



**24" High Grade 4K Monitor  
with HDR 1000 nit**

# OBM-X241

*True HDR with 1000nits : PQ, HLG, S-Log3  
12G-SDI Single Link 4K (2-S.I. / Square mode)  
6G-SDI Dual Link 2-S.I. 4K (SDI & SFP)  
3G-SDI Quad Link Square Division & 2-S.I. 4K  
Dual SFP Module Inputs (ST 2022-6, ST 2110 Support)  
Wide Color Gamut  
Panel Resolution 4096 x 2160  
1.073 Billion Colors  
Custom 3D LUT File Import*



The OBM-X241 is the high grade true HDR 4K monitor, designed for professional production and post production work. This new monitor offers the precise color reproduction and the unique and advanced features. The OBM-X241 also supports various HDR gamma curves, such as PQ, HLG, S-Log3.

The OBM-X241 features wide viewing angle IPS panel, 4096 x 2160 17:9 aspect ratio, 1000nit HDR, wide color gamut, custom 3D LUT import, which make it ideal for 4K live production, versatile monitoring and field production applications.



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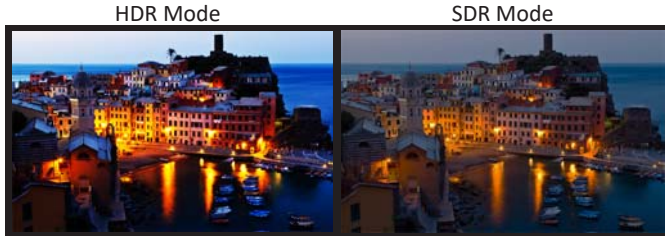
## Product Highlights

- 12G/6G-SDI(4K) 2 Channel Input & Output, 3G/HD-SDI (Level A/B) 2 Channel Input & Output
- 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
- 3D-LUT for Accurate Color Reproduction
- Wide Color Gamut Supporting ITU-R BT.709, SMPTE-C, EBU, DCI-P3, ITU-R BT.2020
- 1.073 Billion Colors
- Gamut Error
- Black Stretch
- Camera Log Conversion
- Custom 3D LUT file Import Through USB
- Gamma Selection (1.0 ~ 3.0)
- HDR/SDR Comparison (Side by Side)
- Color Space Comparison (Side by Side)
- Gamma Comparison (Side by Side)
- Color Temperature (3200K, 5500K, 6500K, 9300K, USER 1/2/3, D-CINEMA)
- Monitor Control via Ethernet, RS-422
- Camera Log Mapped SDI Loopout
- 3G-SDI Quad Link Input ⇒ 12G-SDI/3G-SDI Single Link Output
- Image Division & Link Order Auto Detection
- Waveform, VectorScope (Wave + Vector, Waveform Wide, Position Selection)
- HDR Waveform
- Audio Delay (Lip sync) Function (0~170ms)
- Various Markers (EBU, 4:3, 16:9, 1.85:1, 2.35:1, Variable Custom)
- Zero Scan
- Time Code Display (Position, Size Selection)
- 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
- Closed Caption (608, 708)
- System Data Copy
- Key Lock & Password Lock
- H/V Delay
- Blue/Mono Only
- Focus Assist
- 3 Color TALLY Lamp
- HDR Auto Setting
- HDMI 2.0 Support
- Aspect
- Freeze
- IMD
- Fast Mode

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## True HDR with 1000nits

The OBM-X241 achieves the 1000nits high brightness level, which enables the monitor to display the HDR content faithfully. The OBM-X241 HDR function allows users to view both highlights and shadow details of screen at the same time, thus resulting in more natural and realistic images. The OBM-X241 supports PQ(ST 2084), HLG(Hybrid Log Gamma), and S-Logs.



The OBM-X241 provides the function of dividing the picture side by side and comparing HDR and SDR between right half and left half.



## Accurate Color Reproduction with Wide Color Gamut

The wide color gamut and the advanced 3D LUT enable the OBM-X241 to reproduce the various color spaces accurately and display the excellent grayscale.

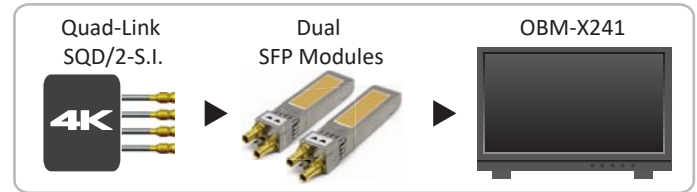
## Custom 3D LUT File Import

The OBM-X241 allows 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<sup>^3</sup>, 33<sup>^3</sup>, 64<sup>^3</sup> and 65<sup>^3</sup> cube files are supported.



