OBM Broadcast Monitors

12G-SDI 4K / 3G-SDI Quad Link / HDR / SFP
Picture-by-Picture / Custom 3D LUT Import / Camera Log

GRADE 1 True HDR 4K Monitor
4K LCD Professional Monitors
4K Wall Monitors
True Dual Monitoring Solutions
Super Bright Monitor
Quad-Split Monitor
HDR LUT BOX-4K
4K/12G-SDI Distribution
RACK Monitors

4K GRADE 1 HDR PBP

Ver 18.04

POSTIUM KOREA Co., Ltd.
www.postium.com

Since its founding in 1999, the Seoul based Postium Korea has been a trusted supplier of professional broadcast, movie and studio equipment to many companies around the globe. For over ten years, we've combined our technology and expertise with the feedback from our customers to develop, engineer and manufacture our own LCD rack monitors which are now widely used by many broadcasting stations and OB vans worldwide.

Our9", 17", 24", 31", 55" 4K HDR monitors remain one of the world's best thanks to their unique and innovative features. Furthermore, we've recently developed and started the shipping of several of our range of new products such as the versatile dual and quad monitoring solutions which have a range of 7" to 55".

We understand the pressures facing today's professionals and the level of support. Hence with our elite and exclusive lines, we are here to take the load off our customers by delivering matching solutions to the customer's technical, creative and budgetary objectives with the best and latest technology available.

We remain committed to providing total solutions for the next generation of broadcasting displays, sharing the success with our partners and becoming the global leader in field of Broadcast Monitors. For over 10 years, Postium played a significant role in providing broadcasting equipment to companies worldwide and we definitely intend to continue this role of ours and deliver on our commitments for the decades to come.

OBM U/X Series 4K HDR

4K LCD Professional Monitors with 12G-SDI Single Link, Quad Link 4K

The OBM U/X series incorporates 12G-SDI input and loopout(x2), 3G/HD-SDI input and loopout(x2), HDMI 2.0 input, and SFP optical connector.
The OBM U/X series accepts up to 3840x2160/24,25,30,50,60p and 4096x2160/24.25.30,50,60p signals. These new 4K Monitors provide the function to display the HDR(High Dynamic Range) footage, and supports a wide color gamut conforming to DCI-P3 and most of the ITU-R BT.2020 standard. The OBM U/X series offers the professional performance, including excellent quality black performance, accurate color reproduction, which make these monitors ideal for 4K live production, versatile monitoring and field production applications. In addition, the OBM U series supports the integrated 3D LUT, Waveform, Vector Scope, Color Space & Gamma Comparison, and a full feature set.

OBM W Series 4K HDR

4K Wall Monitor for Studio and OB Van with 12G-SDI

The OBM W series incorporates 12G-SDI input and loopout(x2), HDMI 2.0 input, SFP optical connector, Component and Composite on the panel of full HD resolution. So, the OBM W series is ideal for building up a 4K monitor wall in the studio or OB van. The OBM W series offers the advanced and convenient features such as HDR(High Dynamic Range), Ethernet Control, Camera Log display, etc.

OBM P Series HDR

True Dual Monitoring Solutions

The OBM P series incorporates the dual scaler, which enables to display the two different SDI signals on the screen. And, the OBM P series can display Waveform and Vector Scope on the two different SDI videos respectively, which is very useful and convenient for dual monitoring.
Postium's OBM P series offers the superior picture quality and wide viewing angle, and includes an array of professional features and the advanced audio & video signal analysis functions. The OBM P series is equipped with various I/O interfaces such as 3G-SDI, HDMI, Component, Composite.

OBM N Series HDR

Outstanding Picture Quality

The OBM N series offers the superior picture quality and wide viewing angle, and includes an array of professional features and the advanced audio & video signal analysis functions including Waveform, Vector Scope, Audio Level Meter, IMD, Camera Log Slection, Custom 3D LUT Import, Focus Assist, etc. The OBM N series are equipped with various I/O interfaces such as 3G-SDI, HDMI, Component, Composite, DVI.
The wide model lineup from 18.5" up to 55" provides the best solutions from the field production to monitoring in studio.

OBM H120 HDR

Super Bright Monitor

The OBM H series employs the latest panel with high brightness, which enables to provide the great visibility under strong sunlight. By incorporating Postium's technology, the OBM H series offers the precise color reproduction as well as the high brightness. The OBM H series provide the advanced audio & video signal monitoring functions such as Waveform, Vector Scope, Focus Assist, False Color, Audio Level Meter, Marker and the advanced functions including HDR, Gamut Error, Camera Log Selection, Custom 3D LUT Import, etc.

OBM Q 240 HDR

Quad-Split Monitor

The OBM Q series splits and displays the input videos up to 4 x 3G/HD/SD-SDI signals. This series has the various split screen modes, and offers Waveform monitor, Vector Scope, Time code display, UMD, Audio Level Meter, and other professional functions.

HLB-4K 4K HDR

High Dynamic Range LUT BOX-4K

HLB-4K is a stand-alone converter which supports up-conversion and down-conversion between 4K and HD, HDR to SDR conversion and vice versa, color gamut conversion between BT.2020 and BT.709. And, the 12G-SDI single link video input can be output to 6G-SDI dual link or 3G-SDI quad link.

VDA 4K

4K/12G-SDI Distribution

12G S1-S4

PRM Series

MULTI - FORMAT LCD RACK Monitors

Table of Contents

OBM Monitor Model Guide For Choice

Items \ Series		X/U Series (4K Precision Monitors)	W Series (4K Wall Monitors)	P Series (PBP Monitors)	N/H Series (3G Monitors)	Q Series (Quad Split)
Key Features		12G-SDI 2ch In HDMI 2.0 In 2SI/SQD, HDR Camera Log Ethernet In Wide Color Space SFP Module 4K W/F and V/S	12G-SDI 2ch In HDMI 2.0 In SFP Module HDR Camera Log W/F and V/S Ethernet In	Picture by Picture Dual W/F and V/S 3G-SDI 2ch In HDMI 1.3a In HDR Camera Log Ethernet In	3G-SDI 2ch In HDMI 1.3a In HDR Camera Log Ethernet In W/F and V/S	3G-SDI 4ch In 3G-SDI 4ch Out HDMI 1.3a In Ethernet In W/F and V/S
Input	12G-SDI	● 12G x 2	● 12G x 2	–	–	–
	3G-SDI	● 3G x 2	–	● 3G x 2	● 3G x 2	● 3G x 4
	DVI	–	–	–	●	–
	HDMI	● 2.0 x 1	● 2.0 x 1	● 1.3a x 1	● 1.3a x 1	● 1.3a x 1
	YPbPr	–	●	●	●	–
	CVBS	–	●	●	●	–
	SFP	● (X:2ea, U:1ea)	●	–	–	–
Output	SDI	● 12G x 2, 3G x 2	● 12G x 2	● 3G x 2	● 3G x 2	● 3G x 4
Audio In	Embedded Audio	●	●	●	●	●
	Analog Stereo (Phone Jack)	● Up to 32”	●	●	●	●
Audio Out	Analog Stereo (Phone Jack)	●	●	●	●	●
	Internal Speaker	● Up to 32”	● Up to 32”	● Up to 32”	● Up to 32”	●
DC In	4 Pin XLR	● Up to 32”	● Up to 32”	● Up to 32”	● Up to 32”	●
Control	REMOTE	●	●	●	●	●
	USB	●	●	●	●	●
	RS-422GPI (RJ45) In/Out	●	●	●	●	●
	Tally	● Up to 32”	● Up to 32”	● Up to 32”	● Up to 32”	●
	Ethernet Throughout	●	–	–	–	–
4K Multi-input Mode	Dual Link 2SI	●	●	–	–	–
	Quad Link 2SI	●	–	–	–	–
	Quad Link Square	●	–	–	–	–

Items \ Series		X/U Series (4K Precision Monitors)	W Series (4K Wall Monitors)	P Series (PBP Monitors)	N/H Series (3G Monitors)	Q Series (Quad Split)
Functions	12G-SDI	●	●	–	–	–
	3G-SDI Level A/B	●	●	●	●	●
	HDR (High Dynamic Range)	●	●	●	●	–
	HDR Auto Setting	●	–	–	–	–
	HDR Waveform / Vectorscope	●	●	●	●	–
	SDR Waveform / Vectorscope	●	●	●	●	●
	Color Space / HDR / Gamma Comparison	●	–	–	–	–
	HDR / Camera Log Comparison	–	●	–	●	–
	HDR / Color Settings Comparison	–	–	●	–	–
	Camera Log	●	●	●	●	–
	Camera Log Mapped SDI Loopout	●	●	●	●	–
	Picture By Picture (PBP)	–	–	●	–	●
	Black Stretch	●	–	–	–	–
	Gamut Error	●	–	●	●	–
	Fast Mode	● (* U090,U170 Only)	●	●	●	–
	F/W Update with USB	●	●	●	●	●
	1:1 Pixel Mapping	●	●	●	●	●
	Audio Level Meter Display (16ch)	●	●	●	●	●
	Blue Only / Mono Only	●	●	●	●	●
	Focus Assist	●	●	●	●	–
	H/V Delay	●	●	●	●	●
	Key Lock	●	●	●	●	●
	Marker	●	●	●	●	●
	False Color	●	●	●	●	–
	Time Code Display	●	●	●	●	●
	IMD	●	●	●	●	●
	Aspect	●	●	●	●	●
	Freeze	●	●	●	●	●
	Closed Caption	●	●	●	●	–
	Internal Pattern Display	●	●	●	●	●
	System Data Copy	●	●	●	●	●
	Password Lock	●	●	●	●	●
Calibration	3D LUT	●	●	●	●	●
	Gamma	●	●	●	●	●
	3rd Party 3D LUT Import	●	●	●	●	–
	Color Calibration Utility	●	●	●	●	●
Input Signal Format	SMPTE ST 2082	2160p(60/59.94/50)		–	–	–
	SMPTE ST 2081	2160p(30/29.97/25/24/23.98)		–	–	–
	SMPTE ST 425-AB	1080p(60/59.94/50/30/29.97/25/24/23.98/30sF/29.97sF/25sF/24sF/23.98sF), 1080i (60/59.94/50)				
	SMPTE ST 274	1080p(30/29.97/25/24/23.98/24sF/23.98sF), 1080i (60/59.94/50)				
	SMPTE ST 296	720p(60/59.94/50)				
	SMPTE ST 260	1920 x 1035i(60/59.94)				
	SMPTE ST 2048	2048 x 1080p(24/23.98/24sF/23.98sF)				
	SMPTE ST 125	480i(59.94)				
	ITU-R BT.656	576i(50)				
	HDMI	2.0 (~ 2160p(50/60))		1.3a (~ 1080p(50/60))		
	SFP	12Gbps, 6Gbps, 2.970Gbps, 1.485Gbps, 270Mbps		–	–	–

Versatile 4K/QFHD Input Capability (OBM-X/U Series)

The OBM X/U series is equipped with standard 12G-SDI input interface(x2) , 3G/HD-SDI input interface(x2) and support 4K Quad Link 2-Sample Interleave signals and 4K Quad Link Square Division signals.
The OBM U series can accept up to 3840x2160/24,25,30,50,60p and 4096x2160/24.25.30,50,60p signals.

4K Waveform Monitor and Vector Scope Display

(OBM-X/U/W Series)

These features enable users to monitor 4K sources using the internal Waveform and Vector Scope. Waveform Wide mode* is supported, and both Waveform and Vector Scope can be displayed simultaneously.

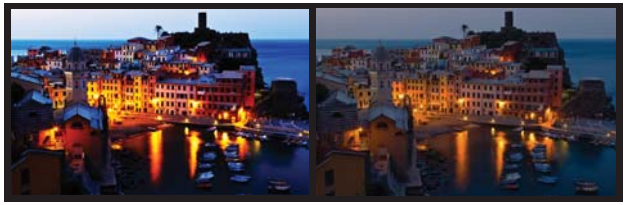
*OBM-U090/U170 and OBM W series are supported.

High Dynamic Range(HDR) Display

(OBM-X/U/W/P/N/H Series)

The OBM series provides the function to display the High Dynamic Range footage.
Postium HDR function allows users to view both highlights and shadow detail of scenes at the same time, thus resulting in more natural and realistic images.
The OBM series supports PQ EOTF (SMPTE ST 2084), Hybrid Log Gamma and S-Log3.

HDR Mode SDR Mode



OBM-HDR provides the function of comparing HDR and SDR(Standard Dynamic Range) on the displayed image on the OBM series simultaneously.

