

**TAMUZ**  
LCD VIDEO MONITORS

# **SPARROWHAWK series**

*Digital Broadcast Monitors*



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



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



***It's Time to Change to the  
TAMUZ Digital Broadcast Monitors  
for your SDTV or HDTV Control Desk or OB-Van***



*Multimage Monitor Wall  
built with SPARROWHAWK LSM 157W*

***High Quality LCD Monitors for multiple applications with Ethernet Remote Control  
Hybrid inputs for serial digital and analog video signals  
Capable to accept any format or standards in any common sync technologies  
Designed to fulfill the EBU Recommendation for Broadcast Monitors.***

## SPARROWHAWK Digital Broadcast Monitors

Designed to replace CRTs in Control Rooms

High Quality displays up to Full-HD resolution

Usable as wall or desktop monitor

Capable to display SD/HD-SDI, analog and DVI/VGA signals

Available in several screen sizes from mid-size 24" up to huge 82"

Automatic Color Alignment and Calibration

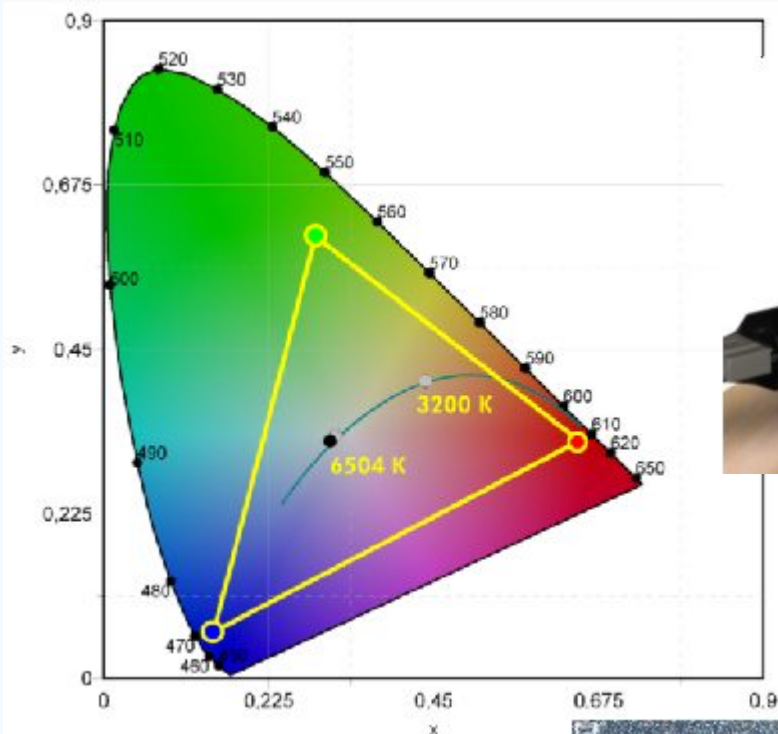
All Monitors adjustable to Reference White and uniform Brightness

Perfect calibrations to EBU or SMPTE recommendation's

Detects WSS to follow the aspect ratio automatically

User-friendly IP-addressable Ethernet communication

Remote control for all features up to 255 Monitors in a single Network



Alignment and Calibration functionality in the SPARROWHAWK series using the AAC probe PM 5639

Colorimetry of SPARROWHAWK monitors meets EBU or SMPTE-C color gamuts (CIE 1931 diagram of LSM 147W)

SD/HD-SDI Inputs with select out, DVI-D and VGA Inputs, added option CCVS input and Ethernet port in the SPARROWHAWK series





## Universal Monitors for Desktop or Wall

All **SPARROWHAWK** series monitors are equipped with VESA75/100/200 threads to be mountable at standard or customized VESA compatible mounting systems. The **SPARROWHAWK** series is applicable as a desktop monitor when the optional stand is fitted.



