BVM-A Series



Broadcast and Professional Monitors



The BVM-A Series of digital —the widest ranging



Sony now redefines its decades of professional monitor experience with the introduction of a new family of BVM Series monitors. The BVM-A Series of digital monitors, with a number of impressive enhancements, has been designed to surpass the conventional concepts of existing high-grade CRT monitors.

Positioned as a successor to the market-acclaimed Sony BVM-D Series, the BVM-A Series – as an industry first – presents a full and consistent line of master-grade CRT monitors. The BVM-A Series monitors are offered in four different CRT sizes – the 32-inch^{*1} and 24-inch^{*2} models with 16:9 aspect ratios, and the 20-inch^{*3} and 14-inch^{*4} models with 4:3 aspect ratios. All four monitors support multi-format input, accepting a range of SD and HD signal formats, with the added capability of dual-link HD-SDI input to monitor top-quality images up to 1080/50i and 1080/60i 4:4:4 RGB^{*5}.

- *1 295/8-inch viewable area measured diagonally.
- *3 19-inch viewable area measured diagonally.

*2 217/8-inch viewable area measured diagonally. *4 131/8-inch viewable area measured diagonally.

*5 with appropriate option cards inserted.

monitors master-grade monitor series

While inheriting the modular design concept from its predecessor BVM models, a thorough review of its input boards has been conducted. This has resulted in a simplified board lineup that makes input configuration easier, while also offering optimized cost-per-input value. All BVM-A Series monitors use the same optional input boards, so they can be effectively shared between monitors when the need arises^{*6}.

The BVM-A Series also incorporates an all-new Ethernet[™] – based control system, allowing standard network cables and hubs to be used for easy configuration, high reliability, and high communication speed. And for monitor setup and control, the same logical menu structures and Auto Setup capabilities have been retained from its BVM predecessors, further facilitating system setup.

Designed to meet the critical needs of today and tomorrow, the BVM-A Series is the choice for any high-grade monitoring application in studio production, post-productions, telecine and broadcast operations.

*6 The BVM-A Series input boards are not compatible with other earlier BVM Series monitors.

Top Quality Monitoring



A Full Line of Master-grade Monitors

The BVM-A Series of monitors comprises four models – the 32-inch BVM-A32E1WU*¹ and the 24-inch BVM-A24E1WU*² with a 16:9 aspect ratio, and the 20-inch BVM-A20F1U*³ and the 14-inch BVM-A14F5U*⁴ with a 4:3 aspect ratio. All four monitors have been developed in line with Sony's evaluation-grade monitor standards, providing the high resolution and wide and natural frequency response required for master monitoring applications. This consistent image quality is a significant benefit over conventional monitor product lines, which can offer lower specifications for smaller screen sizes.

- *1 29 5/8-inch viewable area measured diagonally.
- *2 217/8-inch viewable area measured diagonally.
- *3 19-inch viewable area measured diagonally.
 *4 13 1/8-inch viewable area measured diagonally.

Flat surface HR Trinitron

To provide the highest possible picture quality, all BVM-A Series monitors are equipped with CRTs manufactured by Sony, using either SMPTE-C or EBU standard phosphors. Flat surface 16:9 aspect HR Trinitron CRTs have been exclusively designed for the BVM-A32E1WU and BVM-A24E1WU models.

Faithful Color Reproduction

The BVM-A Series monitors are designed to provide most accurate phosphor chromaticity, white uniformity, and color temperature, thereby achieving extremely faithful color reproduction.

Stable Color Temperature

The internal beam current feedback circuit equipped on the BVM-A Series monitors maintains a constant color temperature over a long period of time.

📕 Multi-format Signal Support

With the appropriate input boards installed, all BVM-A Series monitors support a spectrum of SD and HD signals with frequency responses ranging from 15 kHz to 45 kHz (horizontal)/48 Hz to 60 Hz (vertical). Input signals are scanned on the CRT raster at their native frequencies and native line counts, with no scan conversion processes involved.

