



# Total Solutions for Professional Broadcasting Monitors & Equipment



*BON Monitors*

APRIL 2015

## BON DELIVERS WHAT THE PROFESSIONALS HAVE ALWAYS WANTED.

BON monitors meet every expectation you might have either in the outdoor or in the indoor settings. With BON's super bright series (5 models from 7" to 21"), you will be able to see clear and sharp picture display in direct sunlight without sun-shade hood. For studio, broadcasting or post production use, BON offers a wide range of professional monitoring applications to deliver superb picture performance and color accuracy with 24" OLED monitor (TXM-243T3G), broadcasting series and quad-split series as well.

### FM-055F

Being lighter, slimmer and generating less heat, FM-055F with its 5.5" 1920x1080 LED-backlit LCD Panel has unique features of Custom Focus Assist Box, Reverse Focus Assistance, Auto Flip and H/V Level Meter. Available now.

### BMQ-100

Taking 4 SDI inputs with different sources and combining them into 1 SDI or 1 HDMI output, BMQ-100 not only displays 4 different pictures on a screen but also automatically detects SD-SDI, HD-SDI and 3G-SDI. Available now.



## Focus Assistance : sharpness control, wide range of focus assistance level, various color options, and more (Applied to All model)

This allows you to zoom in on a specific image during filming. You can select a full screen mode or 9 different areas on the screen. (Color selectable & Level selectable).



Full



Large



Medium



Small

## Focus Assist Box : User (Applied to All model)

The size and position of Focus Assist Box can be adjusted horizontally and vertically by user.



## Focus Assist Reverse (Applied to All model)

- 1) It shows original image or video unaffected by Focus Assist at specific area.
- 2) For your convenience, you can save it at Function 1, 2, or 3.



off



on

## Auto Flip



Applied to model : FM-052SC / FM-055F / FM-073SC / FM-073SCH

## Cross Conversion Output

### SDI ↔ HDMI

Not only you can do SDI Loop out and HDMI Loop Out, you can also convert SDI to HDMI Out and HDMI to SDI OUT.



Applied to model :  
FM-055F / FM-073SC / FM-073SCH

## True 1:1 Conversion

Whether the input is 1080 or 720 resolution, the output will be the same resolution as the input.

1080p → 1080p

720p → 720p

Applied to model : FM-052SC / FM-055F /  
FM-073SC / FM-073SCH / FM-072S

# Automatic Color Alignment

BON has developed its own Color Calibration Program to help BON LCD monitors achieve amazing picture quality.

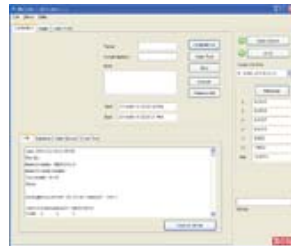
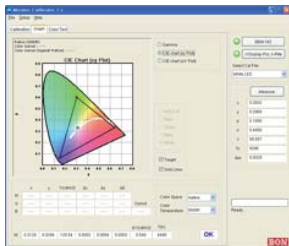
Every product is fully and thoroughly calibrated before being shipped out.



i1Display Pro



Klein K-10



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# OLED TXM-243T3G



## TXM-243T3G

Featuring 24" Full HD Resolution OLED panel with State-of-the-art AM-OLED Technology, the innovative TXM-243T3G has adjustable Gamma selection(1.0~3.0).

| OLED                  |                                |                                      |                                      |
|-----------------------|--------------------------------|--------------------------------------|--------------------------------------|
| Size                  | 24.5"                          | Viewing Angle(deg)                   | 178(H), 178(V)                       |
| Resolution            | 1920 x 1080                    | Luminance of White                   | 400 cd/m <sup>2</sup>                |
| Pixel Pitch           | 0.283mm                        | Contrast                             | 5,000 : 1                            |
| Color                 | 10bit                          | Display Area (H x V)                 | 543.4 x 305.6mm                      |
| Input                 |                                |                                      |                                      |
| 3G/HD/SD-SDI          | Analog(YPbPr/CVBS/S-Video/RGB) |                                      | DVI-I 24pin Female                   |
| HDMI(with HDCP v.1.1) | 19pin Female                   | DVI-I to VGA Jack(with gender)       |                                      |
| Output                |                                |                                      |                                      |
| 3G/HD/SD-SDI          | Analog(YPbPr/CVBS/S-Video/RGB) |                                      | DVI-I 24pin Female                   |
| HDMI(with HDCP v.1.1) | 19pin Female                   | External Sync Black Burst & Tri-sync | 1.0Vp-p                              |
| Analog Input          |                                |                                      |                                      |
| Composite             | YC(S-Video)                    | Component(Y/Pb/Pr)                   | Component (R/G/B) PC-RGB, Sync Level |
| Input Signal Format   |                                |                                      |                                      |
| SMPTE 425M AB         | SMPTE 372M                     | SMPTE 274M/292M                      | SMPTE 296M SMPTE 260M                |
| SMPTE 125M/259M       | 2K, SMPTE 428M                 | ITU R-BT.656                         | HDMI DVI                             |
| Audio In / Out        |                                |                                      |                                      |
| 1 x Headphone Jack In |                                | 2 x Headphone Jack Out               | 2 x Speaker Out                      |

\* Optional accessories available

- 12-bit Signal Processor
- Closed Caption (CEA-608/708)
- Blending, PaP, PiP
- Gamma Selection (1.0-3.0)
- Focus Assistance
- Supporting 3G-SDI (Level A/B)
- Waveform/Vector scope
- I/P Conversion for Motion Response
- Time Code Display (ATC\_HD-SDI, DVITC\_SD-SDI, Except 3G Level B)
- AFD & V-CHIP display (SDI Only)
- Various Markers (EBU, 4:3, 16:9, 1.85:1, 2.35:1, etc.)
- R/G/B and White Internal Patterns Display
- Remote Control via GPI(RJ-45) Port

## BEM-072H

BEM-072H is a cost-effective 7" on-camera monitor with the luminance of 1100 cd/m<sup>2</sup>. It accepts SD-SDI through 3G SDI, providing a clear view under the sunlight. A DV battery or V-Mount is attachable on the back.

|                       |                                      |                      |                        |
|-----------------------|--------------------------------------|----------------------|------------------------|
| LCD                   |                                      |                      |                        |
| Size                  | 7"                                   | Luminance of White   | 1100 cd/m <sup>2</sup> |
| Resolution            | 1024 x 600                           | Contrast             | 900 : 1                |
| Pixel Pitch           | 0.15 x 0.15mm                        | Back Light           | LED                    |
| Color                 | 8bit                                 | Display Area (H x V) | 153.6 x 90.0mm         |
| Viewing Angle         | 160(H), 160(V)                       |                      |                        |
| Input                 |                                      |                      |                        |
| 3G/HD/SD-SDI          | HDMI (with HDCP v.1.3), 19pin Female |                      |                        |
| Output                |                                      |                      |                        |
| SDI Loop Through      |                                      |                      |                        |
| Input Signal Format   |                                      |                      |                        |
| SMPTE 425M AB         | SMPTE 274M/292M                      | SMPTE 296M           | SMPTE 260M             |
| SMPTE 125M/259M       | 2K, SMPTE 428M                       | ITU R-BT.656         |                        |
| Audio In/Out          |                                      |                      |                        |
| 1 x Headphone Jack In |                                      |                      |                        |
| Weight                |                                      |                      |                        |
| 0.8kg / 1.7lbs        |                                      |                      |                        |

\* Optional accessories available

- Supporting parade mode
- V-CHIP display (SDI Only)
- Focus Assistance (SDI Only)
- 2CH Audio Level Meter(HDMI)
- Time Code Display (SDI Only)
- Supporting 3G-SDI (Level A/B)
- Exposure Range Check( SDI Only)
- Waveform/Vector scope (SDI Only)