HDR SDR

Focus Assist (OBM-X/U/W/P/N/H Series)

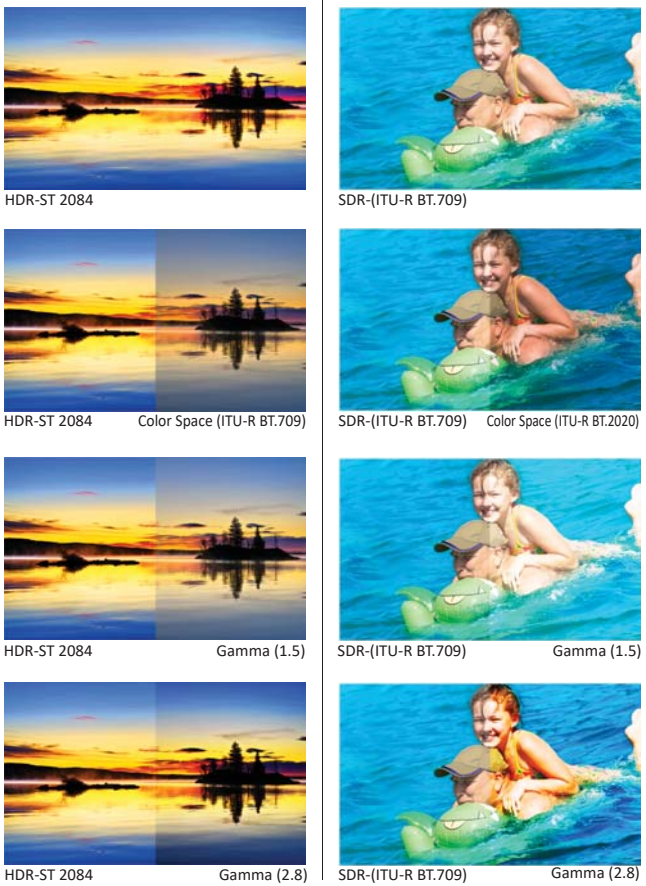
This function controls the aperture level of a video signal, and displays images on screen with sharpened edges to help camera focus operation.

Color Space / HDR / Gamma Comparison (Side by Side)

(OBM-X/U Series)

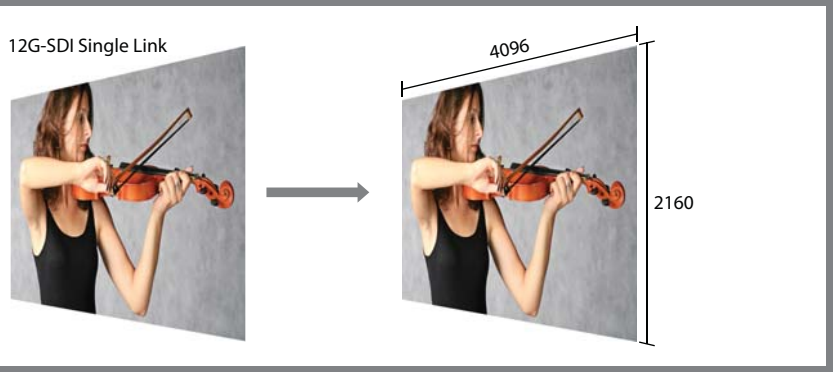
This unique function allows users to compare the two different color spaces, gammas, HDR / SDR, camera logs and any other color settings side by side simultaneously.

HDR Mode SDR Mode



Various 4K/12G Display Modes

Single Link 12G-SDI (OBM-X/U/W Series)

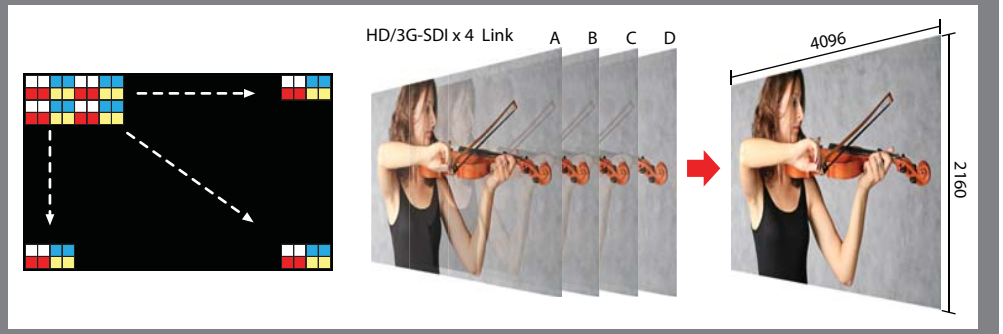


Dual Link 2-Sample Interleave(2-S.I.) (OBM-X/U/W Series)

(*OBM-U Series : Supports up to 2160/60p. OBM-W Series : Supports up to 2160/30p)

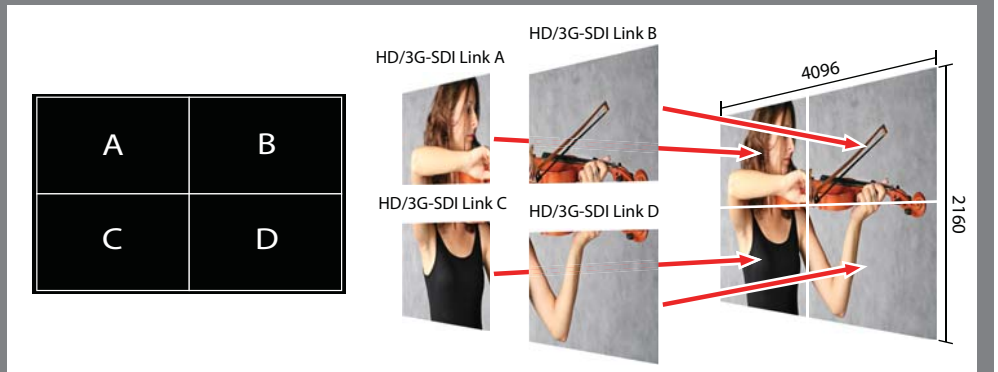
Quad Link 2 Sample Interleave (2-S.I.) (OBM-X/U Series)

Each link contains a full image at 1/4 resolution. 2-S.I. mode uses four sub-image and alternates the samples every two pixels and every line instead of slitting the image into four quadrants.



Quad Link Square Division (OBM-X/U Series)

Each link contains one square of the original image.



Fast Mode (OBM-U*/W/P/N/H Series)

This function minimizes the internal video processing time from the signal input to the display on the screen. This function is useful when monitoring the fast-moving video content and checking the line flicker.

*OBM-U090/U170 are only supported in OBM U Series.

Internal Video Processing Time

Input Signal	Fast Mode Off	Fast Mode On
2160/60p	1 frame x (1/60sec) = 17ms	0.02 frame x (1/60sec) = 0.33ms
2160/50p	1 frame x (1/50sec) = 20ms	0.02 frame x (1/50sec) = 0.40ms
1080/60p	1 frame x (1/60sec) = 17ms	0.02 frame x (1/60sec) = 0.33ms
1080/50p	1 frame x (1/50sec) = 20ms	0.02 frame x (1/50sec) = 0.40ms
1080/60i	2 field x (1/60sec) = 34ms	0.02 field x (1/60sec) = 0.33ms
1080/50i	2 field x (1/50sec) = 40ms	0.02 field x (1/50sec) = 0.40ms
1080/24psf	2 field x (1/48sec) = 42ms	0.02 field x (1/48sec) = 0.42ms

False Color (OBM-X/U/W/P/N/H Series)

This function evaluates the Luma(Y') level of the input image. If the certain Y' level is set, the pixels with the designated Luma(Y') level are displayed with the zebra pattern or the color pattern.
There are three modes in OBM False Color.

Zebra

This mode displays the Luma(Y') level of the input image in zebra pattern.

False Color Variable

This mode allows the user to adjust White clipping, Pink level, Green level, Black Clipping.

False Color ARRI

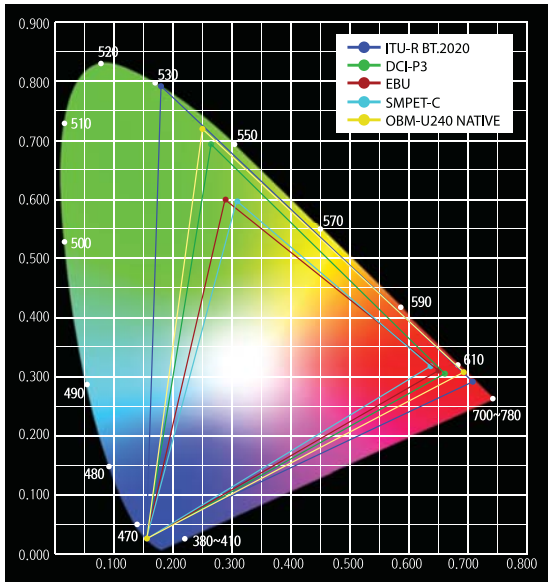
The color pattern is displayed with ARRI camera standard.

False Color Comparison

This function enables the user to divide the picture side by side, and compare the original image on the left half and the False Color image on the right half.

Wide Color Gamut Supporting DCI-P3 and ITU-R BT.2020 (OBM-X/U Series)

The wide color gamut and the advanced 3D LUT function enable the OBM series to reproduce various color spaces accurately and the excellent grayscale.
You can select from color gamuts such as DCI-P3, ITU-R BT.2020, ITU-R BT.709, SMPTE-C, EBU, Native.



Adjustable Gamma (OBM-X/U/W/P/N/H/Q Series)

Gamma value is adjustable from 1.0 to 3.0 as user's preference to monitor in the dark area of the picture.
Any pictures taken in either light or dark environment can be easily watched or analyzed.

Gamma 1.8

Gamma 2.4

Black Stretch (OBM-X/U Series)

The Black Stretch increases the visibility of subjects in dark areas, not degrading image quality in bright areas.
This mode can be used to increase shadow detail without changing the absolute black level, and without affecting mid-tones.

Black Stretch Off

Black Stretch On

12G-SDI over IP Supporting ST 2022-6 (OBM-X/U/W Series)

The OBM-X/U/W series have the SFP interface, which allows to use the various SFP modules which can fit any possible broadcast applications.
The OBM-X/U/W series monitors can display the 12G-SDI over fiber and the 12G-SDI Single Link over IP through the integrated SFP interface.

The OBM-X310 has the dual SFP Input cages, which enable the monitor to accept and display the Quad-Link square division and 2-Sample Interleave 4K signals over IP supporting SMPTE ST 2022-6.

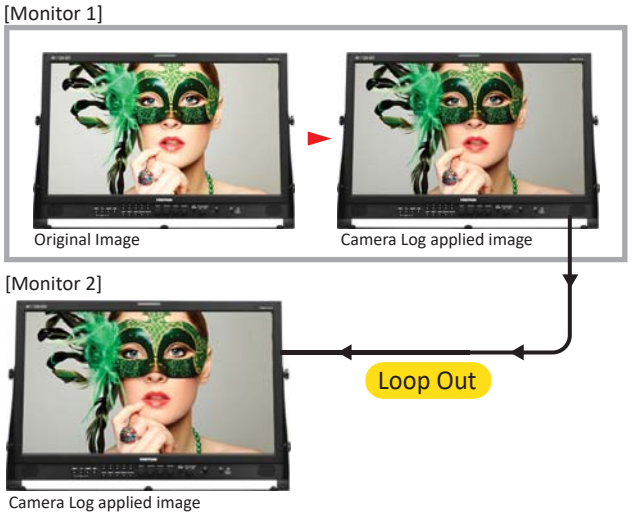
Camera Log Selection (OBM-X/U/W/P/N/H Series)

The OBM series has the integrated camera LUT of the various camera manufacturers. It allows users to load the following camera logs.
Log-C / C-Log / S-Log2, S-Log3 / J-Log1
The more camera LUTs will be updated.

Camera Log Mapped SDI Loopout

(OBM-X/U/W/P/N/H Series)

This function allows to load the camera log to the original image and then send the camera log mapped image to another monitor through SDI loop out.



Remote Control via Ethernet (OBM-X/U/W/P/N/H/Q Series)

The OBM series can be connected via Ethernet connection and controlled remotely on the network.

Closed Caption (OBM-X/U/W/P/N/H Series)

The OBM series can display closed captions with an SDI input. It supports the CEA-708(HD-SDI closed captioning standard) and CEA-608(SD-SDI closed captioning standard).

Waveform & Vector Scope Position Changeable

(OBM-X/U/W/P/N/H Series)

The position of Waveform and Vectro Scope can be changed among Left Top, Right Top, Right Bottom, Left Bottom.

Waveform & Vector Scope Size Adjustable

(OBM-W/P/N/H/Q Series)

The image size of Waveform and Vector Scope can be changed between Small and Large.

System Data Copy (OBM-X/U/W/P/N/H Series)

This function allows users to save the monitor configuration and adjustment settings on the USB memory stick and load them to other monitors. This is useful for multiple monitor systems, allowing the transfer of one monitor's setup and adjustment data to another.

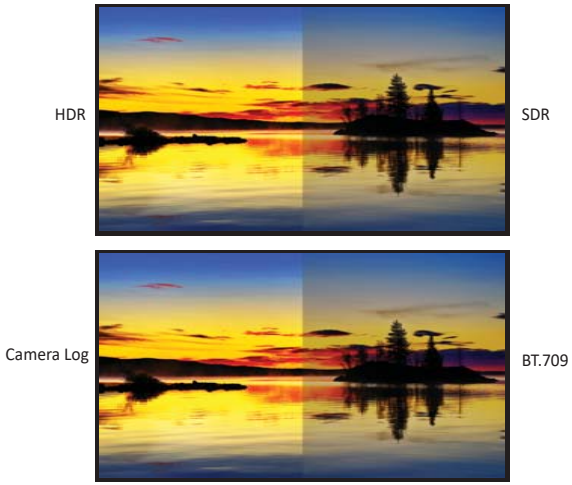
Various Markers (OBM-X/U/W/P/N/H/Q Series)

The OBM series can display various markers, including aspect marker, area marker, and center marker. In addition, the detailed display settings of each marker are allowed. For example, the color, brightness, horizontal/vertical position, and thickness of aspect markers can all be adjusted.


