POSTIUM
Professionals Broadcast Monitors

postium®

12G-SDI Quad Link 8K / 3G-SDI Quad Link 4K
HDR / Video over IP
Custom 3D LUT Import / Camera Log

HDR 8K Monitors
GRADE 1 True HDR 4K Monitors
4K LCD Professional Monitors
4K Wall Monitors
Super Bright Monitors
Quad-Split Monitors
HDR LUT BOX-4K
4K/12G-SDI Distribution
RACK Monitors

OBM-U428K
OBM-U318K
OBM-U248K
OBM-U178K

8K HDR
4K HDR
Full HD HDR

2023 .05

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 24 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.

Our 17.3", 24", 32", 42" 8K HDR monitors and 9", 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 22 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.

8K HDR **4K HDR** **Full HD HDR**

OBM - 8K Series `8K HDR`

8K LCD Professional Monitors with 12G-SDI Single Link, Quad Link 4K

The OBM-8K Series incorporates 4 x 12G SDI input and Loopout(x4), HDMI® 2.0 input. The OBM-8K Series accepts up to 7680x4320 / 60 / 59.94. / 50p signals. The OBM-8K Series provides the function to display the HDR(High Dynamic Range) footage, and supports a wide color gamut conforming to DCI-P3 and ITU-R BT.2020.
The OBM-8K Series offers the professional performance, including excellent quality black performance, accurate color reproduction, which make these monitors ideal for 8K/4K live production, versatile monitoring and field production applications. In addition, the OBM-8K Series supports the integrated 3D LUT, Waveform, Vector Scope and full feature set.

OBM - U4K Series `4K HDR`

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

The OBM U series incorporates 12G-SDI input and loopout(x2), 3G/HD-SDI input and loopout(x2), HDMI® 2.0 input, and SFP input for video over IP.
The OBM U 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 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 input for video over IP.
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 - N/L Series `HDR`

Outstanding Picture Quality

The OBM N/L 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/L 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 - H Series `HDR`

Super Bright Monitor (12", 21")

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 (24")

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.

OBM - R Series `HDR`

21.5" Rack Mountable Monitor, Optimized design for OB Van

The OBM-R210 and OBM-R210Q are the 21.5" broadcast monitors specially designed to install in the OB Van. The OBM-R210 and OBM-R210Q have the narrow bezel size with control buttons on the rear side, and the case is made of the aluminum, which make these two monitors ideal for OB Van.
The OBM-R210 and OBM-R210Q offer the professional performance, including accurate color reproduction through 3D LUT, HD HDR, Waveform, Vector Scope, IMD/UMD, and a full feature set.

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.

PICS-L `4K HDR`

Color Management LUT BOX

The main function of PICS-L is to create and apply 3D LUT.
PICS-L is a stand-alone converter which supports up/down-conversion between 4K and HD. And the 12G-SDI single link, 3G quad link and HDMI® video input can be output to 12G-SDI single link and HDMI®.
The control is performed by using a PC(control software).

RT-2100 1500cd/m²

Professional Studio Prompter 21"

The State of the Art Super High Brightness Tele-Prompter RT-2100 for Professional Broadcast Studio RT-2100, 21inch Tele-Prompter is designed for professional broadcast studio.

PRM Series

MULTI - FORMAT LCD RACK Monitors (Dual, Triple, Septuple)

Table of Contents

OBM Monitor Model Guide For Choice

Items		8K Series (8K Precision Monitors) 17.3", 24", 31", 42"	U Series (4K Precision Monitors) 9", 55"	W Series (4K Wall Monitors) 18", 21", 24", 31", 42", 46", 55"	N/H Series (3G Monitors) N(7", 9", 10", 18", 21", 24", 31", 42", 46", 55"). H(12", 21")	L Series (3G Monitors) 18"	Q Series (Quad Split) 24", 21"(R210 Rack Monitor)
Key Features		12G-SDI 4ch In 6G-SDI 4ch In 3G-SDI 4ch In HDMI® 2.0 In 2SI/SQD, HDR Camera Log Ethernet In Wide Color Space SFP Module	12G-SDI 2ch In 3G-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	3G-SDI 2ch In HDMI® 1.3a In HDR Camera Log Ethernet In W/F and V/S	3G-SDI 1ch In HDMI® 1.3a In HDR Camera Log Ethernet In W/F and V/S	3G-SDI 4ch In 3G-SDI 4ch Out HDMI® 2.0 In Ethernet In W/F and V/S HDR
Input	12G-SDI / 6G-SDI	● 12G/6G/3G x 4	● 12/6G x 2 + 3G x 2	● 12G/6G/3G x 2	–	–	–
	3G-SDI	●	●	●	● 3G x 2	● 3G x 1	● 3G x 4
	DVI	–	–	–	●	–	–
	HDMI®	● 2.0 x 1	● 2.0 x 1	● 2.0 x 1	● 1.4a x 1	● 1.4a x 1	● 2.0 x 1
	YPbPr	–	–	●	●	–	–
	CVBS	–	–	●	●	–	–
	SFP	●	●	●	–	–	–
Output	SDI	● 12/6G/3G x 4	● 12/6G x 2 + 3G x 2	● 12/6G/3G x 2	● 3G x 2	● 3G x 1	● 3G x 4
	HDMI®	–	–	–	N070, N090, H120	–	–
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"	–	●
DC In	4 Pin XLR	●	● Up to 32"	● Up to 32"	● Up to 32"	●	●
Control	REMOTE	●	●	●	●	●	●
	USB (Update, Calibration)	●	●	●	●	●	●
	RS-422GPI (RJ45) In/Out	●	●	●	●	●	●
	Tally	●	● Up to 32"	● Up to 32"	● Up to 32"	●	●
	Ethernet Throughout	–	●	–	–	–	–
4K Multi-input Mode	Dual Link 2SI	●	●	●	–	–	–
	Quad Link 2SI	●	●	–	–	–	–
	Quad Link Square	●	●	–	–	–	–

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

Items	Series	8K Series (8K Precision Monitors)	U 4K Series (4K Precision Monitors)	W Series (4K Wall Monitors)	N/H Series (3G Monitors) R210 applied	L Series (3G Monitors)	Q Series (Quad Split) R210Q applied
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	–	●	●	●	●	–
	Camera Log	–	●	●	●	●	–
	Camera Log Mapped SDI Loopout	●	●	●	●	–	–
	Picture By Picture (PBP)	–	–	–	–	–	●
	Black Stretch	●	●	–	–	–	–
	Gamut Error	●	●	●	●	●	–
	Fast Mode	●	●	●	●	●	–
	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	●	●	●	●	●	●
	User Preset Load / Save	●	●	●	●	●	●
	Password Lock	●	●	●	●	●	●
Calibration	3D LUT	●	●	●	●	●	●
	Gamma	●	●	●	●	●	●
	3rd Party 3D LUT Import	●	●	●	●	●	–
	Color Calibration Utility	●	●	●	●	●	●
Input Signal Format	SMPTE ST 2082-12(12G Quad 8K)	4320p(60/59.94/50)	–	–	–	–	–
	SMPTE ST 2082-10(12G Single)	2160p(60/59.94/50/30/29.97/25/24/23.98)	–	–	–	–	–
	SMPTE ST 2081-10	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 372(P Series Only)	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))		2.0 (~2160p(50/60))
	SFP	12Gbps, 6Gbps, 2.970Gbps, 1.485Gbps			–	–	–

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

Versatile 8K/QFHD Input Capability (OBM-8K Series)

The OBM-Uxx8K series is equipped with standard 12G-SDI input interface(x4) and support 4K/8K Quad Link 2-sample interleave signals and 4K Quad Link Square Division signals.
The OBM-Uxx8K Series can accept up to 7680x4320/23.98, 24, 25, 29.97, 30, 50, 59.94, 60p and 3840x2160/24, 25, 30, 50, 59.94, 60p

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

The OBM 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, 59.94, 60p and 4096x2160/24, 25, 30, 50, 60p signals.

4K Waveform Monitor and Vector Scope Display
(OBM-8K/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-U090and OBM W series are supported.

High Dynamic Range(HDR) Display
(OBM-8K/U/W/P/N/H/L/R/Q 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-8K/U/W/P/N/L/H/R 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
(OBM-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

HDR-ST 2084   SDR-(ITU-R BT.709)

HDR-ST 2084   Color Space (ITU-R BT.709)   SDR-(ITU-R BT.709)   Color Space (ITU-R BT.2020)

HDR-ST 2084   Gamma (1.5)   SDR-(ITU-R BT.709)   Gamma (1.5)

HDR-ST 2084   Gamma (2.8)   SDR-(ITU-R BT.709)   Gamma (2.8)

## Remote Control via Ethernet
(OBM-8K/U/W/N/H/R/Q Series)

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

Various 4K/12G Display Modes

Single Link 12G-SDI (OBM-8K/U/W Series)

12G-SDI Single Link

3840
2160

Dual Link 2-Sample Interleave(2-S.I.) (OBM-8K/U/W Series)

3G-SDI Level B x 2 Link
6G-SDI x 2 Link

A-1 A-2 B-1 B-2

3840
2160
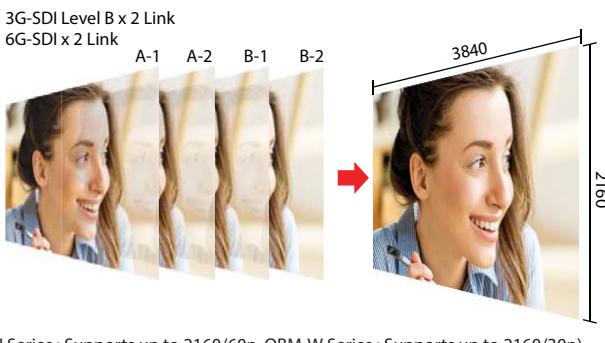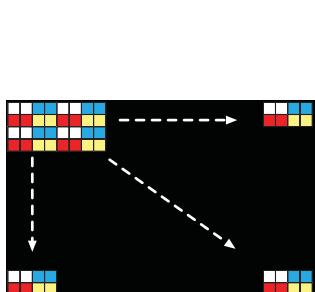
(*OBM-U Series : Supports up to 2160/60p. OBM-W Series : Supports up to 2160/30p)

Quad Link 2 Sample Interleave (2-S.I.) (OBM-8K/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.

HD/3G/12G -SDI x 4 Link
A   B   C   D

3840
2160

Quad Link Square Division (OBM-8K/U Series)

Each link contains one square of the original image.

HD/3G-SDI Link A
HD/3G-SDI Link B
HD/3G-SDI Link C
HD/3G-SDI Link D

| A | B |
| C | D |

3840
2160
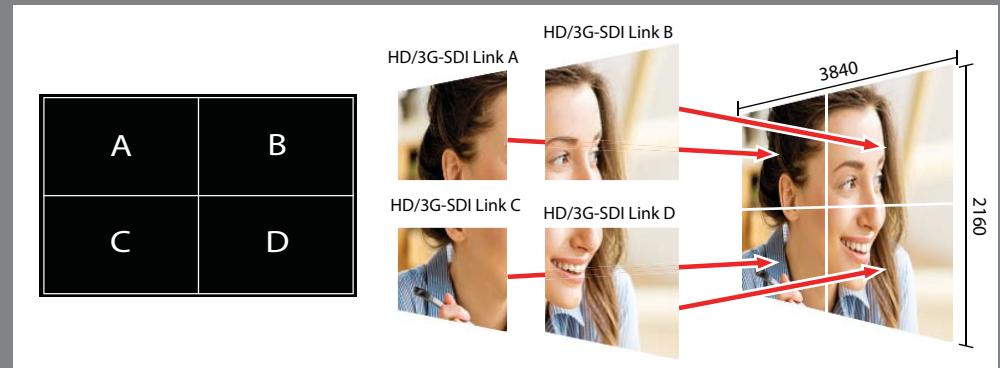
Fast Mode (OBM-U/W/P/N/L/H/R Series)

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.

***8K monitors are in fast mode and FLICKER FREE by default even if you do not turn on/off any special functions.

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

False Color (OBM-8K/U/W/N/L/H/R 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-8K/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.
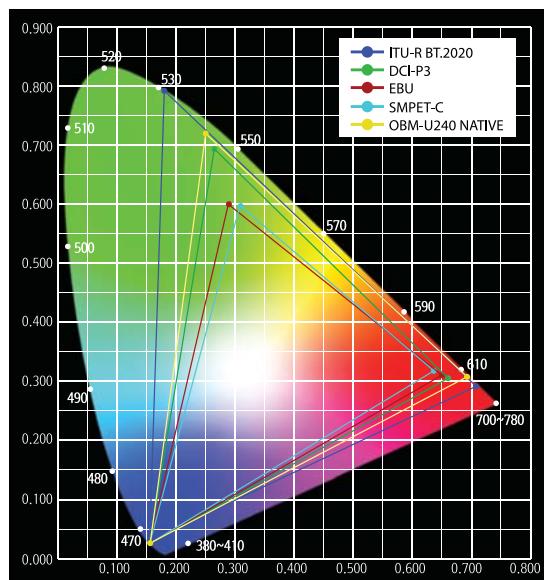
Adjustable Gamma (OBM-8K/U/W/N/L/H/Q/R Series)
Gamma value is adjustable from 1.0 to 3.0 as user's preference to monitor in the dark area of the picture.
Any pictures taken in either light or dark environment can be easily watched or analyzed.

Gamma 1.8   Gamma 2.4

Black Stretch (OBM-8K/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
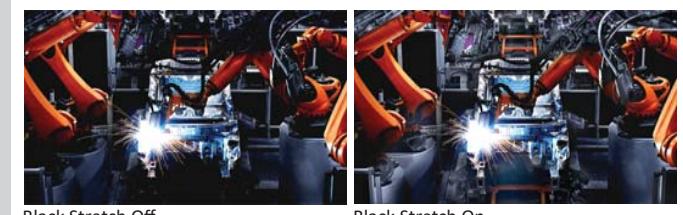
12G-SDI over fiber and 3G-SDI over IP Supporting ST 2022-6, ST 2110 (OBM-8K/U/W Series)

The OBM-8K/U/W series have the SFP interface, which allows to use the various SFP modules which can fit any possible broadcast applications.
The OBM-8K/U/W series monitors can display the 12G-SDI over fiber and the 3G-SDI video over IP through the SFP module supporting ST 2022-6 and ST 2110.

12G-SDI over Fiber
3G-SDI over IP

8K/4K Monitors U/W Series

Camera Log Selection (OBM-8K/U/W/N/L/H/R 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-U/W/N/H/R 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.

