

SONY®

BROADCAST AND PROFESSIONAL MONITORS

BVM G Series



NTSC area

The new BVM G-Series monitors, like others in the Evergreen Series, are based upon the idea of flexible system configuration: incorporating separate display and control units, serial/parallel remote control capability, and an option input slot. G-Series monitors are tailored to function as broadcast monitors in studios and similar applications requiring multiple monitor installation. The G-Series offers the picture quality and precision expected of Sony BVM Series monitors, with greater ease of operation.



PRECISE PICTURE REPRODUCTION

- HR Trinitron® provides high resolution of 800 TV lines for all G-Series monitors
- SMPTE-C standard phosphors
- Sony manufactured CRTs provide excellent uniformity of performance
- Beam current feedback circuitry provides color temperature stability

SYSTEM INTEGRATION

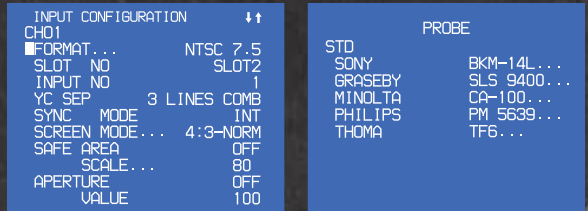
- Designed with suitable settings for use as a broadcast monitor in a studio system
- Up to 32 Evergreen Series monitors can be controlled via RS-485 which enables communication between the monitors and one BKM-10R/11R control unit
- The hand-held BKM-11R control unit connects directly to the monitor's front panel for quick adjustments (performs same functions as the BKM-10R)
- Rack mountable into a 19-inch EIA standard rack
- Y/R-Y/B-Y or RGB analog component inputs included as standard
- Optional decoder adapters—common throughout the Evergreen Series—allow for easy customization to meet specific application needs
- One option slot in the rear panel is provided for quick insertion and exchange of decoder adapters



OPERATING FEATURES

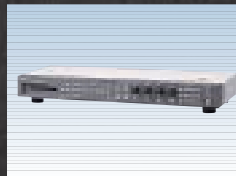
- Built-in auto set-up system for chroma, phase, and white balance
- Data transfer possible between RS-485 linked monitors using the "Copy" function or with an optional BKM-12Y* memory card
- ISR (Interactive Status Reporting) for system diagnosis
- Aspect ratio switchable between 4:3 and 16:9

- On-screen menus for adjustment and operation

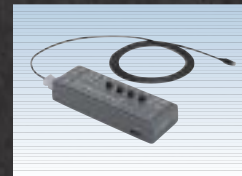


OPTIONAL ACCESSORIES

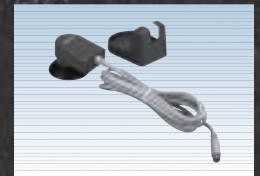
- Auto set-up probe for precise color temperature adjustment (BKM-14L)
- Memory card (BKM-12Y*)
- Control units (BKM-10R/11R)
- 16:9 widescreen masks (BKM-33H20/33H14)
- 19-inch EIA standard rack mount kits (BKM-30E20/31E14/30E14)
- Control cable—9 pin cable for RS-485/422 serial remote control (RCC-5G/10G/30G)
- 19-inch EIA standard rack mount kit for BKM-10R (MB-510)
- Control unit attachment kit for attaching BKM-10R to BVM-20G1U (BKM-32H)



BKM-10R
control unit



BKM-11R
control unit



BKM-14L
auto set-up probe

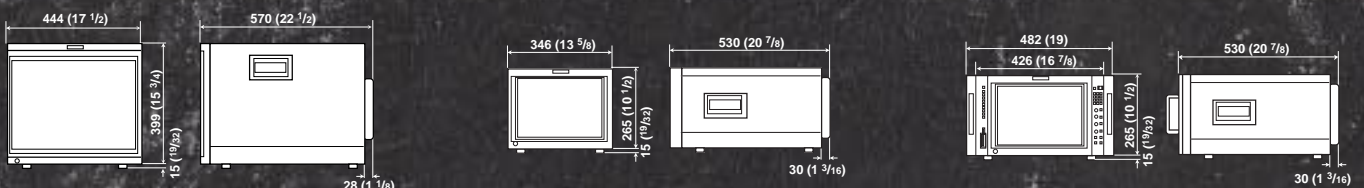
*BKM-12Y/US is provided in the United States

◆ DECODER/ADAPTERS

		Digital			Analog				
		BKM-20D SDI 4:2:2 Decoder Adapter	BKM-21D SDI Multi Decoder Adapter	BKM-24N NTSC Decoder Adapter	BKM-25P PAL Decoder Adapter	BKM-26M PAL-M Decoder Adapter	BKM-27T Tri-Standard Decoder Adapter	BKM-28X Analog Input Expansion Adapter	BKM-48X* Analog Input Expansion Adapter
Serial digital input	Component 525/625	●	●						
	Composite NTSC		●						
	Composite PAL		●						
Analog input	Composite NTSC		●	●			●		
	Composite PAL		●		●		●		
	Composite PAL-M					●			
	Composite SECAM						●		
	Y/R-Y/B-Y 525/625	●	●	●	●	●	●	●	●
	RGB 525/625	●	●	●	●	●	●	●	●
	Y/C NTSC			●			●		
	Y/C PAL				●		●		
Y/C PAL-M					●				
Number of digital inputs		3	3	-	6	6	6	6	6
Number of analog inputs		3	3	6	6	6	6	6	6

