SONY



BVM-HX310

Professional Master Monitor

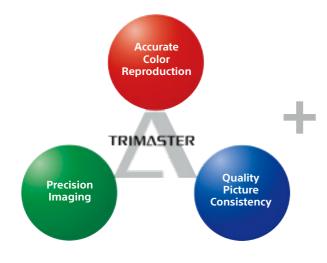
TRIMΔSTER HX

Sony introduces a new technology brand, TRIMASTER HX.

H=HDR

X=Liquid Crystal Display

TRIMASTER HX enables a new Sony professional LCD monitor, achieving accuracy and consistency of color reproduction and image quality that professionals can trust.





Sony-specified Million Contrast LCD



Sony's unique technology for this new LCD

- \star Optimized algorithm for new LCD control
- \star Unique correction for temperature stability
- \star Accurate color reproduction in low light

ACCURATE COLOR



Richer colors in dark areas

By accurately reproducing colors in the low-luminance range, Sony's solution allows you to increase image quality by fine-tuning colors in dark areas.

HIGH DYNAMIC RANGE



Exceptional dynamic range

Thanks to its high dynamic range, Sony's solution faithfully reproduces a camera's dynamic range for smooth, beautifully detailed gradations.

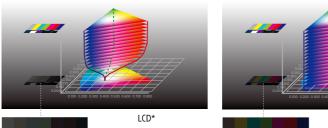
BLACK REPRODUCTION

Deeper, truer blacks Sony's solution produces truer blacks, assuring you of a highly precise black level even when viewing under low ambient light.

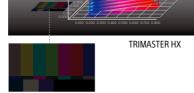
Accurate Color Reproduction

The wide color gamut generated by this technology assures faithful and consistent color reproduction over the entire luminance range.

- Adjusts tone and color during the color grading process
- Reproduces accurate and deep color when working with CG for animation and games
- Reproduces the wide color gamut of digital cinema



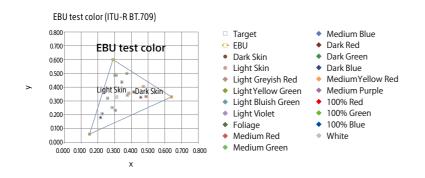




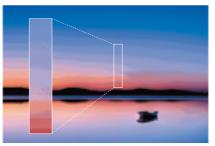
* Colour gamut images based on Sony's test results.

Sony's TRIMASTER HX technology not only offers a wide color gamut with accuracy for each of the three primary colors, but also maintains this wide color gamut throughout the entire luminance range.

The BVM-HX310 can reproduce precise colors as a master monitor.



TRIMASTER HX technology offers smooth gradation throughout the entire luminance range without banding to provide the level of performance required for critical imaging.





Example conventional processing

TRIMASTER HX

* Simulated image

The BVM-HX310 can display video content accurately even from a single pixel; for example, a small star in the night sky. It is designed to achieve reference monitor quality, which necessitates correct indication of the image even in very small areas such as just one pixel. The BVM-HX310 offers superb uniformity throughout the entire luminance range.



* image

High Dynamic Range Mode

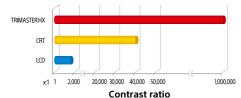
In addition to the intrinsic high-contrast performance of the TRIMASTER HX panel, this monitor offers high dynamic range (HDR) mode. This provides extremely high levels of picture quality and image reproduction. The black areas are black, and peak brightness can be reproduced more realistically with rich colors. These high levels of highlight and color are typically saturated and limited in the conventional standard dynamic range.

Conventional standard dynamic range High Dynamic Range mode



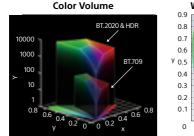
Highlight is clipped; less shadow detail

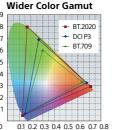
Render shadow detail to highlight *Simulated images



The wide color gamut works together with the HDR function, as higher resolution typically requires a wider color gamut. The ITU-R BT.2020 prescribes a much wider color gamut than the BT.709 in support of higher resolution images.