Dual-link HD-SDI

To be prepared for the fast-paced changes in video production, the BVM-A Series monitors offer dual-link HD-SDI capability, meeting the SMPTE 372M standard. Using two HD-SDI connectors in a pair, the BVM-A Series allows a variety of digital 4:4:4 HD signals to be accepted in both GBR and Y/PB/PR signal formats.

BVM-A Series Acceptable Signal Formats

No	System nomenclature	Samples per active line	Active lines per frame	Frame Rate fV (Hz)	Interface sampling freq (MHz)	Samples per total line	Total lines per frame	Line Frequency fH(kHz)	Standard	
1	525/59.94/2:1	720	483	59.94	13.5	858	525	15.734	Rec.ITU-R BT.601	
2	625/50/2:1	720	575	50	13.5	864	625	15.625	Rec.ITU-R BT.601	
3	525/59.94/1:1	720	483	59.94	27	858	525	31.469	SMPTE 293M / Rec.ITU-R BT.1358	
4	625/50/1:1	720	576	50	27	864	625	31.25	Rec.ITU-R BT.1358	
5 192	1000 1000/040 5	1920	1080	48	74.25	2750	1125	27		
	1920x1080/24PSF	1920	1080	48/1.001	74.250/1.001	2750	1125	27/1.001	SMPTE RP 211	
6*1	1920x1080/50/2:1	1920	1080	50	74.25	2640	1125	28.125	SMPTE 274M	
7*2	1920x1080/60/2:1	1920	1080	60	74.25	2200	1125	33.75		
		1920	1080	60/1.001	74.250/1.001	2200	1125	33.75/1.001	SIMPLE 274IM	
8 1	1920x1035/60/2:1	1920	1035	60	74.25	2200	1125	33.75		
		1920	1035	60/1.001	74.250/1.001	2200	1125	33.75/1.001	SIMPLE 240IM / BTA S-001B	
9	1280x720/60/1:1	1280	720	60	74.25	1650	750	45	CNADTE 20CNA	
		1280	720	60/1.001	74.250/1.001	1650	750	45/1.001	SIVIPTE 290IVI	
10	1280x720/50/1:1	1280	720	50	74.25	1980	750	37.5	SMPTE 296M	

*1 Also accepts 1920x1080/25PsF signals. *2 Also accepts 1920x1080/30PsF signals.

Flexible Input Configurations

Modular slot design

The BVM-A Series uses a modular slot design, so inputs can be configured according to individual needs. Three input board slots are available on all models. Optional input boards can be installed in any board slot, and in any combination. These Option boards utilize only one slot each, so up to three cards can be installed for maximum flexibility.



Logically designed input boards

In developing the BVM-A Series, Sony conducted a thorough review of its optional input boards. The result is a more logical and flexible input capability integrated into three optional boards, allowing easier configuration and better cost-perinput value. This approach also enables all BVM-A Series monitors to share the same boards. The following chart describes the input signal types that each board* accepts.

* The BVM-A Series input boards are not compatible with other earlier BVM Series monitors.