Display various markers

HDR / Camera Log Comparison (OBM-W/N/H Series)

The unique function allows users to compare HDR and Camera Log side by side. The comparison area can be moved and selected by using the vertical Wipe pattern.



Gamut Error (OBM-X/U/W/P/N/H Series)

The total range of the SDI 10bit signal is 0 to 1023. The range 0 to 3 and 1020 to 1023 are the reserved values for Sync, and the total video signal range is 4 to 1019.
In a video signal, each primary component should lie between 0 and 100% of the video range between black level and peak level (R and G and B). Ideally, video levels should lie within the specified limits so that programs can be distributed without adjustment.

100% White pattern: Y - 940, Cb - 512, Cr - 512
0% Black pattern: Y - 64, Cb - 512, Cr - 512
Expected Video Range: 64 to 940

System Bit Depth	Range in Digital Sample (Code) Values		
	Expected Video Range	Preferred Min. / Max.	Total Video Signal Range
10 bit	64 - 940	20 - 984	4 - 1019

*References: EBU R 103 Version 2.0 page 4, Annex 1

In practice, it is difficult to avoid generating signals slightly out of range, and it is considered reasonable to allow a small tolerance. Therefore, the EBU recommends that the RGB components and the corresponding Luminance (Y) signal should not normally exceed the “preferred minimum/maximum” range of digital sample levels in the table above.

Type 1: Black Zebra

When the targeted color space is selected as BT.709, the pixels outside of the targeted color space are displayed as Black Zebra.
The pixels over Y Maximum, Chroma Maximum, RGB Maximum are displayed as Black Zebra, and the pixels below Y Minimum, Chroma Minimum, RGB Minimum are also displayed as Black Zebra.

Type 2: Black & White Zebra

When the targeted color space is selected as BT.709, the pixels outside of the targeted color space are displayed as Black or White Zebra. The pixels over Y Maximum, Chroma Maximum, RGB Maximum are displayed as Black Zebra, and the pixels below Y Minimum, Chroma Minimum, RGB Minimum are displayed as White Zebra.

Type 3: Mono

When the targeted color space is selected as BT.709, the pixels inside of the targeted color space are displayed as Mono, and the pixels outside of the targeted color space are displayed as the color. In this type, black and white area is not recognized.

*Simulated image

PBP(Picture-by-Picture) (OBM-P Series)

The unique Picture-by-Picture function of the OBM P series allows two different SDI input signals to be displayed on the screen simultaneously. This function is very convenient for making instant adjustments to two input sources, because there is no need to individually adjust the different characteristics of two monitors. The OBM P series offers the various Picture-by-Picture modes as follows.

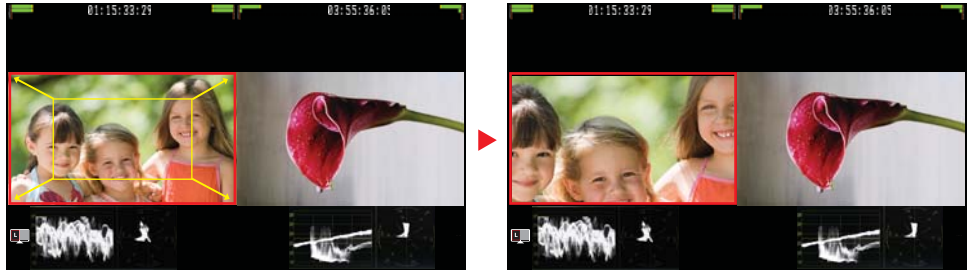
Side-by-Side

Wipe

Blending

1:1 Scan in PBP Mode (OBM-P Series)

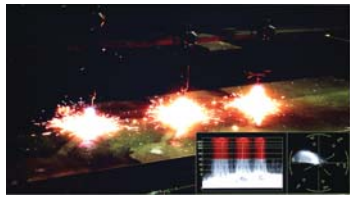
This function allows to magnify the either image of the two inputs in PBP mode.



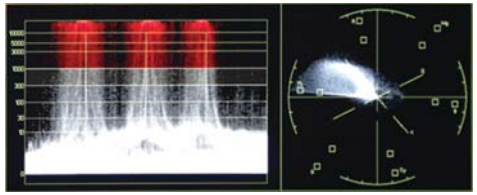
HDR Waveform (OBM-X/U/W/P/N/H Series)

When HDR more is set on, HDR Waveform is displayed on screen.

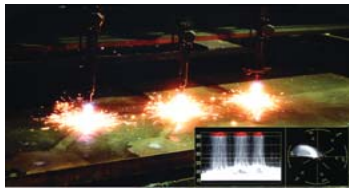
HDR Mode + HDR Waveform



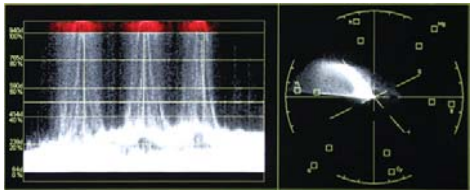
HDR Waveform



SDR Mode + SDR Waveform



SDR Waveform



Dual Waveform Monitor & Vector Scope (OBM-P Series)

The OBM P series can display Waveform, Vector Scope on the two different SDI videos respectively, which is very useful and convenient for dual monitoring.

WIPE (OBM-P Series)

The area of the two pictures to be displayed is selected using a vertical WIPE pattern. This function is useful when picture detail of the two images must be examined on a pixel basis.

In-Monitor Display(IMD) (OBM-X/U/W/P/N/H/Q Series)

The image source names and tally information can be displayed on the screen, with an external remote function via Ethernet. The TSL system protocol is supported. The color of the source name and tally color can be selectable among White, Red, Green, Blue, Yellow, Cyan, Magenta.

Color Settings Adjustable to Either of Two Images in PBP Mode (OBM-P Series only)

The OBM PBP function allows to adjust the color settings to either of the two images and compare the two images. HDR / SDR, Brightness, Contrast, Color Temperature, Camera Lut, and other color settings can be changed.

Original Image | Color settings are adjusted to SDI 1 only.

This unique function allows to display the same image side by side, change the color settings to one image, and then compare the original image and the changed image on the screen.

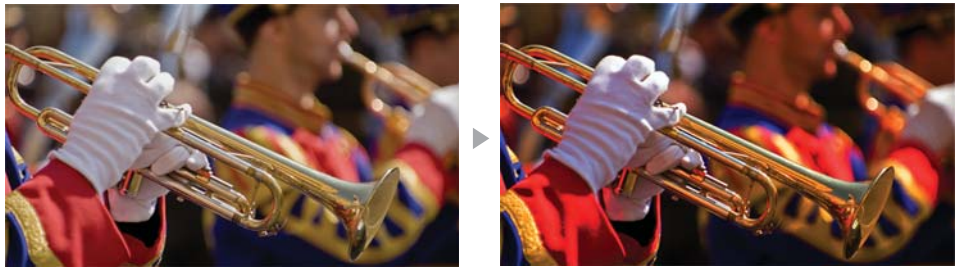
Original Image | Original Image | Original Image | Color settings changed Image

Password Lock for User Preset (OBM-X/U/W/P/N/H Series)

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 users correctly recall their preset data, and keep preset information safe from unauthorized use.

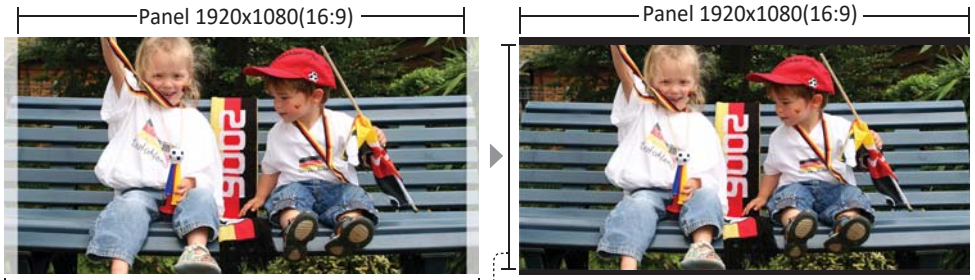
Custom 3D LUT File Import (OBM-X/U/W/P/N/H Series)

The OBM series allow the user to import 3D Look-up Table for accurate and consistent color matching between individual displays as well as using customized 'looks' that have been created by 3rd party color-grading applications. 32^³, 33^³, 64^³, 65^³ cube file are supported.



Scan Mode (OBM-U/W Series)

When the 4096 x 2160(1.89:1) signal is fed to the 1920x1080(16:9) resolution sceen, if you select Zero Scan mode, the whole picture is displayed on the screen, with maintaining 1.89:1 ratio.



Focus Assist(OBM-X/U/W/P/N/H Series)

This function controls the aperture level of a video signal, and displays images on screen with sharpened edges to help camera focus operation.

4K HDR

OBM-X310

31" GRADE 1 True HDR 4K Monitor

True HDR with 1000nits : PQ, HLG, S-Log3
True Black with 1,000,000:1 High Contrast ratio
12G-SDI Single Link 2-S.I. / Square 4K
6G-SDI Dual Link 2-S.I. 4K (SDI & SFP)
3G-SDI Quad Link Square Division & 2-S.I. 4K
Custom 3D LUT File Import
Panel Resolution 4096 x 2160

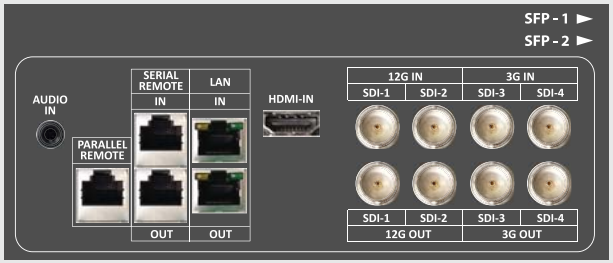
1.073 Billion Colors
Dual SFP Module Inputs
Wide Color Gamut
No Halo Effect / No Burn-in

GRADE 1

The OBM-X310 is the GRADE 1 True HDR 4K monitor, designed for professional production and postproduction work. This new monitor offers the outstanding performance and the unique and advanced features, including superb black. It also supports various HDR gamma curves, such as PQ, HLG, S-Log3.
The OBM-X310 features wide viewing angle IPS panel, 4096X2160 17:9 aspect ratio, 1000cd/m² High Brightness, 1,000,000:1 High Contrast, wide color gamut, various HDR, which make it ideal for color grading in a mastering suite.

Product Highlights

- 12G/6G-SDI(4K) 2 Channel, 3G/HD-SDI (Level A/B) 2 Channel
- 6G-SDI Dual Link 2-S.I. 4K
- 3G-SDI Quad Link Square Division 4K
- 3G-SDI Quad Link 2-Sample Interleave (2-S.I.) 4K
- HDR(High Dynamic Range) Display supporting PQ (ST 2084), Hybrid Log Gamma, S-Log3
- 3D-LUT for Accurate Color Reproduction
- Wide Color Gamut Supporting ITU-R BT.709, SMPTE-C, EBU, Native, DCI-P3, ITU-R BT.2020
- 1.073 Billion Colors
- 1,000cd/m² High Brighthness
- 1,000,000:1 High Contrast ratio
- Gamut Error
- Black Stretch
- Camera Log Conversion
- Custom 3D LUT file Import Through USB
- Gamma Selection (1.0 ~ 3.0)
- Color Temperature (3200K, 5500K, 6500K, 9300K, USER 1/2/3, D-CINEMA)
- Support 4096x2160 Aspect
- Monitor Control via Ethernet, RS-422
- Waveform, VectorScope (Wave + Vector, Position Selection)
- HDR Waveform
- Various Markers (EBU, 4:3, 16:9, 1.85:1, 2.35:1, Variable etc.)
- Scan
- Time Code Display
- De-embedded 8~16ch Audio Level Meter
- Dual SFP Module Inputs
- Internal Pattern Display for Color Test (Black ~ 100% White, Color Bar)
- Remote Control via GPI(RJ-45) Port
- False Color (Zebra, Color Pattern, ARRI)
- Easy Firmware Update by USB
- Rack & VESA Mount (Option)
- Closed Caption (608, 708)
- System Data Copy
- Key Lock & Password Lock
- H/V Delay
- Blue/Mono Only
- Focus Assist
- 3 Color TALLY Lamp
- HDR Auto Setting
- HDMI 2.0 Support
- Aspect
- Freeze
- IMD



True HDR with 1000nits

The OBM-X310 achieves the 1000nits high brightness level, which enables the monitor to display the HDR content faithfully. The OBM-X310 HDR function allows users to view both highlights and shadow details of screen at the same time, thus resulting in more natural and realistic images. The OBM-X310 support PQ(ST 2084), HLG(Hybrid Log Gamma), and S-Logs.

True Black with 1,000,000:1 High Contrast

The state-of-the-art LCD technology of the OBM-X310 enables deep blacks to be accurately displayed, and the black portion of an image is not degraded.
The OBM-X310's amazing ability to express subtle details in the low-luminance area is equal to the OLED monitor.