The color volume increases dramatically in an HDR system compared to an SDR system. As seen in the image below, the color gamut increases in the horizontal plane and the luminance level increases in the vertical axis. This has a synergistic effect – combining the high-resolution HDR and WCG gives a much more realistic and three-dimensional effect in image reproduction. And this in turn produces high-level, high-quality natural images.





The BVM-HX310 achieved 1,000 nits^{*1} of brightness in full screen with a 1,000,000:1 contrast ratio which is especially suitable for HDR content. Accurate signals are always presented on display without worrying about the total brightness restriction of full-screen power consumption. *Typical at D65





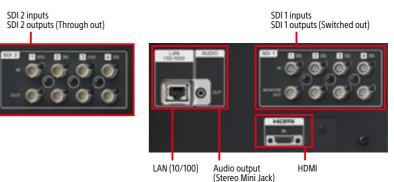
ABL

No automatic brightness limitter *Simulated images

12G/6G/3G/HD-SDI and HDMI

This master monitor supports 12G/6G/3G/HD-SDI and HDMI enabling simple 4k transmission with a single cable.

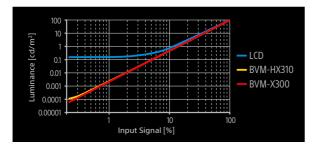
Rear connector panel



Satisfaction of Seeing Truer Blacks

This TRIMASTER HX monitor superbly reproduces deep, truer blacks, allowing you to pick out subtle details and delicate highlights in surrounding areas. TRIMASTER HX technology accurately and clearly expresses color difference in extremely low luminance areas, which guarantees accurate image reproduction.

- TRIMASTER HX technology accurately displays noise and details in dark areas, allowing aperture and exposure to be finely adjusted, which avoids unwanted image artifacts.
- Video engineers can concentrate on grading tone and color more precisely and it is easier to adjust the black signal level, as shown in the pictures below.









BVM-X300

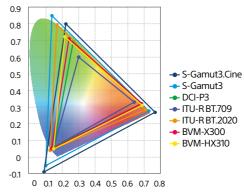
4K 4096 x 2160 Pixel Resolution LCD Panel

The BVM-HX310 incorporates a 31.1-inch true 4K panel at 4096 x 2160 pixel resolution. The aspect ratio is 1.89:1 (17:9) so images are mapped with no scaling processes.

Supports DCI P3 and ITU-R BT.2020 Wide Color Spaces

The BVM-HX310 offers industry-leading wide color gamuts. It complies with the DCI-P3 color gamut and supports the ITU-R BT.2020 color space. S-GAMUT3. cine*¹ and S-GAMUT3*¹ color gamuts are also supported to achieve coherent cinematography production workflow with Sony's 4K cinematography cameras. *¹ The BVM HX310 does not fully cover the ITU-R BT.2020, S-Gamut/S-Gamut3 and S-Gamut3.cine color space.

Wider Color Gamut





* Simulated image

Gamut Marker

When ITU-R BT.2020 colors which are outside the ITU-R BT.709 or DCI-P3 color gamuts are detected, the master monitor indicates this with a zebra pattern over the relevant area of the picture. Gamut marker is a convenient feature that instantly tells viewers of the occurrence of such colors in the picture.

Sony S-Log Gamma, Hybrid Log-Gamma and SMPTE ST 2084 Support

The BVM-HX310 supports conventional 2.2, 2.4, 2.6, and CRT gamma. In addition, it supports standardized EOTF for HDR (High Dynamic Range) such as SMPTE ST 2084 and ITU-R BT.2100(HLG). Both standards are used to cover various demands in the broadcast and cinematography industries. EOTF tables for live and post-production environments such as 2.4(HDR), S-Log2(HDR), S-Log3(HDR) and S-Log3(Live HDR) are also included. The latter is especially important as it offers easier camera control for high dynamic range live production (SR Live).

