

**TAMUZ
MONITORS**

HCM 124W HD

LCD Monitor for HDSDI



**FullHD large screen HDTV Monitor
with native resolution and 4:2:2/4:4:4 HDSDI inputs**

- high-resolution (94 dpi) 24" active TFT LCD color display
- wide viewing angles, high brightness (250 cd/m²) and contrast
- 16:9 aspect ratio screen, normal and overscan mode
- Broadcast Quality video interface, showing the full video image
- MultiSync and MultiFormat capability
- multiple video inputs for HDSDI and SDI
- native pixel-to-pixel processing for serial 1.5 Gbit/s or DualLink HDSDI inputs
- native pixel-to-pixel processing for serial 270 Mbit/s SDI inputs
- analog inputs for YUV and graphic sources
- professional and reliable input connectors
- OSD menu for brightness, contrast, color, formats and input selection
- rugged, but an elegant slim design
- lightweight full metal frame
- anti-reflective glass protection filter
- AAC Automatic Calibration and Alignment with color probe PM 5639-T capable
- DC powered by external 24 V DC sources



**High-End Monitoring Solutions for
Broadcast, Industrial, Medical, Office, Entertainment,
Surveillance, Military or Aviation applications!**

FullHD LargeScreen MultiFormat Flatpanel Monitor

The **FALCON** series is a High Quality LCD Monitor series for HDTV applications. Inputs for serial digital video signals, accept any HD format in 4:2:2 and/or 4:4:4 formats. Applicable as a desktop monitor when the stand is fitted, additionally equipped with VESA75/100 threads.

Technical Specifications:

Screen Type: active matrix color TFT, MVA technology
 Screen Size: 24" wide
 Screen Format: 16:9 aspect ratio
 Pixel Resolution: 1920 x 1080 RGB dots
 Screen Resolution: 94 dpi
 Color Resolution: 16 million colors
 Color Temperature: 6500°K nominal
 Color Temp. Range: 3200 to 9300 °K select and adjustable
 Luminance: max. 350 cd/m²
 Contrast: >500:1
 Response Time: 15 ms, typical
 Viewing Angle H: ±80° horizontal
 Viewing Angle V: ±80° vertical
 Backlight: multiple CCF Lamps
 Backlight Lifetime: >50.000 h's
 Screen Classification: A Grade
 Screen Certification: ISO 13406-2, Cl. 2

Tally Light: LED in front as option
 Tally Feature: closed contact at GPI/O port
 Tally Connector: Sub-D 9pin

Power Requirements: DC 24 V +15% / -15%
 Power Connector: XLR-5M
 Power Consumption: 80 W (@ HCM 124W HD)
 Power Safety: ground on frame

External Power Supply: Switching Power Supply
 External Voltage: AC 100-240 V ±10%, 50-60 Hz
 Mains Connector: IEC-320 3pin
 DC Output Connector: XLR-45

Housing: full lightweight metal
 Frame Color: coated RAL 7016
 Front Cover: solid aluminum faceplate
 Front Color: golden colored or black anodized
 Panel Protection: non-glare anti-reflective glass filter
 Dimensions: 640 (W) x 420 (H) x 70 (D) mm
 Weight: 11,8 kg
 Frame Mounting: desktop stand
 VESA Mounting: VESA100 threads at rear

Environment: 0 to +45°C, operation
 Storage: -30 to +60°C, 5 to 90% humidity
 Certification: CE, EN 50082-2, EN 55022

Accessories: desktop stand, IR Remote, manual

Interface Type: TAMUZ FALCON
 Interface Characteristic: HDTV MultiFormat
 Image Processing: HiRes digital pixel mapping
 Video Processing: HiRes digital pixel mapping
 Serial Digital Processing: native SMPTE 292M or 352M
 Aspect Ratio: 16:9, full image as standard
 Active Area: 1920 x 1080 RGB dots
 Anamorphic Filter: no
 Overscan Mode: Yes
 Markers: no, option
 Operation: OSD Menu
 Remote Operation: IR remote, RS 232, 10/100 baseT

SD/HD-SDI Inputs: 10 bit, 1.5 Gbit/s
 800 mVpp, SingleLink, 4:2:2
 800 mVpp, DualLink, 4:4:4
 SD/HD Formats: SMPTE 260M / 274M / 269M / 352M
 1080i @ 30 / 29.97 / 25
 1080p @ 30 / 29.97 / 25 / 24 / 23.98
 720p @ 60 / 59.97 / 50
 576i @ 25
 480i @ 30
 SD/HD-SDI Impedance: 75 Ohm terminated
 SD/HD-SDI Connector: BNC 75 Ohms type

USB port: USB2 support for adjustments in the digital processing

Graphic Input: W-UXGA 1920 x 1080, native
 Graphic Formats: CGA, EGA, VGA, SVGA, W-SVGA, XGA, W-XGA, SXGA, W-SXGA, UXGA, MAC, Hercules and more
 Sync Mode: HV, RGsB, RGBS, composite
 V-Sync: Vmin = 23 Hz, Vmax = 110 Hz
 H-Sync: Hmin = 15 kHz, Hmax = 85 kHz
 Graphic Connector: Sub-D 15pin HD

Component Input: 700 mVpp, 5 MHz ±0.2 dB
 Component Formats: RGB/YUV
 Component Standards: 625/50, 525/60, auto detection
 Component Sync: composite, Sync on Green
 Component S/N: >65 dB
 Component Impedance: 75 Ohm active loop through



TAMUZ FALCON monitors are available as version HD (SD/HD-SDI, analog video plus VGA inputs) or HD-DL (additional DualLink SDI inputs). All monitors are equipped with the AAC feature for Automatic Alignment and Calibration with a probe PM5639T.



Handmade In Germany

TAMUZ Monitors GmbH ~ Tiedenkamp 16 ~ D-24558 Henstedt-Ulzburg
 tel and fax: +49 - (0)700 - TAMUZLCD [826 895 23]

www.tamuz.tv