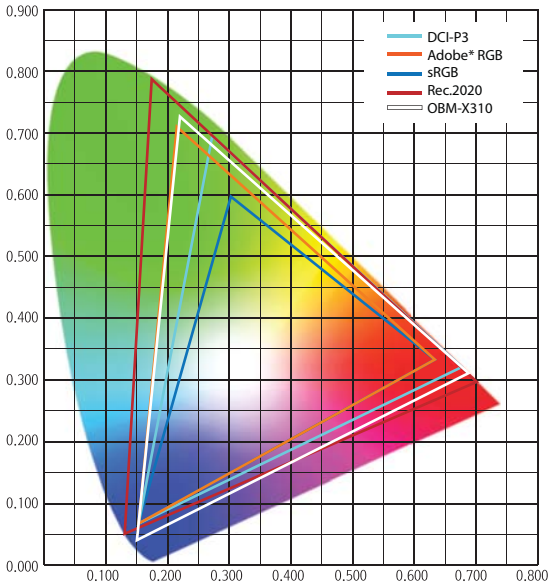
No Burn-in

OLED monitors have the risk of "burn-in", which is an effect of the image sticking on a screen even when the content changes. It is due to the characteristics of the material used in the OLED panel. The OBM-X310, which employs the state-of-the-art LCD panel, is free from the burn-in effect.

Accurate Color Reproduction with Wide Color Gamut

Fully Support DCI-P3 Color Space with PQ(ST 2084) 1000nit HDR

The OBM-X310 provides the industry-leading wide golor gamuts. This monitor complies with the DCI-P3 color space with gamut ratio 114% and gamut coverage 99%, and supports the BT.2020 color space. This ensures the colors are reproduced according to industry standards.



Specifications

ITEM		OBM-X310
Input	4 x BNC	12G/6G/3G/HD/SD-SDI-1/2, 3G/HD/SD-SDI-3/4
	1 x HDMI	HDMI 2.0
	2 x SFP	SFP
Output	4 x BNC	12G/6G/3G/HD/SD-SDI-1/2, 3G/HD/SD-SDI-3/4 Active Loop Output
Input Signal Format	SMPTE ST 2082	2160p(60/59.94/50)
	SMPTE ST 2081	2160p(30/29.97/25/24/23.98)
	SMPTE ST 425-AB	1080p(60/59.94/50/30/29.97/25/24/23.98/30sF/29.97sF/25sF/24sF/23.98sF) / 1080i (60/59.94/50)
	SMPTE ST 274	1080p(30/29.97/25/24/23.98/24sF/23.98sF)
		1080i (60/59.94/50)
	SMPTE ST 296	720p(60/59.94/50)
	SMPTE ST 260	1920 x 1035i(60/59.94)
	SMPTE ST 2048	2048 x 1080p(24/23.98/24sF/23.98sF)
	SMPTE ST 125	480i(59.94)
	ITU-R BT.656	576i(50)
	HDMI 2.0	~ 2160p(60)
	SFP	12Gbps, 6Gbps, 2.970Gbps, 1.485Gbps, 270Mbps
Audio In/Out	1 x Phone Jack In	Line In(Stereo)
	1 x Phone Jack Out	H/P Out(Front, Stereo)
	2 x Speaker Out	Stereo
Display	Size	31” LCD
	Resolution	4096 x 2160 (17:9)
	Pixel Pitch	0.1704mm
	Color	1.073B Colors(True 10bit)
	Viewing Angle	178(H), 178(V)
	Luminance of White	1000cd/m²
	Contrast	1,000,000 : 1
	Display Area (H x V)	698 x 368 (mm)
General	2 x Ethernet	Control/Update, RJ-45P Input / Output
	1 x GPIO	GPI-7 Port, RJ-45P Jack
	2 x Serial	RS-422 Jack, RJ-45P Input / Output
	1 x USB	For Firmware Update, Color Calibration
	Power Requirements	AC(100-240V, 50/60Hz) / DC 24V
	Power Consumption	Max 490W
	Operating Temperature	0°C ~ 40°C(32°F~104°F)
	Operating Humidity	20% ~ 80% RH
	Weight	32kg / 70.54lbs
	Dimensions (WxHxD)	Main Body : 782.9 x 489.4 x 151.2 mm (30.82 x 19.26 x 5.95 inch)
		With Stand : 782.9 x 519.7 x 260 mm (30.82 x 20.46 x 10.23 inch)
	Accessories	Power Cable
	Option	Carrying Case / Wall Mount Kit

* Specifications are subject to change without prior notice for the product quality improvement.

4K HDR

OBM U Series

4K Professional LCD Monitors

12G-SDI Single Link
6G-SDI Dual Link 2-S.I. 4K
3G-SDI Quad Link Square Division & 2-S.I. 4K
Wide Color Gamut
Color Space & Gamma Comparison
Panel Resolution 3840(or 4096) x 2160
9", 17", 24", 31", 55"

The OBM U series incorporates 12G-SDI input and loopout(x2), 3G/HD-SDI input and loopout(x2), HDMI 2.0 input, and SFP optical connector. (* OBM-U090 does not support SFP optical connector)
The OBM U series accepts up to 3840x2160/24,25,30,50,60p and 4096x2160/24.25.30,50,60p signals.
The OBM U series provides the function to display the HDR(High Dynamic Range) footage, and supports a wide color gamut conforming to DCI-P3 and most of the ITU-R BT.2020 standard.
The OBM U series offers the professional performance, including excellent quality black performance, accurate color reproduction, which make these monitors ideal for 4K live production, versatile monitoring and field production applications.
In addition, the OBM U series supports the integrated 3D LUT, Waveform, Vector Scope, Color Space & Gamma Comparison, and a full feature set.

Product Highlights

- 12G/6G-SDI(4K) 2 Channel, 3G/HD-SDI (Level A/B) 2 Channel
- 6G-SDI Dual Link 2-S.I. 4K
- 3G-SDI Quad Link Square Division 4K
- 3G-SDI Quad Link 2 Sample Interleave (2-S.I.) 4K
- HDR(High Dynamic Range) Display supporting PQ EOTF(ST 2084), Hybrid Log Gamma, S-Log3
- 3D-LUT for Accurate Color Reproduction
- Wide Color Space Supporting ITU-R BT.709, SMPTE-C, EBU, Native, DCI-P3, ITU-R BT.2020
- 1.073/ 1.064 Billion Colors
- Camera Log Conversion
- Custom 3D LUT file Import Through USB
- Gamma Selection (1.0 ~ 3.0)
- Color Temperature (3200K, 5500K, 6500K, 9300K, USER 1/2/3, D-CINEMA)
- Support 4096x2160 Aspect
- Compare Color Space & Gamma (Side by Side)
- Monitor Control via Ethernet, RS-422
- Waveform, VectorScope (Wave + Vector, Waveform Wide, Position Selection)
- HDR Waveform
- Firmware Update via USB Flash Memory
- Various Markers (EBU, 4:3, 16:9, 1.85:1, 2.35:1, Variable etc.)
- Zero Scan / Over Scan / 1:1 Scan
- Time Code Display (Position / Size Selection)
- De-embedded 8~16ch Audio Level Meter
- Gamut Error
- SFP Optical Connector (* OBM-U090 is not supported)
- Internal Pattern Display for Color Test (Black ~ 100% White, Color Bar)
- Remote Control via GPI(RJ-45) Port
- H/V Delay
- Blue/Mono Only
- Focus Assist
- False Color (Zebra, Color Pattern, ARRI)
- 3 Color TALLY Lamp
- Rack & VESA Mount (Option)
- Closed Caption (608, 708)
- System Data Copy
- Key Lock & Password Lock
- Black Stretch
- Fast Mode (* OBM-U090/U170 Only)
- HDR Auto Setting
- HDMI 2.0 Support
- Aspect
- Freeze
- Camera Log Mapped SDI Loopout
- Easy Firmware Update by USB
- IMD

* Functions are subject to change without prior notice for the product quality improvement.

Specifications

ITEM		OBM-U090	OBM-U170	OBM-U240	OBM-U310	OBM-U550L
Input	4 x BNC	12G/6G/3G/HD/SD-SDI-1/2, 3G/HD/SD-SDI-3/4				
	1 x HDMI	HDMI 2.0				
	1 x SFP	-	Optical			
	3 x BNC(YPbPr)	Analog(YPbPr)	-			
	1 x BNC(CVBS)	Composite	-			
Output	4 x BNC	12G/6G/3G/HD/SD-SDI-1/2, 3G/HD/SD-SDI-3/4 Active Loop Output				
Input Signal Format	SMPTE ST 2082	2160p(60/59.94/50)				
	SMPTE ST 2081	2160p(30/29.97/25/24/23.98)				
	SMPTE ST 425-AB	1080p(60/59.94/50/30/29.97/25/24/23.98/30sF/29.97sF/25sF/24sF/23.98sF) / 1080i (60/59.94/50)				
	SMPTE ST 274	1080p(30/29.97/25/24/23.98/24sF/23.98sF)				
		1080i (60/59.94/50)				
	SMPTE ST 296	720p(60/59.94/50)				
	SMPTE ST 260	1920 x 1035i(60/59.94)				
	SMPTE ST 2048	2048 x 1080p(24/23.98/24sF/23.98sF)				
	SMPTE ST 125	480i(59.94)				
	ITU-R BT.656	576i(50)				
	HDMI 2.0	~ 2160p(60)				
	SFP	-	12Gbps, 6Gbps, 2.970Gbps, 1.485Gbps, 270Mbps			
Audio In/Out	1 x Phone Jack In	Line In(Stereo)				
	1 x Phone Jack Out	H/P Out(Front, Stereo)				
	2 x Speaker Out	Stereo				
Display	Size	9” LCD	17.3” LCD	23.8” LCD	31” LCD	55” LCD
	Resolution	1920 x 1080 (16:9)	1920 x 1080 (16:9)	3840 x 2160 (16:9)	4096 x 2160 (17:9)	3840 x 2160 (16:9)
	Pixel Pitch	0.1035mm	0.199mm	0.137mm	0.1704mm	0.315mm
	Color	1.064B Colors(8bit+2bit FRC)	1.073B Colors(True 10bit)	1.073B Colors(8bit+2bit FRC)	1.073B Colors(True 10bit)	1.073B Colors(8bit+2bit FRC)
	Viewing Angle	176(H), 176(V)	178(H), 178(V)	178(H), 178(V)	178(H), 178(V)	178(H), 178(V)
	Luminance of White	400cd/m²	350cd/m²	350cd/m²	850cd/m²	450cd/m²
	Contrast	700 : 1	1000 : 1	1000 : 1	1450 : 1	4000 : 1
	Display Area (H x V)	198.72 x 111.78 (mm)	381.9 x 214.8 (mm)	527 x 296 (mm)	698 x 368 (mm)	1209.6 x 680.4 (mm)
General	2 x Ethernet	Control/Update, RJ-45P Input / Output				
	1 x GPIO	GPI-7 Port, RJ-45P Jack				
	2 x Serial	RS-422 Jack, RJ-45P Input / Output				
	1 x USB	For Firmware Update, Color Calibration				
	Power Requirements	DC 12V	AC(100-230V, 50/60Hz) / DC 12V	AC(100-230V, 50/60Hz) / DC 24V	AC(100-240V, 50/60Hz) / DC 24V	AC(100-240V, 50/60Hz)
	Power Consumption	36W	40W	100W	180W	220W
	Operating Temperature	0°C ~ 40°C(32°F~104°F)				
	Operating Humidity	20% ~ 80% RH				
	Weight	3kg / 6.61lbs	6.5kg / 14.33lbs	10.5kg / 23.14lbs	22.2kg / 48.94lbs	37kg / 81.57lbs
	Dimensions (WxHxD)	260 x 205 x 90mm (with stand)	447 x 318 x 120mm (with stand)	606 x 403 x 140mm (with stand)	762 x 515 x 210mm (with stand)	1258 x 815 x 270mm (with stand)
		10.23 x 8.07 x 3.54inch	17.59 x 12.51 x 4.72inch	23.85 x 15.86 x 5.51inch	30 x 20.27 x 8.26inch	49.52 x 32.08 x 10.62inch
	Accessories	Power Cable				
	Option	Rack Mount Kit(9”/17”/24“ only) / Carrying Case / Sun Hood / Acrylic Protector / V-Mount(9”/17” only)			Wall Mount Kit / Carrying Case	

* Specifications are subject to change without prior notice for the product quality improvement.

4K HDR

OBM W Series

4K Wall Monitor for Studio and OB Van

12G/6G/3G-SDI x 2 Input
HDMI 2.0 Input
SFP Module
Panel Resolution 1920x1080(or 1200)
1.064 Billion Colors
18.5", 21", 24", 32", 42", 46", 55"

The OBM W series incorporates 12G-SDI input and loopout(x2), HDMI 2.0 input, SFP optical connector, Component and Composite on the panel of full HD resolution. So, the OBM W series is ideal for building up a 4K monitor wall in the studio or OB van. The OBM W series offers the advanced and convenient features such as HDR(High Dynamic Range), Ethernet Control, Camera Log display, etc.