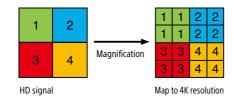
S-Log gammas are OETF curves used in Sony's digital cinematography cameras that allow you to capture the full latitude of the camera imager to be maintained throughout the production chain. Unlike conventional systems, in which highlight contrast is compressed, S-Log gamma logarithmically converts the video signal using characteristics similar to film negatives. This keeps the camera imager's dynamic range intact, even in extreme highlight areas.

The BVM-HX310 exhibits EOTFs which allow the reproduction of images with an inverse function of the camera's S-Log gamma signals.

Two display modes are offered: S-Log2 and S-Log3. Both of them enable easy workflows close to that of film, and deliver a 4K wide dynamic range. These log functions include the entire latitude range captured by the camera. When the BVM-HX310 is set to S-Log mode, it will display this range without the need for any signal correction or user LUTs.

Accurate Upscale Conversion with Dot by Dot

By copying one dot four times, the HD signal is mapped to the 4K panel without pixel interpolation. This makes it possible to recognize pixel omissions. And by combining this with interlace display mode, ODD / EVEN mistakes, etc., can be easily found.



Quad-View Display Function

The BVM-HX310 has a quad-view display function*¹ which – across four distinct views – allows customized individual display settings including:

- Electro-optical transfer function (EOTF)
- Color space, transfer matrix, and color temperature
- Contrast, brightness, and chroma
- Interface (3G-SDI, HD-SDI including Single Link/Dual Link and HDMI)
- Signal structure (RGB and YC_BC_R)

An example application for quad-view display in production would be viewing the original footage on screen A, EOTF-converted image on screen B, another EOTF-converted image on screen C, and EOTF/color space-converted image on screen D.

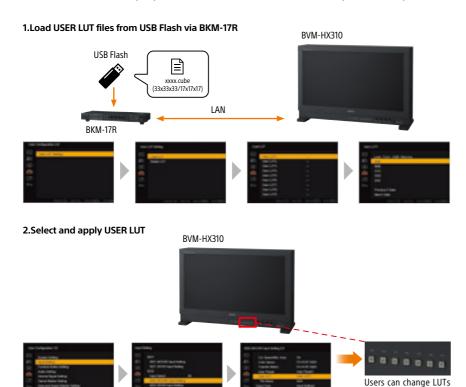
*1 Inputs must be HD signals. The BVM-HX310 doesn't support down conversion from 4K. Any four HD signals can be displayed by selecting from SDI1 and HDMI, or SDI2 and HDMI.



* Simulated image

USER LUT (Look-Up Table)

During on-set operation or in post-production, there is always a need to check the image during a pre-grading process or with a different EOTF. The BVM-HX310 has a user LUT function on the side of the monitor which allows you to display customized LUTs. Together with the quad-view mode, multiple user LUTs can be displayed on the same screen for side-by-side comparison.



from function button by selecting Input Setting.



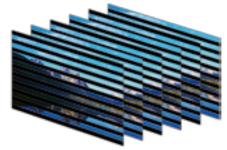
Compared with HD SDR, 4K HDR production has various and complex combinations of EOTF, color space, and RGB range. VPID automatically identifies source information embedded in the SDI signal and performs the correct monitor setting, minimizing human error.

Low Process Delay

For a master monitor, a less process delay capability is very important especially in live production or broadcasting systems. Process delay in the BVM-HX310 is less than one frame and it ensures real-time video monitoring.

Interlace Mode

The BVM-HX310 monitor offers an Interlace Display feature. This enables input to be presented as a true interlace display. As with the Native Scan function, Interlace Display mode offers faithful reproduction of the input signal, and the displayed interlace fields are free from the picture degradation that can occur as a result of typical I/P conversion processes.



