, 85Hz
720x350	70, 85Hz
640x400	56, 70, 85Hz
720x400	70, 85Hz
640x480	60, 66, 72, 75, 85Hz
800x600	56, 60, 70, 72, 75, 85Hz
1024x768	60, 70, 72, 75, 85Hz

### Composite & S-Video Input Range

Vert. Frequency	NTSC 60Hz, PAL 50Hz
Horiz. Frequency	NTSC 15.75KHz, PAL 15.625KHz

### Tally Control

Tally Input	1x via DB9 Connector
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### Audio Monitoring Capability

Input Connectors	SDI, AES via BNC, Analog via RCA
SDI Input	Selectable, up to 4 Stereo Channels
AES Input	1 Stereo Channel
Analog Input	L and R Channels
Visual Audio Level	Pseudo VU Meter via OSD

### General

Display Element	Active Matrix TFT
Video Adjustments	Brightness, Contrast, Sharpness, Color Level (RGB)

TV Standards	NTSC/ PAL Auto-detect
Aspect Ratio Modes	16:9, 4:3
SD-SDI	270Mbps (525/625 Line)
HD-SDI	1.485, 1.4835Gpbs
Blue Only Mode	For Setup with Color Bars
Sync Delay Mode	For Checking Sync

### Front Panel Controls

Menu Navigation	Menu, Left, Right
Input Select	SDI, YPbPr, CV, SV, PC (RGBHV)
Power	On/Off

### Limited Warranty

Unit, except LCD	3 Year Parts and Labor
LCD Panel	Panel Manufacturer's Terms

### Mechanical

Size (H-W-D)	132.0x483.5x175mm(5.2"x19"x6.9")
Weight (Net)	6 kg (13.2 lbs.)
Rackmount	3RU - Tilt Up/Down

### Environmental

Operating Temperature	0° to +50° C (+32° to +122° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-10° to +60° C (+14° to +140° F)
Storage Humidity	10% to 90%, Non-condensing

### Power Requirement

External Power Supply	100-240VAC@36Watts for 12 VDC
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### Regulatory Approvals

Monitors	FCC, CE, RoHS
Power Supplies	UL, CUL, CE, PSE, GS, RoHS

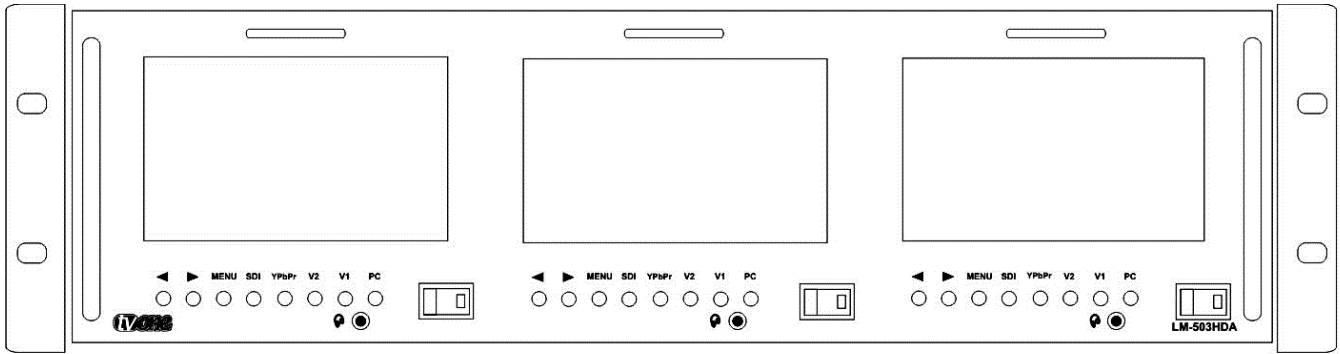
### Accessories Included

1x Power Adapter	US, UK or Euro
1x Operations Manual	
4x Rackmount Screws	

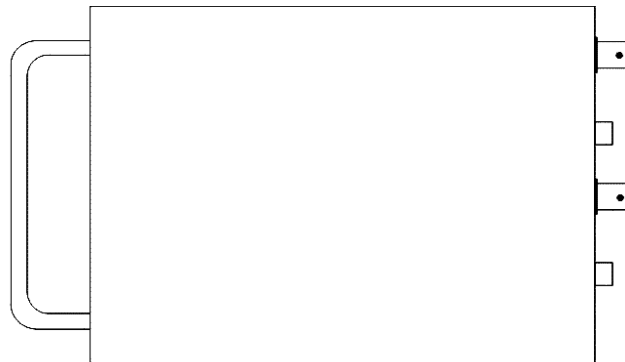
### Product Item Number

LM-503HDA	Triple 5" Rack Mount LCD Monitor
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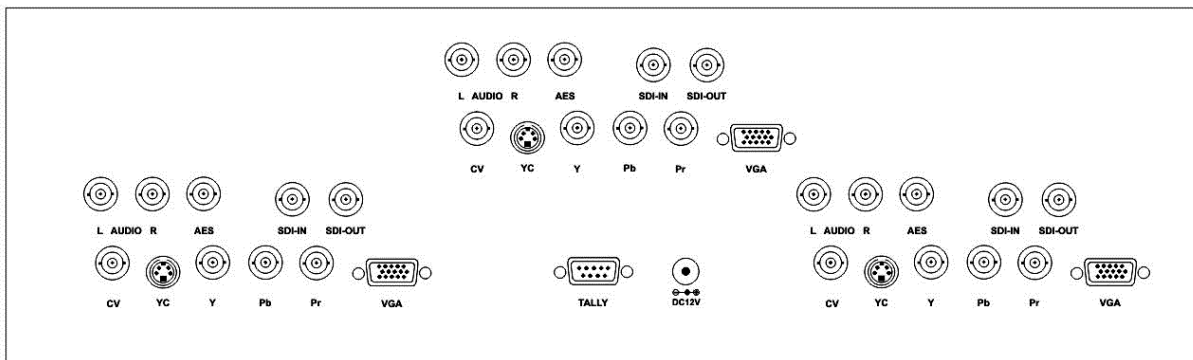
**Panel Drawings**



**LM-503HDA Front Panel**



**LM-503HDA Side View**



**LM-503HDA Connector Panel**