Product Highlights

- 12G/6G/3G/HD/SD-SDI 2 Channel
- Dual Link 3G-SDI 2-Sample Interleave
- HDMI 2.0 Support
- HDR(High Dynamic Range) Display supporting PQ EOTF(ST 2084), Hybrid Log Gamma, S-Log3
- 3D-LUT for Accurate Color Reproduction
- 1.064 Billion Colors
- Camera Log Conversion
- Camera Log Mapped SDI Loopout
- Custom 3D LUT File Import Through USB
- Gamma Selection (1.0 ~ 3.0)
- Color Temperature(3200K, 5500K, 6500K, 9300K, USER 1/2/3, DCI-P3)
- Compare Color Settings (Side by Side, Wipe Position)
- Waveform, VectorScope (Wave + Vector, Waveform Wide, Position Selection)
- Various Markers (EBU, 4:3, 16:9, 1.85:1, 2.35:1, Variable etc.)
- Internal Patterns Display for Color Test (Black ~ 100% White, Color Bar)
- De-embedded 8~16ch Audio Level Meter
- Time Code Display (Position / Size Selection)
- Remote Control via GPI(RJ-45) Port
- HDR & Camera Log Comparison
- Rack & VESA Mount (Option)
- SFP Optical Connector
- Monitor Control via Ethernet, RS-422
- Easy Firmware Update by USB
- Focus Assist
- Zebra
- Support 4096x2160 Aspect
- Zero Scan / 1:1 Scan
- H/V Delay
- Gamut Error
- 3 Color TALLY Lamp
- Fast Mode
- Aspect
- Freeze
- Blue/Mono Only
- HDR Waveform
- IMD
- Closed Caption(608, 708)
- System Data Copy
- Key Lock & Password Lock

* Functions are subject to change without prior notice for the product quality improvement.

OBM W Series

Specifications

ITEM		OBM-W180	OBM-W210	OBM-W240	OBM-W310	OBM-W420	OBM-W460	OBM-W550
Input	2 x BNC	12G/6G/3G/HD/SD-SDI-1/2						
	1 x HDMI	HDMI 2.0						
	1 x SFP	Optical						
	3 x BNC (YPbPr)	Analog(YPbPr)						
	1 x BNC (CVBS)	Composite						
Output	2 x BNC	12G/6G/3G/HD/SD-SDI-1/2						
Input Signal Format	SMPTE ST 2082	2160p(60/59.94/50)						
	SMPTE ST 2081	2160p(30/29.97/25/24/23.98)						
	SMPTE ST 425-AB	1080p(60/59.94/50/30/29.97/25/24/23.98/30sF/29.97sF/25sF/24sF/23.98sF) / 1080i (60/59.94/50)						
	SMPTE ST 274	1080p(30/29.97/25/24/23.98/24sF/23.98sF)						
		1080i (60/59.94/50)						
	SMPTE ST 296	720p(60/59.94/50)						
	SMPTE ST 260	1920 x 1035i(60/59.94)						
	SMPTE ST 2048	2048 x 1080p(24/23.98/24sF/23.98sF)						
	SMPTE ST 125	480i(59.94)						
	ITU-R BT.656	576i(50)						
	HDMI 2.0	~ 2160p(60)						
	SFP	12Gbps, 6Gbps, 2.970Gbps, 1.485Gbps, 270Mbps						
Audio In/Out	1 x Phone Jack In	Line In(Stereo)						
	1 x Phone Jack Out	H/P Out(Front, Stereo)						
	2 x Speaker Out	Stereo						
Display	Size	18.5" LCD	21.5" LCD	24" LCD	32" LCD	42" LCD	46" LCD	54.6" LCD
	Resolution	1920 x 1080 (16:9)	1920 x 1080 (16:9)	1920 x 1200 (16:10)	1920 x 1080 (16:9)	1920 x 1080 (16:9)	1920 x 1080 (16:9)	1920 x 1080 (16:9)
	Pixel Pitch	0.213mm	0.248mm	0.270mm	0.363mm	0.484mm	0.530 mm	0.630mm
	Color	1.064B colors(8bit+2bit FRC)	1.064B colors(8bit+2bit FRC)	1.064B colors(8bit+2bit FRC)	1.064B colors(8bit+2bit FRC)	1.064B colors(8bit+2bit FRC)	1.064B colors(8bit+2bit FRC)	1.064B colors(8bit+2bit FRC)
	Viewing Angle	178(H), 178(V)	178(H), 178(V)	178(H), 178(V)	178(H), 178(V)	178(H), 178(V)	178(H), 178(V)	178(H), 178(V)
	Luminance of White	350cd/m²	400cd/m²	300cd/m²	500cd/m²	700cd/m²	700cd/m²	700cd/m²
	Contrast	1000 : 1	1000 : 1	1000 : 1	3000 : 1	4000 : 1	4000 : 1	4000 : 1
	Display Area (H x V)	408.96 x 230.04 (mm)	476.064 x 267.786 (mm)	518.4 x 324.0 (mm)	698.4 x 392.85 (mm)	930.24 x 523.26 (mm)	1018.08 x 572.67 (mm)	1209.6 x 680.4 (mm)
General	1 x Ethernet	Control/Update, RJ-45P Input						
	1 x GPIO	GPI-7 Port, RJ-45P Jack						
	2 x Serial	RS-422 Jack, RJ-45P Input / Output						
	1 x USB	For Firmware Update, Color Calibration						
	Power Requirements	AC(100-230V,50/60Hz)/DC12V			AC(100-230V,50/60Hz)/DC24V	AC(100-240V, 50/60Hz)	AC(100-240V, 50/60Hz)	AC(100-240V, 50/60Hz)
	Power Consumption	Max 40W	Max 40W	Max 40W	Max 100W	156W	220W	283W
	Operating Temperature	0 ~ 40°C(32°F~104°F)	0 ~ 40°C(32°F~104°F)	0 ~ 40°C(32°F~104°F)	0 ~ 40°C(32°F~104°F)	0 ~ 40°C(32°F~104°F)	0 ~ 40°C(32°F~104°F)	0 ~ 40°C(32°F~104°F)
	Operating Humidity	20 ~ 80% RH	20 ~ 80% RH	20 ~ 80% RH	20 ~ 80% RH	20 ~ 80% RH	20 ~ 80% RH	20 ~ 80% RH
	Weight	6.7kg/14.77lbs	8.5kg/18.73lbs	10.5kg/23.14lbs	22kg/48.50lbs	32kg/70.54lbs	35kg/77.16lbs	37kg/81.57lbs
	Dimensions(with stand)	470 x 335 x 120mm	538 x 363 x 120mm	600 X 430 X 130 mm	762 x 515 x 210mm	988x640x300mm	1074x687x300mm	1258 x 815 x 270mm
		18.50 x 13.18 x 4.72inch	21.18 x 14.26 x 4.72inch	23.62 x 16.92 x 5.11inch	30 x 20.27 x 8.26inch	38.89 x 21.19 x 11.81inch	42.28 x 27.04 x 11.81inch	49.52 x 32.08 x 10.62inch
	Accessories	Power Cable						
	Option	Rack Mount Kit / Carrying Case / Sun Hood/ Acrylic Protector / V-Mount			Wall Mount Kit / Carrying Case			

* Specifications are subject to change without prior notice for the product quality improvement.

PBP HDR

OBM P Series

True Dual Monitoring Solutions

Picture By Picture
Dual Waveform and Vector Scope
3G-SDI x 2 Input
Custom 3D LUT Import
1.064 Billion Colors
Panel Resolution 1920x1080(or 1200)
18.5", 21", 24", 32", 42", 46", 55"

The OBM P series incorporates the dual scaler, which enables to display the two different SDI signals on the screen. The OBM P series can display Waveform and Vector Scope on the two different SDI videos respectively, which is very useful and convenient for dual monitoring.
Postium's OBM P series offers the superior picture quality and wide viewing angle, and includes an array of professional features and the advanced audio & video signal analysis functions. The OBM P series is equipped with various I/O interfaces such as 3G-SDI, HDMI, Component, Composite.

Product Highlights

- 3G/HD/SD-SDI 2 Channel
- PBP(Picture-by-Picture) Function
- 1:1 Scan in PBP Mode
- Color Settings Adjustable to Either of Two Images in PBP Mode
- Dual Waveform Monitor & Vector Scope
- HDR(High Dynamic Range) Display supporting PQ EOTF(ST 2084), Hybrid Log Gamma, S-Log3
- 3D-LUT for Accurate Color Reproduction
- 1.064 Billion Colors
- Camera Log Conversion
- Camera Log Mapped SDI Loopout
- Custom 3D LUT File Import Through USB
- Gamma Selection (1.0 ~ 3.0)
- Color Temperature(3200K, 5500K, 6500K, 9300K, USER 1/2/3, DCI-P3)
- Compare Color Settings (Side by Side, Wipe Position)
- Monitor Control via Ethernet, RS-422
- Zero Scan / Over Scan / 1:1 Scan
- Easy Firmware Update by USB
- De-embedded 8~16ch Audio Level Meter
- Remote Control via GPI(RJ-45) Port
- Internal Patterns Display for Color Test (Black ~ 100% White, Color Bar)
- Time Code Display (Position / Size Selection)
- Fast Mode
- HDR Waveform
- Focus Assist
- 3 Color TALLY Lamp
- Rack & VESA Mount (Option)
- Closed Caption(608, 708)
- System Data Copy
- Key Lock & Password Lock
- Gamut Error
- Aspect
- Freeze
- Zoom
- H/V Delay
- Blue/Mono Only
- False Color(Zebra, Color Pattern, ARRI)
- IMD

* Functions are subject to change without prior notice for the product quality improvement.

OBM P Series

Specifications

ITEM		OBM-P180	OBM-P210	OBM-P240	OBM-P310	OBM-P420	OBM-P460	OBM-P550
Input	2 x BNC	3G/HD/SD-SDI-1/2						
	1 x HDMI	HDMI 1.3a						
	3 x BNC (YPbPr)	Analog(YPbPr)						
	1 x BNC (CVBS)	Composite						
Output	2 x BNC	3G/HD/SD-SDI-1/2						
Input Signal Format	SMPTE ST 425-AB	1080p(60/59.94/50/30/29.97/25/24/23.98/30sF/29.97sF/25sF/24sF/23.98sF) / 1080i (60/59.94/50)						
	SMPTE ST 274	1080p(30/29.97/25/24/23.98/24sF/23.98sF)						
		1080i (60/59.94/50)						
	SMPTE ST 296	720p(60/59.94/50)						
	SMPTE ST 260	1920 x 1035i(60/59.94)						
	SMPTE ST 2048	2048 x 1080p(24/23.98/24sF/23.98sF)						
	SMPTE ST 125	480i(59.94)						
	ITU-R BT.656	576i(50)						
	HDMI	~ 1080p(60)						
Audio In/Out	1 x Phone Jack In	Line In(Stereo)						
	1 x Phone Jack Out	H/P Out(Front, Stereo)						
	2 x Speaker Out	Stereo						
Display	Size	18.5” LCD	21.5” LCD	24” LCD	32” LCD	42” LCD	46” LCD	54.6” LCD
	Resolution	1920 x 1080 (16:9)	1920 x 1080 (16:9)	1920 x 1200 (16:10)	1920 x 1080 (16:9)	1920 x 1080 (16:9)	1920 x 1080 (16:9)	1920 x 1080 (16:9)
	Pixel Pitch	0.213mm	0.248mm	0.270mm	0.363mm	0.484mm	0.530 mm	0.630mm
	Color	1.064B colors(8bit+2bit FRC)	1.064B colors(8bit+2bit FRC)	1.064B colors(8bit+2bit FRC)	1.064B colors(8bit+2bit FRC)	1.064B colors(8bit+2bit FRC)	1.064B colors(8bit+2bit FRC)	1.064B colors(8bit+2bit FRC)
	Viewing Angle	178(H), 178(V)	178(H), 178(V)	178(H), 178(V)	178(H), 178(V)	178(H), 178(V)	178(H), 178(V)	178(H), 178(V)
	Luminance of White	350cd/m²	400cd/m²	300cd/m²	500cd/m²	700cd/m²	700cd/m²	700cd/m²
	Contrast	1000 : 1	1000 : 1	1000 : 1	3000 : 1	4000 : 1	4000 : 1	4000 : 1
	Display Area (H x V)	408.96 x 230.04 (mm)	476.064 x 267.786 (mm)	518.4 x 324.0 (mm)	698.4 x 392.85 (mm)	930.24 x 523.26 (mm)	1018.08 x 572.67 (mm)	1209.6 x 680.4 (mm)
General	1 x Ethernet	Control/Update, RJ-45P Input						
	1 x GPIO	GPI-7 Port, RJ-45P Jack						
	2 x Serial	RS-422 Jack, RJ-45P Input / Output						
	1 x USB	For Firmware Update, Color Calibration						
	Power Requirements	AC(100-230V,50/60Hz)/DC12V			AC(100-230V,50/60Hz)/DC24V	AC(100-240V, 50/60Hz)		
	Power Consumption	Max 40W	Max 40W	Max 40W	Max 100W	156W	220W	283W
	Operating Temperature	0 ~ 40°C(32°F~104°F)	0 ~ 40°C(32°F~104°F)	0 ~ 40°C(32°F~104°F)	0 ~ 40°C(32°F~104°F)	0 ~ 40°C(32°F~104°F)	0 ~ 40°C(32°F~104°F)	0 ~ 40°C(32°F~104°F)
	Operating Humidity	20 ~ 80% RH	20 ~ 80% RH	20 ~ 80% RH	20 ~ 80% RH	20 ~ 80% RH	20 ~ 80% RH	20 ~ 80% RH
	Weight	6.7kg/14.77lbs	8.5kg/18.73lbs	10.5kg/23.14lbs	22kg/48.50lbs	32kg/70.54lbs	35kg/77.16lbs	37kg/81.57lbs
	Dimensions(with stand)	470 x 335 x 120mm	538 x 363 x 120mm	600 X 430 X 130mm	762 x 515 x 210mm	988x640x300mm	1074x687x300mm	1258 x 815 x 270mm
		18.50 x 13.18 x 4.72inch	21.18 x 14.26 x 4.72inch	23.62 x 16.92 x 5.11inch	30 x 20.27 x 8.26inch	38.89 x 21.19 x 11.81inch	42.28 x 27.04 x 11.81inch	49.52 x 32.08 x 10.62inch
	Accessories	Power Cable						
	Option	Rack Mount Kit / Carrying Case / Sun Hood / Acrylic Protector / V-Mount			Wall Mount Kit / Carrying Case			

* Specifications are subject to change without prior notice for the product quality improvement.