- Broadcast Quality video interface, showing the full video image at 24W, 27W, 32W, 37W, 42W, 47W, 52W, 57W, 65W and 82W screens
- High-resolution active matrix TFT LCD color displays
- Wide viewing angles, "norm" brightness (80 cd/m<sup>2</sup>) or high brightness (>250 cd/m<sup>2</sup>) adjustable and high contrast
- MultiSync and MultiFormat capability
- Internal ITU-R601 / R709 video signal processing
- Selectable Under / Normal / Over scan mode, WSS detection
- Video inputs for SDI and/or HDSDI
- Graphic inputs for DVI and RGBHV, RGsB or RGBS
- Two analog composite inputs
- Professional and reliable input connectors
- OSD menu for individual setups
- IR remote, optional IP addressable 10/100 baseT port
- 3-color Tally light optionally, GPI/O port for Input and Tally
- Built-in AAC Auto Alignment and Calibration with optional Color Analyzer probe
- User programmable Anti-Sticking screensaver features built-in for 24/7 operation
- Rugged and compact lightweight full metal housing design
- Anti-reflective glass protection filter, added option ND-filter for contrast enhancement
- Mains powered by internal universal power supplies



## GUI to remote up to 255 monitors

The MRC software is developed to operate TAMUZ monitors remotely. Up to 255 monitors in one network group are controllable by a click from your PC. The monitor remote network is based on standard Ethernet IT-technology. The built-in DHCP server configures IP addresses automatically. That makes the installation simple and user-friendly.

The screenshot on the right shows a set of four **GREY OWL FLM 115** and two **FLM 120** monitors. The two **FLM 115** on the right are set to 16:9 aspect ratio. All monitors are displaying Input A.

Selected monitors are indicated by an icon showing a video image, the test pattern image indicates unselected monitors.

Radio buttons and pull-down lists allows access to all features and functions of the monitors. Sliders at the bottom can be used for Brightness, Saturation, Contrast or Backlight adjustments.

The user can arrange and scale the monitor icons on the MRC desktop to create his own layout.





## Digital Broadcast Monitor for SD and HDTV

The SPARROWHAWK series is a high quality LCD Monitor for multiple Broadcast applications. Equipped with inputs for SD or HD SDI video signals, inputs for DVI signals, inputs for analog CGA up to UXGA signals, capable to accept any format or standards in most common sync technologies; analog composite inputs are added option.

Available as LSM 1xxW DVI for typically MultiViewer applications or as LSM 1xxW HD for HDTV BigScreen applications. The model's LSM 124W and 127W QHD are equipped with an integrated Quad Split.



Monitors for native 720



- LSM 127W DVI or HD** (1366x768 px)
- LSM 132W DVI or HD** (1366x768 px)
- LSM 142W DVI or HD** (1366x768 px)



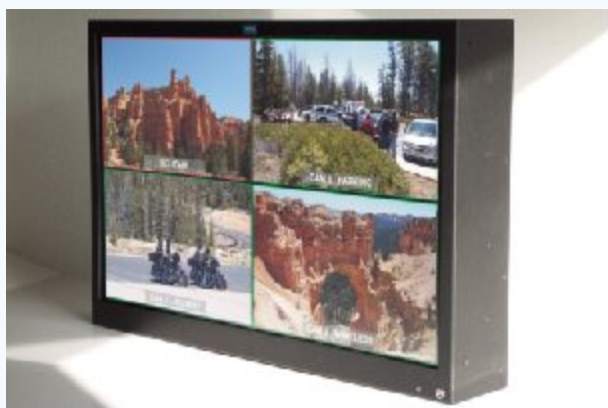
Monitors for native 1080



- LSM 124W DVI or HD** (1920x1200 px)
- LSM 127W-HR DVI or HD** (1920x1200 px)
- LSM 137W DVI or HD** (1920x1080 px)
- LSM 142W-HR DVI or HD** (1920x1080 px)
- LSM 147W DVI or HD** (1920x1080 px)
- LSM 152W DVI or HD** (1920x1080 px)
- LSM 157W DVI or HD** (1920x1080 px)
- LSM 165W DVI or HD** (1920x1080 px)
- LSM 182W DVI or HD** (1920x1080 px)



Monitors with Quad built-in








- LSM 124W QHD** (1920x1200 px) [4x SD/HD-SDI]
- LSM 127W QHD** (1920x1200 px) [4x SD/HD-SDI]



## Fully loaded with all broadcast features

TAMUZ SPARROWHAWK monitors are fully loaded with state-of-the-art LCD technology and broadcast features, like GPI/O port, IR-remote, multiple inputs, R/G/B only, displaying the horizontal and vertical blanking area, WSS detection, pixel-mapping or full screen mode, etc.

