

**TAMUZ  
MONITORS**

# **LSM 120W HD**

**Digital Broadcast Monitor**



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

- High-resolution active matrix TFT LCD color displays
- QA follows EBU t3325 Recommendation. assured by KonicaMinolta CS-2000
- 4:3 and 16:9 aspect ratio mode, overscan/underscan mode
- MultiSync and MultiFormat capability
- De-interlacer switchable, shortest processing time 1 field
- Multiple inputs for SD/HD-SDI, RGBHV, RGsB or RGBS, DVI / HDMI, CCVS
- OSD menu for individual setups
- IR remote controller and IP addressable 10/100 baseT port
- UMD, Tally and Timecode In-Monitor-Display functionality for UMD, Tally and Timecode
- Built-in AAC Auto Alignment and Calibration with optional Color Analyzer probe
- Rugged and compact lightweight full metal housing design
- Anti-reflective glass protection filter, optional with ND function
- Low-Power and Fan-less design



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

## MultiFormat Digital Broadcast Monitors

The LargeScreen **SPARROWHAWK** series are designed as an universal digital monitor, ideal for displaying the output of MultiViewer's. LSM series monitors are available as purely DVI input devices or with DVI and HDS/SDI inputs, to present HDTV studio signals directly and cost effectively.

### Technical Specifications:

Screen Type: . . . . . active matrix color TFT, MVA technology  
 Screen Size: . . . . . 20" wide  
 Screen Format: . . . . . 16:9 aspect ratio, 16:10 native  
 Pixel Resolution: . . . . . 1680 x 1050 RGB dots  
 Screen Resolution: . . . . . 101 dpi  
 Color Resolution: . . . . . 16 million colors  
 Color Reproduction: . . . . . full EBU color space  
 Color Temperature: . . . . . 6504 K nominal  
 Color Temp. Range: . . . . . 3200 to 9500 K select and adjustable  
 Brightness @ SL Version: aligned to 80 cd/m<sup>2</sup> (EBU t3320)  
 Black @ SL Version: . . . . . aligned to <0,08 cd/m<sup>2</sup>  
 Contrast @ SL Version: . . . . . >1.000:1 for static B/W/B  
 Brightness @ standard: . . . . . aligned to 250 cd/m<sup>2</sup>, max. 300 cd/m<sup>2</sup>  
 Black @ standard: . . . . . aligned to <0,4 cd/m<sup>2</sup>  
 Contrast @ standard: . . . . . >800:1 for static B/W/B  
 Response Time: . . . . . 4 ms, typical  
 Viewing Angle H: . . . . . ±80° horizontal  
 Viewing Angle V: . . . . . ±80° vertical  
 Backlight: . . . . . multiple special CCF Lamps  
 Backlight Lifetime: . . . . . >50.000 h's  
 Screen Classification: . . . . . A Grade  
 Screen Certification: . . . . . ISO 13406-2, Cl. 2

Timecode/ UMD: . . . . . IMD (In-monitor-Display)  
 Tally Light: . . . . . IMD (In-monitor-Display)  
 Tally Function: . . . . . closed contact at GPI/O port  
 Tally Connector: . . . . . Sub-D 9pin

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

Adapted Power Supply: . . . . . Switching Power Supply  
 Power Consumption: . . . . . 43 W (@ LSM 120W SL 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 9005  
 Panel Protection: . . . . . non-glare anti-reflective glass filter  
 Dimensions: . . . . . 466 (W) x 310 (H) x 90 D) mm  
 Dimensions w. IR/AAC: . . . . . 466 (W) x 352 (H) x 90 D) mm  
 Weight: . . . . . 8,3 kg incl. glass filter  
 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: . . . . . IR Remote, manual  
 Options: . . . . . analog HD Component Inputs, static desktop stand, flexible desktop stand, 19" 7/8 RU rack mount kit

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  
 Operation: . . . . . OSD Menu  
 Remote Operation: . . . . . IR remote, RS 232, TCP/IP 10/100

SD/HD-SDI Inputs: . . . . . 2x 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-SXGA 1680 x 1050, native  
 Graphic digital Input: . . . . . 1x DVI-D 1680 x 1050, 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

The **SPARROWHAWK** monitors are available in various screen sizes from 20"W 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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