HDR

OBM N Series

Outstanding Picture Quality

3G-SDI x 2 Input
1.064 Billion Colors
3D-LUT for Accurate Color Reproduction
Camera Log Conversion
Custom 3D LUT File Import
Panel Resolution 1920x1080(or 1200)
18.5", 21", 24", 32", 42", 46", 55"

The OBM N series offers the superior picture quality and wide viewing angle, and includes an array of professional features and the advanced audio & video signal analysis functions including Waveform, Vector Scope, Audio Level Meter, IMD, Camera Log Slection, Custom 3D LUT Import, Focus Assist, etc. The OBM N series are equipped with various I/O interfaces such as 3G-SDI, HDMI, Component, Composite, DVI. The wide model lineup from 18.5" up to 55" provides the best solutions from the field production to monitoring in studio.

Product Highlights

· 3G/HD/SD-SDI 2 Channel
· HDR(High Dynamic Range) Display supporting PQ EOTF(ST 2084), Hybrid Log Gamma, S-Log3
· 3D-LUT for Accurate Color Reproduction
· 1.064 Billion Colors
· Camera Log Conversion
· Camera Log Mapped SDI Loopout
· Custom 3D LUT File Import Through USB
· Gamma Selection (1.0 ~ 3.0)
· Color Temperature(3200K, 5500K, 6500K, 9300K, USER 1/2/3, D-CINEMA)
· Compare Color Settings (Side by Side, Wipe Position)
· Waveform, VectorScope (Wave + Vector, Waveform Wide, Position Change, Size Adjustment)
· Monitor Control via Ethernet, RS-422
· Various Markers (EBU, 4:3, 16:9, 1.85:1, 2.35:1, Variable etc.)
· Internal Patterns Display for Color Test (Black ~ 100% White, Color Bar)
· Time Code Display (Position / Size Selection)
· Easy Firmware Update by USB
· HDR & Camera Log Comparison
· Fast Mode
· Focus Assist
· HDR Waveform
· Zero Scan / 1:1 Scan
· H/V Delay
· Blue/Mono Only
· IMD
· De-embedded 8~16ch Audio Level Meter
· Remote Control via GPI(RJ-45) Port
· Gamut Error
· False Color(Zebra, Color Pattern, ARRI)
· 3 Color TALLY Lamp
· Rack & VESA Mount (Option)
· Closed Caption(608, 708)
· System Data Copy
· Key Lock & Password Lock
· Aspect
· Freeze

* Functions are subject to change without prior notice for the product quality improvement.

OBM N Series

Specifications

ITEM		OBM-N180	OBM-N210	OBM-N240	OBM-N310	OBM-N420	OBM-N460	OBM-N550
Input	2 x BNC	3G/HD/SD-SDI-1/2						
	1 x HDMI	HDMI 1.3a						
	3 x BNC (YPbPr)	Analog(YPbPr)						
	1 x BNC (CVBS)	Composite						
	1 x DVI	DVI-D						
Output	2 x BNC	3G/HD/SD-SDI-1/2						
Input Signal Format	SMPTE ST 425-AB	1080p(60/59.94/50/30/29.97/25/24/23.98/30sF/29.97sF/25sF/24sF/23.98sF) / 1080i (60/59.94/50)						
	SMPTE ST 274	1080p(30/29.97/25/24/23.98/24sF/23.98sF)						
		1080i (60/59.94/50)						
	SMPTE ST 296	720p(60/59.94/50)						
	SMPTE ST 260	1920 x 1035i(60/59.94)						
	SMPTE ST 2048	2048 x 1080p(24/23.98/24sF/23.98sF)						
	SMPTE ST 125	480i(59.94)						
	ITU-R BT.656	576i(50)						
	HDMI	~ 1080p(60)						
	DVI-D	VESA/IBM Modes						
Audio In/Out	1 x Phone Jack In	Line In(Stereo)						
	1 x Phone Jack Out	H/P Out(Front, Stereo)						
	2 x Speaker Out	Stereo						
Display	Size	18.5" LCD	21.5" LCD	24" LCD	32" LCD	42" LCD	46" LCD	54.6" LCD
	Resolution	1920 x 1080 (16:9)	1920 x 1080 (16:9)	1920 x 1200 (16:10)	1920 x 1080 (16:9)	1920 x 1080 (16:9)	1920 x 1080 (16:9)	1920 x 1080 (16:9)
	Pixel Pitch	0.213mm	0.248mm	0.270mm	0.363mm	0.484mm	0.530 mm	0.630mm
	Color	1.064B colors(8bit+2bit FRC)	1.064B colors(8bit+2bit FRC)	1.064B colors(8bit+2bit FRC)	1.064B colors(8bit+2bit FRC)	1.064B colors(8bit+2bit FRC)	1.064B colors(8bit+2bit FRC)	1.064B colors(8bit+2bit FRC)
	Viewing Angle	178(H), 178(V)	178(H), 178(V)	178(H), 178(V)	178(H), 178(V)	178(H), 178(V)	178(H), 178(V)	178(H), 178(V)
	Luminance of White	350cd/m²	400cd/m²	300cd/m²	500cd/m²	700cd/m²	700cd/m²	700cd/m²
	Contrast	1000 : 1	1000 : 1	1000 : 1	3000 : 1	4000 : 1	4000 : 1	4000 : 1
	Display Area (H x V)	408.96 x 230.04 (mm)	476.064 x 267.786 (mm)	518.4 x 324.0 (mm)	698.4 x 392.85 (mm)	930.24 x 523.26 (mm)	1018.08 x 572.67 (mm)	1209.6 x 680.4 (mm)
General	1 x Ethernet	Control/Update, RJ-45P Input / Output						
	1 x GPIO	GPI-7 Port, RJ-45P Jack						
	2 x Serial	RS-422 Jack, RJ-45P Input / Output						
	1 x USB	For Firmware Update, Color Calibration						
	Power Requirements	AC(100-230V,50/60Hz)/DC12V			AC(100-230V,50/60Hz)/DC24V	AC(100-240V, 50/60Hz)		
	Power Consumption	Max 40W	Max 40W	Max 40W	Max 100W	156W	220W	283W
	Operating Temperature	0 ~ 40°C(32°F~104°F)	0 ~ 40°C(32°F~104°F)	0 ~ 40°C(32°F~104°F)	0 ~ 40°C(32°F~104°F)	0 ~ 40°C(32°F~104°F)	0 ~ 40°C(32°F~104°F)	0 ~ 40°C(32°F~104°F)
	Operating Humidity	20 ~ 80% RH	20 ~ 80% RH	20 ~ 80% RH	20 ~ 80% RH	20 ~ 80% RH	20 ~ 80% RH	20 ~ 80% RH
	Weight	6.7kg/14.77lbs	8.5kg/18.73lbs	10.5kg/23.14lbs	22kg/48.50lbs	32kg/70.54lbs	35kg/77.16lbs	37kg/81.57lbs
	Dimensions(with stand)	470 x 335 x 120mm	538 x 363 x 120mm	600 X 430 X 130 mm	762 x 515 x 210mm	988x640x300mm	1074x687x300mm	1258 x 815 x 270mm
		18.50 x 13.18 x 4.72inch	21.18 x 14.26 x 4.72inch	23.62 x 16.92 x 5.11inch	30 x 20.27 x 8.26inch	38.89 x 21.19 x 11.81inch	42.28 x 27.04 x 11.81inch	49.52 x 32.08 x 10.62inch
	Accessories	Power Cable						
	Option	Rack Mount Kit / Carrying Case / Sun Hood / Acrylic Protector / V-Mount			Wall Mount Kit / Carrying Case			

* Specifications are subject to change without prior notice for the product quality improvement.

HDR

OBM N Series

Versatile On-Camera & Field Monitors

3G-SDI x 2 Input & Active Loopout
HDMI 1.4a, YPbPr, CVBS
HDMI to SDI Conversion
1.064 Billion Colors
Camera Log Conversion
Custom 3D LUT File Import
Panel Resolution 1920x1080

OBM-N090

OBM-N070

The OBM N series On-Camera & Field monitors offer the superior picture quality and wide viewing angle, and include an array of professional features and the advanced audio & video signal analysis functions including Waveform, Vector Scope, Audio Level Meter, Fast Mode, Camera Log Mapped SDI Loopout, Camera Log Slection, Custom 3D LUT Import, Focus Assist, and many other unique and advanced functions.
The OBM N series On-Camera & Field monitors are equipped with various I/O interfaces such as 3G-SDI, HDMI, Component, Composite, and the HDMI to SDI Conversion is supported.

Product Highlights

· 3G/HD/SD-SDI 2 Channel Input and Active Loopout
· HDMI 1.4a, YPbPr, CVBS Input
· HDMI to SDI Conversion
· HDR(High Dynamic Range) Display supporting ST 2084, Hybrid Log Gamma, S-Log3
· 3D-LUT for Accurate Color Reproduction
· 1.064 Billion Colors
· Camera Log Conversion
· Camera Log Mapped SDI Loopout
· Custom 3D LUT File Import Through USB
· Gamma Selection (1.0 ~ 3.0)
· Color Temperature(3200K, 5500K, 6500K, 9300K, USER 1/2/3, D-CINEMA)
· Compare Color Settings (Side by Side, Wipe Position)
· Waveform, VectorScope
(Wave + Vector, Waveform Wide, Position Change, Size Adjustment)
· Monitor Control via Ethernet, RS-422
· Various Markers (EBU, 4:3, 16:9, 1.85:1, 2.35:1, Variable etc.)
· Internal Patterns Display for Color Test (Black ~ 100% White, Color Bar)
· Time Code Display (Position / Size Selection)
· Easy Firmware Update by USB
· HDR & Camera Log Comparison
· Gamut Error
· False Color(Zebra, Color Pattern, ARRI)
· Fast Mode
· Focus Assist
· HDR Waveform
· Zero Scan / 1:1 Scan
· H/V Delay
· Blue/Mono Only
· IMD
· De-embedded 8~16ch Audio Level Meter
· Remote Control via GPI(RJ-45) Port
· 3 Color TALLY Lamp
· Rack Mount Kit (Option)
· Closed Caption(608, 708)
· System Data Copy
· Key Lock & Password Lock
· Aspect
· Freeze

* Functions are subject to change without prior notice for the product quality improvement.

OBM N Series

Specifications

ITEM		OBM-N070	OBM-N090
Input	2 x BNC	3G/HD/SD-SDI-1/2	
	1 x HDMI	HDMI 1.4a	
	3 x BNC (YPbPr)	Analog(YPbPr)	
	1 x BNC (CVBS)	Composite	
Output	2 x BNC	3G/HD/SD-SDI-1/2	
	1 x HDMI	HDMI 1.4a	
Input Signal Format	SMPTE ST 425-AB	1080p(60/59.94/50/30/29.97/25/24/23.98/30sF/29.97sF/25sF/24sF/23.98sF)	
		1080i (60/59.94/50)	
	SMPTE ST 274	1080p(30/29.97/25/24/23.98/24sF/23.98sF)	
		1080i (60/59.94/50)	
	SMPTE ST 296	720p(60/59.94/50)	
	SMPTE ST 260	1920 x 1035i(60/59.94)	
	SMPTE ST 2048	2048 x 1080p(24/23.98/24sF/23.98sF)	
	SMPTE ST 125	480i(59.94)	
	ITU-R BT.656	576i(50)	
	HDMI	1.4a (~ 1080p(50/60))	
Audio In/Out	1 x Phone Jack In	Line In(Stereo)	
	1 x Phone Jack Out	H/P Out(Front, Stereo)	
	2 x Speaker Out	Stereo	
Display	Size	7” LCD	9” LCD
	Resolution	1920 x 1080 (16:9)	1920 x 1080 (16:9)
	Pixel Pitch	0.081mm	0.1035mm
	Color	1.064B colors(8bit+2bit FRC)	1.064B colors(8bit+2bit FRC)
	Viewing Angle	170(H), 170(V)	176(H), 176(V)
	Luminance of White	600cd/m²	400cd/m²
	Contrast	800 : 1	700 : 1
	Display Area (H x V)	155.52 x 87.48 (mm)	198.72 x 111.78 (mm)
General	1 x Ethernet	Control / Update, RJ-45P Input / Output	
	1 x GPIO	GPI-7 Port, RJ-45P Jack	
	2 x Serial	RJ-422 Jack, RJ-45P Input / Output	
	1 x USB	For Firmware Update, Color Calibration	
	DC In	LEMO 2-pin	4-pin XLR
	Power Requirements	DC 12V	
	Power Consumption	20W	29W
	Operating Temperature	0 ~ 40°C(32°F~104°F)	
	Operating Humidity	20% ~ 80% RH	
	Weight	1.6kg	2.5kg
	Dimensions(with out stand)	191 x 139 x 40mm / 7.51 x 5.47 x 1.57inch	223 x 174 x 43mm / 8.77 x 6.85 x 1.69 inch
	Accessories	Power Cable	Power Cable, Stand
	Option	V-Mount / D-Tap Cable / Ball Head Table Stand (N070) / Rack Mount Kit / Carrying Case / Sun Hood / Acrylic Protector	

* Specifications are subject to change without prior notice for the product quality improvement.