[Monitor 1]

Original Image   Camera Log applied image

[Monitor 2]

Loop Out

Camera Log applied image
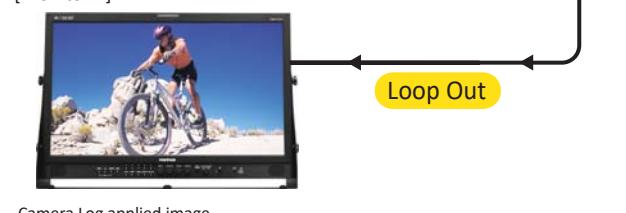
HDR Waveform (OBM-8K/U/W/P/N/L/Q/H/R Series)

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

HDR Mode + HDR Waveform   HDR Waveform

SDR Mode + SDR Waveform   SDR Waveform

Closed Caption (OBM-U/W/N/L/H/R 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-8K/U/W/N/L/H/R 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/N/H/L/R Series)

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

Waveform, Vector Scope - Large   Waveform, Vector Scope - Small

System Data Copy (OBM-8K/U/W/N/L/H/R/Q 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-8K/U/W/N/L/H/Q/R 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.
Custom Marker allows the users to place top, bottom, left, right marker lines as they want.
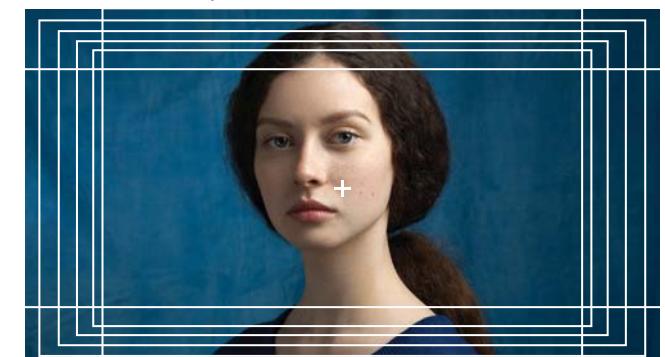

Custom Marker   Aspect Mat 5

HDR / Camera Log Comparison
(OBM-8K/U/W/N/L/H/R Series)

The unique function allows users to compare HDR and Camera

HDR   SDR

Camera Log   BT.709

9

Gamut Error (OBM-8K/U/W/N/L/H/R 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

In-Monitor Display(IMD) (OBM-8K/U/W/N/L/H/Q/R 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.

Password Lock for User Preset (OBM-8K/U/W/N/L/H/R 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-8K/U/W/N/L/H/R 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.

Focus Assist(OBM-8K/U/W/N/L/H/R Series)

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

Scan Mode (OBM-8K Series)

4K/QFHD Mode
The LCD panel resolution of OBM-U318K/278K/248K is QFHD(16:9) 3840x2160, so if the input signal is 3840x2160 1:1 mapping is supported. If the input signal is DCI 4K(4096x2160), 1:1 mapping is not supported.

[Zero Scan]
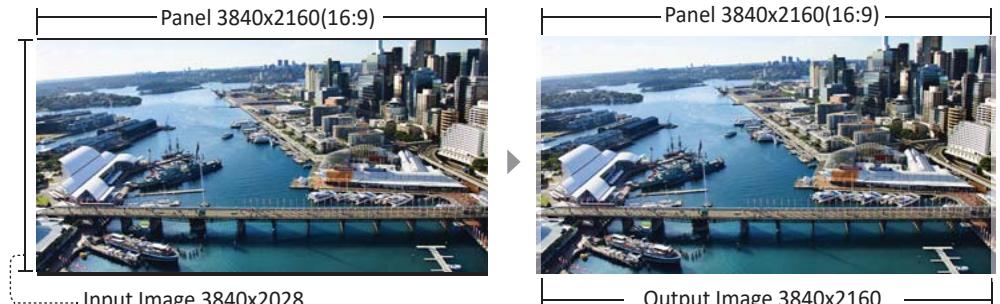
Panel 3840x2160(16:9) Panel 3840x2160(16:9)
Input Image 3840x2028 Output Image 3840x2160

When the 4096x2160 signal is fed, if you select Zero Scan button on the front panel, the pictures is Scaled to be displayed on the panel of 3840x2048 resolution with maintaining 1.89:1 ratio

[1:1 Scan]

Panel 3840x2160(16:9)
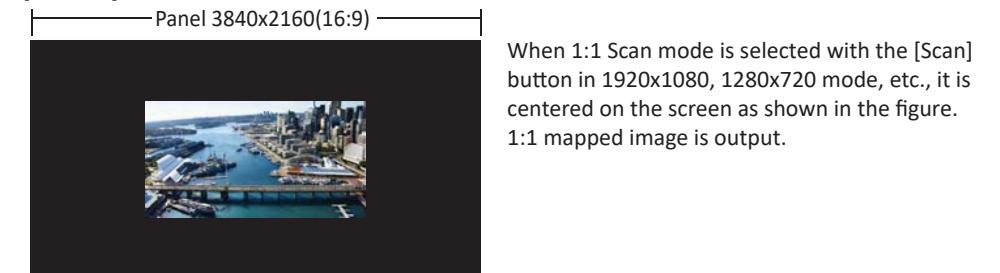
When 1:1 Scan mode is selected with the [Scan] button in 1920x1080, 1280x720 mode, etc., it is centered on the screen as shown in the figure. 1:1 mapped image is output.

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.
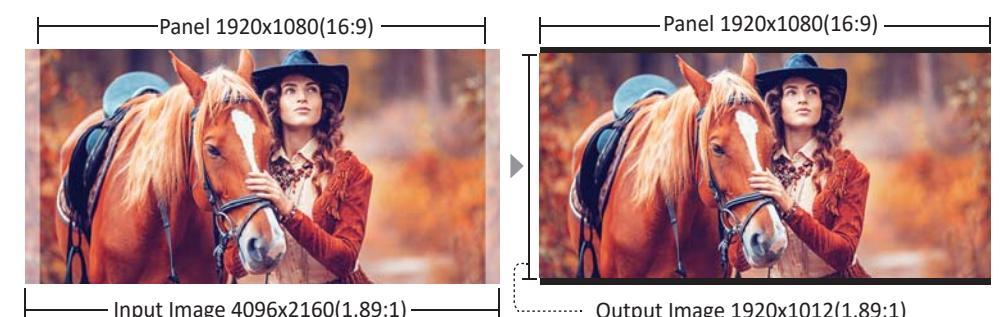
Panel 1920x1080(16:9) Panel 1920x1080(16:9)
Input Image 4096x2160(1.89:1) Output Image 1920x1012(1.89:1)

8K HDR

OBM-8K Series

HDR 8K Monitors

12G-SDI Quad Link 8K
12G-SDI Single Link 4K
3G-SDI Quad Link Square Division & 2-S.I. 4K
Wide Color Gamut
1.073 Billion Colors
Panel Resolution 4096 or 3840 x2160
17.3", 24", 31", 42"

NEW

OBM-U428K

OBM-U318K

OBM-U248K

OBM-U178K
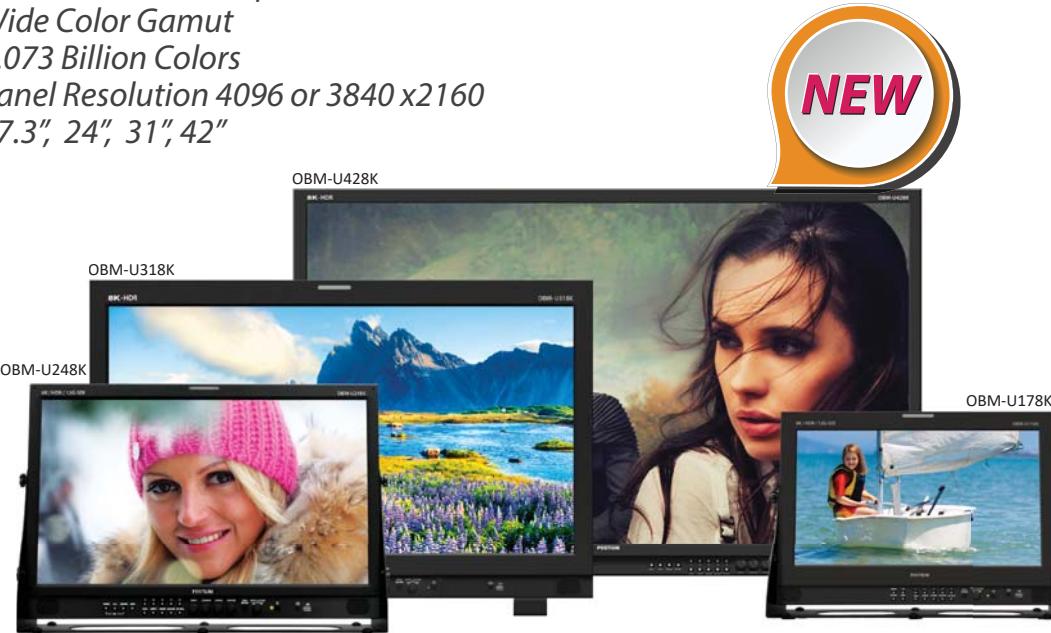
The OBM-8K Series incorporates 4 x 12G SDI inputs and active loop outs (x4), 1-HDMI® 2.0 input, and 2-SFP cages. The OBM-8K Series accepts up to 7680x4320/60/59.94/50p signals. HDR support includes EOTFs for PQ (SMPTE ST 2084), Hybrid Log Gamma and S-Log3 and wide color gamuts conforming to DCI-P3 and ITU-R BT.2020.
The OBM-8K Series offers professional performance and features, including excellent quality black level reproduction and accurate calibrated colorimetry, making the OBM-8K series monitors ideal for 8K/4K live production, versatile studio monitoring applications, and field production applications. In addition, the OBM-8K Series supports integrated 3D LUTs, Waveform, Vector Scope and a full broadcast feature set.

Product Highlights

· 12G SDI Quad Link 8K / 12G-SDI Single Link 4K
· 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
· Dual SFP Module Inputs (ST 2022-6 Support)
· HDMI® 2.0 Input
· HDR(High Dynamic Range) Display supporting PQ (ST 2084), Hybrid Log Gamma, S-Log3
· Wide Color Gamut Supporting ITU-R BT.709, SMPTE-C, EBU, Native, DCI-P3, ITU-R BT.2020
· Internal color processing 72bit(24bitx3) + Native 33x33x33 30bit 3D-LUT
· 1.073 Billion Colors
· Gamut Error
· Black stretch
· Camera Log Conversion
· Custom 3D LUT file Import Through USB
· Gamma Selection (1.0 ~ 3.0)
· SDR EOTF - BT.1886 (Gamma 2.4)
· Color Temperature (3200K, 5500K, 6500K, 9300K, USER 1/2/3, D-CINEMA)
· Monitor Control via Ethernet, RS-422
· Image Division & Link Order Auto Detection
· Waveform, VectorScope (Wave + Vector)
· HDR Waveform
· Various Markers (EBU, 4:3, 16:9, 1.85:1, 2.35:1, Variable Custom)
· Zero Scan
· Time Code Display
· De-embedded 8~16ch Audio Level Meter
· 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
· System Data Copy
· H/V Delay
· Blue/Mono Only
· Focus Assist
· 3 Color TALLY Lamp
· HDR Auto Setting
· Aspect
· Freeze
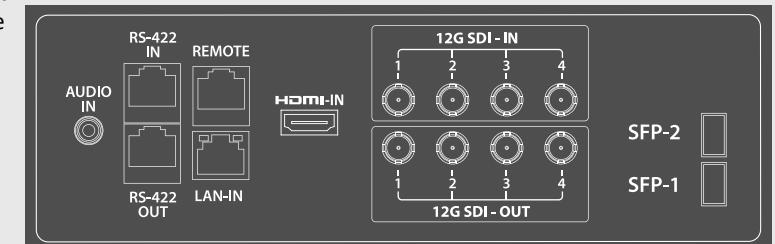
Connector panel: AUDIO IN, RS-422 IN, RS-422 OUT, REMOTE, LAN-IN, HDMI-IN, 12G SDI - IN (1 2 3 4), 12G SDI - OUT (1 2 3 4), SFP-2, SFP-1

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

OBM-U8K Series

Specifications

ITEM		OBM-U178K	OBM-U248K	OBM-U318K	OBM-U428K
Input	4 x BNC	12G/6G/3G/HD			
	1 x HDMI®	HDMI® 2.0			
	2 x SFP	SFP			
Output	4 x BNC	12G/6G/3G/HD/4 Active Loop Output			
Input Signal Format	SMPTE ST 2082-12(12G Quad 8K)	4320p(60/59.94/50)			
	SMPTE ST 2082-10(12G Single)	2160p(60/59.94/50/30/29.97/25/24/23.98)			
	SMPTE ST 2081-11(6G Dual)	2160p(60/59.94/50)			
	SMPTE ST 2081-10(6G Single)	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)			
	HDMI® 2.0	~ 2160p(60)			
	SFP	12Gbps, 6Gbps, 2.970Gbps, 1.485Gbps			
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	17.3" LCD	23.74" LCD	32" LCD	42.51" LCD
	Resolution	3840 x 2160 (16:9)	3840 x 2160 (16:9)	3840 x 2160 (16:9)	3840 x 2160 (16:9)
	Pixel Pitch	0.09945mm	0.1369mm	0.1845mm	0.2451mm
	Color	1.064B Colors(8bit+Hi FRC)	1.073B Colors, 10Bit	1.073B Colors, 10Bit	1.073B Colors, 10Bit
	Viewing Angle	178(H), 178(V)	178(H), 178(V)	178(H), 178(V)	178(H), 178(V)
	Luminance of White	1500cd/m² (HDR Maximum 1000cd/m²)	540cd/m² (HDR Maximum 400cd/m²)	1000cd/m² (HDR Maximum 700cd/m²)	700cd/m² (HDR Maximum 400cd/m²)
	Contrast	1000 : 1	1200 : 1	1500 : 1	1000 : 1
	Display Area (H x V)	381.89 x 214.81 (mm)	525.65 x 295.70 (mm)	708.48 x 398.52 (mm)	941.184 x 529.416 (mm)
General	2 x Ethernet	Control/Update, RJ-45P Input / Output	Control/Update, RJ-45P Input / Output	Control/Update, RJ-45P Input / Output	Control/Update, RJ-45P Input / Output
	1 x GPIO	GPI-7 Port, RJ-45P Jack	GPI-7 Port, RJ-45P Jack	GPI-7 Port, RJ-45P Jack	GPI-7 Port, RJ-45P Jack
	2 x Serial	RS-422 Jack, RJ-45P Input / Output	RS-422 Jack, RJ-45P Input / Output	RS-422 Jack, RJ-45P Input / Output	RS-422 Jack, RJ-45P Input / Output
	1 x USB	For Firmware Update, Color Calibration	For Firmware Update, Color Calibration	For Firmware Update, Color Calibration	For Firmware Update, Color Calibration
	Power Requirements	AC(100-230V, 50/60Hz)/DC 24V	AC(100-230V, 50/60Hz)/DC 24V	AC(100-230V, 50/60Hz)/DC 24V	AC(100-230V, 50/60Hz)
	Power Consumption	75W	80W	120W	150W
	Operating Temperature	0°C ~ 40°C(32°F~104°F)	0°C ~ 40°C(32°F~104°F)	0°C ~ 40°C(32°F~104°F)	0°C ~ 40°C(32°F~104°F)
	Operating Humidity	20% ~ 80% RH	20% ~ 80% RH	20% ~ 80% RH	20% ~ 80% RH
	Weight (with stand)	7.7kg / 16.97lbs	10.5kg / 23.14lbs	14.8kg / 32.62lbs	Main Body : 32kg / 70.54lbs
	Dimensions (with stand)	471 x 335 x 120mm	605 x 400 x 140mm	762 x 513 x 190 mm	990 x 639 x 210 mm
		18.54 x 13.18 x 4.72inch	23.81 x 15.74 x 5.51inch	30 x 20.15 x 7.48 inch	38.97 x 25.15 x 8.26 inch
	Accessories	Power Cable	Power Cable	Power Cable	Power Cable
	Option	Rack Mount Kit/ Carrying Case	Rack Mount Kit/ Carrying Case	Wall Mount Kit/ Carrying Case	Wall Mount Kit/ Carrying Case