Optional Input Boards

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HD SDI SDI



Input Signals by board

	System Nomenclator	Signal Format	BKM 62HS	BKM 61D	BKM 68X
Analog		Composite, YC (NTSC/PAL-M)		0	
	525/59.94/2:1	Y R-Y B-Y / GBR			0
		Composite, YC (PAL/SECAM)		0	
	625/50/2:1	Y R-Y B-Y / GBR			0
	525/59.94/1:1	Y R-Y B-Y / GBR			0
	625/50/1:1	Y R-Y B-Y / GBR			0
	1920x1080/24PsF*3	Y PB PR / GBR			0
	1920x1080/50/2:1, 25PsF*3	Y PB PR / GBR			0
	1920x1080/60/2:1, 30PsF*3	Y PB PR / GBR			0
	1920x1035/60/2:1*3	Y PB PR / GBR			0
	1280x720/60/1:1*3	Y PB PR / GBR			0
	1280x720/50/1:1	Y PB PR / GBR			0
	E2E/E0 04/2+1	Component Digital (D1)	0	0	
≂	525/59.94/2:1	Composite Digital (D2)		0	
S	625/50/2:1	Component Digital (D1)	0	0	
	625/50/2:1	Composite Digital (D2)		0	
	4000 4000 /D 5*3	4:2:2 Single Link / Y PB PR	0		
	1920X1080/24PSF	4:4:4 Dual Link / Y PB PR / GBR	0		
	1020-1000/250-5	4:2:2 Single Link / Y PB PR	0		
	1920X1080/25PSF	4:4:4 Dual Link / Y PB Pr / GBR	0		
(Alu	1020-1080/200-5*3	4:2:2 Single Link / Y PB PR	0		
o E	192021000/30FSF	4:4:4 Dual Link / Y PB Pr / GBR	0		
yste	1020-1090/50/2-1	4:2:2Single Link / Y PB PR	0		
bit s	192021080/50/2.1	4:4:4 Dual Link / Y PB Pr / GBR	0		
10	1020-1020/00/2012-1*3	4:2:2 Single Link / Y PB PR	0		
HD SDI (1920x1080/60/2:1	4:4:4 Dual Link / Y PB Pr / GBR	0		
	1920x1035/60/2:1*3	4:2:2 Single Link / Y PB PR	0		
	1280x720/60/1:1*3	4:2:2 Single Link / Y PB PR	0		
	1280x720/50/1:1	4:2:2 Single Link / Y PB PR	0		
	Number of Digital Inpu	2*4	2	0	
	Number of Analog Inp	0	3	1	

*3 Also compatible with 1/1.001 frame rates.

æ BKM-62HS

 \Diamond

BKM-61D

BKM-68X

Operational Convenience



New Modular Monitor Control Unit (BKM-15R)

The modular design of the BVM-A Series, in which the monitor and control panel are provided as separate units, allows for greater flexibility in system integration. The BVM-A Series incorporates a new Monitor Control Unit – the BKM-15R – which can be attached below the monitor using the optional Attachment Kit*, or connected remotely via an Ethernet cable.

* The optional BKM-36H Attachment Kit is for the BVM-A24E1WU and the optional BKM-35H Attachment Kit is for the BVM-A20F1U. The BKM-15R does not attach to the BVM-A32E1WU. An attachment kit is not required for the BVM-A14F5U.

Ethernet-based Remote Control*1

A huge benefit of the BVM-A Series is its new Ethernet-based remote control system. The BVM-A Series monitors and BKM-15R*² Monitor Control Unit are equipped with Ethernet ports, allowing remote control of display parameters across a standard Ethernet connection.

The BVM-A Series Ethernet control system allows the connection of up to 32 nodes of monitors and BKM-15Rs. This means that with one BKM-15R, up to thirty-one monitors can be controlled.

- *1 Earlier remote control units (BKM-10R and BKM-11R) are not compatible with the BVM-A Series Ethernet control system.
- *2 The BKM-15R is not compatible with earlier BVM Series monitors.

Memory Stick[®] Media Slot

The optional BKM-15R has a Memory Stick[™] slot to save and load monitor setup and adjustment data on Memory Stick media*. In multiple monitor systems, this allows data to be exchanged between units so that the same setup and adjustment status is easily retained.

 * Accepts standard-type Memory Stick media only. Memory Stick media with high-speed transfer capability or Magic Gate copyright protection technology cannot be used.

🗖 Remote Maintenance

The BVM-A Series monitors support the SNMP protocol through their Ethernet ports, which allows maintenance information to be monitored. By using compatible remotemaintenance software, it is possible to monitor the display's status as well as upgrade software via a Local Area Network.

- Status (model name, serial number, I/P address, software version, etc.)
- Error information
- Upgrade software (ftp)

BKM-15R Monitor Control Unit

Front Panel



Rear Panel



Marker Settings

The BVM-A Series monitors can display various markers, including an aspect marker, safe area marker, and center marker.