Model: .....	LSM 124W	LSM 127W	LSM 132W	LSM137W	LSM142W
					
Screen Type: .....	active matrix color TFT				
Screen Size: .....	24"W	27"W	32"W	37"W	42"W
Screen Format: .....	16:10 native	16:10 native	16:9 native	16:9 native	16:9 native
Pixel Resolution LR: .....	---	1366x768 RGB	1366x768 RGB	---	1366x768 RGB
Pixel Resolution HR: .....	1920x1200 RGB	1920x1200 RGB	---	1920x1080 RGB	1920x1080 RGB
Color Resolution: .....	16 million colors, 8 bit RGB, 10 bit dithering				
Color Temperature: .....	6504°K nominal				
Color Temp. Range: .....	3200 to 9300 °K select and adjustable				
Auto Alignment: .....	AAC port for PM 5639 probe				
Luminance (max.): .....	>300 cd/m <sup>2</sup>	>400 cd/m <sup>2</sup>	>600 cd/m <sup>2</sup>	>700 cd/m <sup>2</sup>	>700 cd/m <sup>2</sup>
Contrast: .....	>500 : 1	>600 : 1	>800 : 1	>800 : 1	>800 : 1
Response Time: .....	15 ms, typical	15 ms, typical	15 ms, typical	12 ms, typical	8 ms, typical
Viewing Angle H: .....	±85° horizontal	±85° horizontal	±85° horizontal	±85° horizontal	±85° horizontal
Viewing Angle V: .....	±85° vertical	±85° vertical	±85° vertical	±85° vertical	±85° vertical
Backlight: .....	multiple CCF Lamps				
Backlight Lifetime: .....	>40.000 h's	>50.000 h's	>50.000 h's	>50.000 h's	>50.000 h's
Screen Classification: .....	A Grade				
Screen Certification: .....	ISO 13406-2, Cl. 2				
Power Requirements: .....	DC 24 V ±15%	DC 24 V ±15%	AC 85-264 V	AC 85-264 V	AC 85-264 V
Power Connector: .....	XLR-5M	XLR-5M	IEC-320 3pin	IEC-320 3pin	IEC-320 3pin
Power Consumption: .....	68 W	90 W	180 W	200 W	220 W
Power Safety: .....	ground on frame				
External Power Supply: .....	Switching Power Supply				
Mains Voltage: .....	AC 100-240 V ±10%, 50-60 Hz				
Mains Connector: .....	IEC-320 3pin				
Housing: .....	full lightweight metal				
Frame Color: .....	coated RAL 9003 (black)				
Panel Protection: .....	non-glare anti-reflective glass filter T98/92 or T62				
Dimensions (WHD): .....	550x375x95 mm	642x428x110 mm	765x460x130 mm	890x530x130 mm	1015x692x130 mm
Weight: .....	9,8 kg	10,8 kg	16,9 kg	29 kg	38 kg
Mounting: .....	VESA 100	VESA 100	2x VESA 100	2x VESA 100	2x VESA 100
Environment: .....	0 to +50°C, operation				
Storage: .....	-30 to +60°C, 15 to 85% humidity				
Certification: .....	CE, EN 50082-2, EN 55022, RoHS				
Interface Type: .....	TAMUZ "FALCON HD"		SDI SD Input: .....		
Interface Characteristic: ..	Broadcast MultiSync MultiFormat		800 mVpp, 270 Mbit/s, 4:2:2 10 bit		
Image Processing: .....	scanning free scalable to any ratio		SDI SD Formats: .....		
Video Processing: .....	HiRes digital adaptive Comb Filter		SMPT E 259M, EBU N10		
Processing Times: .....	min. 1 field@I-mode, 1 frame@ P-mode		SDI SD Standards: .....		
Serial Digital Processing: ..	native 4:2:2, 10 to 8 bit dithering		625/50, 525/60, auto detection		
Operation: .....	OSD Menu via IR remote		SDI SD/HD Input: .....		
Remote Operation: .....	Ethernet TCP/IP, RS232		800 mVpp, 1,5 Gbit/s, 4:2:2 10 bit		
SDI Connector: .....	BNC 75 Ohms type		SDI SD/HD Formats: .....		
			SMPT E 292M, 296M		
			SDI SD/HD Standards: ..		
			1080 @ 60/59.97/50i		
			1080 @ 30 / 29.97 / 25 / 24 / 23.98p		
			729 @ 60 / 59.97 / 50p		
			576 @ 50i, 480 @ 60i, auto detection		



## Automatic Color & Brightness Alignment

TAMUZ SPARROWHAWK monitors are equipped with the AAC feature for Automatic Alignment and Calibration with a probe PM5639T. This allows to align the monitors to the recommended brightness value and correct reference white.