NEW

***See page 40/42 for dimensions.

4K HDR

OBM-U Series
4K Professional LCD Monitors

12G-SDI Single Link 4K
6G-SDI Dual Link 2-S.I. 4K
3G-SDI Quad Link Square Division & 2-S.I. 4K
Wide Color Gamut
SFP Module Input (ST 2022-6, ST 2110 Support)
Color Space & Gamma Comparison
Panel Resolution 3840(or 4096) x 2160 or 1920 x1080
9", 24", 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
· SFP Module Input (ST 2022-6,ST 2110 Support)
· HDR(High Dynamic Range) Display supporting PQ EOTF(ST 2084), Hybrid Log Gamma, S-Log3
· HDR Auto Setting
· 3D-LUT for Accurate Color Reproduction
· Wide Color Space Supporting ITU-R BT.709, SMPTE-C, EBU, Native, DCI-P3, ITU-R BT.2020
· SDR EOTF - BT.1886 (Gamma 2.4)
· 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
· 3G-SDI Quad Link Input -> 12G-SDI/3G-SDI Single Link Output
· Image Division & Link Order
· 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)   · Audio Delay (Lip Sync)
· De-embedded 8~16ch Audio Level Meter   · Gamut Error
· Internal Pattern Display for Color Test (Black ~ 100% White, Color Bar)
· Remote Control via GPI(RJ-45) Port
· H/V Delay
· Blue/Mono Only   · Black Stretch
· Focus Assist   · Fast Mode
· False Color (Zebra, Color Pattern, ARRI)   · HDMI® 2.0 Support
· 3 Color TALLY Lamp   · Aspect
· Rack & VESA Mount (Option)   · Freeze
· Closed Caption (608, 708)   · Camera Log Mapped SDI Loopout
· System Data Copy   · Easy Firmware Update by USB
· Key Lock & Password Lock   · IMD

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

Specifications

OBM-U Series

	ITEM	OBM-U090	OBM-U550L
Input	4 x BNC	12G/6G/3G/HD/SD-SDI-1/2, 3G/HD/SD-SDI-3/4	12G/6G/3G/HD/SD-SDI-1/2, 3G/HD/SD-SDI-3/4
	1 x HDMI®	HDMI® 2.0	HDMI® 2.0
	SFP	-	1 x SFP
	3 x BNC(YPbPr)	Analog(YPbPr)	Analog(YPbPr)
	1 x BNC(CVBS)	Composite	Composite
Output	4 x BNC	12G/6G/3G/HD/SD-SDI-1/2, 3G/HD/SD-SDI-3/4 Active Loop Output	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)	2160p(60/59.94/50)
	SMPTE ST 2081	2160p(30/29.97/25/24/23.98)	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)	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)	1080p(30/29.97/25/24/23.98/24sF/23.98sF)
		1080i (60/59.94/50)	1080i (60/59.94/50)
	SMPTE ST 296	720p(60/59.94/50)	720p(60/59.94/50)
	SMPTE ST 260	1920 x 1035i(60/59.94)	1920 x 1035i(60/59.94)
	SMPTE ST 2048	2048 x 1080p(24/23.98/24sF/23.98sF)	2048 x 1080p(24/23.98/24sF/23.98sF)
	SMPTE ST 125	480i(59.94)	480i(59.94)
	ITU-R BT.656	576i(50)	576i(50)
	HDMI® 2.0	~ 2160p(60)	~ 2160p(60)
	SFP	-	12Gbps, 6Gbps, 2.970Gbps, 1.485Gbps, 270Mbps
Audio In/Out	1 x Phone Jack In	Line In(Stereo)	Line In(Stereo)
	1 x Phone Jack Out	H/P Out(Front, Stereo)	H/P Out(Front, Stereo)
	2 x Speaker Out	Stereo	-
Display	Size	9" LCD	55" LCD
	Resolution	1920 x 1080 (16:9)	3840 x 2160 (16:9)
	Pixel Pitch	0.1035mm	0.315mm
	Color	1.064B Colors(8bit+2bit FRC)	1.073B Colors(8bit+2bit FRC)
	Viewing Angle	176(H), 176(V)	178(H), 178(V)
	Luminance of White	400cd/m²	450cd/m²
	Contrast	750 : 1	4000 : 1
	Display Area (H x V)	198.72 x 111.78 (mm)	1209.6 x 680.4 (mm)
General	2 x Ethernet	Control/Update, RJ-45P Input / Output	Control/Update, RJ-45P Input / Output
	1 x GPIO	GPI-7 Port, RJ-45P Jack	GPI-7 Port, RJ-45P Jack
	2 x Serial	RS-422 Jack, RJ-45P Input / Output	RS-422 Jack, RJ-45P Input / Output
	1 x USB	For Firmware Update, Color Calibration	For Firmware Update, Color Calibration
	Power Requirements	DC 12V	AC(100-240V, 50/60Hz)
	Power Consumption	36W	220W
	Operating Temperature	0°C ~ 40°C(32°F~104°F)	0°C ~ 40°C(32°F~104°F)
	Operating Humidity	20% ~ 80% RH	20% ~ 80% RH
	Weight	3kg / 6.61lbs	37kg / 81.57lbs
	Dimensions (WxHxD)	267 x192 x 90mm (with stand)	1265 x 795 x 240mm (with stand)
		10.51 x 7.55 x 3.54inch	49.80 x 31.29 x 9.44inch
	Accessories	Power Cable	Power Cable
	Option	Rack Mount Kit / Carrying Case / Sun Hood / Acrylic Protector / V-Mount	Carrying Case

* Specifications are subject to change without prior notice for the product quality improvement.   ***See page 40/42 for dimensions.

15

OBM-W Series

4K Wall Monitor for Studio and OB Van

12G/6G/3G-SDI x 2 Input
HDMI® 2.0 Input
SFP Module Input (ST 2022-6, ST 2110 Support)
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
· SFP Module Input (ST 2022-6, ST 2110 Support)
· 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
· SDR EOTF - BT.1886 (Gamma 2.4)
· 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)
· 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)	· Gamut Error
· Remote Control via GPI(RJ-45) Port	· 3 Color TALLY Lamp
· HDR & Camera Log Comparison	· Fast Mode
· Rack & VESA Mount (Option)	· Aspect
· Monitor Control via Ethernet, RS-422	· Freeze
· Easy Firmware Update by USB	· Blue/Mono Only
· Focus Assist	· HDR Waveform
· Zebra	· IMD
· Support 4096x2160 Aspect	· Closed Caption(608, 708)
· Zero Scan / 1:1 Scan	· System Data Copy
· H/V Delay	· Key Lock & Password Lock

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

Specifications

OBM-W Series

	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	SFP						
	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	500cd/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)	471 x 335 x 120mm	552 x 364 x 120mm	602 X 428 X 140 mm	749 x 507 x 175mm	988x639x210mm	1074x686x210mm	1265 x 794 x 240mm
		18.54 x 13.18 x 4.72inch	21.73 x 14.33 x 4.72inch	23.70 x 16.85 x 5.51inch	29.48 x 19.96 x 6.88inch	38.89 x 25.15 x 8.26inch	42.28 x 27.00x 8.26inch	49.8 x 31.25 x 9.44inch
	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. ***See page 40/42 for dimensions.

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
· SDR EOTF - BT.1886 (Gamma 2.4)
· 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)
· 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.

Specifications

OBM-N Series

	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)						
	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	500cd/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	8.4kg/18.51lbs	10.5kg/23.14lbs	22kg/48.50lbs	32kg/70.54lbs	35kg/77.16lbs	37kg/81.57lbs
	Dimensions(with stand)	471 x 335 x 120mm	552 x 364.8 x 127 mm	602 X 428 X 140 mm	749 x 507 x 175mm	988x639x210mm	1074x686x210mm	1265 x 794 x 240mm
		18.54 x 13.18 x 4.72inch	21.73 x 14.36 x 5 inch	23.70 x 16.85 x 5.51inch	29.48 x 19.96 x 6.88inch	38.89 x 25.15 x 8.26inch	42.28 x 27.00x 8.26inch	49.8 x 31.25 x 9.44inch
	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.   ***See page 40/42 for dimensions.

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(or 1200)

OBM-N070

OBM-N090

OBM-N101

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)
· 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.

Specifications

OBM-N Series

	ITEM	OBM-N070	OBM-N090	OBM-N101
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	10.1" LCD
	Resolution	1920 x 1080 (16:9)	1920 x 1080 (16:9)	1920 x 1200
	Pixel Pitch	0.081mm	0.1035mm	0.11292 (H) x 0.11292 (V) mm
	Color	1.064B colors(8bit+2bit FRC)	1.064B colors(8bit+2bit FRC)	16.7M colors(6-bit+Hi-FRC)
	Viewing Angle	170(H), 170(V)	176(H), 176(V)	170(H), 170(V)
	Luminance of White	600cd/m²	400cd/m²	400cd/m²
	Contrast	800 : 1	750 : 1	800 : 1
	Display Area (H x V)	155.52 x 87.48 (mm)	198.72 x 111.78 (mm)	198.72 x 111.78 (mm)
General	1 x Ethernet	Control / Update, RJ-45P Input / Output	Control / Update, RJ-45P Input / Output	Control / Update, RJ-45P Input / Output
	1 x GPIO	GPI-7 Port, RJ-45P Jack	GPI-7 Port, RJ-45P Jack	GPI-7 Port, RJ-45P Jack
	2 x Serial	RJ-422 Jack, RJ-45P Input / Output	RJ-422 Jack, RJ-45P Input / Output	RJ-422 Jack, RJ-45P Input / Output
	1 x USB	For Firmware Update, Color Calibration	For Firmware Update, Color Calibration	For Firmware Update, Color Calibration
	DC In	LEMO 2-pin	4-pin XLR	4-pin XLR
	Power Requirements	DC 12V	DC 12V	DC 12V
	Power Consumption	20W	29W	24W
	Operating Temperature	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
	Weight	1.1kg / 2.42lbs(With Stand : 1.5kg / 3.30lbs)	2.1kg / 4.62lbs(With Stand : 2.5kg / 5.51lbs)	2.1kg / 4.62lbs(With Stand : 2.5kg / 5.51lbs)
	Dimensions(W x H x D)	Main Body : 191 x 139 x 40 mm (7.51 x 5.47 x 1.57 inch)	Main Body : 223 x 174 x 43 mm (8.77 x 6.85 x 1.69 inch)	Main Body : 223 x 174 x 43 mm (8.77 x 6.85 x 1.69 inch)
		With Stand : 234.6 x 156 x 78 mm (9.23 x 6.14 x 3.07 inch)	With Stand : 267x 193 x 90 mm (10.51 x 9.59 x 3.54 inch)	With Stand : 267x 193 x 90 mm (10.51 x 9.59 x 3.54 inch)
	Accessories	Power Adapter / Power Cable	Power Adapter / Power Cable / Stand	Power Adapter / 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.

***See page 40 for dimensions.

HD HDR

24" Full HD
Precision LCD Monitors with Professional Feature set

OBM-N240G

3G-SDI x 2 Input and 2 Loopout
1.073 Billion Colors (10bit Color Depth)
Wide Color Gamut with DCI-P3 Coverage 99%
Panel Resolution 1920 x 1080(16.5") or 1200(24")
3D-LUT for Accurate Color Reproduction

HD HDR Support
Camera Log Conversion
Custom 3D LUT file Import
Camera Log Mapped SDI Loopout
HDMI® / DVI / 3 x Analog Input

The OBM-N240G feature the 1920x1080 Full HD resolution or the 24" IPS LCD panel with 1920x1200 Full HD resolution, 10bit color depth, wide color gamut supporting DCI-P3 99%, super wide viewing angle, and high contrast ratio. The OBM-N240G offer the professional performance, including accurate color reproduction through 3D LUT, HD HDR, Integrated camera log of various camera manufacturers, custom 3D LUT import, Waveform, Vector Scope, Audio Level Meter, and many other advanced video analysis function.
The OBM-N240G are ideal for the high-end broadcast and film applications which require the critical image analysis.