- Monitor Control/Update via RS-422
- Remote Control via GPI(RJ-45) Port
- PiP, PaP(Between SDI and HDMI Input)
- Firmware Update via USB Memory
- Closed Caption (CEA-608/708)
- UMD Mode Display
- Various Markers

## Super Bright BEM-072H



- 3 Color TALLY Lamp
- Zero/Under/Over Scan
- False Color (SDI Only)
- 10-bit Signal Processor
- Battery Level Indicator

# Field Type Super Bright

## FM-073SCH **Best Rated**



- Supporting 3G-SDI (Level A/B)
- Firmware Update via USB Memory
- Waveform / Vector scope
- DV- Battery Level Indicator
- Horizontal/Vertical Level Meters
- Time Code(Except 3G Level B)
- Auto Color Temperature Adjustment
- Compatible to various DSLR Output
- HDMI-to-SDI & SDI-to-HDMI Converter
- Various Markers (EBU, 4:3, 16:9, 1.85:1, 2.35:1, etc.)
- 8~16ch Audio Level Meter
- False Color
- Auto Flip
- H/V Flip

## FM-073SCH

FM-073SCH is a super bright on-camera monitor with the luminance of 1100 cd/m<sup>2</sup>, which allows users monitor the images at any angle in sunlight. It comes with auto flip, PiP, H/V level meters, various zoom modes for DSLR, still image overlay, embedded 1:1, SDI-HDMI, HDMI-SDI conversions and SDI Loop-Through or HDMI conversion.

|  |                                    |                    |                   |
|--|------------------------------------|--------------------|-------------------|
| <b>LCD</b>   |                                    |                    |                   |
| Size   | 7.0"                               |                    |                   |
| Resolution   | 1024 x 600                         |                    |                   |
| Pixel Pitch  | 0.15 x 0.15 mm                     |                    |                   |
| Color  | 8bit                               |                    |                   |
| Viewing Angle  | 160(H), 160(V)                     |                    |                   |
| Luminance of White                                     | 1100 cd/m <sup>2</sup>             |                    |                   |
| Contrast   | 900 : 1                            |                    |                   |
| Back Light   | LED                                |                    |                   |
| Display Area (H x V)                                   | 153.6 x 90.0 mm                    |                    |                   |
| <b>Input</b>   |                                    |                    |                   |
| 3G/HD/SD-SDI   | HDMI(with HDCP v.1.1) 19pin Female |                    |                   |
| Analog(YPbPr/CVBS/S-Video/RGB)                         |                                    |                    |                   |
| <b>Output</b>  |                                    |                    |                   |
| Selectable SDI-1/2 Loop-through or HDMI conversion Out | HDMI 19-pin Female                 |                    |                   |
| <b>Analog Input</b>                                    |                                    |                    |                   |
| Composite  | YC(S-Video)                        | Component(Y/Pb/Pr) | Component (R/G/B) |
| <b>Input Signal Format</b>                             |                                    |                    |                   |
| SMPTE 425M AB  | SMPTE 274M/292M                    | SMPTE 296M         | SMPTE 260M        |
| SMPTE 125M/259M  | 2K, SMPTE 428M                     | ITU R-BT.656       | HDMI              |
| <b>Audio In / Out</b>                                  |                                    |                    |                   |
| 1 x Headphone Jack In                                  | 1 x Headphone Jack Out             | 1 x Speaker Out    |                   |
| <b>Weight</b>  |                                    |                    |                   |
| 1,3kg / 2,86lbs  |                                    |                    |                   |

\* Optional accessories available

- Tally automatically turns on When recording(Arri, Red)
- H/V Delay, Pixel-to-Pixel View, Zero/Under/Over Scan, Blue/Mono



## BSM-153H

BSM-153H is a 15" super bright monitor with 3G SDI and advanced peaking features. It can be easily installed or uninstalled on a rack or a job plate.

\*A program monitor can be attached onto it by using one of three holes at the top.

| LCD                                  |                                |                                 |                        |
|--------------------------------------|--------------------------------|---------------------------------|------------------------|
| Size                                 | 15"                            | Luminance of White              | 1500 cd/m <sup>2</sup> |
| Resolution                           | 1024 x 768                     | Contrast                        | 700 : 1                |
| Pixel Pitch                          | 0,297 mm                       | Back Light                      | LED                    |
| Color                                | 8bit                           | Display Area (H x V)            | 304.13 x 228.10 mm     |
|                                      |                                | Viewing Angle(deg)              | 160(H), 160(V)         |
| Input                                |                                |                                 |                        |
| 3G/HD/SD-SDI                         | Analog(YPbPr/CVBS/S-Video/RGB) |                                 | DVI-I, 24pin, Female   |
| HDMI (with HDCP v.1.1), 19pin Female |                                | DVI-I to VGA Jack (with gender) |                        |
| Output                               |                                |                                 |                        |
| SDI-1/2 Active Loop Output           | Analog(YPbPr/CVBS/S-Video/RGB) |                                 |                        |
| Analog Input Level                   |                                |                                 |                        |
| Composite                            | YC(S-Video)                    | Component(Y/Pb/Pr)              |                        |
| Component (R/G/B)                    |                                | PC-RGB, Sync Level              |                        |
| Input Signal Format                  |                                |                                 |                        |
| SMPTE 425M AB                        | 2K, SMPTE 428M                 | SMPTE 274M/292M                 | SMPTE 296M             |
| SMPTE 260M                           | SMPTE 125M/259M                | ITU R-BT.656                    | Composite              |
| Component, VGA                       | DVI Signal                     | HDMI Digital                    |                        |
| Audio In / Out                       |                                |                                 |                        |
| 1 x Headphone Jack In                | 2 x Headphone Jack Out         | 2 x Speaker Out                 |                        |
| Weight                               |                                |                                 |                        |
| 5kg/11lbs                            |                                |                                 |                        |

\* Optional accessories available

- R/G/B and White Internal Patterns Display
- Copying the preset data to another monitor by USB Memory
- PiP/PaP (Between SDI & HDMI Input)      ·Zero/Under/Over Scan

## Jimmy Jib Mountable Super Bright

**Best Rated**

**BSM-153H**



- 10bit Signal Processor
- 3G-SDI (Level A/B)
- Waveform/Vecor Scope
- Focus Assistance
- Time Code
- False Color
- Closed Caption (CEA-608/708)
- H/V Delay, Blue/Mono, Pixel to Pixel
- Exposure Range Check
- Supporting 3G-SDI (Level A/B)
- Various Markers
- UMD/IMD Mode-8~16ch Audio Level Meter
- Remote Control via GPI(RJ-45) Port
- 2 Hand Grips on Top and Left side
- AFD & V-CHIP(SDI Only)
- Update/Control via RS-422 or Ethernet
- 3 Mount Halls on Top
- Firmware Update via USB Memory

# Jimmy Jib Mountable Super Bright BSM-183H



- Firmware Update via USB Memory
- 2 Hand Grips on Top and Left side
- Remote Control via GPI(RJ-45) Port
- H/V Delay, Blue/Mono, Pixel to Pixel
- Update/Control via RS-422 or Ethernet
- R/G/B and White Internal Patterns Display
- 10bit Signal Processor
- Copying the preset data to another monitor by USB Memory

- AFD & V-CHIP(SDI Only)
- 8~16ch Audio Level Meter
- Closed Caption (CEA-608/708)
- Supporting 3G-SDI (Level A/B)
- False Color
- UMD/IMD Mode
- Various Markers
- Focus Assistance
- Time Code Display
- 3 Color TALLY Lamp
- 3G-SDI (Level A/B)
- Exposure Range Check
- Waveform/Vecor Scope
- Zero/Under/Over Scan