In addition to this flexible selection of marker types, detailed display settings of each marker are offered. For example, the brightness, horizontal position, and width of aspect markers can all be controlled, while the height and width of safe area markers can also be adjusted. What's more, users can also choose to display the title of the safe area marker, and select its position and size.

These flexible marker controls, together with the choice of many different marker selections, make the BVM-A Series the perfect all-round display device for a variety of shooting scenarios - from SD/HD video acquisition to digital cinematography.

Marker Variation

	Aspect Mode	16:9, 15:9, 14:9, 13:9, 4:3, 2.39:1, 2.35:1, 1.85:1, 1.77:1, VARIABLE	
Aspect Marker	Aspect Marker Color	White, Red, Green, Blue, Yellow, Cyan, Magenta	
	Aspect Blanking	Black, Gray	
	Marker Mode	SHAPE A, SHAPE B, SHAPE C	
Safe Area/	Area Size	80%, 88%, 90%, 93%, VARIABLE	
Center Markers	Center Marker	Short, Long	
Safe Title Display		Width, Height, H Position, V Position	

4 Marker Examples









Screen Size: 16:9 Aspect Mode: 2.35:1 Aspect Marker Color: White Marker Bright: 90IRE Width: THICK Safe Area: SHAPE A Area Size[,] 80% Center Marker: Short Aspect Blanking: Off

Screen Size: 16:9 Aspect Mode: 14:9 Aspect Marker Color: White Marker Bright: 40IRE Width: THIN Safe Area: SHAPE B Area Size: 80% Center Marker: Short Aspect Blanking: Off Safe Title: ON

Aspect Mode: 13:9 Aspect Marker Color: White Marker Bright: 40IRE Width: THICK Safe Area: SHAPE C Area Size: 80% Center Marker: SHORT Aspect Blanking: ON, HALF

Screen Size: 16:9 Aspect Mode: 4:3 Aspect Marker Color: Green Marker Bright: 90IRE Width: THICK Safe Area: SHAPE C Area Size: 80% Center Marker: LONG Aspect Blanking: ON, BLACK

Screen Size: 16:9

Easy Setup and Adjustment

Auto White Balance

The color temperature of BVM-A Series monitors can be automatically adjusted by the auto white balance function using the optional Sony BKM-14L* Auto Setup Probe. Probes from other manufacturers, including the Konica Minolta CA100/100 plus, DK-Technologies PM5639, THOMA TF6, and UDT Instruments SLS 9400 can also be used.

* The Sony BKM-14L is required for auto uniformity and landing adjustment. Probes other than the Sony BKM-14L require a cable to connect the color analyzer to the monitor.

📕 Auto Chroma/Phase/Matrix Setup

The BVM-A Series monitors automatically select the most appropriate decode matrix from one of the three matrices (ITU 601, ITU 709, or SMPTE 240M), according to the input signal. An Auto Chroma/Phase setup function is also provided, which automatically adjusts the monitor's chroma, phase and matrix using external color bars.

Digital Uniformity

With the BVM-A Series monitors, white can be reproduced uniformly on every point of the screen, even in the peripheral area, using the digital uniformity circuit. This adjustment can be made manually or automatically, with the use of the optional BKM-14L Auto Set-up Probe.



BKM-14L Auto Setup Probe

Other Features

- Parallel remote control function
- Built-in test signal generator for crosshatch, 100% white signal, 20% gray signal, grayscale, and PLUGE (Picture Line Up Generating Equipment)

Beam Landing Correction

The BVM-A32E1WU and BVM-A24E1WU are capable of correcting beam landing shift that may occur as a result of terrestrial magnetic influence. This correction can be made manually*, or automatically with the use of the optional BKM-14L Auto Set-up Probe.

* Beam Landing Correction on the BVM-A20F1U and BVM-A14F5U is performed manually.

Digital Convergence

The BVM-A32E1WU is capable of adjusting the convergence at each point of the screen, even in the peripheral area, through the digital convergence circuit.

