

TAMUZ

LCD VIDEO MONITORS

HCM 142W

LCD Monitor for CCVS, SDI, HDSDI and VGA



An exclusive multi-format Video and Graphic monitor series in an elegant slim aluminum housing.

- high-resolution (37 dpi) 42" active TFT LCD color display
- wide viewing angles, high brightness (500 cd/m²) and contrast
- 16:9 aspect ratio screen, selectable into 4:3 mode, overscan mode
- Broadcast Quality video interface, showing the full video image
- MultiSync and MultiFormat capability
- internal ITU-R601 video signal processing
- multiple video inputs for Composite, YC, Component, SDI and HDSDI
- native processing for serial 270 Mbit/s SDI inputs
- native scaling process for serial 1.5 Gbit/s HDSDI inputs
- multiple graphic inputs for RGBHV, RGB or RGBS (W/XGA native)
- professional and reliable input connectors
- OSD menu for brightness, contrast, color, formats and input selection
- user programmable direct keys for quick operation
- IR remote controller and RS 232 control port
- Tally light at front, GPI&O port
- rugged, but an elegant slim design
- lightweight full metal frame with VESA100/200 threads
- anti-reflective glass protection filter
- DC powered by external 12 V DC sources



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

LargeScreen MultiFormat Flatpanel Monitor

High Quality LCD Monitor's for multiple purpose. Inputs for analog SD and serial digital SD/HD video signals, analog and digital graphic signals, capable to accept any format or standard in most common sync technologies.



Technical Specifications:

Screen Type: active matrix color TFT, ISP technology
 Screen Size: 42" wide
 Screen Format: 16:9 native aspect ratio
 Pixel Resolution: 1366 x 768 RGB dots
 Screen Resolution: 37 dpi
 Color Resolution: 16 million colors
 Color Temperature: 6500°K nominal
 Color Temp. Range: 3200 to 9300 °K select and adjustable
 Luminance: 500 cd/m²
 Contrast: 450:1
 Response Time: 15 ms, typical
 Viewing Angle H: ±85° horizontal
 Viewing Angle V: ±85° 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 on request
 Tally Feature: closed contact at GPI/O port
 Tally Connector: Sub-D 9pin

Power Requirements: DC 12 V +10% / -10%
 Power Connector: XLR-4M
 Power Consumption: 210 W (@ HCM 142W DBH) operational
 280 W at Power ON
 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-4F

Housing: full lightweight metal
 Frame Color: coated RAL 7016
 Front Cover: solid aluminum faceplate
 Front Color: golden colored anodized
 Panel Protection: non-glare anti-reflective glass filter
 Dimensions: 1060 (W) x 680 (H) x 110 (D) mm
 Weight: 30 kg
 VESA Mounting: VESA100/200 threads at rear

Environment: 0 to +50°C, operation
 Storage: -30 to +60°C, 5 to 95% humidity
 Certification: CE, EN 50082-2, EN 55022

Accessories: IR remote, manual
 Options: solid metal desktop stand

Interface Type: TAMUZ "EAGLE"
 Interface Characteristic: Broadcast MultiSync MultiFormat
 Image Processing: scanning free scalable to any ratio
 Video Processing: HiRes digital adaptive Comb Filter
 Serial Digital Processing: native 4:2:2, 10 to 8 bit dithering
 Aspect Ratio: 16:9 normal, 4:3 selectable
 Anamorphic Filter: adjust- and selectable
 Operation: OSD Menu, remote controlable
 Remote Operation: IR Controller, RS232

Graphic Input: W-XGA 1280 x 768, 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

Composite Video Input: 1 Vpp, 5 MHz ±0.2 dB
 YC Video Input Y: 1 Vpp Y, 5 MHz ±0.2 dB
 YC Video Input C: 850 mVpp C, 2.5 MHz ±0.2 dB
 Video Sync: composite
 Video S/N: >65 dB
 Video Standards: 625/50, 525/60, auto detection of PAL,
 NTSC, SECAM
 Impedance: 75 Ohm terminated
 Video Connector: BNC 75 Ohms type

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 terminated
 Component Connector: Sub-D 15pin HD, BNC 75 Ohm type on request

Serial Digital Input: 800 mVpp, 270 Mbit/s, 4:2:2 10 bit
 Serial Digital Formats: SMPTE 259M, EBU N10
 Serial Digital Standards: 625/50, 525/60, auto detection
 Serial Digital Impedance: 75 Ohm, active loop trough
 Serial Digital Connector: BNC 75 Ohms type

Serial HD Input: 800 mVpp, 1.5 Gbit/s, 4:2:2 10 bit
 Serial HD Formats: 1080@60/59.97/50, 24psf, 25psf,
 720p@60/59.97/50

Serial HD Impedance: 75 Ohm, active loop trough
 Serial HD Connector: BNC 75 Ohms type



Order Code:	Graphic 1	Graphic 2	CCVS 1	CCVS 2	YC	Component	SDI In	SDI Out	HDSDI In	HDSDI Out	Remote	Weight	Power Con..
HCM 142W DBH	W-XGA	W-XGA	YES	YES	YES	Option	YES	YES	YES	YES	GPI/O	30 kg	210 W
HCM 142W DB	W-XGA	W-XGA	YES	YES	YES	Option	YES	YES	NO	NO	GPI/O	29,8 kg	200 W
HCM 142W VB	W-XGA	W-XGA	YES	YES	YES	Option	NO	NO	NO	NO	GPI/O	29,5 kg	190 W
HCM 142W B	W-XGA	DVI	NO	NO	NO	NO	NO	NO	NO	NO	RS232	29,2 kg	175 W

Options: Component Input, DVI Input, RS232 port, Power Supply, Desktop Stand, VESA Arms, customized colors

TAMUZ - LCD Video Monitors

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