Being lighter and smaller in volume than a general 17" broadcast monitor, BSM-183H is an 18.5" super bright monitor suitable for outdoor shooting. BSM-213H is available for a larger full HD display (21.5")

| LCD                                  |                 |                                |                        |
|--------------------------------------|-----------------|--------------------------------|------------------------|
| Size                                 | 18.5"           | Color                          | 6 + FRC 2bit           |
| Resolution                           | 1368 x 768      | Luminance of White             | 1200 cd/m <sup>2</sup> |
| Pixel Pitch                          | 0.3 mm          | Back Light                     | LED                    |
| Viewing Angle                        | 170(H), 160(V)  | Display Area (H x V)           | 409.8 x 230.4 mm       |
| Contrast                             | 1000 : 1        |                                |                        |
| Input                                |                 |                                |                        |
| 3G/HD/SD-SDI                         |                 | Analog(YPbPr/CVBS/S-Video/RGB) | DVI-I, 24pin, Female   |
| HDMI (with HDCP v.1.1), 19pin Female |                 | DVI to VGA Jack (with gender)  |                        |
| Output                               |                 |                                |                        |
| SDI-1/2 Active Loop Output           |                 | Analog(YPbPr/CVBS/S-Video/RGB) |                        |
| External Sync                        |                 |                                |                        |
| Input Signal Format                  |                 |                                |                        |
| SMPTE 425M AB                        | SMPTE 372M      | SMPTE 274M/292M                | SMPTE 296M             |
| SMPTE 260M                           | SMPTE 125M/259M | 2K, SMPTE 428M                 | Composite              |
| Component, VGA                       | DVI Signal      | HDMI Digital                   |                        |
| Analog Input Level                   |                 |                                |                        |
| Composite                            | YC(S-Video)     | Component(Y/Pb/Pr)             | Component (R/G/B)      |
| PC-RGB, Sync Level                   |                 |                                |                        |
| Audio In/Out                         |                 |                                |                        |
| 1 x Headphone Jack In                |                 | 2 x Headphone Jack Out         | 2 x Speaker Out        |
| Weight                               |                 |                                |                        |
| 5.5kg / 12.2lbs                      |                 |                                |                        |

\* Optional accessories available

## BSM-213H

Weighting only 12.2lbs, BSM-213H is a 21.5" super bright monitor with the resolution of 1920x1080 and luminance of 1200 cd/m<sup>2</sup>. Suitable for both outdoor shooting and studio monitoring, it is now lighter and smaller in volume than a general 21" broadcast monitor.

| LCD                                  |                                 |                      |                        |
|--------------------------------------|---------------------------------|----------------------|------------------------|
| Size                                 | 21.5"                           | Luminance of White   | 1200 cd/m <sup>2</sup> |
| Resolution                           | 1920 x 1080                     | Back Light           | LED                    |
| Pixel Pitch                          | 0,248,25mm                      | Display Area (H x V) | 476.64 x 268.11mm      |
| Color                                | 8bit                            | Viewing Angle(deg)   | 178(H), 178(V)         |
| Contrast                             | 3000 : 1                        |                      |                        |
| Input                                |                                 |                      |                        |
| HD/SD-SDI                            | Analog(YPbPr/CVBS/S-Video/RGB)  |                      | DVI-I, 24pin, Female   |
| HDMI (with HDCP v.1.1), 19pin Female | DVI-H to VGA Jack (with gender) |                      |                        |
| Output                               |                                 |                      |                        |
| SDI-1/2 Active Loop Output           | Analog(YPbPr/CVBS/S-Video/RGB)  |                      |                        |
| Analog Input Level                   |                                 |                      |                        |
| Composite                            | YC(S-Video)                     | Component(Y/Pb/Pr)   |                        |
| Component (R/G/B)                    | PC-RGB, Sync Level              |                      |                        |
| Input Signal Format                  |                                 |                      |                        |
| SMPTE 425M AB                        | 2K, SMPTE 428M                  | SMPTE 274M/292M      | SMPTE 296M             |
| SMPTE 260M                           | SMPTE 125M/259M                 | ITU R-BT.656         | Composite              |
| Component, VGA                       | DVI Signal                      | HDMI Digital         |                        |
| Audio In / Out                       |                                 |                      |                        |
| 1 x Headphone Jack In                | 2 x Headphone Jack Out          | 2 x Speaker Out      |                        |
| Weight                               |                                 |                      |                        |
| 6kg/12.2lbs.                         |                                 |                      |                        |

\* Optional accessories available

- Supporting 3G-SDI (Level A/B)
- Monitor Control/Update via Ethernet/RS-422
- Copying the preset data to another monitor by USB memory
- Firmware Update via USB Memory

## FULL HD Super Bright BSM-213H



- PiP, PaP(Between analog and digital input)
- 10bit Signal Processor
- Waveform / Vector scope
- Closed Caption (CEA-608/708, SDI Only)
- Time Code Display (ATC\_HD-SDI, DVITC\_SD-SDI)
- Exposure Range Check ·UMD/IMD Mode Display
- AFD & V-CHIP display (SDI Only) ·3 Color Tally Lamp
- Various Markers (EBU, 4:3, 16:9, 1.85:1, 2.35:1, etc.)
- H/V Delay, Blue/Mono, Pixel to Pixel
- Zero/Under/Over Scan
- Remote Control via GPI(RJ-45) port
- False Color (SDI Only)
- Freeze Frame
- Focus Assistance

# Recordable RM-072S



- HDMI-to-SDI Loop-through Converter
- Auto Recording with GPIO
- Supporting 3G-SDI (Level A/B)
- Various Recordable Input
- Support for PC-playable file format(mov)
- Thumbnail File List
- Battery Level Indicator
- Focus Assistance
- False Color
- Waveform/Verctor scope
- Compatible to various DSLR Output
- Closed Caption(CEA-608/708)
- Various Play Mode
- Time Code(Except 3G Level B)
- 8~16ch Audio Level Meter
- UMD/IMD Mode
- Various Markers
- Exposure Range Check
- R/G/B and White Internal Patterns Display
- AFD & V-CHIP(SDI Only)
- Zero/Under/Over Scan, Blue/Mono
- Pixel-to-Pixel View
- 1280\*720/30p, 25p HD Recording with H.264 Video Codec
- H/V Delay
- 2ch Audio Recording with MPEG-2 AAC Codec

## RM-072S

RM-072S is a H.264 recordable monitor with SDI and HDMI inputs. Users can record the input signal on the screen and play it back instantly for review on a SD card. RM-072 is available for HDMI only.

|  |  |                      |                       |
|--|--|----------------------|-----------------------|
| LCD  |  |                      |                       |
| Size   | 7.0"   | Luminance of White   | 400 cd/m <sup>2</sup> |
| Resolution   | 1024 x 600   | Contrast             | 900 : 1               |
| Pixel Pitch  | 0,15 x 0,15 mm   | Back Light           | LED                   |
| Color  | 8bit   | Display Area (H x V) | 153,6 x 90,0 mm       |
| Viewing Angle  | 160(H), 160(V)   |                      |                       |
| Input  |  |                      |                       |
| 3G/HD/SD-SDI   | HDMI(with HDCP v.1.1) 19pin Female                                   |                      |                       |
| Output   |  |                      |                       |
| Selectable SDI-1/2 Loop-through or HDMI conversion Out |  |                      |                       |
| Input Signal Format                                    |  |                      |                       |
| SMPTE 425M AB  | SMPTE 274M/292M  | SMPTE 296M           | SMPTE 260M            |
| SMPTE 125M/259M  | 2K, SMPTE 428M   | ITU R-BT.656         | HDMI                  |
| Audio In / Out   |  |                      |                       |
| 1 x Headphone Jack In                                  | 1 x Headphone Jack Out   | 1 x Speaker Out      |                       |
| Recording & Play                                       |  |                      |                       |
| Recordable Input                                       | SDI, HDMI  |                      |                       |
| Codec  | H.264 (Video), AAC(Audio)  |                      |                       |
| Video Bit Rate   | 4Mbps  |                      |                       |
| External Memory  | Max 32GB (Class 4 or higher SDHC Card)                               |                      |                       |
| Max Record Size  | 2GB per file (About One Hour)  |                      |                       |
| Recording Format                                       | 1280x720 / 30p, 25p  |                      |                       |
| File Format  | mov  |                      |                       |
| Play Mode  | Play, 2x/8x/32x FF/REW, 1/2x/1/8x/1/32x Slow, 2x/8x/32x Frame FF/REW |                      |                       |