"+12dB Chroma Up" Button (BKM-15R)

A "CHROMA UP" button located on the BKM-15R front panel allows the Chroma Level to be boosted by +12dB. This is a convenient feature for adjusting camera white balance with a high degree of accuracy.

Character Off" Button (BKM-15R)

To facilitate parameter adjustments, the On-Screen Menu indication can be taken off the screen, while the Menu mode is still active. The On-Screen Menu indication can be toggled on or off simply by the press of a button on the BKM-15R front panel.

Color Temp" Button (BKM-15R)

A Color Temperature button located on the BKM-15R front panel enables instant access to the manual white balance adjustment mode without using the On-Screen menu.



BKM-15R Front Panel Close-up

- H/V delay function for checking the horizontal and vertical synchronization signals
- Auto and manual degaussing

Optional Accessories



BKM-15R Monitor Control Unit





BKM-30E20BKM-30E1419" EIA Standard Rack19" EIA Standard RackMount KitMount Kit(for BVM-A20F1U(for BVM-A14F5Umonitors)monitors)





BKM-61D

12.12

BKM-35H Monitor Control Unit Attachment Kit (for BKM-15R with 20" monitors)



BKM-68X Analog Component Input Adaptor



BKM-36H Monitor Control Unit Attachment Kit (for BKM-15R with 24" monitors)



BKM-14L Auto Set-up Probe



MB-510 19" Rack Mount Kit (for BKM-15R)



SMF-700 Monitor Interface Cable

Specifications

BKM-15R

	BKIVI-IDK			
GENERAL				
Power requirements	AC : 100 V to 240 V, 50/60 Hz DC : 5 V (supplied from Monitor) AC is prior to DC			
Power consumption	11 W			
Dimensions (W x H x D)	16 3/4 X 2 3/8 X 9 7/8 (inch) 424.0 X 58.8 X 247.8 (mm)			
Weight	approx. 4 lb 7 oz approx. 2 kg			
Operating temperature	0 to 35 °C Optimum operating range 20 to 30 °C			
Storage temperature	-10 to 40 °C			
Humidity	30 to 90 % (no condensation)			
Input/Output				
LAN	Ethernet (10 BASE-T/100 BASE-TX), RJ-45 x1			
DC 5V IN	Circle 4-pin DC Connector (male x 1)			
Others				
Memory stick slot	Memory Stick/Memory Stick Duo Compatible			
Dimensions Unit: inches (mm)				
	16 3/4 (424.0)			

