

**TAMUZ  
MONITORS**

# BCM 115

Digital Broadcast Monitor



**19" RACK  
MOUNTABLE**

**BROADCAST SERIES**

**Class-2**  
EBU †3320

**A compact multi-format Broadcast Video Monitor,  
designed to be a CRT replacement**

- High-resolution active matrix TFT LCD color display
- QA follows EBU †3325 Recommendation, assured by KonicaMinolta CS-2000
- Wide viewing angles, high brightness (aligned to 200 cd/m<sup>2</sup> nominal) and contrast
- 4:3 aspect ratio screen, scalable into 16:9 mode, overscan/underscan mode
- Broadcast Quality video interface, showing the full video image
- MultiSync and MultiFormat capability
- internal ITU-R601 video signal processing, native processing for serial 270 Mbit/s SDI
- Multiple video inputs for Composite, YC, RGB/YUV and SDI, HDSDI as option
- Multiple graphic inputs for RGBHV, RGsB or RGBS (W/SXGA native)
- Optional Audio outputs for de-embedded SDI Audio
- Optional Audio inputs with stereo Speakers built-in
- Direct access keys for input selection and main features
- OSD menu for individual setup
- IR remote controller and addressable RS 232 control port
- Tally light at front, GPI&O port with Sony compatible pin-out
- 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
- Powered by external battery systems or built-in power supply



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

# Digital Broadcast Monitor for SD and HDTV

High Quality LCD Monitor for multiple purposes. Inputs for serial digital and analog video signals, digital audio signals, capable to accept any format or standard in most common sync technologies. Latest TFT panel technology.

Alignment and calibration following EBU recommendation 3320 / 3325, class-2.

## Technical Specifications:

Screen Type: . . . . . active matrix color TFT  
 Screen Size: . . . . . 15"  
 Screen Format: . . . . . 4:3 native aspect ratio  
 Pixel Resolution: . . . . . 1024x768 RGB dots  
 Screen Resolution: . . . . . 86 dpi  
 Color Resolution: . . . . . 16 million colors  
 Color Temperature: . . . . . 6504°K nominal  
 Color Temp. Range: . . . . . 3200 to 9700 °K select and adjustable  
 Auto Alignment: . . . . . AAC port for color analyzer probe  
 Luminance: . . . . . 200 cd/m<sup>2</sup> nominal  
 Contrast: . . . . . >600:1  
 Response Time: . . . . . 10 ms, typical  
 Viewing Angle H: . . . . . ±85° horizontal  
 Viewing Angle V: . . . . . ±85° vertical  
 Backlight: . . . . . multiple CCF Lamps  
 Backlight Lifetime: . . . . . >50.000 h's  
 Screen Classification: . . . . . A Grade  
 Screen Certification: . . . . . ISO 13406-2, Cl. 2

Power Requirements: . . . . . DC 12 V +50% / -15%  
 Power Connector: . . . . . XLR-4M  
 Power Consumption: . . . . . 25 up to 40 W  
 Power Safety: . . . . . ground on frame  
 Internal Power Supply: . . . . . Switching Power Supply  
 Mainsl Voltage: . . . . . AC 100-240 V ±10%, 50-60 Hz  
 Mains Connector: . . . . . IEC-320 3pin

Housing: . . . . . full lightweight metal  
 Frame Color: . . . . . coated RAL 7016  
 Front Cover: . . . . . solid aluminum black anodized faceplate  
 Panel Protection: . . . . . non-glare anti-reflective glass filter  
 Dimensions: . . . . . 335 (W) x 273 (H) x 210 (D) mm  
 Weight: . . . . . 6.8 kg

Environment: . . . . . 0 to +50°C, operation  
 Storage: . . . . . -30 to +60°C, 5 to 95% humidity  
 Certification: . . . . . CE, EN 50082-2, EN 55022