\* Optional accessories available

| LCD                                  |   |                      |                       |
|--------------------------------------|---|----------------------|-----------------------|
| Size                                 | 18.5"   | Color                | 8bit                  |
| Resolution                           | 1368 x 768  | Luminance of White   | 250 cd/m <sup>2</sup> |
| Pixel Pitch                          | 0.1 x 0.3 mm  | Back Light           | LED                   |
| Viewing Angle                        | 178(H), 178(V)  | Display Area (H x V) | 409.8 x 230.4 mm      |
| Contrast                             | 1000 : 1  |                      |                       |
| Input                                |   |                      |                       |
| 3G/HD/SD-SDI                         | Analog(YPbPr/CVBS/S-Video/RGB)  | DVI-I, 24pin, Female |                       |
| HDMI (with HDCP v.1.1), 19pin Female | External Sync, Black Burst & Tri-sync, 1.0Vp-p  |                      |                       |
| Output                               |   |                      |                       |
| SDI-1/2 Active Loop Output           | Analog(YPbPr/CVBS/S-Video/RGB)  |                      |                       |
| HDMI-to-SDI Conversion Out           | External Sync   |                      |                       |
| Input Signal Format                  |   |                      |                       |
| SMPTE 425M AB                        | SMPTE 372M  | SMPTE 274M/292M      | SMPTE 296M DVI        |
| SMPTE 260M                           | SMPTE 125M/259M   | 2K, SMPTE 428M       | ITU R-BT.656 HDMI     |
| Audio In/Out                         |   |                      |                       |
| 1 x Headphone Jack In                | 2 x Headphone Jack Out  | 2 x Speaker Out      |                       |
| Recording & Play                     |   |                      |                       |
| Recordable Input                     | SDI, HDMI, CVBS   |                      |                       |
| Codec                                | H.264 (Video), AAC(Audio)   |                      |                       |
| Video Bit Rate                       | 4Mbps   |                      |                       |
| Internal Memory                      | 4GB   |                      |                       |
| External Memory                      | Max 32GB (Class 4 or higher SDHC Card)  |                      |                       |
| Max Record Size                      | 2GB per file (About One Hour)   |                      |                       |
| Recording Format                     | 1280x720 / 60p, 50p   |                      |                       |
| File Format                          | Mov   |                      |                       |
| Play Mode                            | Play, Reverse Play, 2x/4x/8x FF/REW,<br>1/2x/1/4x/1/8x Slow, 1x/2x/4x/8x Frame_FF/REW |                      |                       |

\* Optional accessories available

#### .Firmware Update via USB Memory

- Zero/Under/Over Scan
- False Color
- 3 Color TALLY Lamp
- UMD/IMD Mode
- 3G-SDI (Level A/B)
- Various Markers
- Exposure Range Check
- Focus Assistance
- Waveform/Vecor Scope
- Time Code Display

#### ·2 Hand Grips on Top and Left side

- Remote Control via GPI(RJ-45) Port
- H/V Delay, Blue/Mono, Pixel to Pixel
- Update/Control via RS-422 or Ethernet
- R/G/B and White Internal Patterns Display
- Copying the preset data to another monitor by USB Memory

## Recordable

# BXM-183R3G

BXM-183R3G is a high-end broadcast monitor with a 12bit video processor and multiple advanced features including 3G SDI input and HD recording. It starts recording automatically with the time code of a SDI camera.



#### ·10bit Signal Processor

- AFD & V-CHIP(SDI Only)
- 8~16ch Audio Level Meter
- Closed Caption (CEA-608/708)
- Supporting 3G-SDI (Level A/B)



# ON-Camera Type FM-055F



- Supporting 3G-SDI (Level A/B) · H/V Flip
- DV- Battery Level Indicator · False Color
- Waveform / Vector scope · 8~16ch Audio Level Meter
- Time Code(Except 3G Level B) · Auto Flip(Vertical Flip)
- Horizontal/Vertical Level Meters
- Firmware Update via USB Memory
- Auto Color Temperature Adjustment
- Compatible to various DSLR Output
- HDMI-to-SDI & SDI-to-HDMI Converter
- Various Markers (EBU, 4:3, 16:9, 1.85:1, 2.35:1, etc.)
- Tally automatically turns on When recording(Arri, Red)
- H/V Delay, Pixel-to-Pixel View, Zero/Under/Over Scan, Blue/Mono

# 5.5" Full HD

## FM-055F

Featuring 5" 1920x1080 LED-backlit panel, FM-055F is the best 5" on-camera (DSLR and ENG) monitor. Reverse Peaking and Focus Peaking Box can be adjusted to be any size and placed anywhere on the screen.

|  |                                     |              |            |
|--|-------------------------------------|--------------|------------|
| LCD  |                                     |              |            |
| Size   | 5.5"                                |              |            |
| Resolution   | 1920 x 1080                         |              |            |
| Pixel Pitch  | 0.021 x 0.063 mm                    |              |            |
| Color  | 8bit                                |              |            |
| Viewing Angle  | 160(H), 160(V)                      |              |            |
| Luminance of White                                       | 450 cd/m <sup>2</sup>               |              |            |
| Contrast   | 1000 : 1                            |              |            |
| Back Light   | LED                                 |              |            |
| Display Area (H x V)                                     | 68.04 (H) x 120.96(V) mm            |              |            |
| Input  |                                     |              |            |
| 3G/HD/SD-SDI   | HDMI(with HDCP v.1.1), 19pin Female |              |            |
| Output   |                                     |              |            |
| SDI Loop-Through or HDMI conversion Out                  |                                     |              |            |
| HDMI(with HDCP v.1.1) 19pin Female or SDI Conversion Out |                                     |              |            |
| Audio In / Out   |                                     |              |            |
| 1 x Headphone Jack Out                                   | 1 x Speaker Out                     |              |            |
| Input Signal Format                                      |                                     |              |            |
| SMPTE 425M AB  | SMPTE 274M / 292M                   | SMPTE 296M   | SMPTE 260M |
| SMPTE 125M/259M  | 2K, SMPTE 428M                      | ITU R-BT.656 | HDMI       |
| Weight   |                                     |              |            |
| <b>365g / 0.8lbs</b>                                     |                                     |              |            |

\* Optional accessories available

## FM-052SC

FM-052SC is a 5" on-camera monitor for DSLR and ENG cameras with useful features such as auto flip and H/V level meter. An external display can be connected via its HDMI-to-SDI converter.

| LCD  |                                       |                      |                       |
|--|---------------------------------------|----------------------|-----------------------|
| Size   | 5.0"                                  | Luminance of White   | 300 cd/m <sup>2</sup> |
| Resolution   | 800 x 480                             | Contrast             | 600 : 1               |
| Color  | 8bit                                  | Pixel Pitch          | 0.135 x 0.135 mm      |
| Viewing Angle  | 170(H), 170(V)                        | Display Area (H x V) | 108.0 x 64.8 mm       |
| Back Light   | LED                                   |                      |                       |
| Input  |                                       |                      |                       |
| 3G/HD/SD-SDI   | HDMI, (with HDCP v.1.1), 19pin Female |                      |                       |
| Output   |                                       |                      |                       |
| HD/SD-SDI BNC port, Selectable Loop-through or Convert Out |                                       |                      |                       |
| Input Signal Format  |                                       |                      |                       |
| SMPTE 425M AB  | SMPTE 274M/292M                       | SMPTE 296M           | SMPTE 260M            |
| SMPTE 125M/259M  | 2K, SMPTE 428M                        | ITU R-BT.656         | HDMI                  |
| Audio In/Out   |                                       |                      |                       |
| 1 x Headphone Jack Out                                     | 2 x Speaker Out                       |                      |                       |
| Weight   |                                       |                      |                       |
| 350g / 0.77lbs   |                                       |                      |                       |

