

**TAMUZ
MONITORS**

BCM 120

Digital Broadcast Monitor



**19" RACK
MOUNTABLE**

Class-2
EBU †3320

BROADCAST SERIES

**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/m² 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: 20"
 Screen Format: 4:3 native aspect ratio
 Pixel Resolution: 1600x1200 RGB dots
 Screen Resolution: 110 dpi
 Color Resolution: 16 million colors
 Color Temperature: 6500°K nominal
 Color Temp. Range: 3200 to 9700 °K select and adjustable
 Auto Alignment: AAC port for color analyzer probe
 Luminance: 200 cd/m² 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: 36 to 48 W
 Power Safety: ground on frame
 Internal 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 7016
 Front Cover: solid aluminum black anodized faceplate
 Panel Protection: non-glare anti-reflective glass filter
 Dimensions: 428 (W) x 362 (H) x 250 (D) mm
 Weight: 9.8 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, RGB, 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 port
 GPIO 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 9 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 120 DB	XGA	XGA	YES	YES	YES	YES	YES	NO	Option	Option	Option	36 W
BCM 120 D2B	XGA	XGA	YES	YES	YES	YES	YES	YES	Option	Option	Option	48 W
Options	RS232 Remote Software, IR Remote Controller, Color Analyzer Probe, customized Colors, SDI and de-embedder Modules, Speakers built-in											



Handmade In Germany

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