* Simulated image

Faster access to the status menu page

BVM-HX310 can retain the settings last used in the status menu, such as Color space, EOTF, User Preset and more. Once you check them from the status menu and close the menu, you can quickly see them when you open the menu again.



User Presets

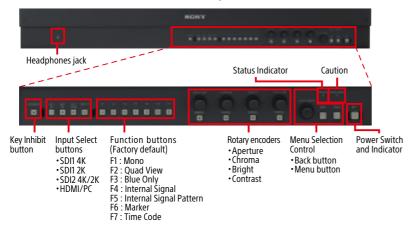
When multiple users share the same monitor, each user can memorize his/ her settings and retrieve this data whenever required. This frees the user from time-consuming and repetitive setting tasks. Up to five User Presets can be memorized.

	Preset Setting	
200	Color Temp.:	
-	Contrast:	
(A)	Brightness:	
B		
	Aperture:	
0-11	Copy From:	
		Set On Back: SHE Extra Str.

User-friendly Built-in Control Panel

The BVM HX310 incorporates a built-in control panel in front, which offers common operability with BVM-X300:

- Seven user assignable function buttons
- Manual controls for aperture, chroma, brightness, and contrast
- Separate 4K and 2K settings, enabling users straightforward operation
- Dimmable button lights and on/off switchable indicator lights



Front control panel

Password Lock for User Preset

When multiple users share the same monitor, each user can register his/ her own password for color temperature and user preset data. This ensures the user correctly recalls their preset data, and keeps preset information safe from unauthorized use.

Power-on Setting

This function allows users to select setting data when the monitor starts up; this includes last memory, user preset, and factory preset settings. Users can set the monitor accurately and quickly. This function is very useful for rental equipment.

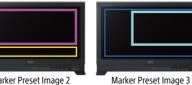
Key Inhibit

The KEY INHIBIT button located on the front panel protects each user's settings. When a user wants to change these values, the lock can be released.

Flexible Area Marker

Two flexible area markers can be freely set anywhere on the screen. This is a useful feature during shooting operation, for instance on shopping channels. These require a unique screen layout to instantly differentiate between a product and its commercial data.





Marker Preset Image 1

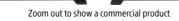
Marker Preset Image 2

Example : Shopping channels





Guide for a proper framing



Time Code

LTC and VITC time code can be displayed at the top or bottom of the picture.

Area Settings and Aspect Ratio Markers

The BVM-HX310 monitor can display various markers, including an aspect marker, safe area marker, and center marker. In addition to this flexible selection of marker types, the monitor offers detailed display settings for each marker. For example, the color, brightness, horizontal/vertical position, and width of aspect markers can all be controlled, while the height and width of safe area markers can be adjusted.

Marker Variation

	Safe Area	a Marker	Aspect Marker*		
	%	Dot (Pixel)			
Selectable Markers	80%, 88%, 90%, 93%, or variable	Flexible	16:9, 15:9, 14:9, 13:9, 4:3, 2.39:1, 2.35:1, 1.896:1, 1.85:1, or 1.66:1		
Line Colors	White, Red, Green, Blue, Yellow, Cyan, or Magenta				
Line Width	1 to 5 dots (factory preset at 2 dots)				
Line Luminance Intensity	High (bright) or Low (dark)				
Blanking	-		Off: Blanking is released Black: Blanking Half: Half blanking		