\* Optional accessories available

- Zero/Under/Over Scan, Blue/Mono
- Auto Color Temperature Adjustment
- Compatible to various DSLR Output
- Shortcut Button for Daylight Mode
- R/G/B and White Internal Pattern Display
- Horizontal/Vertical Audio Level Meters
- De-embedded 8~16ch Audio Level Meterer
- HDMI to SDI Conversion
- Auto Luminance Control
- 10-bit Signal Processor
- Battery Level Indicator

## ON-Camera Type FM-052SC



- Tally LED Control Output
- H/V Delay, Pixel-to-Pixel View
- Input Mode & Status Display
- Time Code(Except 3G Level B)
- Supporting 3G-SDI (Level A/B)
- Auto Flip(Vertical Flip)
- Selectable Loop-Through or Conversion Out
- H/V Flip
- Various Markers
- False Color On/Off
- Exposure Error Check
- Waveform/Vector scope

# ON-Camera Type FM-073SC



- Zero/Under/Over Scan
- Supporting 3G-SDI (Level A/B)
- False Color
- Exposure Range Check
- Supporting parade mode
- Monitor Control/Update via RS-422
- 10-bit Signal Processor
- Remote Control via GPI(RJ-45) Port
- Firmware Update via USB Memory
- Tally automatically turns on When recording(Arri, Red)

## FM-073SC

FM-073SC is an on-camera monitor with the advanced features including auto flip, H/V level meters, various zoom modes for DSLR, and embedded 1:1 SDI-HDMI, HDMI-SDI converters.

| LCD  |                                       |                      |                       |
|--|---------------------------------------|----------------------|-----------------------|
| Size   | 7"                                    | Luminance of White   | 400 cd/m <sup>2</sup> |
| Resolution   | 1024 x 600                            | Contrast             | 900 : 1               |
| Color  | 8bit                                  | Pixel Pitch          | 0.15 x 0.15mm         |
| Viewing Angle  | 160(H), 160(V)                        | Display Area (H x V) | 153.6 x 90.0 mm       |
| Back Light   | LED                                   |                      |                       |
| Input  |                                       |                      |                       |
| 3G/HD/SD-SDI   | HDMI, (with HDCP v.1.1), 19pin Female |                      |                       |
| Analog(YPbPr/CVBS/S-Video/RGB)                         |                                       |                      |                       |
| Output   |                                       |                      |                       |
| Selectable SDI-1/2 Loop-through or HDMI conversion Out | HDMI, 19-pin Female                   |                      |                       |
| Input Signal Format                                    |                                       |                      |                       |
| SMPTE 425M AB  | SMPTE 274M/292M                       | SMPTE 296M           | SMPTE 260M            |
| SMPTE 125M/259M  | 2K, SMPTE 428M                        | ITU R-BT.656         | HDMI                  |
| Audio In/Out   |                                       |                      |                       |
| 1 x Headphone Jack Out                                 | 1 x Headphone Jack In                 | 1 x Speaker Out      |                       |
| Weight   |                                       |                      |                       |
| 0.87kg / 1.92lbs                                       |                                       |                      |                       |

\* Optional accessories available

- Waveform/Vectorscope
- Various Markers
- 3 Color TALLY Lamp
- UMD Mode Display
- H/V Delay, RGB/Mono
- Focus Assistance
- Pixel-to-Pixel View
- Time Code Display(SDI Only)
- PiP, PaP (Between SDI & HDMI Input)
- V-CHIP display (SDI Only)
- Tally automatically turns on When recording(Arri, Red)
- Copying the preset data to another monitor by USB memory
- R/G/B and White Internal Patterns Display



## BEM-072

BEM-072 is a cost-effective 7" on-camera monitor with its own color-calibrated screen and selectable color temperatures, accepting SD through 3G SDI. A DV battery or V-Mount is attachable on the back. Single/Dual rack mount kits are available in option.

| LCD                    |                                      |                      |                       |
|------------------------|--------------------------------------|----------------------|-----------------------|
| Size                   | 7"                                   | Luminance of White   | 400 cd/m <sup>2</sup> |
| Resolution             | 1024 x 600                           | Contrast             | 900 : 1               |
| Pixel Pitch            | 0.15 x 0.15mm                        | Back Light           | LED                   |
| Color                  | 8bit                                 | Display Area (H x V) | 153.6 x 90.0mm        |
| Viewing Angle          | 160(H), 160(V)                       |                      |                       |
| Input                  |                                      |                      |                       |
| 3G/HD/SD-SDI           | HDMI (with HDCP v.1.3), 19pin Female |                      |                       |
| Output                 |                                      |                      |                       |
| SDI Loop Through       |                                      |                      |                       |
| Input Signal Format    |                                      |                      |                       |
| SMPTE 425M AB          | SMPTE 274M/292M                      | SMPTE 296M           | SMPTE 260M            |
| SMPTE 125M/259M        | 2K, SMPTE 428M                       | ITU R-BT.656         |                       |
| Audio In/Out           |                                      | Weight               |                       |
| 1 x Headphone Jack Out |                                      | 0.8kg / 1.76lbs      |                       |

\* Optional accessories available

- Pixel-to-Pixel View
- Supporting 3G-SDI (Level A/B)
- H/V Delay, RGB/Mono
- Exposure Range Check( SDI Only)
- Zero/Under/Over Scan
- Monitor Control/Update via RS-422
- Supporting parade mode
- Waveform/Vectorscope (SDI)
- 3 Color TALLY Lamp-Remote Control via GPI(RJ-45) Port
- False Color (SDI Only)
- PiP, PaP (Between SDI & HDMI Input)
- Firmware Update via USB Memory
- Copying the preset data to another monitor by USB memory
- R/G/B and White Internal Patterns Display
- V-CHIP display (SDI Only)
- Various Markers
- Focus Assistance(SDI Only)
- Time Code Display(SDI Only)
- UMD Mode Display

## BEM Series BEM-072



# BEM Series BEM-182

Rack mountable  
6RU Fitted in



## BEM-182

BEM-182 is a cost-effective 18.5" LED broadcast monitor with its own color-calibrated screen and selectable color temperatures. It can be attached in front of a rack, providing larger viewable area than a general 17" rack/wall mount monitor and run on V-Mount or Anton Bauer battery attachable on the back.

| LCD                    |   |                      |                       |
|------------------------|---|----------------------|-----------------------|
| Size                   | 18.5"                                   | Color                | 6 + FRC 2bit          |
| Resolution             | 1366 x 768                              | Luminance of White   | 250 cd/m <sup>2</sup> |
| Pixel Pitch            | 0,3 x 0,3mm                             | Back Light           | LED                   |
| Viewing Angle          | 170(H), 160(V)                          | Display Area (H x V) | 409,8 x 230,4 mm      |
| Contrast               | 1000 : 1                                |                      |                       |
| Input                  |   |                      |                       |
| 3G/HD/SD-SDI           | HDMI1.3 (with HDCP v.1.3), 19pin Female |                      |                       |
| Output                 |   |                      |                       |
| SDI Loop Through       |   |                      |                       |
| Input Signal Format    |   |                      |                       |
| SMPTE 425M AB          | SMPTE 274M/292M                         | SMPTE 296M           | SMPTE 260M            |
| SMPTE 125M/259M        | 2K, SMPTE 428M                          | ITU R-BT.656         | HDMI                  |
| Audio In/Out           |   |                      |                       |
| 1 x Headphone Jack Out |   |                      |                       |

