

**TAMUZ  
MONITORS**

# LSM 157W

**Digital Broadcast Monitor**



## SPARROWHAWK series

**A high-quality multi-format Broadcast Video Monitor, for SD and HDTV Master Control or MultiViewer applications**

- High-resolution FullHD active matrix TFT LCD color displays
- Alignable to fulfill EBU t3320 Class-2 Recommendation
- QA follows EBU t3325 Recommendation, assured by KonicaMinolta CS-2000
- MultiSync and MultiFormat capability
- Video de-interlacer switchable, shortest processing time 1 field
- Multiple inputs for SD/HD-SDI, RGBHV, RGsB or RGBS, DVI, CCVS
- OSD menu for individual setups
- IR remote controller and IP addressable 10/100 baseT port
- Built-in AAC Auto Alignment and Calibration with optional Color Analyzer probe
- Rugged and compact lightweight full metal housing design
- Usable as wall or desktop monitor
- Anti-reflective glass protection filter, optional with ND function



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

# Universal BigScreen Monitor for Desktop or MultiViewer Wall

TAMUZ SPARROWHAWK monitors are fully loaded with state-of-the-art LCD technology and offers MultiSync I/O for analog or digital Video or Graphic signals. The monitors are equipped with VESA 100/200 threads to be mountable at VESA compatible mounting systems.

## Technical Specifications:

Screen Type: . . . . . active matrix color TFT, MVA technology  
Screen Size: . . . . . 57"  
Screen Format: . . . . . 16:9 native aspect ratio  
Pixel Resolution: . . . . . 1920 x 1080 RGB dots  
Screen Resolution: . . . . . 39 dpi  
Color Resolution: . . . . . 16 million colors  
Color Reproduction: . . . . . full EBU color space  
Color Temperature: . . . . . 6504°K nominal  
Color Temp. Range: . . . . . 3200 to 9300 °K select and adjustable  
Brightness @ Studio: . . . . . aligned to 73 fL / 250 cd/m<sup>2</sup>  
Black @ Studio: . . . . . aligned to <0,1 fL / 0,21 cd/m<sup>2</sup>  
Contrast @ Studio: . . . . . >1.200:1 for static B/W/B  
Brightness: . . . . . max. 350 cd/m<sup>2</sup>  
Black: . . . . . <0,4 cd/m<sup>2</sup>  
Contrast: . . . . . >1.200:1 for static B/W/B  
Response Time: . . . . . 6 ms, typical  
Viewing Angle H: . . . . . ±85° horizontal  
Viewing Angle V: . . . . . ±85° vertical  
Backlight: . . . . . multiple CCFL lamps  
Backlight Lifetime: . . . . . >60.000 h's  
Screen Classification: . . . . . A Grade  
Screen Certification: . . . . . ISO 13406-2, Cl. 2

Remote Port: . . . . . 10/100 baseT TCP/IP  
Remote Connector: . . . . . RJ-45  
Web Interface: . . . . . accessible with any browser

Internal Power Supply: . . . . . Switching Power Supply  
Power Consumption: . . . . . 320 W (@ LSM 157W HD)  
Mains Voltage: . . . . . AC 100-240 V ±10%, 50-60 Hz  
Mains Connector: . . . . . IEC-320 3pin  
Power Safety: . . . . . ground on frame

Housing: . . . . . full lightweight metal  
Frame Color: . . . . . coated RAL 9003 (black)  
Panel Protection: . . . . . non-glare anti-reflective glass filter  
T92/98  
optional T62 ND Filter  
Dimensions: . . . . . 1344 (W) x 782 (H) x 140 (D) mm  
Weight: . . . . . 49 kg  
VESA Mounting: . . . . . 100/200 at left and right side

Environment operation: 0 to +50°C, 15 to 85% humidity  
storage: . . . . . -30 to +60°C, 5 to 90% humidity  
Certification: . . . . . CE, EN 50082-2, EN 55022

Accessories: . . . . . IR Remote, manual  
Options: . . . . . analog HD Component Inputs, VESA  
200 center adapter

**LSM 157W** . . . . . DVI and VGA inputs  
**LSM 157W HD** . . . . . SD/HD-SDI, CCVS, DVI and VGA inputs

Interface Type: . . . . . TAMUZ FALCON  
Interface Characteristic: HDTV MultiFormat  
Image Processing: . . . . . scanning free scalable to any ratio,  
HDTV native 4:2:2 10 to 8 bit dithering  
Video Processing: . . . . . HiRes digital adaptive Comb Filter,  
HiRes digital pixel mapping  
Processing Times: . . . . . min. 1 field@I-mode, 1 frame@ P-  
mode  
Serial Digital Processing: native SMPTE 292M or 352M  
Aspect Ratio: . . . . . 16:9, full image as standard  
Under-/Overscan Mode: Yes  
Markers: . . . . . Center, SafeArea, SafeTitle, 4:3 SD,  
Academy, CinemaScope, User  
IMD Function: . . . . . UMD, Timecode, Tally  
Closed Caption: . . . . . decoding 608 line 21 and VANC  
Operation: . . . . . OSD Menu  
Remote Operation: . . . . . IR remote, RS 232, TCP/IP 10/100

SD/HD-SDI Inputs: . . . . . 10 bit, 1.5 Gbit/s  
. . . . . 800 mVpp, SingleLink, 4:2:2  
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

Graphic analog Input: . . . . . 1x W-UXGA 1920 x 1080, native  
Graphic digital Input: . . . . . 1x DVI-D 1920 x 1080, native  
Graphic Formats: . . . . . CGA, EGA, VGA, SVGA, W-SVGA, XGA,  
W-XGA, SXGA, W-SXGA, UXGA, W-  
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  
DVI Connector: . . . . . DVI-D 28pin

Composite Video Input: 2x 1 Vpp, 5 MHz ±0.2 dB  
Video Sync: . . . . . composite  
Video S/N: . . . . . >65 dB  
Video Standards: . . . . . 625/50, 525/60, auto detection  
WSS Detection: . . . . . at PAL  
Impedance: . . . . . 75 Ohm active loop through  
Video Connector: . . . . . BNC 75 Ohms type

Component Input: . . . . . 1x 700 mVpp, 30 MHz ±1.5 dB  
Component Formats: . . . . . RGB/YUV  
Component HD: . . . . . 1080i60, 1080i50, 1080p60, 1080p50  
Component SD: . . . . . 625i50, 525i60  
Component Sync: . . . . . composite, Sync on Green  
Component S/N: . . . . . >60 dB  
Component Impedance: 75 Ohm terminated  
Component Connector: BNC 75 Ohm

The SPARROWHAWK monitors are available in various screen sizes from 20" up to 82"W. All monitors are equipped with the Automatic Alignment and Calibration feature (AAC) using a color analyzer probe. The integrated TCP/IP port allows remote control by the MRC software.

Handmade In Germany

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