Specifications

		BVM-A32E1WU	BVM-A24E1WU				
GENERAL							
Signal format		15.625 kHz to 45 kHz (For more details, please refer to the Acceptable Formats table.)					
Туре		Display unit					
Power requirements		100 V to 240 V AC ± 10%, 50/60Hz					
Power consumption (with Option board; Max.)		apprpx. 235 W (Max.)	210 W (Max.)				
Dimensions (W x H x D)		31 ³ /8 x 21 ⁷ /8 x 26 (inch)	22 ³ /8 x 17 ¹ /4 x 23 ¹ /8 (inch)				
		794.0 X 555.4 X 694.0 (mm)	565.5 X 436.8 X 587.3 (mm)				
Weight		approx. 211 lb 10 oz	approx. 116 lb 14 oz				
		approx. 96 kg	approx 53 kg				
CRT CR	RT type	32-inch HR Trinitron (flat surface, 16:9 aspect) 24-inch HR Trinitron (flat surface, 16:9 as					
AC	5 pitch	0.32~0.36mm, 90 ° deflection, Ø29.1 mm in-line gun	0.25~0.28 mm, 90 ° deflection, Ø29.1 mm in-line gun				
VIS	ual screen	4:3 19 3/8 X 14 3/8 Incn , (24 1/4 Incn)	4:3 ZZ 3/8 X 17 1/4 Incn , (17 //8 Incn)				
(VIE	accolly)	4.5 491.5 300.5 $11111, (014.11111)$	4.5 501.0 X 271.2 (1)(1), (452 (1)(1))				
uia W v	(H (Diagonal)	$16.9 25.78 \times 14.98$ mm (751.7 mm)	16.9 /82 1 x 271 2 mm (553 1 mm)				
Ph	osphor	SMPTE-C/ERU	SMPTE-C/FRU				
Input / Outp	ut		Sivil TE C/EBO				
Video		Refer to "Input Signals by	y board" chart on page 5				
Control	LAN	Eithernet (10 BASE-T/1	00 BASE-TX), RJ-45 x1				
	Parallel remote	D-sub 9-pin x 1 (Short to ground)				
	Option	RS-232C serial interfa	ce, Mini DIN 8-pin x 1				
DC 5V IN		Circle 4-pin DC Cor	nnector (female x 1)				
Video signal	performance						
Differential	gain (DG)	Within 5% for luminance from 0 to 70 cd/m ²	Within 5% for luminance from 0 to 100 cd/m ²				
Differential	phase (DP)	Within 5° for luminance from 0 to 70 cd/m ²	Within 5° for luminance from 0 to 100 cd/m ²				
Frequency r	esponse	48 Hz to 30 MH	lz +1dB/-3 dB				
DC restorat	ion	Back porch type, back porch level: within 1% of peak luminance, 10 to 90% APL					
Synchroniza	tion						
Retrace time	Horizontal	unaer 3.77 µ sec					
Pastor and pi		under os	υ μ sec				
Normal scan		5% over scan of the effective picture area					
		3% under scan of the effective picture area					
Linearity		Less than 1% within circle centered on the screen with	Less than 0.5% within circle centered on the screen with				
Enconty		a diameter equal to the vertical height, 2% at any other point	a diameter equal to the vertical height, 1% at any other point				
Color temp	erature	D65 / D93 / D61 / USER1-5 (User adjustable)					
Convergend	ce	Less than 0.5mm within circle centered on the screen with	Less than 0.4mm within circle centered on the screen with				
2		a diameter equal to the vertical height, 0.8 mm at any other point	a diameter equal to the vertical height, 0.7 mm at any other point				
Preset brigh	ntness	70 cd/m ² (when a 1.0 Vp-p 100% white signal is input)	100 cd/m ² (when a 1.0 Vp-p 100% white signal is input)				
Stability of	raster size	1% of picture height (at 70 cd/m ² peak luminescence, 10 to 90 % APL)	1% of picture height (at 100 cd/m ² peak luminescence, 10 to 90 % APL)				
Scan delay	Horizontal	Approx. 2/9 line					
	Vertical	Approx. 1/2 field					
Resolution ((Center)	16:9: 1000 IV lines, 4:3 1000 TV lines					
Operating co	onditions	0 to 25 °C. Optimum operating range 20 to 20 °C					
Operating t	emperature	0 to 35 °C, Optimum operating range 20 to 30 °C					
Humidity	iperature	- TU TO 40 °C 30 to 90 % (no condensation)					
Others							
Supplied accessories		AC cable. AC plug holder. Fuse. Operation manual					
Dimensions Unit: mm (inches)							
		$\begin{array}{c} 31^{3}/8 (794.0) \\ \hline \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$\begin{array}{c} 22^{3/8} (565.5) \\ (55) \\ (5)$				