\* Optional accessories available

- Time Code Display(SDI Only)
- H/V Delay, RGB/Mono (SDI ONLY)
- Exposure Range Check( SDI Only)
- Monitor Control/Update via RS-422
- PiP/PaP (Between SDI & HDMI Input)
- Closed Caption(CEA-608/708,SDI only)
- Pixel to Pixel
- UMD Mode Display
- 3 Color TALLY Lamp
- Zero/Under/Over Scan
- Supporting parade mode
- Remote Control via GPI(RJ-45) Port
- V-CHIP display (SDI Only)
- Waveform/Vectorscope (SDI)
- Focus Assistance(SDI Only)
- Firmware Update via USB Flash Memory
- 10-bit Signal Processor
- False Color (SDI Only)
- Various Markers

## BEM-212

BEM-212 is a cost-effective 21.5" LED broadcast monitor. It has a color-calibrated screen with selectable color temperatures. A V-Mount or Anton Bauer battery is attachable on the back.

| LCD                    |                                       |                      |                       |
|------------------------|---------------------------------------|----------------------|-----------------------|
| Size                   | 21.5"                                 | Color                | 8bit                  |
| Resolution             | 1920 x 1080                           | Luminance of White   | 250 cd/m <sup>2</sup> |
| Pixel Pitch            | 0.24825mm                             | Back Light           | LED                   |
| Viewing Angle          | 178(H),178(V)                         | Display Area (H x V) | 476.64 x 268.11 mm    |
| Contrast               | 3000:1                                |                      |                       |
| Input                  |                                       |                      |                       |
| 3G/HD/SD-SDI           | HDMI, (with HDCP v.1.1), 19pin Female |                      |                       |
| Output                 |                                       |                      |                       |
| SDI Loop Through       |                                       |                      |                       |
| Input Signal Format    |                                       |                      |                       |
| SMPTE 425M AB          | SMPTE 274M/292M                       | SMPTE 296M           | SMPTE 260M            |
| SMPTE 125M/259M        | 2K, SMPTE 428M                        | ITU R-BT.656         | HDMI                  |
| Audio In/Out           |                                       |                      |                       |
| 1 x Headphone Jack Out |                                       |                      |                       |

\* Optional accessories available

- Various Markers
- Supporting 3G-SDI (Level A/B)
- UMD Mode Display
- Exposure Range Check( SDI Only)
- Time Code Display
- Waveform/Vectorscope (SDI Only)
- Remote Control via GPI(RJ-45) Port

- 10-bit Signal Processor
- V-CHIP display (SDI Only)
- H/V Delay, RGB/Mono, Pixel to Pixel
- Firmware Update via USB Memory
- Focus Assistance(SDI Only)
- R/G/B and White Internal Patterns Display(SDI Only)
- Copying the preset data to another monitor by USB memory
- 3 Color TALLY Lamp
- Monitor Control/Update via RS-422
- Zero/Under/Over Scan
- PiP/PaP (Between SDI & HDMI Input)
- False Color (SDI Only)
- Closed Caption(CEA-608/708)

## BEM Series BEM-212



# BEM Series

## BEM-242



## BEM-242

BEM-242 is a cost-effective 24" LED broadcast monitor with its own color-calibrated screen and selectable color temperatures.

| LCD                    |  |                      |                       |
|------------------------|--|----------------------|-----------------------|
| Size                   | 24"                                      | Color                | 8bit                  |
| Resolution             | 1920 x 1080                              | Luminance of White   | 250 cd/m <sup>2</sup> |
| Pixel Pitch            | 0.27675mm                                | Back Light           | LED                   |
| Viewing Angle          | 178(H), 178(V)                           | Display Area [H x V] | 531.36 x 298.89 mm    |
| Contrast               | 3000 : 1                                 |                      |                       |
| Input                  |  |                      |                       |
| 3G/HD/SD-SDI           | HDMI 1.3 (with HDCP v.1.3), 19pin Female |                      |                       |
| Output                 |  |                      |                       |
| SDI Loop Through       |  |                      |                       |
| Input Signal Format    |  |                      |                       |
| SMPTE 425M AB          | SMPTE 274M/292M                          | SMPTE 296M           | SMPTE 260M            |
| SMPTE 125M/259M        | 2K, SMPTE 428M                           | ITU R-BT.656         | HDMI                  |
| Audio In/Out           |  |                      |                       |
| 1 x Headphone Jack Out |  |                      |                       |

\* Optional accessories available

- Various Markers
- Focus Assistance(SDI Only)
- Waveform/Vectorscope (SDI Only)
- Time Code Display(SDI Only)
- Supporting 3G-SDI (Level A/B)
- Exposure Range Check( SDI Only)
- Monitor Control/Update via RS-422

- Remote Control via GPI(RJ-45) Port
- PiP/PaP (Between SDI & HDMI Input)
- H/V Delay, RGB/Mono, Pixel to Pixel
- UMD Mode Display
- 3 Color TALLY Lamp
- Zero/Under/Over Scan
- Supporting parade mode

- False Color (SDI Only)
- Closed Caption(CEA-608/708)
- 10-bit Signal Processor
- Signal Analysis Features
- V-CHIP display (SDI Only)

## BSM-212i

BSM-212i is a 21.5" professional broadcast monitor with a 10-bit video processor. Its full HD 1920x1080 resolution achieves the best image quality for monitoring by providing sharp 1:1 mapped pixels.

| LCD                                  |                                |                                 |                      |
|--------------------------------------|--------------------------------|---------------------------------|----------------------|
| Size                                 | 21.5"                          | Luminance of White              | 250cd/m <sup>2</sup> |
| Resolution                           | 1920 x 1080                    | Contrast                        | 3000 : 1             |
| Color                                | 8bit                           | Pixel Pitch                     | 0.24825 mm           |
| Viewing Angle                        | 178(H), 178(V)                 | Display Area (H x V)            | 476.64 x 268.11 mm   |
| Back Light                           | LED                            |                                 |                      |
| Input                                |                                |                                 |                      |
| HD/SD-SDI                            | Analog(YPbPr/CVBS/S-Video/RGB) | DVI-I, 24pin, Female            |                      |
| HDMI (with HDCP v.1.1), 19pin Female |                                | DVI-I to VGA Jack (with gender) |                      |
| Output                               |                                |                                 |                      |
| SDI-1/2 Active Loop Output           | Analog(YPbPr/CVBS/S-Video/RGB) |                                 |                      |
| Input Signal Format                  |                                |                                 |                      |
| SMPTE 274M/292M                      | SMPTE 296M                     | SMPTE 260M                      | DVI                  |
| SMPTE 125M/259M                      | 2K, SMPTE 428M                 | ITU R-BT.656                    | HDMI                 |
| Audio In/Out                         |                                |                                 |                      |
| 1 x Headphone Jack In                | 2 x Headphone Jack Out         | 2 x Speaker Out                 |                      |

\* Optional accessories available

- 10bit Signal Processor
- AFD & V-CHIP(SDI Only)
- Waveform/Vector Scope
- Update/Control via RS-422
- UMD/IMD Mode
- Firmware Update via USB Memory

- H/V Delay
- Time Code
- False Color
- Freeze Frame
- Various Markers

- 1920x1080 Full HD Resolution
- Closed Caption (CEA-608/708)
- Remote Control GPI(RJ-45) port
- Zero/Under/Over Scan/Zoom Scan
- PiP/PaP (Between HDMI & SDI Input)
- Copying the preset data to another monitor by USB memory

- Focus Assistance
- R,G,B and Gray only Display
- 3 Color Tally Lamp
- Pixel-to-Pixel View
- Exposure Range Check

## BSM i Series BSM-212i



# BSM i Series

## BSM-242i



## BSM-242i

BSM-242i is a 24" LED broadcast monitor with the exact colors of HDTV standards BT.709 and SMPTE-C color space with no visible over-saturated colors.