HDR

OBM-H120

Extreme Super Bright Screen

Luminance 2000cd/m²
3G-SDI x 2 Input
HDR 1000cd/m²
3D-LUT for Accurate Color Reproduction
Camera Log Conversion
Custom 3D LUT File Import
Panel Resolution 1280 x 800 (16 : 10)
Screen Size 12.1"

2000 cd/m²

The OBM H series employs the latest panel with high brightness, which enables to provide the great visibility under strong sunlight. By incorporating Postium's technology, the OBM H series offers the precise color reproduction as well as the high brightness.
The OBM H series provides the advanced audio & video signal monitoring functions such as Waveform, Vector Scope, Focus Assist, False Color, Audio Level Meter, Marker and the advanced functions including HDR, Gamut Error, Camera Log Selection, Custom 3D LUT Import, etc.

Product Highlights

· 2000cd/m² Super Bright Screen
· 3G/HD/SD-SDI 2 Channel
· HDR 1000cd/m²
· 3D-LUT for Accurate Color Reproduction
· Camera Log Conversion
· Camera Log Mapped SDI Loopout
· Custom 3D LUT File Import Through USB
· Gamma Selection (1.0 ~ 3.0)
· Color Temperature(3200K, 5500K, 6500K, 9300K, USER 1/2/3, D-CINEMA)
· Compare Color Settings (Side by Side, Wipe Position)
· Waveform, VectorScope
(Wave + Vector, Waveform Wide, Position Change, Size Adjustment)
· Monitor Control via Ethernet, RS-422
· Various Markers (EBU, 4:3, 16:9, 1.85:1, 2.35:1, Variable etc.)
· Internal Patterns Display for Color Test (Black ~ 100% White, Color Bar)
· Time Code Display (Position / Size Selection)
· Easy Firmware Update by USB
· HDR & Camera Log Comparison
· Fast Mode
· Focus Assist
· HDR Waveform
· Zero Scan / 1:1 Scan
· H/V Delay
· Blue/Mono Only
· IMD
· De-embedded 8~16ch Audio Level Meter
· Remote Control via GPI(RJ-45) Port
· False Color(Zebra, Color Pattern, ARRI)
· Gamut Error
· 3 Color TALLY Lamp
· Rack & VESA Mount (Option)
· Closed Caption(608, 708)
· System Data Copy
· Key Lock & Password Lock
· Aspect
· Freeze

* Functions are subject to change without prior notice for the product quality improvement.

OBM-Q240

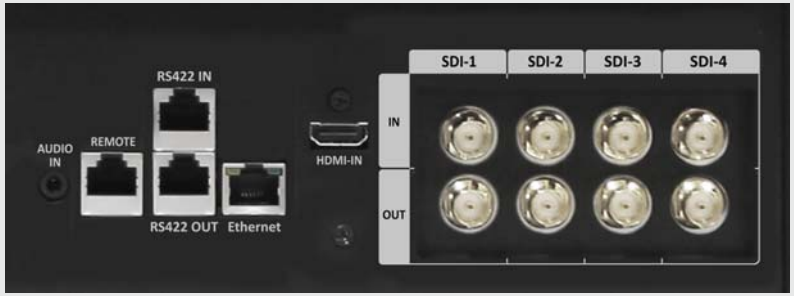
Quad-Split Monitor

4 x 3G/HD/SD-SDI & Active Loopout
HDMI Input
Waveform, Vector Scope
Time Code Display
UMD
3D LUT Accurate Color Reproduction
Panel Resolution: 1920 x 1200

The OBM Q series splits and displays the input videos up to 4 x 3G/HD/SD-SDI signals. This series has the various split screen modes, and offers Waveform monitor, Vector Scope, Time code display, UMD, Audio Level Meter, and other professional functions.

Product Highlights

· Video Input: 4 x 3G-SDI, 1 x HDMI
· Video Output: 4 x 3G-SDI
· Audio In: Embedded Audio, Analog Stereo (Phone Jack)
· Audio Out: Analog Stereo (Phone Jack), Internal Speaker(Mono/Stereo)
· 3G-SDI Level A/B Support
· 3D LUT Accurate Color Reproduction
· Waveform
· Vector Scope
· Various Display Modes
· Adjustable Gamma
· Time Code Display
· Audio Level Meter Display
· UMD
· 1:1 Pixel Mapping
· Blue Only
· H/V Delay
· Various Markers
· Blue/Mono Only
· Various Scan modes
· Freeze Frame
· 3 Color Tally Lamp
· Remote Control via GPI(RJ-45) Port
· Ethernet Control Support
· Firmware Update via USB Flash Memory
· Rack & VESA Mount(Option)



OBM H / Q Series

Specifications

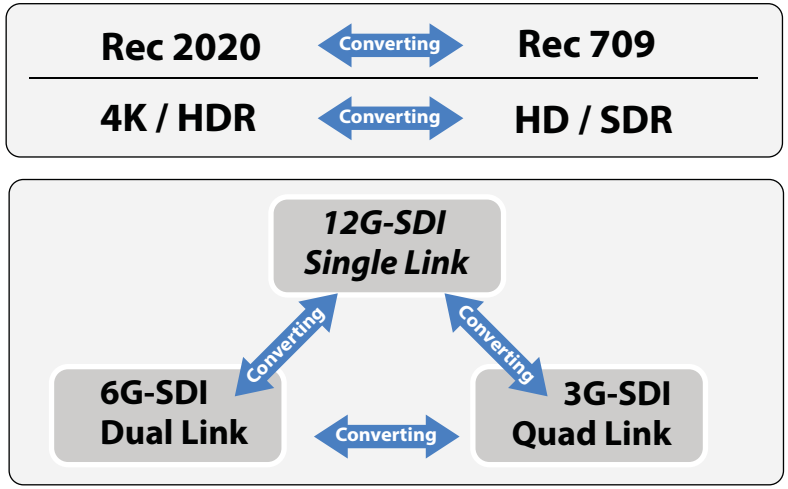
ITEM		OBM-H120	OBM-Q240
Input	BNC (SDI)	2 x 3G/HD/SD-SDI	4 x 3G/HD/SD-SDI
	HDMI	1 x HDMI 1.3a	1 x HDMI 1.3a
	BNC (YPbPr)	3 x Analog(YPbPr)	-
	BNC (CVBS)	1 x Composite	-
	DVI	1 x DVI-D	-
Output	BNC (SDI)	2 x 3G/HD/SD-SDI	4 x 3G/HD/SD-SDI
Input Signal Format	SMPTE ST 425-AB	1080p(60/59.94/50/30/29.97/25/24/23.98/30sF/29.97sF/25sF/24sF/23.98sF) / 1080i (60/59.94/50)	
	SMPTE ST 274	1080p(30/29.97/25/24/23.98/24sF/23.98sF)	
		1080i (60/59.94/50)	
	SMPTE ST 296	720p(60/59.94/50)	
	SMPTE ST 260	1920 x 1035i(60/59.94)	
	SMPTE ST 2048	2048 x 1080p(24/23.98/24sF/23.98sF)	
	SMPTE ST 125	480i(59.94)	
	ITU-R BT.656	576i(50)	
	HDMI	~ 1080p(60)	
	DVI-D	VESA/IBM Modes	
Audio In/Out	1 x Phone Jack In	Line In(Stereo)	
	1 x Phone Jack Out	H/P Out(Front, Stereo)	
	2 x Speaker Out	Stereo	
Display	Size	12.1”	24” LCD
	Resolution	1280 x 800	1920 x 1200 (16:10)
	Pixel Pitch	0.204mm	0.270mm
	Color	1.064B colors(8bit+2bit FRC)	1.064B colors(8bit+2bit FRC)
	Viewing Angle	178(H), 178(V)	178(H), 178(V)
	Luminance of White	2000cd/m²	300cd/m²
	Contrast	1000 : 1	1000 : 1
	Display Area (H x V)	261.12x 163.2 (mm)	518.4 x 324.0 (mm)
General	1 x Ethernet	Control/Update, RJ-45P Input / Output	
	1 x GPIO	GPI-7 Port, RJ-45P Jack	
	2 x Serial	RS-422 Jack, RJ-45P Input / Output	
	1 x USB	For Frmware Update, Color Calibration	
	Power Requirements	DC12V	AC(100-230V,50/60Hz)/DC12V
	Power Consumption	Max 39W	Max 40W
	Operating Temperature	0 ~ 40°C(32°F~104°F)	0 ~ 40°C(32°F~104°F)
	Operating Humidity	20 ~ 80% RH	20 ~ 80% RH
	Weight	TBD	10.5kg/23.14lbs
	Dimensions(main body)	304.5X 237.5 X 42 mm/11.98 x 9.33 x 1.65inch	565 x 405 x 77mm/22.24 x 15.94 x 3.03inch
	Dimensions(With Stand)	348.4 x 249.5 x 110mm/13.70 x 9.82 x 4.33inch	600 X 430 X 130 mm/23.62 x 16.92 x 5.11inch
	Accessories	Power Cable	
	Option	Rack Mount Kit / Carrying Case / Sun Hood / Acrylic Protector / V-Mount	

* Specifications are subject to change without prior notice for the product quality improvement.

4K HDR

HLB-4K

High Dynamic Range LUT BOX-4K



HLB-4K is a stand-alone converter which supports up-conversion and down-conversion between 4K and HD, HDR to SDR conversion and vice versa, color gamut conversion between BT.2020 and BT.709. And, the 12G-SDI single link video input can be output to 6G-SDI dual link or 3G-SDI quad link.

Camera Log Selection

Linear / Rec.709 / Canon Log / Canon Log II / V-Log / HLG / S-Log1 / S-Log2 / S-Log3 / 1D LUT 1～8

※For 1D LUT 1-8, you can assign a 1D LUT by importing ".cube" files.

3D LUT Select

Linear / Rec.2020→Rec.709 / Rec.709→Rec.2020 / 3D LUT 1～8

※For 1D LUT 1-8, you can assign a 1D LUT by importing ".cube" files.

Color Adjustment Functions

Offset / Gamma / Gain / Input Colorimetry / Output Colorimetry

Controls

GPI - Loading Presets from 1- 8 when making junction detected.

GPO - Tally / Alarm / System Alarm / Fan Alarm / Temp. Alarm / Ref. Alarm/ Input Alarm are selectable using the presets from 1 – 8.

HLB-4K		
Input	4 x BNC	12G SDI A,B,C,D Channel Input
	1 x HDMI	2.0 HDMI Input
	2 x SFP	SFP Module
Output	4 x BNC	12G SDI A,B,C,D Channel (Active Through Out) => OPTION
	1 x HDMI	2.0 HDMI Input
	2 x SFP	SFP Module(OPTION)
LAN		1 x LAN in
USB		1 X USB MEMORY STICK
REMOTE		1 X RJ45
POWER		XLR 4 PIN (12V)

System Control

Presets - Depending on the usages, you can save/load the setting as Presets up to 8 data.

Back-up - Exporting/Importing setting data to PC available. Allows much easier control of building the systems.

Rack Monitors PRM Series

PRM series rack monitor systems are available in eight different 3G/HD/SD models in 1, 2, 3 and 4RU rack sizes to meet all your rack monitoring needs. Configured with two, three, four and seven LCD panels in 2”, 4.3”, 5”, 7”, 9“ and 10” screen sizes, the industry-leading PRM series combines the very latest LCD panel technology and broadcast signal processing capabilities with unsurpassed precision engineering.