Model: .....	<b>LSM 147W</b>	<b>LSM 152W</b>	<b>LSM 157W</b>	<b>LSM 165W</b>	<b>LSM 182W</b>
Screen Type: .....	active matrix color TFT				
Screen Size: .....	47"W	52"W	57"W	65"W	82"
Screen Format: .....	16:9 native	16:9 native	16:9 native	16:9 native	16:9 native
Pixel Resolution LR: .....	---	---	---	---	---
Pixel Resolution HR: .....	1920x1080 RGB	1920x1080 RGB	1920x1080 RGB	1920x1080 RGB	1920x1080 RGB
Color Resolution: .....	16 million colors, 8 bit RGB, 10 bit dithering				
Color Temperature: .....	6504°K nominal				
Color Temp. Range: .....	3200 to 9300 °K select and adjustable				
Auto Alignment: .....	AAC port for PM 5639 probe				
Luminance (max.): .....	>700 cd/m <sup>2</sup>	>500 cd/m <sup>2</sup>	>600 cd/m <sup>2</sup>	>400 cd/m <sup>2</sup>	>600 cd/m <sup>2</sup>
Contrast: .....	>1000 : 1	>1500 : 1	>1200 : 1	>700 : 1	>1200 : 1
Response Time: .....	8 ms, typical	8 ms, typical	12 ms, typical	12 ms, typical	12 ms, typical
Viewing Angle H: .....	±85° horizontal	±85° horizontal	±85° horizontal	±85° horizontal	±85° horizontal
Viewing Angle V: .....	±85° vertical	±85° vertical	±85° vertical	±85° vertical	±85° vertical
Backlight: .....	multiple CCF Lamps				
Backlight Lifetime: .....	>40.000 h's	>60.000 h's	>60.000 h's	>60.000 h's	>60.000 h's
Screen Classification: .....	A Grade				
Screen Certification: .....	ISO 13406-2, Cl. 2				
Power Requirements: .....	AC 85-264 V	AC 85-264 V	AC 85-264 V	AC 85-264 V	AC 85-264 V
Power Connector: .....	IEC-320 3pin	IEC-320 3pin	IEC-320 3pin	IEC-320 3pin	IEC-320 3pin
Power Consumption: .....	250 W	280 W	320 W	680 W	710 W
Power Safety: .....	ground on frame				
External Power Supply: .....	Switching Power Supply				
Mains Voltage: .....	AC 100-240 V ±10%, 50-60 Hz				
Mains Connector: .....	IEC-320 3pin				
Housing: .....	full lightweight metal				
Frame Color: .....	coated RAL 9003 (black)				
Panel Protection: .....	non-glare anti-reflective glass filter T98/92 or T62				
Dimensions (WHD): .....	1140x692x130 mm	1252x748x130 mm	1344x782x140 mm	1622x922x140 mm	1975x1180x150 mm
Weight: .....	42 kg	46 kg	49 kg	61 kg	77 kg
Mounting: .....	2x VESA 100	2x VESA 100	2x VESA 100	2x VESA 100/200	2x VESA 100/200
Environment: .....	0 to +50°C, operation				
Storage: .....	-30 to +60°C, 15 to 85% humidity				
Certification: .....	CE, EN 50082-2, EN 55022, RoHS				
Graphic Input: .....	native screen resolution VGA		Video S/N: .....		
Graphic Formats: .....	CGA, EGA, VGA, SVGA, W-SVGA, XGA, W-XGA, SXGA, W-SXGA, UXGA, W-UXGA, MAC, Hercules and more		Video Standards: .....		
Sync Mode: .....	HV, RGsB, RGBS, composite		Impedance: .....		
V-Sync: .....	Vmin = 23 Hz, Vmax = 110 Hz		Tally Light: .....		
H-Sync: .....	Hmin = 15 kHz, Hmax = 85 kHz		Tally Function: .....		
Graphic Connector: .....	Sub-D 15pin HD		GPI/O Function: .....		
Composite Video Input: .....	1 Vpp, 5 MHz ±0.2 dB		Tally Connector: .....		
Video Sync: .....	composite		Options: .....		
			IR remote controller		
			composite input module		
			T62 density anti-reflective glass filter		

## Where to buy

**TAMUZ  
MONITORS**

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eMail: sales@tamuz.tv

Or your authorised local dealer  
(see the world wide dealer list at [www.tamuz.tv/dealers](http://www.tamuz.tv/dealers))



Handmade In Germany

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