Marker Examples

Aspect Mode: 2.35:1,

Safe Area: Shape A,

Area Size: 80%



Aspect Mode: 14:9,



Safe Area: Shape B, Area Size: 80%

Aspect Mode: 4:3, Safe Area: Shape C, Area Size: 80%

Formats

Signal System	Signal Fo	ormat		
2K/HD (HD-SDI)				
1920 × 1080/60i ^{*1} , 50i, 30p ^{*1} , 30PsF ^{*1} , 25p, 25PsF, 24p ^{*1} , 24PsF ^{*1}				
1280 × 720/60p*1, 50p, 30p*1, 25p, 24p*1	4 : 2 : 2 YCbCr	10 bit		
2048 × 1080/30p* ¹ , 30PsF* ¹ , 25p, 25PsF, 24p* ¹ , 24PsF* ¹	4.2.2 10001	10 510		
2K/HD (HD-SDI Dual link)				
1920 × 1080/60p*1, 50p	4:2:2 YCbCr	10 bit		
1920 × 1080/ 60p ·, 50p	4:4:4 RGB	IO DIL		
1920 × 1080/60i*1, 50i, 30p*1, 30PsF*1, 25p, 25PsF, 24p*1, 24PsF*1	4:4:4 KGB 4:4:4 YCbCr	— 10 bit / 12 bit		
2048 × 1080/60p*1, 50p, 48p*1	4:2:2YCbCr	10 bit		
2048 × 1080/30p*1, 30PsF*1, 25p, 25PsF, 24p*1, 24PsF*1	4:4:4 RGB 4:4:4 YCbCr	— 10 bit / 12 bit		
2048 × 1080/30p, 30PsF, 25p, 25PsF, 24p, 24PsF	4:4:4XYZ	12 bit		
2K/HD (3G-SDI)				
1920 × 1080/60p*1, 50p	4:2:2 YCbCr	10 bit	Level A / Level B-DL	
	4:4:4 RGB			
1920 × 1080/60i*1, 50i, 30PsF*1, 25PsF, 24p*1	4 : 4 : 4 YCbCr	— 10 bit / 12 bit	Level A / Level B-DL	
1920 × 1080/30p*1, 25p, 24PsF*1	4:4:4 RGB 4:4:4 YCbCr	— 10 bit / 12 bit	Level A / Level B-DL	
1280 × 720/60p*1, 50p, 30p*1, 25p, 24p*1	4:4:4 RGB 4:4:4 YCbCr	— 10 bit	Level A	
2048 × 1080/60p*1, 50p, 48p**1	4:2:2YCbCr	10 bit	Level A / Level B-DL	
2048 × 1080/30p*1, 30PsF*1, 25p, 25PsF, 24p*1, 24PsF*1	4:4:4 RGB 4:4:4 YCbCr	— 10 bit / 12 bit	Level A / Level B-DL	
2048 × 1080/30p, 30PsF, 25p, 25PsF, 24p, 24PsF	4:4:4XYZ	12 bit	Level A / Level B-DL	
2K/HD (3G-SDI Dual Link)				
1920 × 1080/60p*1, 50p	4:4:4 RGB 4:4:4 YCbCr	— 10 bit / 12 bit	Level A / Level B-DL	
2048 × 1080/60p*1, 50p, 48p*1	4:4:4 RGB 4:4:4 YCbCr	– 10 bit / 12 bit	Level A / Level B-DL	
4K/UHD (3G-SDI Dual Link)				
3840 × 2160/30p*1, 25p, 24p*1	4:2:2YCbCr	10 bit	Level C / Level B-DS	2-sample interleave division / Square division*2
3840 × 2160/30PsF*1, 25PsF, 24PsF*1	4:2:2 YCbCr	10 bit	Level B-DS	Square division
4096 × 2160/30p*1, 25p, 24p*1	4:2:2 YCbCr	10 bit	Level C / Level B-DS	2-sample interleave division / Square division*2
4096 × 2160/30PsF*1, 25PsF, 24PsF*1	4:2:2 YCbCr	10 bit	Level B-DS	Square division
4K/UHD (HD-SDI Quad Link)				
3840 × 2160/30p*1, 30PsF*1, 25p, 25PsF, 24p*1, 24PsF*1	4:2:2YCbCr	10 bit		Square division
4096 × 2160/30p* ¹ , 30PsF* ¹ , 25p, 25PsF, 24p* ¹ , 24PsF* ¹	4:2:2 YCbCr	10 bit		Square division
4K/UHD (3G-SDI Quad Link)				· ·
3840 × 2160/60p*1,50p	4:2:2 YCbCr	10 bit	Level A / Level B-DL	2-sample interleave division / Square division
3646 ·· 2100/00P ; 30P	4:4:4 RGB	io bit	LEVELA / LEVEL D-DL	
3840 × 2160/30p*1, 25p, 24p*1	4:4:4YCbCr	— 10 bit / 12 bit	Level A / Level B-DL	2-sample interleave division / Square division
3840 × 2160/30PsF*1, 25PsF, 24PsF*1	4:4:4 RGB 4:4:4 YCbCr	— 10 bit / 12 bit	Level A / Level B-DL	Square division
4096 × 2160/60p*1, 50p, 48p*1	4:2:2YCbCr	10 bit	Level A / Level B-DL	2-sample interleave division / Square division
4096 × 2160/30p*1, 25p, 24p*1	4:4:4 RGB 4:4:4 YCbCr	— 10 bit / 12 bit	Level A / Level B-DL	2-sample interleave division / Square division
4096 × 2160/30PsF*1, 25PsF, 24PsF*1	4:4:4 RGB 4:4:4 YCbCr	— 10 bit / 12 bit	Level A / Level B-DL	Square division
4096 × 2160/30p, 25p, 24p	4:4:4XYZ	12 bit	Level A / Level B-DL	2-sample interleave division / Square division
4096 × 2160/30PsF, 25PsF, 24PsF	4:4:4XYZ	12 bit	Level A / Level B-DL	Square division