| LCD  |                                |                                 |                       |
|--|--------------------------------|---------------------------------|-----------------------|
| Size   | 24"                            | Color                           | 6 + FRC 2bit          |
| Resolution   | 1920 x 1080                    | Luminance of White              | 250 cd/m <sup>2</sup> |
| Pixel Pitch  | 0,27675 mm                     | Back Light                      | LED                   |
| Viewing Angle  | 178(H), 178(V)                 | Display Area (H x V)            | 531,36 x 298,89 mm    |
| Contrast   | 3000 : 1                       |                                 |                       |
| Input  |                                |                                 |                       |
| HD/SD-SDI  | Analog(YPbPr/CVBS/S-Video/RGB) | DVI-I, 24pin, Female            |                       |
| HDMI (with HDCP v.1.1), 19pin Female                     |                                | DVI-I to VGA Jack (with gender) |                       |
| Output   |                                |                                 |                       |
| SDI-1/2 Active Loop Output                               | Analog(YPbPr/CVBS/S-Video/RGB) |                                 |                       |
| Input Signal Format                                      |                                |                                 |                       |
| SMPTE 274M/292M, SMPTE 296M, SMPTE 260M, SMPTE 125M/259M |                                |                                 |                       |
| 2K, SMPTE 428M ITU R-BT.656 HDMI DVI                     |                                |                                 |                       |
| Analog Input Level                                       |                                |                                 |                       |
| Composite  | YC(S-Video)                    | Component(Y/Pb/Pr)              | Component (R/G/B)     |
| PC-RGB, Sync Level                                       |                                |                                 |                       |
| Audio In/Out   |                                |                                 |                       |
| 1 x Headphone Jack Out                                   | 1 x Headphone Jack In          | 1 x Speaker Out                 |                       |

\* Optional accessories available

- Exposure Range Check
- 10bit Signal Processor
- Waveform/Vector Scope
- AFD & V-CHIP(SDI Only)
- Update/Control via RS-422
- Firmware Update via USB Memory

- H/V Delay
- Time Code
- False Color
- UMD/IMD Mode
- Freeze Frame

- R/G/B and Gray only Display
- Closed Caption (CEA-608/708)
- Zero/Under/Over Scan/Zoom Scan
- Remote Control GPI(RJ-45) port
- PiP/PaP (Between HDMI & SDI Input)
- Copying the preset data to another monitor by USB memory
- Focus Assistance
- Various Markers
- Pixel-to-Pixel View
- 3 Color Tally Lamp

## BSM-093N3G

BSM-093N3G is a 9" monitor with the optimized 960x540 resolution LCD panel to display motion pictures. With 2 SDI in/out ports, it supports 3G SDI, stereo audio in/out ports and speakers.

Single/Dual rack mount kit is available as an option.

| LCD                                  |                                |                                 |                       |
|--------------------------------------|--------------------------------|---------------------------------|-----------------------|
| Size                                 | 9"                             | Color                           | 8bit                  |
| Resolution                           | 960 x 540                      | Luminance of White              | 400 cd/m <sup>2</sup> |
| Pixel Pitch                          | 0.207 mm                       | Back Light                      | LED                   |
| Viewing Angle                        | 170(H), 170(V)                 | Display Area (H x V)            | 198.72 x 111.78 mm    |
| Contrast                             | 1000 : 1                       |                                 |                       |
| Input                                |                                |                                 |                       |
| HD/SD-SDI                            | Analog(YPbPr/CVBS/S-Video/RGB) | DVI-I, 24pin, Female            |                       |
| HDMI (with HDCP v.1.1), 19pin Female |                                | DVI-I to VGA Jack (with gender) |                       |
| Output                               |                                |                                 |                       |
| SDI-1/2 Active Loop Output           | Analog(YPbPr/CVBS/S-Video/RGB) |                                 |                       |
| Input Signal Format                  |                                |                                 |                       |
| SMPTTE 260M                          | SMPTTE 125M/259M               | ITU R-BT.656                    | Composite             |
| Component, VGA                       | DVI Signal                     | HDMI Digital                    | SMPTTE 425M AB        |
| 2K, SMPTTE 428M                      | SMPTTE 274M/292M               | SMPTTE 296M                     |                       |
| Analog Input Level                   |                                |                                 |                       |
| Composite                            | YC(S-Video)                    | Component(Y/Pb/Pr)              | Component (R/G/B)     |
| PC-RGB, Sync Level                   |                                |                                 |                       |
| Audio in/out                         |                                |                                 |                       |
| 1 x Headphone Jack In                | 2 x Headphone Jack Out         | 2 x Speaker Out                 |                       |

\* Optional accessories available

- Waveform/Vector Scope
- 10bit Signal Processor
- AFD & V-CHIP(SDI Only)
- Closed Caption (CEA-608/708)
- R/G/B and Gray only Display
- Various Markers

- Remote Control via GPI(RJ-45) Port
- PiP/PaP (Between SDI & HDMI Input)
- H/V Delay, Blue/Mono, Pixel to Pixel
- Update/Control via RS-422 or Ethernet
- R/G/B and White Internal Patterns Display
- Copying the preset data to another monitor by USB memory

- Focus Assistance
- USB Memory Update
- 3G-SDI (Level A/B)
- 3 Color TALLY Lamp
- Zero/Under/Over Scan

- Exposure Range Check
- Time Code
- False Color
- UMD/IMD Mode
- Freeze Frame
- Firmware Update via USB Memory

## BSM Series BSM-093N3G



# BSM Series

## BSM-173N3G



- Exposure Range Check
- Zero/Under/Over Scan
- AFD /V-CHIP(SDI Only)
- 8~16ch Audio Level Meter
- Focus Assistance
- R/G/B or Gray Only Display
- R/G/B and White Internal Pattern Display

- Time Code Display
- False Color
- UMD/IMD Mode
- Freeze Frame
- Tally Display
- Various Markers
- Copying the preset data to another monitor by USB Memory

- 3G SDI (Level A/B)
- Monitor Controllable via Ethernet
- PiP/PaP (Between SDI & HDMI Input)
- H/V Delay
- Pixel-to-Pixel View
- Closed Caption(CEA-608/708)

## BSM-173N3G

BSM-173N3G, a 17" broadcast monitor with its native full HD screen accepts 3G SD signals.

| LCD                                  |                                |                                 |                       |
|--------------------------------------|--------------------------------|---------------------------------|-----------------------|
| Size                                 | 17.3"                          | Pixel Pitch                     | 0.1989 x 0.1989 mm    |
| Resolution                           | 1920 x 1080                    | Color                           | 6 + FRC 2bit          |
| Viewing Angle                        | 160(H), 140(V)                 | Luminance of White              | 400 cd/m <sup>2</sup> |
| Contrast                             | 600 : 1                        | Display Area (H x V)            | 381.88 x 214.81 mm    |
| Back Light                           | LED                            |                                 |                       |
| Input                                |                                |                                 |                       |
| 3G/HD/SD-SDI                         | Analog(YPbPr/CVBS/S-Video/RGB) | DVI-I, 24pin, Female            |                       |
| HDMI (with HDCP v.1.1), 19pin Female |                                | DVI-I to VGA Jack (with gender) |                       |
| Output                               |                                |                                 |                       |
| SDI-1/2 Active Loop Output           | Analog(YPbPr/CVBS/S-Video/RGB) |                                 |                       |
| Input Signal Format                  |                                |                                 |                       |
| SMPTE 260M                           | SMPTE 125M/259M                | ITU R-BT.656                    | Composite             |
| Component, VGA                       | DVI Signal                     | HDMI Digital                    | SMPTE 425M AB         |
| 2K, SMPTE 428M                       | SMPTE 274M/292M                | SMPTE 296M                      |                       |
| Analog Input Level                   |                                |                                 |                       |
| Composite                            | YC(S-Video)                    | Component(Y/Pb/Pr)              | Component (R/G/B)     |
| PC-RGB, Sync Level                   |                                |                                 |                       |
| Audio In/Out                         |                                |                                 |                       |
| 1 x Headphone Jack In                | 2 x Headphone Jack Out         | 2 x Speaker Out                 |                       |