MULTI - FORMAT LCD MONITOR

PRM-102F

Dual 10″
Full HD (1920x1200)
4RU

▸▸ Product Highlights

- Color Calibration for optimal luminance, gamma, color temperature
- Supporting 3G-SDI (Level A/B) - 10-bit Signal Processor
- HDMI-to-SDI & SDI-to-HDMI Converter
- Auto Luminance Control - Auto Color Temperature Adjustment
- Still Image Overlay(SDI/HDMI, When this function is activated, Auto Flip is not working)
- PIP, PAP(Between analog and digital input)
- USB Memory Update - Focus Assistance - False Color
- Waveform - Vector scope
- Closed Caption (CEA-608/708) - Time Code(Except 3G Level B)
- 8~16ch Audio Level Meter - Exposure Range Check
- UMD/IMD Mode - AFD & V-CHIP(SDI Only)
- Various Markers (EBU, 4:3, 16:9, 1.85:1, 2.35:1, etc.)
- H/V Delay, Pixel-to-Pixel View, Zero/Under/Over Scan, Blue/Mono
- Tally LED Control Output - R/G/B/W Internal Patterns

MULTI - FORMAT LCD MONITOR

PRM-902Q

Dual 9″
960x540
4RU

▸▸ Product Highlights (PRM-902Q / PRM-902A / PRM-702A)

- Multi-Format Support (480i,576i,720P,1080i,1080P,1080Psf,2K)
- 2x HD/SD-SDI inputs (Auto Detecting/Switching) with Active Loop Through
- Dual High Definition 9-inch 16.7MegaPixel Wide Screen
- Varieties of Analog Input (Composite, S-Video, YPbPr, RGB)
- 4RU of a standard EIA 19 inch rack - Assignable Remote Control
- Closed Caption : CEA-608/708 - AFD
- H/V Delay mode - Analog Stereo Audio Out (Phone Jack)
- Internal Left & Right Speaker (2 x 1W) - Blue Only & Monochrome
- Markers & Safety Areas including user defined Markers
- Source ID Function (User Defined in OSD Function)
- Embedded Audio Level Meter (16ch) - Vertical/Horizontal
- Timecode Display (VITC & LTC)
- Selectable Full & Small Size
- WaveForm (Y Cb Cr)/Vector Scope-HD/SDI (SDI only)

MULTI - FORMAT LCD MONITOR

PRM-902A

Dual 9″
800x480
4RU

MULTI - FORMAT LCD MONITOR

PRM-702A

Dual 7″
800x480
3RU

MULTI - FORMAT LCD MONITOR

PRM-434A

Quad 4.3″
800x480
2RU

▸▸ Product Highlights (PRM-434A / PRM-503A)

- Multi-Format Support
- (480i, 576i, 720P, 1080i, 1080P, 1080Psf, 2K)
- Resolution (800x480) 16.7 MegaPixel Wide Screens
- Small Footprint occupies only 2RU of a standard EIA 19 inch rack
- Remote Control (Tally control)
- Closed Caption : CEA-608/708 - AFD - H/V Delay
- Blue Only & Monochrome
- Wide Variety of Markers & Safety Areas including user defined Markers
- HD/SD-SDI Input & Active Loop Through
- SDI Input Format Auto Detect
- Source ID Function (User Defined in OSD Function)
- Embedded Audio Level Meter (16 ch) - Vertical/Horizontal
- Timecode Display
- Selectable Full & Small Size, WaveForm (Y Cb Cr)/Vector Scope (SDI only)

MULTI - FORMAT LCD MONITOR

PRM-503A

Triple 5″
800x480
2RU

MULTI - FORMAT LCD MONITOR

PRM-502LE

Dual 5″
800x480
2RU

- Multi-Format Support (480i, 576i, 720P, 1080i, 1080P, 1080Psf, 2K)
- High Definition 5-inch (800x480) 16.7MegaPixel Wide Screens
- H/V Delay - Marker - Blue Only & Monochrome
- HD/SD-SDI 2 Input & Active Loop Through
- SDI Input Format Auto Detect
- Variety of Analog Input (Composite, S-Video, YPbPr, RGB)
- Source ID Function - White LED BackLight
- Wide Viewing Angle Technology (H : 170 degrees, V : 170 degrees)

MULTI - FORMAT LCD MONITOR

PRM-207Q

Septuple 2″
960x560
1RU

- Multi-Format Support (480i, 576i, 720P, 1080i, 1080P, 1080Psf, 2K)
- 7 High Resolution 2-inch (960x540) 16.8MegaPixel Wide Screens
- Small Footprint occupies only 1RU of a standard EIA 19inch rack
- Dynamic UMD
- Wide Variety of Marker & Safety Area
- Blue Only & Monochrome
- HD/SD-SDI 1 Input & Active Loop Through
- SDI Input Format Auto Detect
- Source ID Function (User Defined in OSD Function)
- White LED BackLight

▸▸ Product Specifications

PRM Series		PRM-102F	PRM-902Q	PRM-902A	PRM-702A	PRM-502LE	PRM-503A	PRM-434A	PRM-207Q
									
Number of Screens		2	2	2	2	2	3	4	7
Input (1 Screen)	SDI	2 x BNC (3G/HD/SD)	2 x BNC(HD/SD)				2 x BNC(HD/SD)	1 x BNC(HD/SD)	
	HDMI	1 x HDMI	-						
	Analog	3 x BNC (YPbPr/CVBS/S-Video/RGB)	3 x BNC(YPbPr/CVBS/S-Video/RGB)				1 x BNC(CVBS)	-	
Output (1 Screen)	SDI	1 x BNC (3G/HD/SD)(SDI Loop Out or HDMI Conversion Out)	1 x BNC(HD/SD)				1 x BNC(CVBS)	1 x BNC(HD/SD)	
	HDMI	1 x HDMI (HDMI Loop Out or SDI Conversion Out)	-						
	Analog	-	SDI Channel / Composite Outputs				1 x BNC(CVBS)		
Audio In/Out	Phone Jack In	1 x Line In(Stereo)	-						
	Phone Jack Out	1 x Headphone Out(Stereo)	1 x Headphone Out(Stereo)			-			
	2 x Speaker	1 x 0.5W(Mono)	2 x 1W(Mono)			-			
Input Signal	Analog	Composite (1.0Vpp with Sync NTSC/PAL) YC S-Video (Y : 1.0Vp-p, C : 0.268Vp-p) Component Y/Pb/Pr (Y : 1.0Vp-p, Pb,Pr : 0.7Vp-p) Component RGB (R, G, B : 0.7Vp-p, H/V Sync : 4V ± 1Vp-p) PC-RGB, Sync Level (R, G, B : 0.7Vp-p, H/V Sync : 4V ± 1Vp-p)	Composite (1.0Vpp with Sync) S-Video (1.0Vpp Ywith Sync, 0.268Vpp [c]) Component (1.0Vpp Ywith Sync, 0.7Vpp [Pb,Pr]) RGB (1.0Vpp Gwith Sync, 0.7Vpp [B,R])			Composite (1.0Vpp with Sync) S-Video (1.0Vpp Ywith Sync, 0.268Vpp [c]) Component (1.0Vpp Ywith Sync, 0.7Vpp [Pb,Pr]) RGB (1.0Vpp Gwith Sync, 0.7Vpp [B,R])	Composite (1.0Vpp with Sync)	-	
	HD-SDI	3G / 1.485Gbps	1.485 Gbps			1.485 Gbps			
	SD-SDI	270 Mbps				270 Mbps			
SDI Input Signal Formats	SMPTE- 425M AB	1080p(60/59.94/50/30/29.97/25/24/23.98/30sF/ 29.97sF/25sF/24sF/23.98sF) / 1080i (60/59.94/50)	-						
			-						
	SMPTE- 274M / 292M	1080i (60/59.94/50)							
		1080P (30/29.97/25/24/24sF/23.98/23.98sF)							
	SMPTE-296M	720P (50/59.94/60)							
	SMPTE-260M	1035i (60/59.94)							
	SMPTE-125M	480i (59.94)							
	ITU-R.BT.656	576i (50)							
	2K Format	2048 x 1080 (23.98psf/24psf/23.98p/24p)							
	HDMI	~ 1080p(60)	-						
CVBS Input		NTSC (525 / 59.94i), PAL (625/50i), PAL-M (525 / 59.94i)				NTSC (525 / 59.94i), PAL (625/50i), PAL-M (525 / 59.94i)			
S-Video Input		NTSC (525 / 59.94i), PAL (625/50i), PAL-M (525 / 59.94i)				NTSC (525 / 59.94i), PAL (625/50i), PAL-M (525 / 59.94i)	-	-	
Component, RGB Input		480i (59.94), 576i (50), 480P (59.94), 576P (50) 1080i (60/59.94/50) 1080P (30/29.97/25/24/24sF/23.98/23.98sF) 720P (50/59.94/60)				480i (59.94), 576i (50), 480P (59.94), 576P (50) 1080i (60/59.94/50) 1080P (30/29.97/25/24/24sF/23.98/23.98sF) 720P (50/59.94/60)	-	-	
LCD	Size	10 inch (102F)	9 inch (902Q)	9 inch (902A)	7 inch (702A)	5 inch (502LE)	5 inch(503A)	4.3 inch(434A)	2 inch(207Q)
	Resolution	1920 x 1200 (16 : 10)	960 x 540 (16 : 9)	800 x 480 (15 : 9)	800 x 480 (15 : 9)	800 x 480 (15 : 9)	800 x 480 (15 : 9)	800 x 480 (15 : 9)	960 x 540 (16 : 9)
	Pixel Pitch	0.11292 (H) x 0.11292 (V) mm	0.207 (H) x 0.207 (V) mm	0.246 (H) x 0.246 (V) mm	0.246 (H) x 0.246 (V) mm	0.135 (H) x 0.135 (V) mm	0.135 (H) x 0.135 (V) mm	0.116 (H) x 0.116 (V) mm	46.5 (H) x 46.5 (V) μm
	Color	16.7M (True), 8bit	16.7M (True), 24bit	16.7M (True), 24bit	16.7M (True), 24bit	16.7M (True), 24bit	16.7M (True), 24bit	16.7M (True), 24bit	16.7M (True), 24bit
	Viewing Angle	H : 170 degrees	H : 170 degrees	H : 160 degrees	H : 140 degrees	H : 170 degrees	H : 170 degrees	H : 130 degrees	H : 90 degrees
		V : 170 degrees	V : 170 degrees	V : 140 degrees	V : 140 degrees	V : 170 degrees	V : 170 degrees	V : 110 degrees	V : 90 degrees
	Luminance of White	320cd/㎡ (center)	400cd/㎡ (center)	600cd/㎡ (center)	350cd/㎡ (center)	300cd/㎡ (center)	300cd/㎡ (center)	200cd/㎡ (center)	250cd/㎡ (center)
	Contrast	800 : 1	1000 : 1	600 : 1	700 : 1	600 : 1	600 : 1	300 : 1	200 : 1
Power		12V DC. 2.4A	12V DC. 2.4A	12V DC. 2.7A	12V DC. 1.6A	12V DC. 1.2A	12V DC. 2.2A	12V DC. 2.6A	12V DC. 4.2A
Power Consumption (Approx.)		18 Watts	29 Watts	33 Watts	20 Watts	14 Watts	27 Watts	32 Watts	50.4 Watts
Operating Temperature		0℃ to 40℃ (32 °F to 104 °F)							
Storage Temperature		-30℃ to 50℃ (-22 °F to 122 °F)							
Accessories		DC Power Adapter							
Optional Accessories		Serial/RS422 Adapter							

* Above specifications may be changed without notice.

4K/12G-SDI Distribution

4K VDA

12G S1-S4 2.44 in(62mm) x 3.93(100mm) x 1.10 in(28mm)

Features

· 1 x SDI Input, 4 x SDI Outputs
· Multi Formats Support with SD, HD, 3G, 6G, 12G-SDI
· 4 Outputs automatically match the SDI video input
· Re-clocking
· Passes all ancillary data
· LED signal detection indicator
· Compact and Portable size
· DC 5V or 12V Wide Operating Voltage Range
· Chargeable through USB & Adapter

General

· Power Requirements : DC 5V or 12V
· Power Consumption : Max 2.2W
· Operating Temperature : 0° ~ 40° C
· Operating Humidity : 0% ~ 90%RH
· Weight : 192g / 0.423 lbs
· Dimensions : 119 x 62 x 28(mm) / 4.68 x 2.44 x 1.10(inch)
· Accessories : AC Adaptor

Available Signal Formats

HD-SDI

Signal System	Signal Format
1920x1080 / 23.98, 24, 25, 29.97, 30p/Psf, 50, 59.94, 60i	4:2:2 YCbCr 10bit
2048 x 1080 / 23.98, 24, 25, 29.97, 30p/Psf	4:2:2 YCbCr 10bit
1280x 720 / 23.98, 24, 25, 29.97, 30, 50, 59.94, 60p	4:2:2 YCbCr 10bit

3G-SDI

Signal System	Signal Format	
1920 x1080 / 50, 59.94, 60p	4:2:2 YCbCr 10bit	Level A / Level B-DL
1920 x1080 / 23.98, 24, 25, 29.97, 30p/Psf, 50, 59.94, 60i	4:4:4 RGB 10bit 4:4:4 YCbCr 10bit 4:4:4 RGB 12bit 4:4:4 YCbCr 12bit	Level A / Level B-DL
1280x 720 / 23.98, 24, 25, 29.97, 30, 50, 59.94, 60p	4:4:4 RGB 10bit 4:4:4 YCbCr 10bit	Level A
2048 x1080 / 48, 50, 60p	4:2:2 YCbCr 10bit	Level A / Level B-DL
2048 x 1080 / 23.98, 24, 25, 29.97, 30p/Psf	4:4:4 RGB 10bit 4:4:4 YCbCr 10bit 4:4:4 RGB 12bit 4:4:4 YCbCr 12bit	Level A / Level B-DL

6G-SDI

Signal System	Signal Format
3840 x2160 / 50, 59.94, 60p	4:2:2 YCbCr 10bit
4096 x2160 /47.95, 48, 50, 59.94, 60p	4:2:2 YCbCr 10bit

12G-SDI

Signal System	Signal Format
3840 x2160 / 50, 59.94, 60p	4:2:2 YCbCr 10bit
4096 x2160 /47.95, 48, 50, 59.94, 60p	4:2:2 YCbCr 10bit

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