Signal System	Signal F	Signal Format				
4K/UHD (12G-SDI Single Link)						
3840 × 2160/60p*1, 50p	4:2:2 YCbCr	10 bit	Mode 1	2-sample interleave division / Square division		
	4:4:4 RGB	10 bit / 12 bit	Mode 1	2-sample interleave division / Square division		
3840 × 2160/30p*1, 25p, 24p*1	4 : 4 : 4 YCbCr					
4096 × 2160/60p*1, 50p, 48p*1	4 : 2 : 2 YCbCr	10 bit	Mode 1	2-sample interleave division / Square division		
4096 × 2160/30p*1, 25p, 24p*1	4 : 4 : 4 RGB	— 10 bit / 12 bit	Mode 1	2-sample interleave division / Square division		
4090 × 2100/30p ·, 25p, 24p ·	4 : 4 : 4 YCbCr			2-sample interieave division/ square division		
4096 × 2160/30p, 25p, 24p	4:4:4XYZ	12 bit	Mode 1	2-sample interleave division / Square division		
4K/UHD (6G-SDI Single Link)						
3840 × 2160/30p*1, 25p, 24p*1	4 : 2 : 2 YCbCr	10 bit	Mode 1	2-sample interleave division / Square division		
4096 × 2160/30p*1, 25p, 24p*1	4 : 2 : 2 YCbCr	10 bit	Mode 1	2-sample interleave division / Square division		

*1 Also compatible with 1/1.001.

*2 Level C when 2-sample interleave division(2SI); level B-DL when square division(SQD).