Product Highlights

· 3G/HD/SD-SDI x 2 Input & 2 Output
· HDR(High Dynamic Range) Display supporting PQ EOTF(ST 2084), Hybrid Log Gamma, S-Log3
· 3D-LUT for Accurate Color Reproduction
· 1.073 Billion Colors
· Wide Color Gamut with DCI-P3 Coverage 99%
· Camera Log Conversion
· Camera Log Mapped SDI Loopout
· Custom 3D LUT File Import Through USB
· Color Space Selection (BT.709, DCI-P3)
· Gamma Selection (1.0 ~ 3.0)
· Color Temperature(3200K, 5500K, 6500K, 9300K, USER 1/2/3, D-CINEMA)
· HDR / SDR, Camera Log Comparson (Side by Side)
· 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, Custom)
· Internal Patterns Display for Color Test (Black ~ 100% White, Color Bar)
· Time Code Display (Position / Size Selection)
· Easy Firmware Update by USB
· Fast Mode

· Focus Assist	· De-embedded 8~16ch Audio Level Meter
· HDR Waveform	· Remote Control via GPI(RJ-45) Port, Ethernet
· Zero Scan / 1:1 Scan	· Gamut Error
· H/V Delay	· False Color(Zebra, Color Pattern, ARRI)
· Blue/Mono Only	· False Color Comparison
· IMD (TSL V3.1, V5.0)	· 3 Color TALLY Lamp
· Key Lock & Password Lock	· Rack & VESA Mount (Option)
· Aspect	· Closed Caption(608, 708)
· Freeze	· System Data Copy

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

Specifications

ITEM		OBM-N240G
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	24" LCD
	Resolution	1920 x 1200 (16:10)
	Pixel Pitch	0.270 (mm)
	Color	1.073B Colors
	Viewing Angle	178(H), 178(V)
	Luminance of White	400cd/m²
	Contrast	1500 : 1
	Display Area (H x V)	518.4 × 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 Firmware Update, Color Calibration
	Power Requirements	AC(100-230V,50/60Hz)/DC12V
	Power Consumption	Max 40W
	Operating Temperature	0 ~ 40°C(32°F~104°F)
	Operating Humidity	20 ~ 80% RH
	Weight	8.7kg / 19.18lbs (With Stand : 10.5kg /23.14lbs)
	Dimensions (WxHxD)	Main Body : 565 x 405.6 x 76.8 mm / 22.24 x 15.69 x 3.02 inch
		With Stand : 602 x 429 x 140 mm / 23.70 x 16.88 x 5.51 inch
	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.

OBM-N240G

Dimensions
--Main Body : 565 x 405.6 x 76.8 mm / 22.24 x 15.69 x 3.02 inch
--With Stand : 602 x 429 x 140 mm / 23.70 x 16.88 x 5.51 inch

Weight
--Main Body : 8.7kg / 19.18lbs
--With Stand : 10.5kg /23.14lbs

76.8mm / 3.02inch

565mm / 22.24inch

405.6mm / 15.96inch

429mm / 16.88inch

602mm / 23.70inch

140mm / 5.51inch
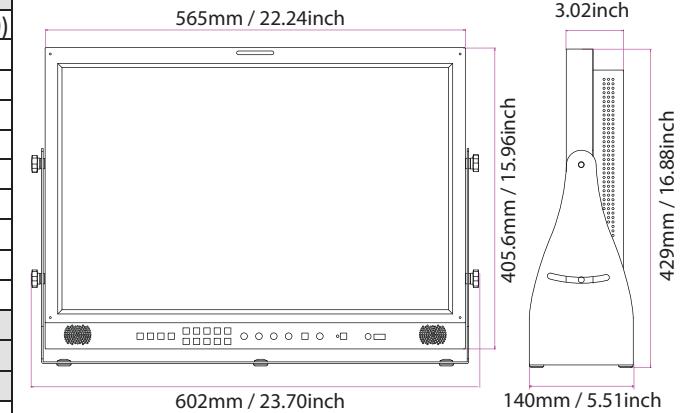
HDR
OBM-H Series
Extreme Super Bright Screen

Luminance OBM-H120 : 2000cd/m² , OBM-H210 : 1500cd/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 OBM-H120 :1280 x 800 (12.1")
                          OBM-H210 :1920 x 1080(21.5")

OBM-H210(21.5")
1500 cd/m²

2000 cd/m² OBM-H120(12.1")

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

· Super Bright Screen : OBM-H120 : 2000cd/m²
                                       OBM-H210 : 1500cd/m²
· 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)
· 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

OBM-H120

OBM-H210

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

Specifications

OBM-H Series

ITEM		OBM-H120	OBM-H210
Input	BNC (SDI)	2 x 3G/HD/SD-SDI	2 x 3G/HD/SD-SDI
	HDMI®	1 x HDMI® 1.3a	1 x HDMI® 1.3a
	BNC (YPbPr)	3 x Analog(YPbPr)	3 x Analog(YPbPr)
	BNC (CVBS)	1 x Composite	1 x Composite
	DVI	-	1 x DVI-D
Output	BNC (SDI)	2 x 3G/HD/SD-SDI	2 x 3G/HD/SD-SDI
	HDMI	1 x HDMI 1.3a	-
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)	~ 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"	21.5" LCD
	Resolution	1280 x 800	1920 x 1080 (16:9)
	Pixel Pitch	0.204mm	0.270mm
	Color	1.064B colors(8bit+2bit FRC)	True 16.7M Colors
	Viewing Angle	178(H), 178(V)	178(H), 178(V)
	Luminance of White	2000cd/m²	1500cd/m²
	Contrast	1000 : 1	1000 : 1
	Display Area (H x V)	261.12x 163.2 (mm)	476.064 (H)mm x 267.786 (V) mm
General	1 x Ethernet	Control/Update, RJ-45P Input / Output	Control/Update, RJ-45 Input -
	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) / DC24V
	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	Main Body : 2.2KG(4.85lb)/With Stand : 3.2KG(7.05lb)	5kg / 11.02 lb
	Dimensions(main body)	304.5X 237.5 X 42 mm/11.98 x 9.33 x 1.65inch	505.5 x 297.2 x 67.4 mm / 19.88 x 11.69 x 2.65 inch
	Dimensions(With Stand)	348.4 x 249.5 x 110mm/13.70 x 9.82 x 4.33inch	552 x 364.8 x 127 mm / 21.73 x 14.36 x 5 inch
	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.

OBM-H120 Dimensions

Dimensions
--Main Body : 304.5 x 237.5 x 41 mm (11.98 x 9.35 x 1.61 inch)
--With Stand : 348.4 x 249.5 x 110 mm (13.71 x 9.82 x 4.33 inch)
Weight
--Main Body : 2.4kg / 5.29lbs (With Stand : 3.2kg / 7.05lbs)

304.5mm / 11.98inch
237.5mm / 9.35inch
41mm / 1.61inch
249.5mm / 9.82inch
348.4mm / 13.71inch
110mm / 4.33inch
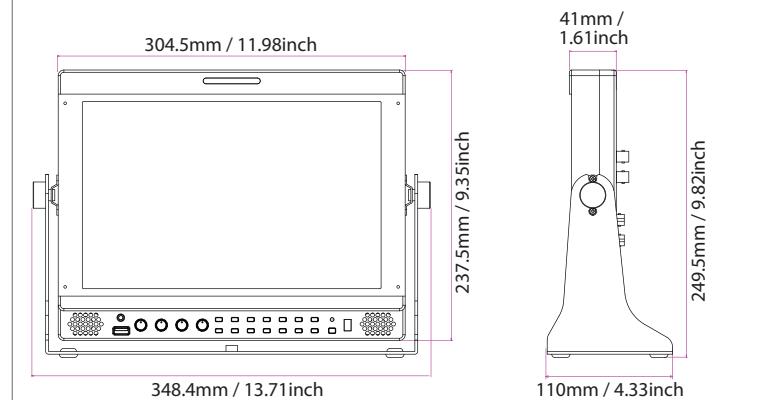
OBM-H210 Dimensions

Dimensions
--Main Body : 517 x 335 x 64 mm (20.35 x 13.18 x 2.15 inch)
--With Stand : 552 x 364.8 x 127 mm (21.73 x 14.36 x 5 inch)
Weight
--Main Body : 9.3kg / 20.50lbs (With Stand : 10.5kg/ 23.14lbs)

517mm / 20.35inch
335mm / 13.18inch
64mm / 2.15inch
364.8mm / 14.36inch
552mm / 21.73inch
127mm / 5inch
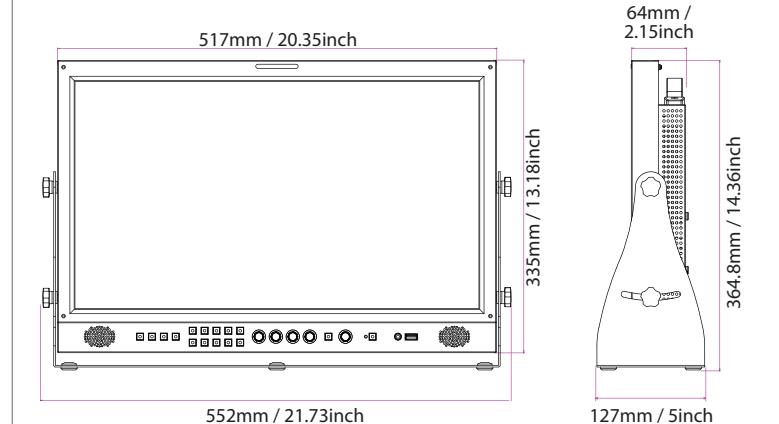
HDR
OBM-Q240
Quad-Split Monitor

4 x 3G/HD/SD-SDI & Active Loopout
HDMI® 2.0 Input
Waveform, Vector Scope
Time Code Display
UMD
3D LUT Accurate Color Reproduction
HDR
Panel Resolution: 1920 x 1200

Product Highlights

· Video Input: 4 x 3G-SDI, 1 x HDMI 2.0
· 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
· HDR Support
· 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
· Firmware Update via USB Flash Memory
· Rack & VESA Mount(Option)

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.
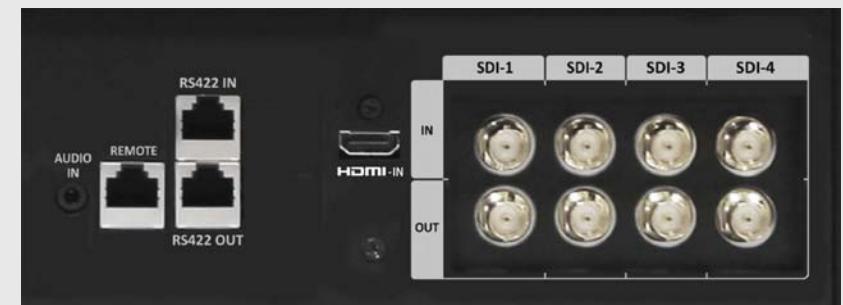
Specifications

OBM-Q Series

ITEM		OBM-Q240
Input	BNC (SDI)	4 x 3G/HD/SD-SDI
	HDMI®	1 x HDMI® 2.0
	BNC (YPbPr)	-
	BNC (CVBS)	-
	DVI	-
Output	BNC (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®	~ 2160p(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	24" LCD
	Resolution	1920 x 1200 (16:10)
	Pixel Pitch	0.270mm
	Color	1.064B colors(8bit+2bit FRC)
	Viewing Angle	178(H), 178(V)
	Luminance of White	300cd/m²
	Contrast	1000 : 1
	Display Area (H x V)	518.4 x 324.0 (mm)
General	1 x Ethernet	-
	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	AC(100-230V,50/60Hz)/DC12V
	Power Consumption	Max 40W
	Operating Temperature	0 ~ 40°C(32°F~104°F)
	Operating Humidity	20 ~ 80% RH
	Weight	10.5kg/23.14lbs
	Dimensions(main body)	565 x 405 x 77mm/22.24 x 15.94 x 3.03inch
	Dimensions(With Stand)	602 X 428 X 140 mm/23.70 x 16.85 x 5.51inch
	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.

OBM-Q240G

565mm / 22.24inch

405.6mm / 15.96inch

602mm / 23.70inch

77mm / 3.03inch

429mm / 16.88inch
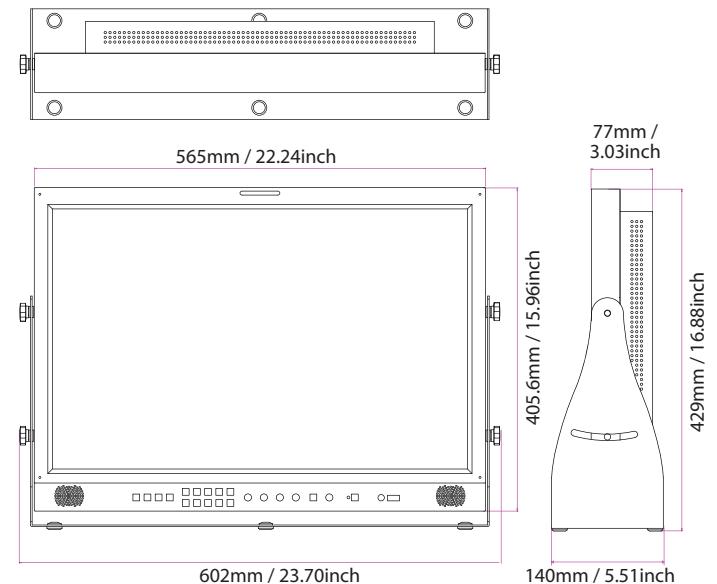
140mm / 5.51inch

Dimensions
--Main Body : 565 x 405.6 x 77 mm
          22.24 x 15.96 x 3.03 inch
--With Stand : 602 x 429 x 140 mm
          23.70 x 16.88 x 5.51 inch

Weight
--Main Body : 8.7kg / 19.18lbs
--With Stand : 10.5kg/ 23.14lbs

1500 nit

**OB Van 21.5"
Rack Monitors**

HDR

21.5" Rack Mountable Monitor
Optimized design for OB Van

OBM-R210 / OBM-R210Q

OBM-R210
Outstanding Picture Quality

3G-SDI x 2 Input & Active Loopout
HDMI® / Analog / DVI Input
3D-LUT for Accurate Color Reproduction
HD HDR Support
Color Depth 1.064 Billion Colors
Waveform & Vector Scope
IMD / 16ch Audio Level Meter
System Data Copy & Load
Remote Control via GPI and Network
Panel Resolution 1920 x 1080(21.5")

OBM-R210Q
Quad Rack Monitor

4 x 3G-SDI Input & Active Loopout
HDMI® 2.0 Input
Quad-screen Display
3D-LUT for Accurate Color Reproduction
HD HDR Support
Color Depth 1.064 Billion Colors
Waveform & Vector Scope on each video
UMD / 16ch Audio Level Meter on each video
Remote Control via GPI and Network
Panel Resolution 1920 x 1080(21.5")

Rack Mountable without Additional Accessories
Easy for Installing in the Rack
Convenient for Cabling