*Equipped with floating/non-floating ground mode selector for hum reduction

◆ DIMENSIONS



◆ SPECIFICATIONS

		BVM-20G1U	BVM-14G1U	BVM-14G5U
General				
Type	Display units			Stand-alone monitor
System	525 lines 60 fields or 625 lines 50 fields interlace			
Power requirements	AC 100-120 V/220-240 V \pm 10%; 1.6/0.7 A, 50/60 Hz		AC 100-120 V/220-240 V \pm 10%; 1.3/0.6 A, 50/60 Hz	
Power consumption	125 W (with OPTION: 140 W)		105 W (with OPTION: 120 W)	
Dimensions	mm	444 (W) \times 414 (H) \times 570 (D)	346 (W) \times 280 (H) \times 530 (D)	482 (W) \times 280 (H) \times 530 (D)
	inches	17 ¹ / ₂ \times 16 ³ / ₈ \times 22 ¹ / ₂	13 ⁵ / ₈ \times 11 ¹ / ₈ \times 20 ⁷ / ₈	19 \times 11 ¹ / ₈ \times 20 ⁷ / ₈
Mass	approx. 37 kg (81 lb 9 oz)		approx. 22 kg (48 lb 8 oz)	approx. 24 kg (52 lb 14 oz)
CRT performance				
CRT type	HR Trinitron CRT with SMPTE-C phosphors 90° deflection, Center resolution 800 TV lines			
Screen size	AG pitch: 0.3 mm, \varnothing 30.6 in-line gun		AG pitch: 0.25 mm, \varnothing 29.4 in-line gun	
	Width	386 mm (15 ¹ / ₄ inches)	268 mm (10 ⁵ / ₈ inches)	
	Height	291 mm (11 ¹ / ₂ inches)	201 mm (8 inches)	
	Viewable area, measured diagonally	482 mm (19 inches)	332 mm (13 ¹ / ₈ inches)	
Color temperature	D65 / D93 / Adjustable to other color temperatures			
Preset brightness	100 cd/m ² (when a 1 Vp-p 100% white signal is input)			
Input performance				
Inputs	Loop-through BNC (\times 3)			
R/G/B	1.0 Vp-p \pm 6 dB, positive, high impedance			
Y	1.0 Vp-p \pm 6 dB, positive, high impedance			
R-Y/B-Y	0.7 Vp-p \pm 6 dB, positive, high impedance			
External sync	Loop-through BNC (\times 1) Composite sync: 0.3 to 8 Vp-p, negative, high impedance			
Return loss	More than 46 dB (6 MHz, with 75 Ω termination)			
Remote control inputs	Remote 1: Loop-through D-sub 9-pin (for RS-485 serial remote control) Remote 2: D-sub 9-pin; Option: Mini-Din 8-pin			
ISR	Control unit: D-sub 9-pin			N.A.
Video signal performance				
Differential gain	Within 5% (for luminance from 0 to 100 cd/m ²)			
Differential phase	Within 5° (for luminance from 0 to 100 cd/m ²)			
Frequency response	50 Hz to 7 MHz, +1 dB/-3 dB			
DC restoration	Back porch type, black level fluctuation, within 1% for 10 to 90% APL input signal variation			
Synchronization				
AFC time	Constant 2 ms			
Horizontal hold	Greater than \pm 500 Hz			
Retrace time	Vertical: within 1 ms; Horizontal: within 10 μ s			
Raster and picture performance				
Normal scan	5% over scan of the effective picture area			
Under scan	3% under scan of the effective picture area			
Stability of raster size	Less than 1% of picture height (at 100 cd/m ² peak luminescence, 10 to 90% APL)			
Linearity	Less than 1% within a central area bounded by a circle and about 2% at any other point			
Convergence error	Less than 0.5 mm within a central area bounded by a circle; less than 0.9 mm at any other point		Less than 0.4 mm within a central area bounded by a circle; less than 0.8 mm at any other point	
Operating conditions				
Operating temperature range	0 to 35°C (32 to 95°F) Optimum operating range 20 to 30°C (68 to 86°F)			
Humidity	0 to 90% (no condensation)			
Altitude	Approx. 3,050 m (10,000 ft)			

Supplied Accessories:

AC power cord (1), Cord stopper (1), Tally plate (1), Operation manual (1)

Reproduction in whole or in part without written permission of Sony Corporation is prohibited.
Features and specifications subject to change without notice.
All non-metric weights and measures are approximate.
Sony and Trinitron are trademarks of Sony Corporation.

Distributed by