HDMI

Signal System	Signal Fo	ormat	Standard
	4:4:4 RGB	12 bit / 10 bit	CTA-861-D
640 × 480/60p*3	4:4:4YCbCr	/ 8 bit	
	4:2:2 YCbCr	12 bit	
	4:4:4 RGB	12 bit / 10 bit	
720 × 480/60p*3	4:4:4YCbCr	/ 8 bit	CTA-861-D
	4:2:2 YCbCr	12 bit	
	4:4:4 RGB	12 bit / 10 bit	
720 × 576/50p	4:4:4YCbCr	/ 8 bit	CTA-861-D
	4:2:2 YCbCr	12 bit	
	4:4:4 RGB	12 bit / 10 bit	CTA-861-D
1280 × 720/60p*3 , 50p	4:4:4YCbCr	/ 8 bit	
	4:2:2 YCbCr	12 bit	
	4:4:4 RGB	12 bit / 10 bit	CTA-861-D
1920 × 1080/60i*3 , 50i	4:4:4YCbCr	/ 8 bit	
	4:2:2 YCbCr	12 bit	
	4:4:4 RGB	12 bit / 10 bit	CTA-861-D
1920 × 1080/60p*3, 50p, 30p*3, 25p, 24p*3	4:4:4YCbCr	/ 8 bit	
50p , 25p, 24p	4:2:2 YCbCr	12 bit	
	4:4:4 RGB	12 bit / 10 bit	No Standard
2048 × 1080/60p*³, 50p, 48p, 30p*³, 25p, 24p*³	4:4:4YCbCr	/ 8 bit	
50p, 4op, 50p -, 25p, 24p -	4:2:2 YCbCr	12 bit	
	4:4:4 RGB	0 1 14 15	CTA 0/4 C
2040 2100 /00 +3+4	4:4:4YCbCr	- 8 bit*5	
3840 × 2160/60p*3*4, 50p*4	4:2:2 YCbCr	12 bit*5	CTA-861-G
	4:2:0 YCbCr	8 bit	
	4:4:4RGB	12 bit / 10 bit / 8 bit* ^{5*7}	
3840 × 2160/30p* ^{3*4} , 25p*4, 24p* ^{3*4}	4:4:4YCbCr	12 bit / 10 bit / 8 bit*5*6	CTA-861-G
	4:2:2YCbCr	12 bit	

Signal System	Signal Format		Standard	
	4:4:4 RGB	— 8 bit *5	CTA-861-G	
4096 × 2160/60p*3*4, 50p*4	4:4:4YCbCr	- 0 DIL -		
4096 × 2160/60p ⁻³⁴⁴ , 30p ⁻⁴⁴	4:2:2YCbCr	12 bit*5	CIA-801-G	
	4:2:0 YCbCr	8 bit		
	4:4:4RGB	12 bit / 10 bit / 8 bit* ^{5*7}		
4096 × 2160/30p* ^{3*4} , 25p* ⁴ , 24p* ^{3*4}	4 : 4 : 4 YCbCr	12 bit / 10 bit / 8 bit*5*6	CTA-861-G	
	4:2:2YCbCr	12 bit		
	4:4:4 RGB	12 bit / 10 bit	VESA and Industry Standards and Guidelines for Computer Display Monitor Timing(DMT)	
800 × 600/60p	4:4:4YCbCr	/ 8 bit		
	4:2:2YCbCr	12 bit		
	4:4:4 RGB	12 bit / 10 bit	VESA and Industry Standards and Guidelines for Computer Display Monitor Timing(DMT)	
1024 × 768/60p	4:4:4YCbCr	/ 8 bit		
	4:2:2YCbCr	12 bit		

*³ Also compatible with the frame rate 1/1.001.

*4 This signal is described as "equivalent to the 4K signal" in this manual.

*5 [Enhanced Format] must be selected in the [HDMI Signal Format] menu. Also, when using this input signal, use the Premium High-Speed HDMI cable. (30P, 25P, 24P signals are only for the 4:4:4 RGB/YCbCr 10/12bit signal.)

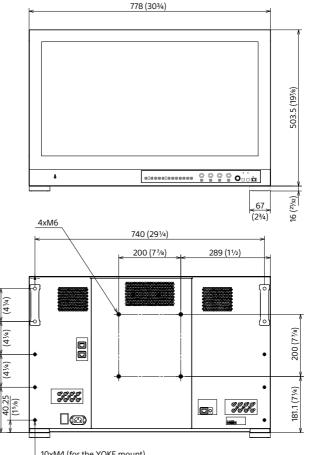
*6 The 4:4:4(YCbCr)12/10bit signal is displayed after converting to the 4:2:2(YCbCr)12/10bit signal.