7RU

43mm/
1.69 inch
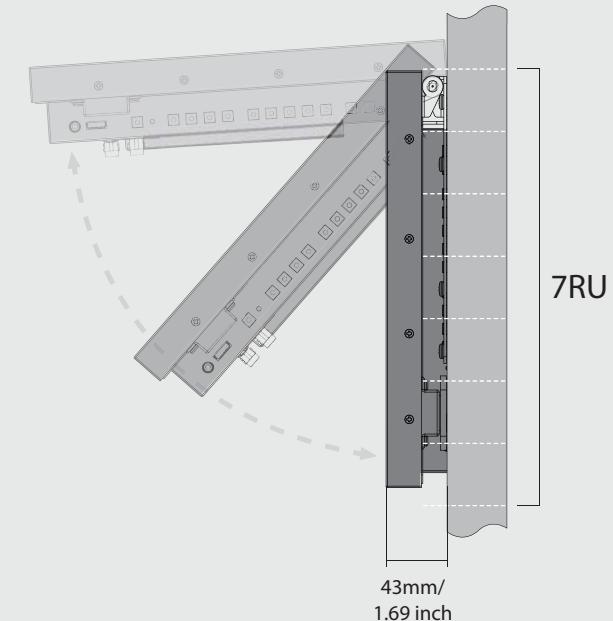
OBM-R210

OBM-R210Q

OBM-R210 / R210Q

Specifications

ITEM		OBM-R210	OBM-R210Q
Input	BNC (SDI)	2 x 3G/HD/SD-SDI-1/2	4 x 3G/HD/SD-SDI
	HDMI®	1 x HDMI® 1.3a	1 x HDMI® 2.0
	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-1/2	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)	2160p(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)	
Display	Size	21" LCD	
	Resolution	1920 x 1080 (16:9)	
	Pixel Pitch	0.270mm	
	Color	True 16.7M Colors	
	Viewing Angle	178(H), 178(V)	
	Luminance of White	1500cd/m²	
	Contrast	1000 : 1	
	Active Area (H x V)	476.064 (H)mm x 267.786 (V) mm	
General	1 x Ethernet	Control/Update, RJ-45 Input V	–
	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	DC24V	
	Power Consumption	Max 40W	
	Operating Temperature	0 ~ 40°C(32°F~104°F)	
	Operating Humidity	20 ~ 80% RH	
	Weight	5kg / 11.02 lb	
	Dimensions (WxHxD)	505.5 x 297.2 x 67.4 mm / 19.88 x 11.69 x 2.65 inch	
	Accessories	Power Cable / Rack Mount Kit	
	Option	VESA Mount / Wall Brackt	

Dimensions

-- 505.5 x 297.2 x 67.4 mm / 19.88 x 11.69 x 2.65 inch

Weight

-- 5kg / 11lbs

67.4mm / 2.65inch
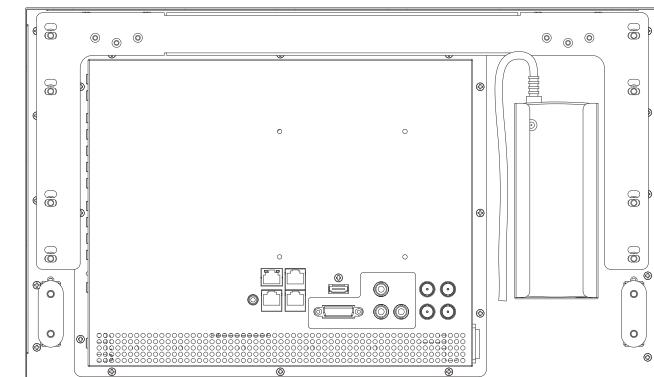
505.5mm / 19.88inch

297.2mm / 11.69inch

43mm/ 1.69 inch

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

HDR
OBM-L180

18.5" Full HD
LCD Monitor with Professional Feature set

3G-SDI x 1 Input / 1 Output / HDMI® x 1 Input
1.064 Billion Colors
3D-LUT for Accurate Color Reproduction
Camera Log Conversion
Custom 3D LUT File Import
6RU Height
Panel Resolution 1920x1080

The OBM-L180 features the 18.5" LCD panel with 1920x1080 Full HD resolution, 1.064 Billion Colors wide viewing angle, and high contrast ratio.
The OBM-L180 offers the professional performance, including accurate color reproduction through 3D LUT, HD HDR, integrated camera log of various camera manufacturers, custom 3D LUT import, Waveform, Vector Scope, Audio Level Meter, and many other advanced video analysis functions.
The OBM-L180 is ideal for the high-end broadcast and film applications which require the very high picture quality.

Product Highlights

· 18.5" Full HD Resolution (1920 x 1080)
· 3G/HD/SD-SDI 1,(Input/Output)
· HD HDR(High Dynamic Range) Display
· 3D-LUT for Accurate Color Reproduction
· 1.064 Billion Colors
· 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)
· Camera Log Conversion
· Camera Log Mapped SDI Loopout
· HDR & Camera Log Comparison (Side by Side)
· Waveform, VectorScope (Wave + Vector, Waveform Wide, RGB Parade, Position Change, Size Adjustment)
· Monitor Control via Ethernet, RS-422
· Various Markers (EBU, 4:3, 16:9, 1.85:1, 2.35:1, Custom etc.)
· Internal Patterns Display for Color Test (Black ~ 100% White, Color Bar)
· Time Code Display (Position / Size Selection)
· Easy Firmware Update by USB
· Focus Assist
· HDR Waveform
· Zero Scan / Over 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, ARRI, Variable)
· False Color Comparison (Wipe Position)

· 3 Color TALLY Lamp
· Rack & VESA Mount (Option)
· Closed Caption(608, 708)
· System Data Copy
· Aspect
· Freeze
· SDI Payload ID Display
· User Preset Setting Save & Load
· Fast Mode
· Key Lock & Password Lock

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

OBM-L180

Specifications

| ITEM		OBM-L180
Input	1x BNC	3G/HD/SD-SDI
	1 x HDMI®	HDMI® 1.3a
Output	1 x BNC	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)
Audio In/Out	1 x Phone Jack In	Line In(Stereo)
	1 x Phone Jack Out	H/P Out(Front, Stereo)
Display	Size	18.5" LCD
	Resolution	1920 x 1080 (16:9)
	Pixel Pitch	0.213mm
	Color	1.064B colors(8bit+2bit FRC)
	Viewing Angle	178(H), 178(V)
	Luminance of White	500cd/m²
	Contrast	1000 : 1
	Display Area (H x V)	408.96 x 230.04 (mm)
General	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
	Power Consumption	Max 40W
	Operating Temperature	0 ~ 40°C(32°F~104°F)
	Operating Humidity	20 ~ 80% RH
	Weight	Main Body : 3.84kg / 8.46lbs
		With Stand : 5.04kg/11.11lbs
	Dimensions	Main Body : 446 x 265.3 x 48.6 mm (17.55 x 10.44 x 1.61 inch)
		With Stand : 490 x 277 x 120 mm (19.29 x 10.91 x 4.72 inch)
	Accessories	Power Adapter, Power Cable
	Option	Rack Mount Kit / Carrying Case / Sun Hood Acrylic Protector / V-Mount

OBM-L180

Dimensions
--Main Body : 446 x 265.3 x 48.6 mm (17.55 x 10.44 x 1.91 inch)
--With Stand : 490 x 277 x 120 mm (19.29 x 10.90 x 4.72 inch)

Weight
--Main Body : 3.84kg / 8.46lbs
--With Stand : 5.04kg/11.11lbs

446mm / 17.55inch

48.6mm / 1.91inch

265.3mm / 10.44inch

277.3mm / 10.90inch

490mm / 19.29inch

120mm / 4.72inch
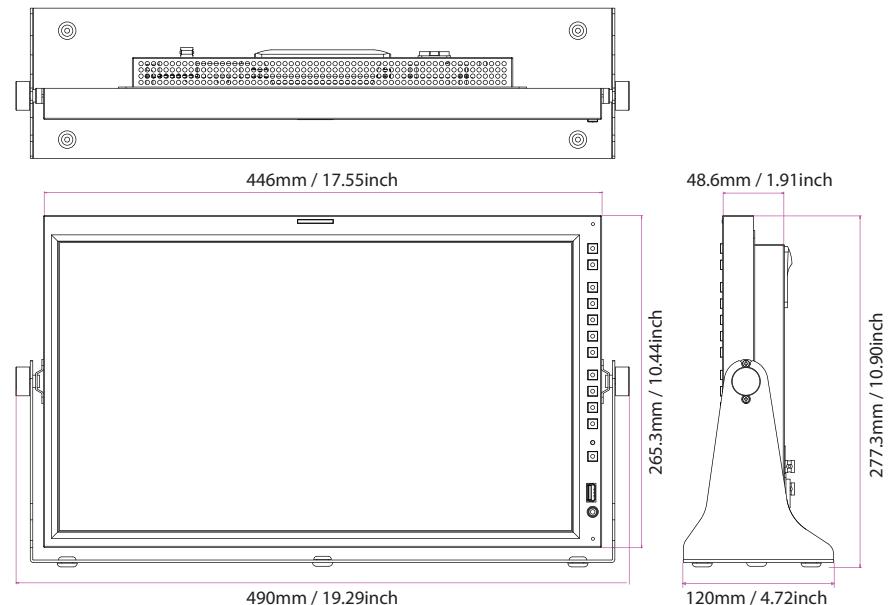
Size of OBM-L180 in 19 " RACK (fixing / Tilt)

6RU
265.3mm / 10.44inch

451mm / 17.75inch

4K HDR
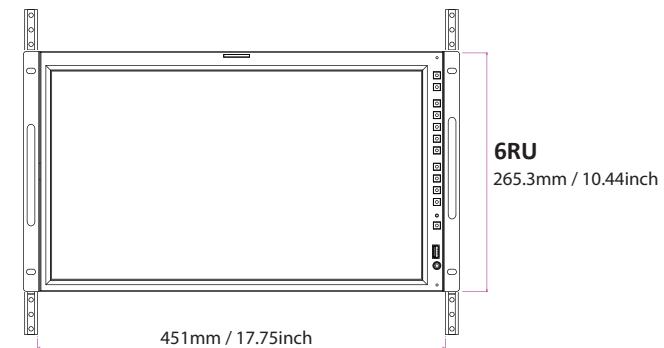
OBM-W310-NB

32" 4K Wall Monitor with narrow bezel
Optimized design for OB Van

12G/6G/3G-SDI x 2 Input, HDMI® 2.0 Input
SFP Module Input (ST 2022-6, ST 2110 Support)
3D-LUT for Accurate Color Reproduction
Custom 3D LUT File Import
Panel Resolution 1920x1080
1.064 Billion Colors
32"

Product Highlights and Specifications are the same as the OBM-W310.
(See P20~21)

HDR

OBM-N310-NB

32" Wall Monitor with narrow bezel
Optimized design for OB Van

3G-SDI x 2 Input
3D-LUT for Accurate Color Reproduction
Camera Log Conversion
Custom 3D LUT File Import
Panel Resolution 1920x1080
1.064 Billion Colors
32"

Product Highlights and Specifications are the same as the OBM-N310.
(See P24~25)

OBM-W310-NB / N310-NB Dimensions (mm)

168.1 410 168.1

746.2

31.1 42.4

35.35

440.7

370

35.35

70.35

300

70.35

223.1 300 223.1

M8 Screw
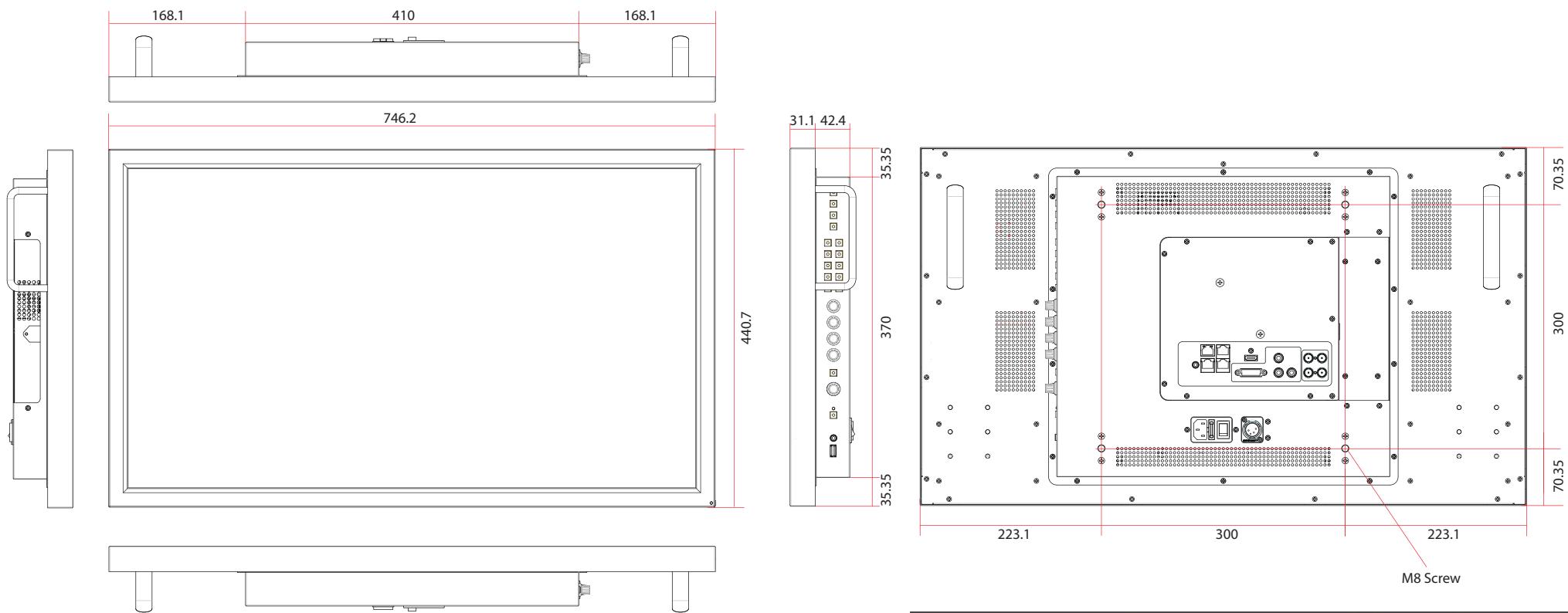
Dimensions
--Main Body : 746.2 x 440.7 x 73.5 mm (29.37 x 17.35 x 2.89 inch)
Weight
--Main Body : 14.5kg / 31.96lbs

AUDIO IN

LAN RS422 IN HDMI-IN Y(CVBS1) SDI-1 IN SDI-2 IN

REMOTE RS422 OUT DVI Pb Pr SDI-1 OUT SDI-2 OUT

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

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", 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)