## Dual SFP Module Inputs supporting Quad-Link 4K over IP

The OBM-X241 has the dual SFP Input cages, which enable the monitor to accept and display the Quad-Link square division and 2-Sample Interleave 4K signals over IP supporting SMPTE ST 2022-6 and ST 2110.



## DCI 4K 4096 x 2160 Resolution

The OBM-X241 incorporates a 24" true 4K panel with 4096 x 2160 pixel resolution. Thanks to aspect ratio is 17:9, the images are mapped without scaling processes, so it is ideal for editing, referencing, and color grading.



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

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.

## Camera Log Selection

The OBM-X241 has the built-in 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.

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## Specifications

| ITEM                |  | OBM-X241   |
|---------------------|--|--|
| Input               | 4 x BNC                                      | 12G/6G/3G/HD/SD-SDI-1/2, 3G/HD/SD-SDI-3/4  |
|                     | 1 x HDMI                                     | HDMI 2.0   |
|                     | 2 x SFP                                      | SFP  |
| Output              | 4 x BNC                                      | 12G/6G/3G/HD/SD-SDI-1/2, 3G/HD/SD-SDI-3/4 Active Loop Output                                 |
| Input Signal Format | SMPTE ST 2082                                | 2160p(60/59.94/50)   |
|                     | SMPTE ST 2081                                | 2160p(30/29.97/25/24/23.98)  |
|                     | SMPTE ST 425-AB                              | 1080p(60/59.94/50/30/29.97/25/24/23.98/30sF/29.97sF/25sF/24sF/23.98sF) / 1080i (60/59.94/50) |
|                     | SMPTE ST 274                                 | 1080p(30/29.97/25/24/23.98/24sF/23.98sF)   |
|                     |  | 1080i (60/59.94/50)  |
|                     | SMPTE ST 296                                 | 720p(60/59.94/50)  |
|                     | SMPTE ST 260                                 | 1920 x 1035i(60/59.94)   |
|                     | SMPTE ST 2048                                | 2048 x 1080p(24/23.98/24sF/23.98sF)  |
|                     | SMPTE ST 125                                 | 480i(59.94)  |
|                     | ITU-R BT.656                                 | 576i(50)   |
|                     | HDMI 2.0                                     | ~ 2160p(60)  |
| SFP                 | 12Gbps, 6Gbps, 2.970Gbps, 1.485Gbps, 270Mbps |  |
| Audio In/Out        | 1 x Phone Jack In                            | Line In(Stereo)  |
|                     | 1 x Phone Jack Out                           | H/P Out(Front, Stereo)   |
|                     | 2 x Speaker Out                              | Stereo   |
| Display             | Size   | 24" LCD  |
|                     | Resolution                                   | 4069 x 2160 (17:9)   |
|                     | Pixel Pitch                                  | 0.132mm  |
|                     | Color  | 1.073Billion Colors(True 10bit)  |
|                     | Viewing Angle                                | 178(H), 178(V)   |
|                     | Luminance of White                           | 1000cd/m <sup>2</sup>  |
|                     | Contrast                                     | 1300 : 1   |
|                     | Display Area (H x V)                         | 540.67 x 285.12 (mm)   |
| General             | 2 x Ethernet                                 | Control/Update, RJ-45P Input / Output  |
|                     | 1 x GPIO                                     | GPI-7 Port, RJ-45P Jack  |
|                     | 2 x Serial                                   | RS-422 Jack, RJ-45P Input / Output   |
|                     | 1 x USB                                      | For Firmware Update, Color Calibration   |
|                     | Power Requirements                           | AC(100-230V, 50/60Hz)/DC 24V   |
|                     | Power Consumption                            | 120W   |
|                     | Operating Temperature                        | 0°C ~ 40°C(32°F~104°F)   |
|                     | Operating Humidity                           | 20% ~ 80% RH   |
|                     | Weight                                       | 13.5kg (with stand)  |
|                     | Dimensions (WxHxD)                           | 585 x 400 x 210mm (with stand)<br>23.03 x 15.74 x 8.26inch                                   |
|                     | Accessories                                  | Power Cable  |
|                     | Option                                       | Rack Mount Kit/ Carrying Case/Sun Hood / Acrylic Protector                                   |

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

## Parts and Controls