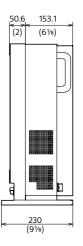
*7 The 4:4:4(RGB)12/10bit signal is displayed as a 4:4:4(RGB)8bit signal

Specifications

Panel	α-Si TFT Active Matrix LCD			
Picture size (diagonal)	789.1 mm (31.1 inches)			
Effective Picture size (H x V)	698.0 x 368.1 mm (27 1/2 x 14 1/2 inches)			
Resolution (H x V)	4096 x 2160 pixels			
Aspect	17 : 9 (1.89 : 1)			
Pixel efficiency	99.99 %			
Panel drive	10-bit			
Panel frame rate	48 Hz / 50 Hz / 60 Hz (48 Hz and 60 Hz are also compatible with 1/1.001 frame rates)			
Viewing angle(panel specification)	89°/89°/89°/89° (up/down/left/right contrast > 10:1)			
Color temperature	D55, D61, D65, D93, DCI*1, and user 1-5 (5,000 K to 10,000 K adjustable),DCI XYZ			
Luminance(panel specification)(typical)	1000 cd/m ²			
Color space (Color gamut)	ITU-R BT.2020*2, ITU-R BT.709, EBU, SMPTE-C, DCI-P3*2, Native*3, S-GAMUT3*2, S-GAMUT3.cine*2			
Transmission Matrix	ITU-R BT.2020 (Non-constant luminance is supported), ITU-R BT.709			
EOTF	2.2, 2.4, 2.6, CRT, 2.4 (HDR), S-Log3 (HDR), S-Log3 (Live HDR), S-Log2 (HDR), SMPTE ST 2084(HDR), ITU-BT.2100(HLG)			
Input				
SDI1 input	(3G/HD) BNC (x4) Input impedance: 75 Ω unbalanced			
SDI 2 input	(12G/6G/3G/HD) BNC (x2) , (3G/HD) BNC (x2), Input impedance: 75 Ω unbalanced			
HDMI	HDMI (HDCP2.3/1.4) (x1)			
Serial remote (LAN)	Ethernet (10BASE-T/100BASE-TX), RJ-45 (x1)			
Output				
SDI 1 MONITOR output*4	(3G/HD) BNC (x4) <sdi1 output="" sdi2="" switched="">, Output impedance: 75 Ω unbalanced</sdi1>			
SDI 2 output	(12G/6G/3G/HD) BNC (x2) , (3G/HD) BNC (x2) <sdi2 active="" loop-through="" output="">, Outpu impedance: 75 Ω unbalanced</sdi2>			
Audio monitor	Stereo mini jack (x1)			
Headphones	Stereo mini jack (x1)			
General				
Power requirement	AC 100 V to 240 V, 5.1 A to 2.1 A, 50/60 Hz			
Power comsumption	Approx. 450 W (max.)			
Operating temperature	0°C to 35°C (32°F to 95°F) Recommended: 20°C to 30°C (68°F to 86°F)			
Operating humidity	30% to 85% (no condensation)			
Strage / transport temperature	-20°C to +60°C (-4°F to +140°F)			
Strage / transport humidity	0% to 90%			
Operating / strage /transport pressure	700 hPa to 1060 hPa			
Dimensions (W x H x D)	778 x 519.5 x 230 mm (30 3/4 x 20 1/2 x 9 1/8 inches)			
Mass	Approx. 29kg (63 lb 15 oz)			
Supplied accessories	AC power cord (1), AC plug holder (1), CD-ROM (1), Before Using This Unit (1),			

Dimensions





106 (4¹/4) 106 106 (4¹/₄) 146.25 (5^{7/8}) 40.25 15/8) 10xM4 (for the YOKE mount)



*1 DCI: x=0.314, y=0.351

*2 The BVM-HX310 does not cover selected color space in full.

*³ The BVM-HX310 individual chromaticity points. The widest color space setting of the signal is reproduced by the BVM-HX310.

*4 SDI1 MONITOR output is a switched-output between SDI1 and SDI2 when signals are a 3G/HD-SDI signal.

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