- 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

PRM-702

3G NEW

Dual 7″
1920x1200, 1500cd/m²
3RU

User Aspect	H/V Delay
Various Scan Mode	Scan (Zero, Over, Pixel-to-Pixel)
Waveform	Zoom
Vector Scope	Audio Level Meter
Internal Pattern Display	Key Lock
Tally (3 Colors)	Markers (Custom Marker)
User Preset Save/Load	Time Code Display
Gamma	UMD (TSL 3.1)
Blue Only	

MULTI - FORMAT LCD MONITOR

PRM-434

3G NEW

Quad 4.3″
800x480, 800cd/m²
2RU

Various Scan Mode	can (Zero, Over, Pixel-to-Pixel)
Waveform	Zoom
Vector Scope	Audio Level Meter
Internal Pattern Display	Key Lock
Tally (3 Colors)	Markers (Custom Marker)
Gamma	Time Code Display
Blue Only	UMD (TSL 3.1)
H/V Delay	

MULTI - FORMAT LCD MONITOR

PRM-503A

Triple 5″
800x480
2RU

- 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-207Q

Septuple 2″
960x540
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

Specifications

	Model / Spec	PRM-102F (3G)	PRM-902A (1.5G)	PRM-902Q (1.5G)	PRM-702 (3G) NEW	PRM-503A (1.5G)	PRM-434 (3G) NEW
	Screen number / Rack Size(19")	Dual / 4RU	Dual / 4RU	Dual / 4RU	Dual / 3RU	Triple / 2RU	Quad / 2RU
Display	Size	10.1"	9"	9"	7"	5"	4.3"
	Resolution	1920X1200 (16:10)	800X480 (15:9)	960X540 (16:9)	1920 x 1200	800 x 480 (15:9)	800 x 480 (15:9)
	Active Area (W x H)	16.7M	16.7M	16.7M	151.2mm (W) X94.5(H)mm	151.2mm (W) X94.5(H)mm	95.04mm (W) X53.858(H)mm
	Pixel Pitch	0.11mm	0.246mm	0.207mm	0.078mm	0.153mm	0.11mm
	Color	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M
	Viewing Angle	170(H), 170(V)	160(H), 140(V)	170(H), 170(V)	160(H), 160(V)	170(H), 170(V)	160(H), 160(V)
	Luminance of White	320cd/m²	600cd/m²	400cd/m²	1500cd/m²	300cd/m²	800cd/m²
	Contrast	800:1	600:1	1000:1	1200:1	600:1	1200:1
Input	SDI	2 x 3G SDI	2 x 1.5G SDI	2 x 1.5G SDI	2 x 3G SDI	2 x 1.5G SDI	1 x 3G SDI
	HDMI	1	-	-	1	-	-
	Analog	3 x SDI	3 x SDI	3 x SDI	1 x 3G SDI	1 x 1.5G SDI	1 x 3G SDI
Output	SDI / HDMI	2 x 3G SDI / 1 HDMI	2 x 1.5G SDI	2 x 1.5G SDI	2 x 3G SDI	1 x 1.5G SDI	1 x 3G SDI
Audio	Audio In	1 x Phone Jack	1 x Phone Jack	1 x Phone Jack	1 x Phone Jack	-	-
	Audio Out	1 x Phone Jack	1 x Phone Jack	1 x Phone Jack	1 x Phone Jack	-	-
	Speaker	2 x STEREO	2 x STEREO	2 x STEREO	2 x STEREO	-	-
Functions	SDI	3G	1.5G	1.5G	3G	1.5G	3G
	HDR	o	-	-	-	-	-
	Blue Only	o	o	o	o	o	o
	H/V Delay	o	o	o	o	o	o
	Scan (Zero, Over, Pixel-to-Pixel)	o	o	o	o	o	o
	Zoom	o	-	-	o	-	o
	Audio Level Meter	o	o	o	o	o	o
	Key Lock	o	-	-	o	-	o
	Markers (Custom Marker)	o	o	o	o	o	o
	Time Code Display	o	o	o	o	o	o
	UMD (TSL 3.1)	o	-	-	o	-	o
	User Aspect	o	-	-	o	-	o
	Various Scan Mode	o	-	-	o	-	o
	Waveform	o	o	o	o	o	o
	Vector Scope	o	o	o	o	o	o
	False Color	o	-	-	-	-	-
	Focus Assist	o	-	-	-	-	-
	Exposure Range Check	o	o	o	-	-	-
	Internal Pattern Display	o	o	o	o	o	o
	Closed Caption(608, 708)	o	o	o	o	o	o
	Tally (3 Colors)	o	-	-	o	o	o
	AFD	o	-	-	-	-	-
	System Data Copy	o	-	-	-	-	-
	User Preset Save/Load	o	-	-	o	-	o
Calibration	3D LUT	o	-	-	-	-	-
	Gamma	o	-	-	o	-	o
Control	Ethernet	o	-	-	-	-	-
	RS-422	1 x Input, 1 x Output	2 x Input, 1 x Output	2 x Input, 1 x Output	1 x Input, 1 x Output	2 x Input, 1 x Output	1 x Input, 1 x Output
	Remote (GPI Control)	o	o	o	o	o	4(1 for each screen)
	USB(Update, Calibration)	o	-	-	o	-	o
General	Power Requirements	DC 12V	DC 12V	DC 12V	DC 12V	DC 12V	DC 12V

* Above specifications may be changed without notice.

4K HDR

High Dynamic Range LUT BOX-4K

HLB-4K

- *Native 65x65x65 30 Bit User 3D-LUT Support*
- *Tetrahedral Interpolation*
- *Waveform / Vector Scope Monitor Out*
- *HDR / SDR Conversion (Non 3D-LUT)*
- *Input & Output Signal Format Conversion*
- *Color Space Conversion*
- *TV and Monitor Calibration*
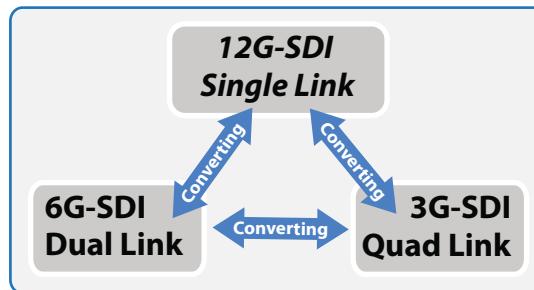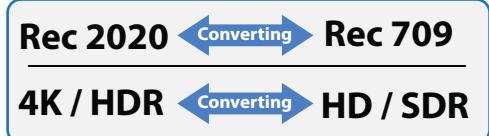
Rec 2020 ←Converting→ Rec 709

4K / HDR ←Converting→ HD / SDR

12G-SDI Single Link

6G-SDI Dual Link ←Converting→ **3G-SDI Quad Link**

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.

HDR / SDR Conversion
SDR / ST2084 / ST2084-4000 / ST2084-1000 / HLG / S-Log3 / C-Log / Log-C / V-Log

User 3D-LUT Import
65x65x65 30Bit 3D-LUT
For 3D-LUT 1-10, You can assign a 3D-LUT by importing ".cube"files.

Color Space Conversion
BT.709 <-> BT.2020

Signal Format Conversion
SDI Single <-> SDI Dua l<-> SDI Quad
SDI Single, Dual,Quad<->HDMI

HLB-4K		
Input	4 x BNC	4 x 12G / 6G / 3G / HD-SDI Input
	1 x HDMI®	HDMI 2.0 Input
	2 x SFP	2 x SFP Module Input(OPTION)
Output	4 x BNC	4 x 12G / 6G / 3G / HD-SDI Output
	1 x HDMI®	HDMI® 2.0 Output
	1 x HDMI®	HDMI® 1.4 Output - Waveform / Vector Scope
LAN		1 x LAN in
USB		1 X USB MEMORY STICK
REMOTE		1 X RJ45
POWER		XLR 4 PIN (12V)
Dimensions (WxHxD). Weight		(WxHxD) : 210 x 44 x 197mm / 8.26 x 1.73 x 7.75 inch. Weight : 1.4kg / 3.08 lb

TV and Monitor Calibration Software

HLB4K - COLOR (calibrationsoftware) is provided.
You can calibrate 3rd party TV and Monitor,i ncluding LG OLED TV.

Front

Rear

4K HDR
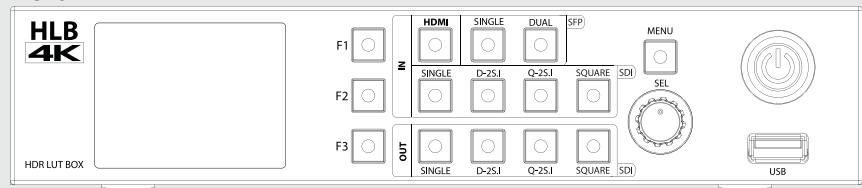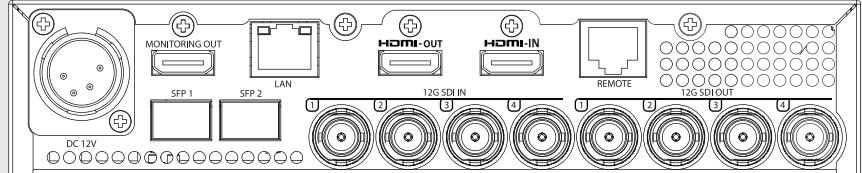
Color Management LUT Box
PICS-L

Native 33x33x33 30bit 3D-LUT
Tetrahedral Interpolation
Apply 3D LUT

12G-SDI	
Quad Link 3G SDI	➡
HDMI®	

12G-SDI
HDMI®

NEW

The main function of the product is to apply 3D LUT.
PICS-L is a stand-alone converter which supports up-conversion and down-conversion between 4K and HD. And, the 12G-SDI single link video input can be output to 3G-SDI quad link.
As the control panel disappears, control is performed using a PC.
Advanced 3D LUT Tetrahedral Interpolation algorithm has been applied to the PICS-L.
The accuracy of the color reproduction is better than 33x33x33 grid 3D LUT with cubic interpolation.

3D LUT Select
3D LUT 1 ~ 10 - For 3D LUT 1-10, you can assign a 3D LUT by importing ".cube" files.
System Control
Back-up - Exporting/Importing setting data to PC available. Allows much easier control of building the systems.

Specifications

PICS - L		
Input	4 x BNC	1 x 12G SDI, 3 x 3G SDI
	1 x HDMI®	2.0 HDMI® Input
Output	2 x BNC	1 x 12G SDI, 1 x12G SDI Loop Out
	1 x HDMI®	2.0 HDMI® Output
LAN	1 x LAN in	
USB	1 X USB MEMORY STICK	
POWER	DC 12V	
Dimensions (WxHxD). Weight	(WxHxD) : 110 x 137 x 44mm / 4.33 x 5.93 x 1.73 inch. Weight : Weight : 300g / 0.66 lbs	

Calibration software

Dimensions

110mm / 4.33 inch   44mm /1.73 inch

137mm / 5.39 inch
112mm / 4.4 inch
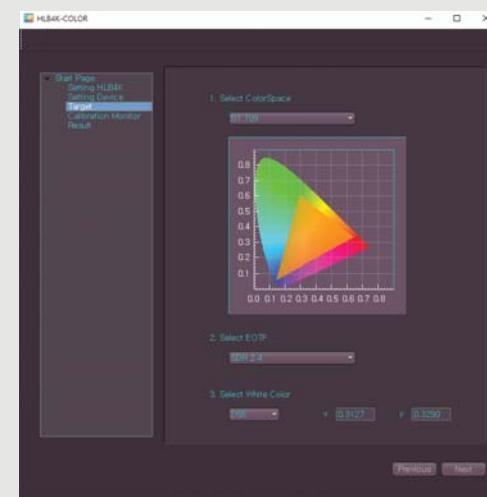
4K VDA 12G-SDI
4K/12G SDI Distribution

93mm

120mm

SDI Distribution Amplifier
1 SDI Input (SD/HD/3G/6G/12G)
4 SDI Outputs(SD/HD/3G/6G/12G)
DC 5V ~ 12V Wide Operating Voltage Range
Built-in Battery
Chargeable through USB & Adapter

PCC
Closed Caption Decoder

122mm

111.5mm

- SDI Closed Caption Decoder
- Supports Korean KRCC 708(Service 1-6)
- No CC DATA Alarm Function
- 1 SDI Input (SD/HD)
- 1 SDI 1 HDMI Closed Caption Decoded Output
- Supports Vesa Mount Setup
- Power Adaptor

1500cd/m²

Professional Studio Prompter *21"*

RT-2100

- 21" LCD panel with 1500nit High Brightness
- Variety of Input: SDI, HDMI, CVBS, DVI
- SMPTE Time Clock, Preview Monitor option
- Clearly readable with the high quality mirror glass
- Remote-control Teleprompting Software capable of the
  real-time text change
- Lightweight and versatile camera mounting system
- Tally Support

OBM-L180
(Option)

The State of the Art Super High Brightness Tele-Prompter RT-2100 for Professional Broadcast Studio RT-2100, 21inch Tele-Prompter is designed for professional broadcast studio.

RT-2100 expresses the visible manuscript screen with a high-brightness and a high-contrast ratio by adopting high performance 21" 16:9 LCD panel and minimizes the effect of the manuscript screen to camera lens by high quality mirror glass. Also, RT-2100 supports a various of input to be able to have a flexibility. Supported input is not only CVBS and VGA but also HD-SDI and HDMI®.

RT-2100 promotes the stability by choosing the solid and light material and the fast setting depending on various camera and its options by using the adjustable balancing camera plate to shorten the time.

Manuscript Prompter Software is not an option and it can interface with Mouse, Keyboard, Remote controller and etc. You can achieve an easy operation. The feature of real-time editing while rolling up a manuscript enables a quick react at any time and any conditions.

There are several options to be ready such as SMPTE Time Clock, Preview Monitor to make a convenience to the news anchor and the announcer.

