

SONY®

Broadcast Color Monitor

BVM-8045QD/9045D



To support the rapidly expanding digital production environment, Sony has introduced the BVM-8045QD/9045D Color Monitor. In addition to the outstanding picture quality and reliability inherent in the BVM line of monitors, this new monitor features a built-in component serial digital interface with 10-bit digital to analog conversion so that it can accept 270Mb/s bit rate signals without any additional equipment. A variety of convenient operating features such as the selectable aspect ratio of 4:3 and 16:9 is also available. With its AC/DC operation and excellent performance and features, the Sony BVM-8045QD/9045D is a valuable tool for many digital production applications, both in the studio and field.

Features

- Component serial digital interface terminal
- Aspect ratio is switchable (4:3 and 16:9) with the 16:9 button on the front panel
- High resolution CRT provides 450 TV lines at center (composite video)
- Stable color temperature from beam current feedback circuit
- Analog component (Y/R-Y/B-Y or RGB), Y/C and composite video inputs
- Analog component level selectable between BETA and SMPTE/N10 by a rear panel slide switch
- NTSC comb filter
- Accepts external sync/sync on Green
- Tally input
- Color Temperature D65
- Blue only, H/V delay, Underscan capability
- AC/DC operation
- Front panel degauss button
- EIA standard rack mountable with a second BVM-8045QD/9045D (or an optional blank panel MB-509) by using optional an MB-507 rack mounting bracket
- Wired remote control capability

Battery Adaptor DC-L10

Features

- Attaches a rechargeable Lithium-Ion Battery Pack BP-L60A or BP-L90A to a BVM-8045QD/9045D with this adaptor.
- Retractable handle
- Easily detachable upper part of adaptor bracket

Specifications

- Operating time*

BP-L60A	Approx. 100 min. (typical)
BP-L90A	Approx. 160 min. (typical)

* Actual operating times may vary.

- Dimensions: 315 (W) × 146 (H) × 100 (D) mm (12 1/2 × 5 3/4 × 4 inches)
- Mass: 2.35 kg (5 lb 19 oz)
- DC output: DC 12 V, Right angle XLR 4-pin connector (female)
- DC fuse: 5 A

Rear panel



Specifications

CRT performance

CRT	22 cm (9-inch) HR Trinitron, viewable area 19.1 cm (8-inch) measured diagonally, 70° deflection
AG pitch	0.25 mm
Resolution	450 TV lines

Video signal

Frequency response	6.0 MHz -3.0 dB (at video out)
Color system	NTSC, PAL, SECAM, NTSC4.43
Synchronization	AFC time constant 1.0 msec

Picture performance

Color temperature	D65
Normal scan	6%
Underscan	3%
Linearity	Within 2% of the picture height
Convergence	Center: less than 0.43 mm (typical) Peripheral: less than 0.53 mm (typical)
Raster size stability	H: 1.0%, V: 1.5%
High voltage regulation	3.0%

Inputs

VIDEO*1	Loop-through BNC, 1 Vp-p ±6 dB sync negative
Y/C*1	Loop-through mini DIN 4-pin, Y: 1 Vp-p ±6 dB sync negative C(NTSC):0.286 Vp-p ±6 dB, C(PAL):0.3 Vp-p ±6 dB
COMPONENT	Y: BNC, 1 Vp-p ±6 dB sync negative, 75 Ω R-Y, B-Y: BNC, 0.7 Vp-p ±6 dB positive, 75 Ω
RGB (Analog)	G: BNC, 1 Vp-p ±6 dB sync on green, 75 Ω R, B: BNC, 0.7 Vp-p ±6 dB positive, 75 Ω
COMPONENT SDI	Active loop-through BNC, SMPTE259M/CCIR 656-III, 270Mbits/s
EXT SYNC	Loop-through BNC, 4 Vp-p ±6 dB negative
REMOTE	Mini DIN 8-pin

Outputs

VIDEO	BNC, automatic 75 Ω termination*2
Y/C	Mini DIN 4-pin, automatic 75 Ω termination*2
COMPONENT SDI	BNC, active loop-through output
EXT SYNC	BNC, automatic 75 Ω termination*2

General

Power consumption	BVM-8045QD: AC: 48 W, DC: 44 W BVM-9045D: AC: 45 W, DC: 42 W
Power requirements	AC: 100 to 240V AC, 50/60Hz DC: 12V DC, XLR 4-pin (male)
Operating temperature	0 to 35° C (32 to 95° F)
Storage temperature	-10 to 40° C (14 to 104° F)
Humidity	0 to 90 % (no condensation)
Pressure	700 to 1060 hPa
Dimensions (W/H/D)	217 x 217 x 352.5 mm (8 5/8 x 8 5/8 x 14 inches)
Mass	8.5 kg (18 lb 1 oz)

Regulation compliance

BVM-8045QD:	UL 6500, c-UL (CAN/CSA-E65-94), FCC Class A, IC Class A, DHHS, DNHW
BVM-9045D:	EN 60 950 (TUV), CE (EMC, LVD)

0 dBu = 0.775 V rms

*1 The Y/C input has priority over the Composite input.

*2 75 Ω termination is automatically set to OFF when a connection is made to the OUT connector.

Front panel



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