Interface Type: . . . . . TAMUZ "EAGLE"  
 Interface Characteristic: . . . . . Broadcast MultiSync MultiFormat  
 Image Processing: . . . . . scanning free scalable to any ratio  
 Video Processing: . . . . . HiRes digital adaptive Comb Filter  
 Processing Times: . . . . . min. 1 field@I-mode, 1 frame@ P-mode  
 Serial Digital Processing: . . . . . native 4:2:2, 10 to 8 bit dithering  
 Operation: . . . . . OSD Menu and direct keys  
 Remote Operation: . . . . . IR Controller, RS232

Graphic Input: . . . . . XGA, native  
 Graphic Formats: . . . . . CGA, EGA, VGA, SVGA, W-SVGA, XGA, W-XGA, SXGA, W-SXGA, 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

Composite Video Input: . . . . . 1 Vpp, 5 MHz ±0.2 dB  
 YC Video Input Y: . . . . . 1 Vpp Y, 5 MHz ±0.2 dB  
 YC Video Input C: . . . . . 850 mVpp C, 2.5 MHz ±0.2 dB  
 Video Sync: . . . . . composite  
 Video S/N: . . . . . >65 dB  
 Video Standards: . . . . . 625/50, 525/60, auto detection of PAL, NTSC, SECAM  
 Impedance: . . . . . 75 Ohm active loop through  
 Video Connector: . . . . . BNC 75 Ohms type, 4pin miniDIN

Component Input: . . . . . 700 mVpp, 5 MHz ±0.2 dB  
 Component Formats: . . . . . RGB/YUV  
 Component Standards: . . . . . 625/50, 525/60, auto detection  
 Component Sync: . . . . . composite, Sync on Green  
 Component S/N: . . . . . >65 dB  
 Component Impedance: . . . . . 75 Ohm active loop through  
 Component Connector: . . . . . Sub-D 15pin HD, BNC 75 Ohm

Serial Digital Input: . . . . . 800 mVpp, 270 Mbit/s, 4:2:2 10 bit  
 Serial Digital Formats: . . . . . SMPTE 259M, EBU N10  
 Serial Digital Standards: . . . . . 625/50, 525/60, auto detection  
 Serial Digital Impedance: . . . . . 75 Ohm, active loop trough  
 Serial Digital Connector: . . . . . BNC 75 Ohms type

Audio Analog In-/Output: +6 dBm balanced, 20 Hz - 20 kHz  
 Audio Analog Connector: XLR-M in / XLR-F out

Tally Light: . . . . . LED in front  
 Tally Function: . . . . . closed contact at GPIO/O port  
 GPIO/O Function: . . . . . like Sony parallel remote  
 Tally Connector: . . . . . Sub-D 9pin

Options: . . . . . IR remote controller  
 . . . . . SDI module as second digital video input  
 . . . . . SDI de-embedder module to extract 4 channels of audio  
 . . . . . analog audio input with built-in stereo speakers 2x 5W max.  
 . . . . . 19" rack kit to mount as 7 RU

## Order Code:

	Graphic 1	Graphic 2	CCVS 1	CCVS 2	YC	Component	SDI 1 In	SDI 2 In	De-embed	Audio	Speakers	Power Con..
BCM 115 DB	XGA	XGA	YES	YES	YES	YES	YES	NO	Option	Option	Option	25 W
BCM 115 D2B	XGA	XGA	YES	YES	YES	YES	YES	YES	Option	Option	Option	40 W
Options	RS232 Remote Software, IR Remote Controller, Color Analyzer Probe, customized Colors, SDI and de-embedder Modules, Speakers built-in											

1024  
768

15"

4:3

SYNC  
MULTI  
FORMAT

iSPORT  
DE-INTERLACER  
iFILM

SDI  
INPUT

CCVS  
INPUT

YC  
INPUT

CAV  
INPUT

RGBHV  
INPUT

GPIO  
INTERFACE

RS232  
INTERFACE

ISO  
13406-2

24 MONTH  
WARRANTY

Handmade In Germany

TAMUZ Monitors GmbH | Tiedenkamp 16 | D-24558 Henstedt-Ulzburg  
 tel and fax: +49 - (0)700 - TAMUZLCD [826 895 23]

www.tamuz.tv



III.Q 09