RT-2100 Product Specifications

Weight : 9.8kg / 21.60lb

ITEM		RT-2100
Input	BNC (SDI)	1 x 3G/HD/SD-SDI
	HDMI®	1 x HDMI® 1.3a
	BNC (CVBS)	1 x Composite
	DVI	1 x DVI-I
Output	BNC (SDI)	1 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®	~2160p(60)
	DVI-I	VESA/IBM Modes
Display	Size	21" LCD
	Resolution	1920 x 1080 (16:9)
	Pixel Pitch	0.270mm
	Color	True 16.7M Colors
	Viewing Angle	178(H), 178(V)
	Luminance of White	1500cd/m²
	Contrast	1000 : 1
	Active Area (H x V)	476.064 (H)mm x 267.786 (V) mm
General	1 x GPIO	GPI-7 Port, RJ-45P Jack
	1 x USB	For Frmware Update, Color Calibration
	Power Requirements	DC 24V
	Power Consumption	Max 40W
	Operating Temperature	0 ~ 40°C(32°F~104°F)
	Operating Humidity	20 ~ 80% RH
	Accessories	Power Cable / Power Adapter

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

Dimensions

OBM-N070 (Stand Option)

191mm / 7.51inch

139mm / 5.47inch

40mm / 1.57inch

156mm / 6.14inch

234.6mm / 9.23inch
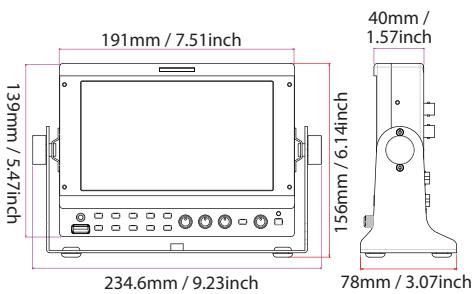
78mm / 3.07inch

Dimensions
--Main Body
  191 x 139 x 40 mm
  7.51 x 5.47 x 1.57 inch
--With Stand
  234.6 x 156 x 78 mm
  9.23 x 6.14 x 3.07 inch

Weight
--Main Body
  1.1kg / 2.42lbs
--With Stand
 1.5kg / 3.30lbs

--Dual N070 applied to 19 "RACK (Tilt)

143mm/5.62inch

OBM-N090

223mm / 8.77inch

174mm / 6.85inch

43mm / 1.69inch

193mm / 9.59inch

267mm / 10.51inch
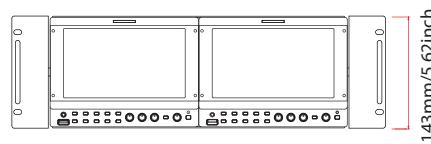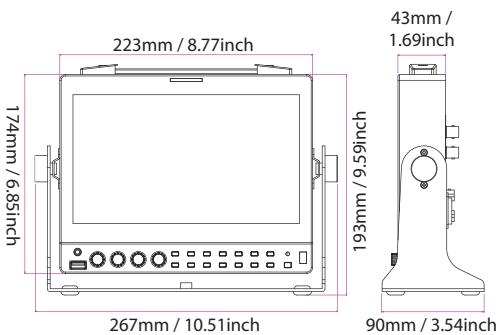
90mm / 3.54inch

Dimensions
--Main Body
  223 x 174 x 43 mm
  8.77 x 6.85 x 1.69 inch
--With Stand :
  267x 193 x 90 mm
  10.51 x 9.59 x 3.54 inch

Weight
--Main Body
  2.1kg / 4.62lbs
--With Stand
  2.5kg / 5.51lbs

--Dual N090 applied to 19 "RACK (fixing)

174mm / 6.85inch
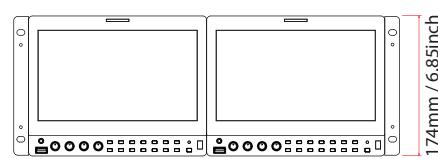
OBM-W/N180

Dimensions
--Main Body : 436 x 310 x 81 mm
          17.16 x 12.20 x 3.18 inch
--With Stand : 471 x 332 x 120 mm
          18.54 x 13.07 x 4.72 inch

Weight
--Main Body : 5.5kg / 12.12lbs
--With Stand : 6.7kg / 14.77lbs

436mm / 17.16inch

81mm / 3.18inch

310mm / 12.20inch

332mm / 13.07inch

471mm / 18.54inch

120mm / 4.72inch

OBM-N101

51mm / 2.00inch

248mm / 9.76inch

217mm / 8.54inch

186mm / 7.32inch

293mm / 11.53inch

90mm / 3.54inch

Dimensions
--Main Body
  248 x 186 x 51mm
  9.76 x 7.32 x 2.00inch
--With Stand
  293 x 217 x 90mm
  11.53 x 8.54 x 3.54inch

Weight : 2.2kg / 4.85lbs
(With Stand : 2.7kg / 5.95lbs)
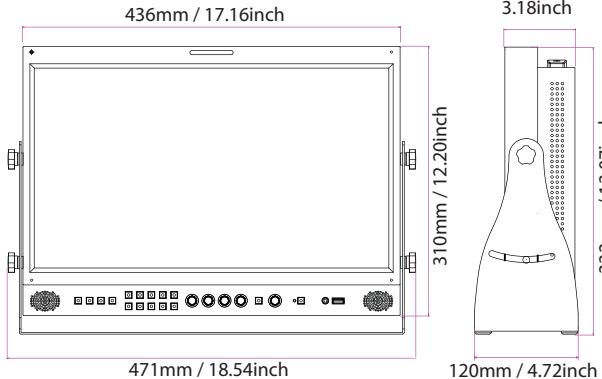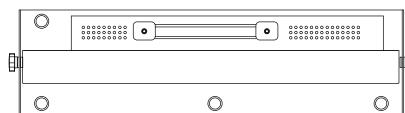
OBM-W/H/N210

Dimensions
--Main Body : 517 x 344 x 64 mm
          20.35 x 13.54 x 2.15 inch
--With Stand : 552 x 364.8 x 127 mm
          21.73 x 14.36 x 5 inch

Weight
--Main Body : 7.4kg / 16.31lbs
--With Stand : 8.4kg/ 18.51lbs

64mm / 2.15inch

517mm / 20.35inch

344mm / 13.54inch

364.8mm / 14.36inch

552mm / 21.73inch

127mm / 5inch

OBM-U241/ U248K

Dimensions
--Main Body : 570 x 380 x 83 mm
                 22.44 x 12.12 x 3.26 inch
--With Stand : 605 x 400 x 140 mm
                23.81 x 15.74 x 5.51 inch

Weight
--Main Body : 9.3kg / 20.50lbs
--With Stand : 10.5kg/ 23.14lbs

570mm / 22.44inch
83mm / 3.26inch
380mm / 12.12inch
400mm / 15.74inch
605mm / 23.81inch
140mm / 5.51inch
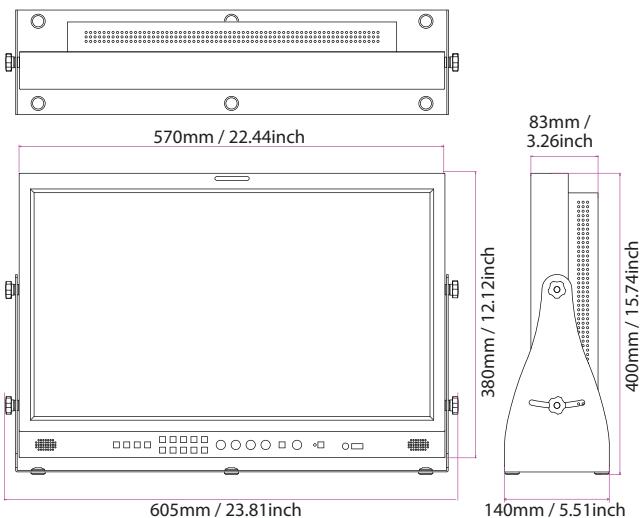
OBM-W/N/Q240

Dimensions
--Main Body : 565 x 405.6 x 76.8 mm
                 22.24 x 15.69 x 3.02 inch
--With Stand : 602 x 429 x 140 mm
                 23.70 x 16.88 x 5.51 inch

Weight
--Main Body : 9.7kg / 11.38lbs
--With Stand : 10.5kg / 23.14lbs

565mm / 22.24inch
76.8mm / 3.02inch
405.6mm / 15.96inch
429mm / 16.88inch
602mm / 23.70inch
140mm / 5.51inch
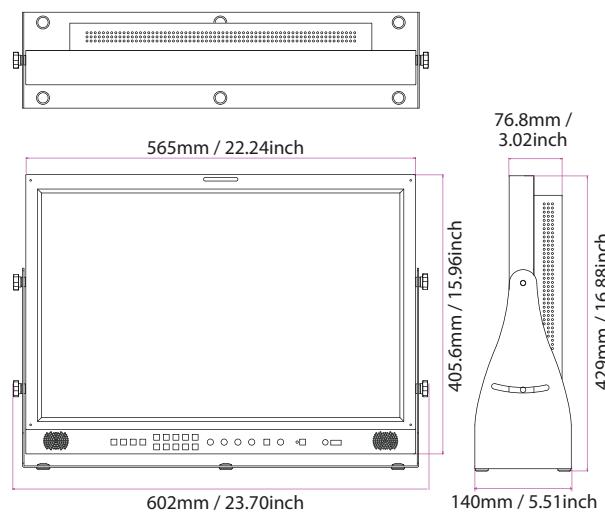
OBM-W/N310

Dimensions
--Main Body : 749.2 x 477 x 73.4 mm
                 29.49 x 18.77 x 2.88 inch
--With Stand : 749.2 x 507.5 x 175 mm
                 29.49 x 19.98 x 6.88 inch

Weight
--Main Body : 20kg / 44.09lbs
--With Stand : 22kg / 48.50lbs

749.2mm / 29.49inch
73.4mm / 2.88inch
477mm / 18.7inch
507.5mm / 19.98inch
175mm / 6.88inch
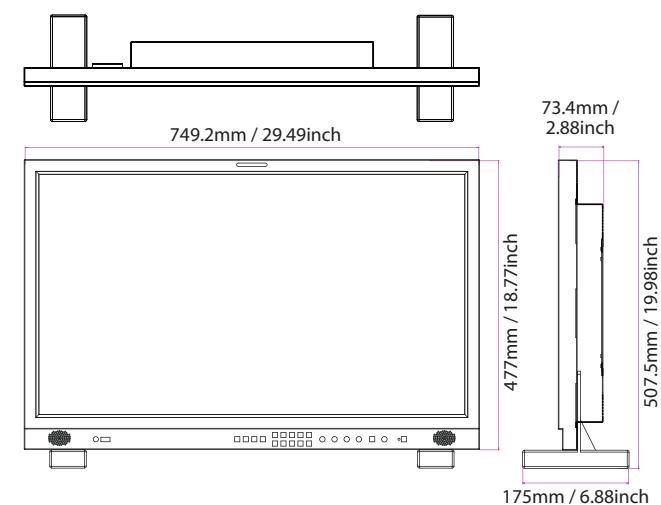
OBM-U318K

Dimensions

--Main Body : 762 x 482 x 80 mm
　　　　　　　30 x 18.98 x 3.14 inch
--With Stand : 762 x 513 x 190 mm
　　　　　　　30 x 20.15 x 7.48 inch

Weight

--Main Body : 14.8kg / 32.62lbs
--With Stand : 16.5kg / 36.37lbs

762mm/30inch

80mm/
3.14inch

482.2mm/18.98inch

513mm/20.15inch

190mm/7.48inch
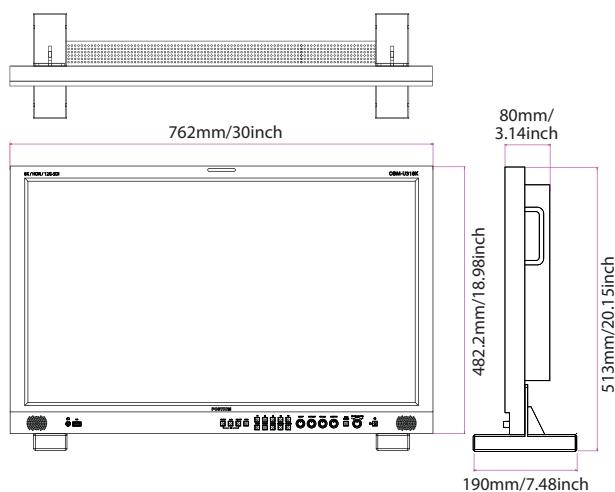
OBM-U428K

Dimensions

--Main Body : 990 x 609 x 86.5 mm
　　　　　　　38.97 x 23.97 x 3.40 inch
--With Stand : 990 x 639.7x 210 mm
　　　　　　　38.97 x 25.18 x 8.26 inch

Weight

--Main Body : 32kg / 70.54lbs
--With Stand : 34kg / 74.95lbs

990mm / 38.97inch

86.5mm /
3.40inch

609mm / 23.97

639.4mm / 25.17inch
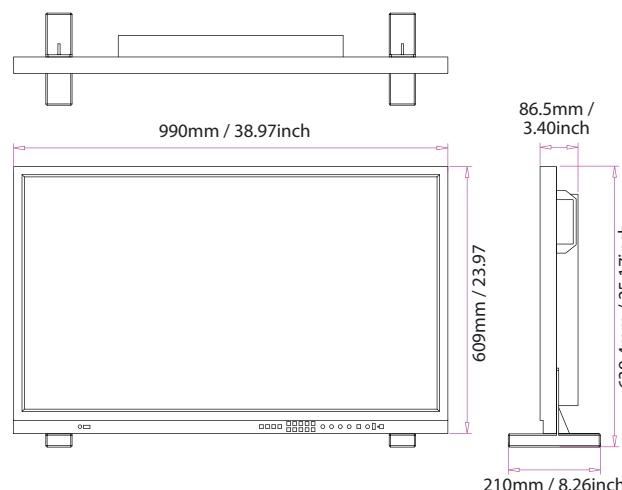
210mm / 8.26inch

OBM-W/N420

Dimensions

--Main Body : 988.2 x 609 x 70.1 mm
　　　　　　　38.90 x 23.97 x 2.75 inch
--With Stand : 988.2 x 639.4 x 210 mm
　　　　　　　38.90 x 25.17 x 8.26 inch

Weight

--Main Body : 30kg / 66.13lbs
--With Stand : 32kg / 70.54lbs

988.2mm / 38.90inch

70.1mm /
2.75inch

609mm / 23.97

639.4mm / 25.17inch
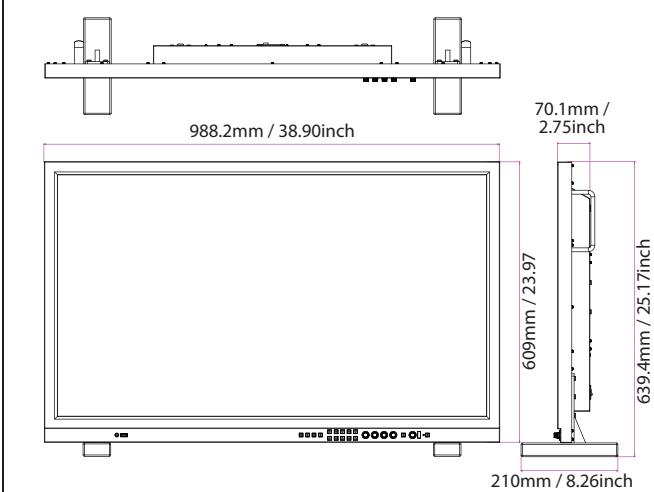
210mm / 8.26inch

OBM-W/N460

Dimensions

--Main Body : 1074 x 656.6 x 69.4 mm
          42.28 x 25.85 x 2.73 inch
--With Stand : 1074 x 686 x 210 mm
          42.28 x 27 x 8.26 inch

