

**TAMUZ**  
MONITORS

# OCM 107W

Portable Broadcast Monitor



**BLACK HAWK series**

**OLED**  
MATRIX PANEL

## **High-Quality Portable Broadcast Video Monitor, for SD and HDTV applications**

- High-resolution 7,6" active matrix OLED
- Aligned to fulfill EBU t3320 Class-2 Recommendation
- QA follows EBU t3325 Recommendation, assured by KonicaMinolta CS-2000
- 16:9 and 4:3 aspect ratio mode, overscan/underscan mode
- Center - 4:3 - safe area - safe title markers selectable by switch
- Color - B/W - blue only - green screen mode selectable by switch
- De-interlacer switchable, shortest processing time 1 field
- Multiple inputs for SD/HD-SDI, RGBHV, RGsB or RGBS, HDMI, CCVS
- Direct controls and keys for settings and input selection
- OSD menu for individual setups, IR remote controller and RS232 port
- 3-color Tally light at front, GPI/O port for Input and Tally
- Built-in Auto Alignment and Calibration with optional Color Analyzer probe
- Rugged full metal frame with glass protection filter, 3/8" mounting screws at top and bottom
- Powered by external 9-30 V DC or attached battery system, voltage value DSP controlled



**Absolutely a must for Directors, Operators and Assistants  
at each Film and TV Production set, wherever !!!**

## Portable MultiFormat Digital Broadcast Monitors

TAMUZ BLACK HAWK monitors are one of the first portable monitors using OLED technology and are fully loaded with broadcast features, like ON-AIR Tally, GPI/O port, multiple inputs, R/G/B only, displaying the blanking area, markers, pixel-mapping or full screen mode, etc.

### Technical Specifications:

Screen Type: . . . . . active matrix OLED technology  
 Screen Size: . . . . . 7.6" wide  
 Screen Format: . . . . . 16:9 aspect ratio, 15:10 native  
 Pixel Resolution: . . . . . 800 x 480 RGB dots  
 Screen Resolution: . . . . . 123 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 @ Class-2: . . . . . aligned to 35 fL / 120 cd/m<sup>2</sup>  
 Black @ Class-2: . . . . . aligned to <0,000.1 fL / 0,000.2 cd/m<sup>2</sup>  
 Contrast @ Class-2: . . . . . >100.000:1 for static B/W/B  
 Brightness: . . . . . max. 250 cd/m<sup>2</sup>  
 Response Time: . . . . . 0.1 ms, typical  
 Viewing Angle H: . . . . . ±85° horizontal  
 Viewing Angle V: . . . . . ±85° vertical  
 Backlight Lifetime: . . . . . >30.000 h's  
 Screen Classification: . . . . . A Grade  
 Screen Certification: . . . . . ISO 13406-2, Cl. 2

Tally Light: . . . . . multicolor LED in front  
 Tally Function: . . . . . closed contact at GPI/O port  
 Tally Connector: . . . . . Lemo 6pin

Remote Port: . . . . . RS232  
 Remote Connector: . . . . . Lemo 6pin

Power Input: . . . . . 12 V DC nominal, 9 to 30 V range  
 Power Consumption: . . . . . 20 W (@ OCM 107W HD)  
 Power Connector: . . . . . XLR 4pin male

Housing: . . . . . full lightweight metal  
 Frame Color: . . . . . coated RAL 7016  
 Front Cover: . . . . . solid aluminum faceplate  
 Front Color: . . . . . black anodized  
 Panel Protection: . . . . . non-glare anti-reflective glass filter  
 Dimensions: . . . . . 205 (W) x 150 (H) x 85 (D) mm  
 Weight: . . . . . 1,0 kg  
 Mounting: . . . . . 3/8" threads at top and bottom

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

Accessories: . . . . . IR Remote, manual  
 Options: . . . . . soft protection bag, V-Mount battery adapter, power supply, universal mounting arms, ...

Interface Type: . . . . . TAMUZ HAWK II  
 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, User  
 IMD Function: . . . . . Embedded Audio  
 PIP Function: . . . . . Analog into Digital sources  
 Operation: . . . . . OSD Menu  
 Remote Operation: . . . . . IR remote, RS 232

SD/HD-SDI Inputs: . . . . . 1x 10 bit, 1.5 Gbit/s, with loop  
 . . . . . 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

Composite Video Input: 1x 1 Vpp, 5 MHz ±0.2 dB, with loop  
 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: Lemo 7pin

HDMI Input: . . . . . 1x HDMI/DVI-D 1920 x 1080, native  
 Graphic Formats: . . . . . VGA, SVGA, XGA, SXGA, UXGA and more  
 HDMI Connector: . . . . . HDMI 1.2 12pin



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