

**TAMUZ  
MONITORS**

# CCM 108W HD

**Compact Control Monitor**



## **A compact Broadcast Video Control Monitor, for SD and HDTV applications**

- High resolution active matrix OLED color displays
- QA follows EBU t3325 Recommendation. assured by KonicaMinolta CS-2000
- 4:3 and 16:9 aspect ratio mode
- MultiSync and MultiFormat capability
- De-interlacer switchable, shortest processing time 1 field
- Multiple inputs for SD/HD-SDI, DVI / HDMI, CCVS, Component
- Integrated QuadSplit to display four SD/HD/3G-SDI signals as version CCM 108WQ
- OSD menu for individual setups
- Auto Alignment and Calibration with optional Color Analyzer probe
- Rugged and compact lightweight full metal 19" rack mountable housing
- 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!**

## Compact Control Monitors

The **OSPRAY** series monitors are designed as an universal digital control monitor, ideal for displaying the output of Cameras, Switchers or other broadcast equipment. CCM series monitors are available as space saving rack mountable devices equipped with DVI and HDSDI inputs, to present HDTV studio signals directly and cost effectively.

### Technical Specifications:

Screen Type: . . . . . active matrix OLED  
 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

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: . . . . . RS232  
 Remote Connector: . . . . . Sub-D 9pin

Adapted Power Supply: . . . . . Switching Power Supply  
 Power Consumption: . . . . . 20 W (@ CCM 108W 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: . . . . . 224 (W) x 132 (H) x 90 (D) mm  
 Weight: . . . . . 1,8 kg incl. glass filter  
 19" Rack Mounting: . . . . . 3 RU twin pack adapter

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: . . . . . static desktop stand, 19" 3 RU rack mount kit

Interface Type: . . . . . TAMUZ OSPREY  
 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, User  
 IMD Function: . . . . . UMD, Timecode, Tally  
 Operation: . . . . . OSD Menu  
 Remote Operation: . . . . . IR remote, RS 232

SD/HD-SDI Inputs: . . . . . 1x 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 digital Input: . . . . . 1x DVI-D 1920 x 1200, 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  
 DVI Connector: . . . . . DVI-D 28pin

Composite Video Input: 1x 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 SD: . . . . . 625i50, 525i60  
 Component Sync: . . . . . composite, Sync on Green  
 Component S/N: . . . . . >60 dB  
 Component Impedance: 75 Ohm terminated  
 Component Connector: BNC 75 Ohm



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