Weight

-- Main Body : 33kg / 72.75lbs

-- With Stand : 35kg / 77.16lbs

1074mm / 42.28inch

69.4mm / 2.73inch

656.6mm / 25.85inch

686mm / 27inch

210mm / 8.26inch
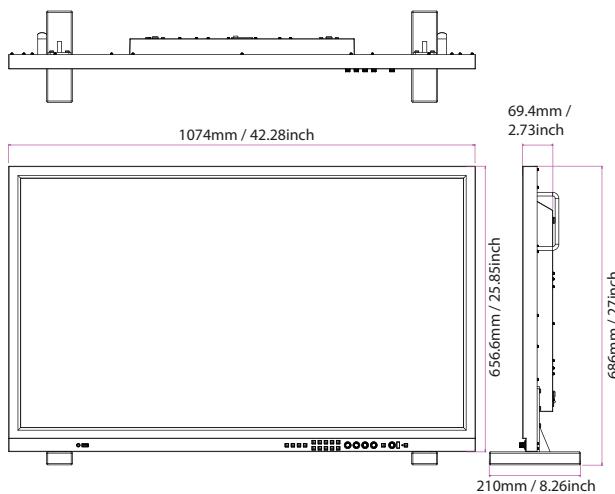
OBM-W/N550

Dimensions

--Main Body : 1265.6 x 764.4 x 74.7 mm
          49.82 x 30.09 x 2.94 inch
--With Stand : 1265.6 x 794.9 x 240 mm
          49.82 x 31.29 x 9.44 inch

Weight

-- Main Body : 34.8kg / 76.72lbs

-- With Stand : 37kg / 81.57lbs

1265.6mm / 49.82inch

74.7mm / 2.94inch

764.4mm / 30.09inch

794.9mm / 31.29inch

240mm / 9.44inch
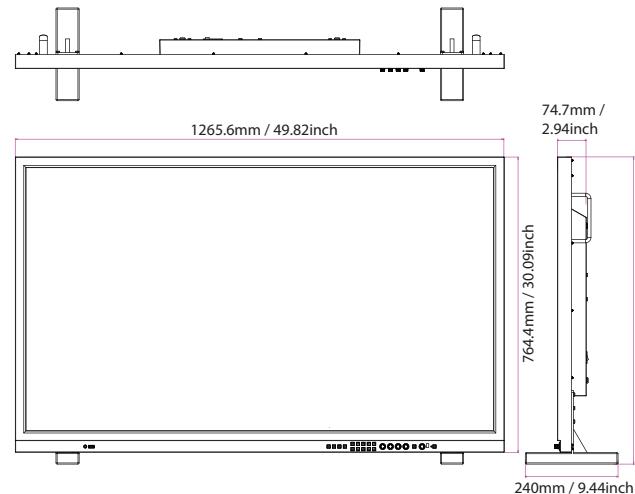
OBM-U550L

Dimensions

--Main Body : 1265.5 x 734.4 x 72.5 mm
          49.82 x 28.91 x 2.85 inch
--With Stand : 1265.5 x 794.7 x 240 mm
   49.82 x 31.28 x 9.24 inch

Weight

--Main Body : 34.8kg / 76.72lbs

--With Stand : 37kg / 81.57lbs

1265.6mm / 49.82inch

88.8mm / 3.49inch

764.4mm / 30.09inch

794.9mm / 31.29inch

240mm / 9.24inch
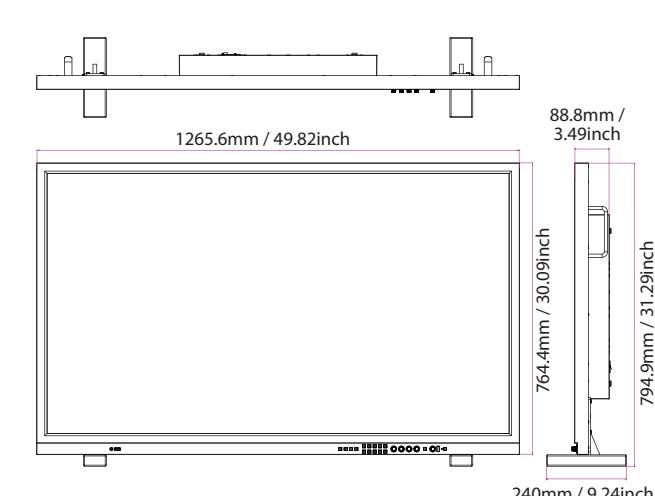
PRM-102F
Dimensions (W x H x D) : 482x175x55 (mm)/18.97x6.88x2.16 (inch), 4RU, Weight : 3.5 kg/7.7 lbs.

482mm

55mm

175mm
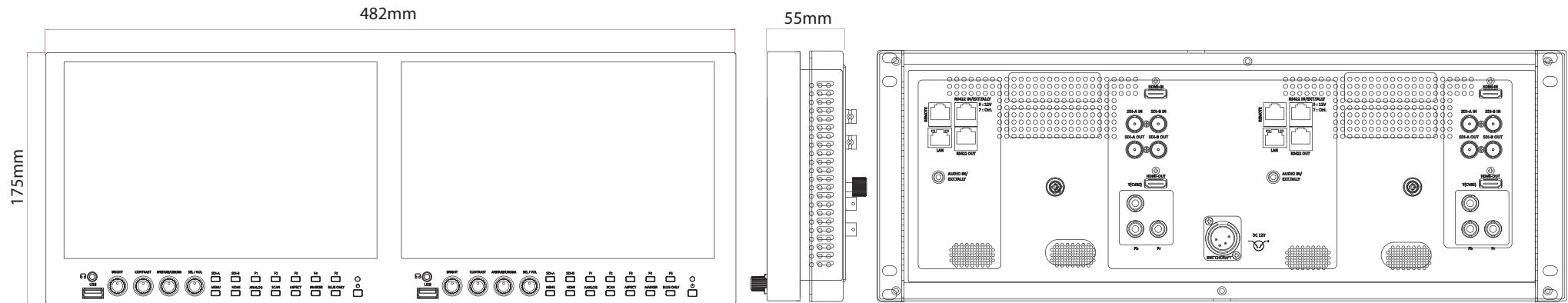
PRM-902A/902Q
Dimensions (W x H x D) : 480x176x63 (mm)/18.8x6.9x2.4 (inch), 4RU, Weight : 4.1 kg/8.8 lbs.

480mm

63mm

176mm
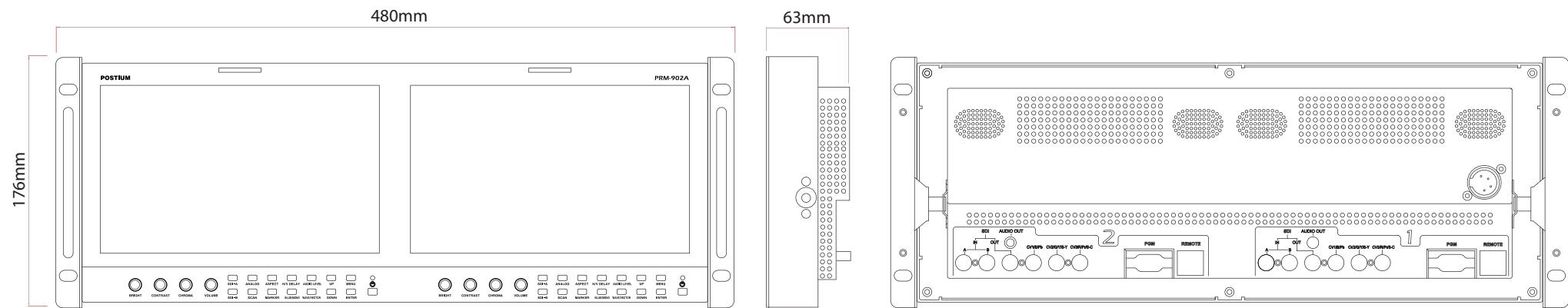
**PRM-702** Dimensions (W x H x D) : 480 x 132.3 x 45 mm / 19.89 x 5.20 x 1.77 inch. 3RU.   2.24kg / 4.93lbs.

480mm

348mm

45mm

132.3mm

123mm

Certification

Serial Code
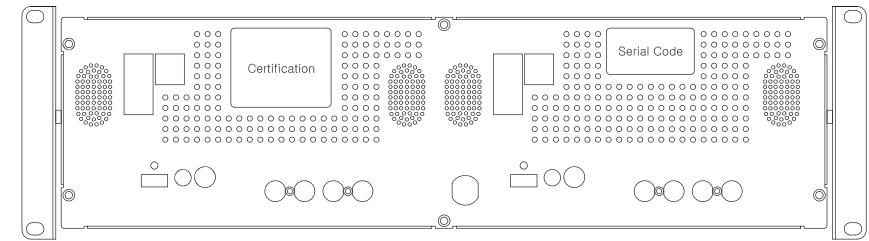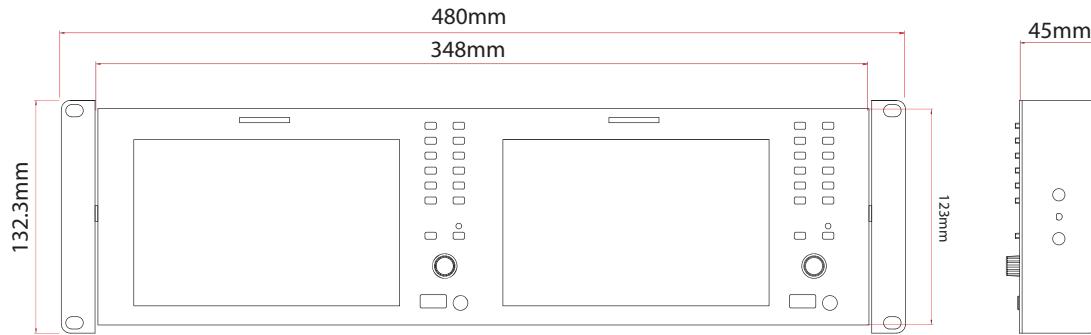
PRM-503A Dimensions (W x H x D) : 480x87x68.2 (mm)/18.8x3.425x2.677 (inch), 2RU, Weight : 2.5 kg/5.5 lbs.

480mm

85.75mm

86.5mm
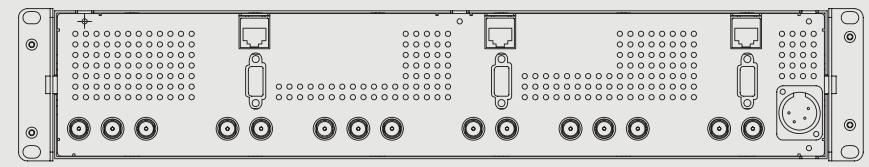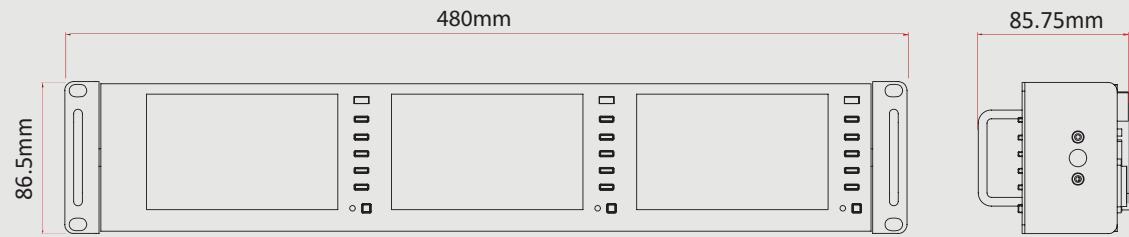
PRM-434 Dimensions (W x H x D) : 480 x 86.5 x 50 mm / 19.89 x 3.40 x 1.96 inch. 2RU. 1.94kg / 4.27lbs.

480mm

50mm

86.5mm
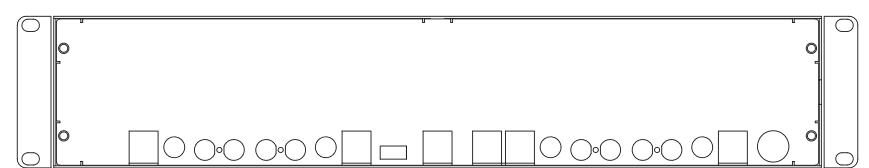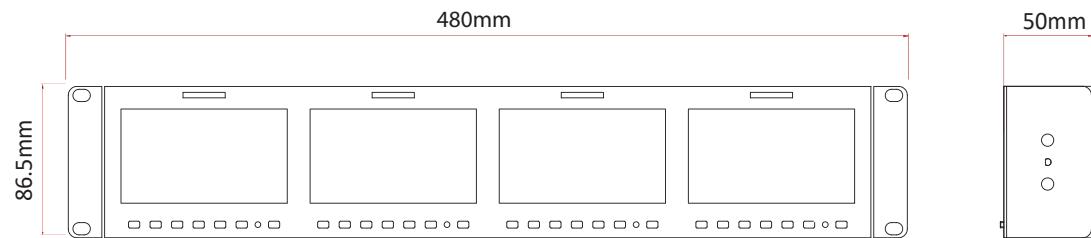
PRM-207Q Dimensions (W x H x D) : 480x44x225 (mm)/18.8x1.763x8.858 (inch), 1RU, Weight : 4 kg/8.8 lbs.

480mm

44mm

DC12V 4.2A

RS422 IN   OUT

PGM   UMD

7   6   5   4   3   2   1
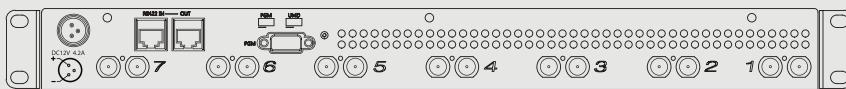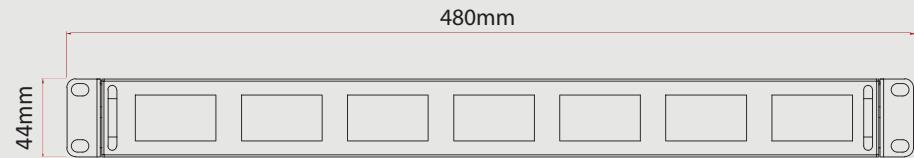
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