BVM-A24E1WU







BVM-A14F5U

		BVM-A20F1U	BVM-A14F5U				
GENERAL							
Signal format		15.625 kHz to 45 kHz (For more details, please refer to the Acceptable Formats table.)					
Type		Display unit Stand-alone monitor					
Power requirements		100 V to 240 V AC ± 10%, 50/60Hz					
Power consumption							
(with Option board; Max.)		200 W (Max.)	170 W (Max.)				
Dimensions	(W x H x D)	17 3/8 x 16 3/8 x 22 1/2 (inch)	19 x 11 1/8 x 22 1/2 (inch)				
		444 X 414 X 570 (mm) 482 X 280 X 571 (mm)					
Weight		approx. 88 lb 3 oz approx. 57 lb 5 oz					
		approx 40 kg	approx, 26 kg				
CRT CR	T type	20-inch HB Trinitron	14-inch HB Trinitron				
AG	nitch	0.30 mm 90 ° deflection Ø30.6 mm in-line aun	0.25 mm. 90 ° deflection. Ø29.4 mm in-line gun				
Visi	ual screen	4.3 15 1/4 x 11 1/2 inch (19 inch)	4:3 10.5/8 x 8 inch (13.1/8 inch)				
(Vie	wahle area measured	4.3 386 x 291 mm (482 mm)	4:3 267.5 x 200.6 mm (331.6 mm)				
dia.	aonally)	$4.5 300 \times 251 \text{ mm}, (402 \text{ mm})$	$16.9 10.5\% \times 6 \text{ inch} (12.1\% \text{ inch})$				
dia	gonally)	16.9 386 x 218 mm (4/3 mm)	16.9 10.9				
Dhocphor	gonally)		10.9 207.5 X 150.5 (11(1), (300.9 (11(1))				
		SIVIPTE-C/EBU	SIMPLE-C/EBO				
	ut	Defente llineut Circulatu	, has well also the second F				
Video		Fith and the DAGE TH					
Control	LAN Devellet versete	Eithernet (10 BASE-T/100 BASE-TX), RJ-45 x1					
	Parallel remote	D-sub 9-pin X T (Short to ground)				
	Option	RS-232C serial interra	ce, iviini din 8-pin x i I				
DC 5V IN		Circle 4-pin DC Connector (female x 1)	-				
Video signal	performance						
Differential	gain (DG)	Within 5% for luminance	te from 0 to 100 cd/m2				
Differential	phase (DP)	Within 5° for luminance from 0 to 100 cd/m2					
Frequency r	esponse	48 HZ TO 30 MHZ + 108/-3 08					
DC restorati	on	Back porch type, back porch level, within 1% of peak luminance, 10 to 90% APL					
Synchronizat	ion						
Retrace time	Horizontal	under 3.7	77 μ sec				
	Vertical	under 65	0 μ sec				
Raster and pic	ture performance						
Normal scar	ו	5% over scan of the effective picture area					
Under scan		3% under scan of the effective picture area					
Linearity		Less than 0.5% within circle centered on the screen with					
		a diameter equal to the vertical height, 1% at any other point					
Color tempe	erature	D65 / D93 / D61 / USER1-5 (User adjustable)					
Convergenc	e	Less than 0.4mm within circle centered on the screen with					
		a diameter equal to the vertical height, 0.7 mm at any other point					
Preset brigh	tness	100 cd/m ² (when a 1.0 Vp-p 100% white signal is input)					
Stability of r	aster size	1% of picture height (at 100 cd/m ² peak luminescence, 10 to 90 % APL)					
Scan delay	Horizontal	Approx	x. 2/9 line				
	Vertical	Approx.	1/2 field				
Resolution (Center)	16:9: 700 TV lines, 4:3 900 TV lines	16:9: 600 TV lines, 4:3 800 TV lines				
Operating co	onditions						
Operating te	emperature	0 to 35 °C, Optimum operating range 20 to 30 °C					
Storage temperature		-10 to 40 °C					
Humidity		30 to 90 % (no condensation)					
Others							
Supplied accessories		4:3 mask, FUSE, AC cable, AC plug holder, Tally label, Operation manual					
Dimensions	Unit: mm (inches)						
		22.1(6.(570)					
		17 ³ /8 (444) 22 ¹ /2 (5/0) 11/8	13/4 35/8 145/8 (370)				
			(45) (56) <right side=""></right>				
			193/4 (500) 111/8 (28) 11/8 73/8 (185)				
		9					
		198.					
		B 6 13/16 (Ø30)	131/2 (340)				
		13 (328) <u>a</u> <u>5</u> <u>31/4</u> 167/8 (425.8) (81)	(90) (43)				
		(01)	<left side=""></left>				



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