\* Optional accessories available



# BSM-183N3G

BSM-183N3G is an 18.5" broadcast monitor, supporting 3G-SDI signals, Waveform/Vectorscope and various markers.

| LCD                                  |                                |                               |                       |
|--------------------------------------|--------------------------------|-------------------------------|-----------------------|
| Size                                 | 18.5"                          | Pixel Pitch                   | 0.3 x 0.3 mm          |
| Resolution                           | 1366 x 768                     | Color                         | 6 + FRC 2bit          |
| Viewing Angle                        | 170(H),160(V)                  | Luminance of White            | 250 cd/m <sup>2</sup> |
| Contrast                             | 1000:1                         | Display Area (H x V)          | 409.8 x 230.4 mm      |
| Back Light                           | LED                            |                               |                       |
| Input                                |                                |                               |                       |
| 3G/HD/SD-SDI                         | Analog(YPbPr/CVBS/S-Video/RGB) | DVI-I, 24pin, Female          |                       |
| HDMI (with HDCP v.1.1), 19pin Female |                                | DVI to VGA Jack (with gender) |                       |
| Output                               |                                |                               |                       |
| SDI-1/2 Active Loop Output           | Analog(YPbPr/CVBS/S-Video/RGB) |                               |                       |
| Input Signal Format                  |                                |                               |                       |
| SMPTE 260M                           | SMPTE 125M/259M                | ITU R-BT.656                  | DVI                   |
| HDMI 2K, SMPTE 428M                  | SMPTE 274M/292M                | SMPTE 296M                    |                       |
| Analog Input Level                   |                                |                               |                       |
| Composite                            | YC(S-Video)                    | Component(Y/Pb/Pr)            | Component (R/G/B)     |
| PC-RGB, Sync Level                   |                                |                               |                       |
|                                      |                                |                               |                       |
| Audio In/Out                         |                                |                               |                       |
| 1 x Headphone Jack In                | 2 x Headphone Jack Out         | 2 x Speaker Out               |                       |

\* Optional accessories available

- Exposure Range Check
- H/V Delay
- Zero/Under/Over Scan
- False Color
- Waveform/Vector Scope
- Freeze Frame
- 10bit Signal Processor

- R/G/B and Gray only Display
- Firmware Update via USB Memory
- Closed Caption (CEA-608/708)
- 3 Color Tally Lamp
- Remote Control via GPI(RJ-45) port
- PiP, PaP (Between Analog & Digital input)
- Copying the preset data to another monitor by USB memory

## BSM Series

# BSM-183N3G



- UMD/IMD Mode
- AFD & V-CHIP(SDI Only)
- Various Markers
- Update/Control via RS-422
- Focus Assistance
- Pixel-to-Pixel View
- TimeCode Display

# BSM Series

## BSM-213N3G



## BSM-213N3G

BSM-213N3G, a 21.5" broadcast monitor with 3G SDI signals reproduces high quality pictures with a wide color range and smooth gradient.

| LCD                                  |                 |                                |                       |
|--------------------------------------|-----------------|--------------------------------|-----------------------|
| Size                                 | 21.5"           | Luminance of White             | 250 cd/m <sup>2</sup> |
| Resolution                           | 1920 x 1080     | Contrast                       | 1000 : 1              |
| Pixel Pitch                          | 0.24795mm       | Back Light                     | LED                   |
| Color                                | 6 + FRC 2bit    | Display Area (H x V)           | 476.064 x 267.768 mm  |
| Viewing Angle                        | 178(H), 178(V)  |                                |                       |
| Input                                |                 |                                |                       |
| 3G/HD/SD-SDI                         |                 | Analog(YPbPr/CVBS/S-Video/RGB) | DVH, 24pin, Female    |
| HDMI (with HDCP v.1.1), 19pin Female |                 | DVH to VGA Jack (with gender)  |                       |
| Output                               |                 |                                |                       |
| SDI-1/2 Active Loop Output           |                 | Analog(YPbPr/CVBS/S-Video/RGB) |                       |
| Input Signal Format                  |                 |                                |                       |
| SMPTE 260M                           | SMPTE 125M/259M | ITU R-BT.656                   | Composite             |
| Component, VGA                       | DVI Signal      | HDMI Digital                   | SMPTE 425M AB         |
| 2K, SMPTE 428M                       | SMPTE 274M/292M | SMPTE 296M                     |                       |
| Analog Input Level                   |                 |                                |                       |
| Composite                            | YC(S-Video)     | Component(Y/Pb/Pr)             | Component (R/G/B)     |
| PC-RGB, Sync Level                   |                 |                                |                       |
| Audio In/Out                         |                 |                                |                       |
| 1 x Headphone Jack In                |                 | 2 x Headphone Jack Out         | 2 x Speaker Out       |

\* Optional accessories available

- Zero/Under/Over Scan
- Time Code
- Waveform/Vector Scope
- False Color
- 10bit Signal Processor
- UMD/IMD Mode
- AFD & V-CHIP(SDI Only)
- Remote Control via GPI(RJ-45) Port

- Freeze Frame
- 3G-SDI (Level A/B)
- PiP/PaP (Betweent SDI & HDMI Input)
- 3 Color TALLY Lamp
- H/V Delay, Blue/Mono, Pixel to Pixel
- Exposure Range Check
- Update/Control via RS-422 or Ethernet
- Copying the preset data to another monitor by USB memory

- Closed Caption (CEA-608/708)
- Various Markers
- R/G/B and Gray only Display
- Focus Assistance

## BSM-243N3G

BSM-243N3G, a 24" broadcast monitor with 3G SDI signals reproduces high quality pictures with a wide color range and smooth gradient.

| LCD                                  |                                |                                 |                       |
|--------------------------------------|--------------------------------|---------------------------------|-----------------------|
| Size                                 | 24"                            | Luminance of White              | 300 cd/m <sup>2</sup> |
| Resolution                           | 1920 x 1200                    | Contrast                        | 1000 : 1              |
| Pixel Pitch                          | 0,270 mm                       | Back Light                      | LED                   |
| Color                                | 6 + FRC 2bit                   | Display Area (H x V)            | 518.4 x 324.0 mm      |
| Viewing Angle                        | 178(H), 178(V)                 |                                 |                       |
| Input                                |                                |                                 |                       |
| 3G/HD/SD-SDI                         | Analog(YPbPr/CVBS/S-Video/RGB) | DVI-I, 24pin, Female            |                       |
| HDMI (with HDCP v.1.1), 19pin Female |                                | DVI-I to VGA Jack (with gender) |                       |
| Output                               |                                |                                 |                       |
| SDI-1/2 Active Loop Output           | Analog(YPbPr/CVBS/S-Video/RGB) |                                 |                       |
| Input Signal Format                  |                                |                                 |                       |
| SMPTE 260M                           | SMPTE 125M/259M                | ITU R-BT.656                    | Composite             |
| Component, VGA                       | DVI Signal                     | HDMI Digital                    | SMPTE 425M AB         |
| 2K, SMPTE 428M                       | SMPTE 274M/292M                | SMPTE 296M                      |                       |
| Analog Input Level                   |                                |                                 |                       |
| Composite                            | YC(S-Video)                    | Component(Y/Pb/Pr)              | Component (R/G/B)     |
| PC-RGB, Sync Level                   |                                |                                 |                       |
| Audio In/Out                         |                                |                                 |                       |
| 1 x Headphone Jack In                | 2 x Headphone Jack Out         | 2 x Speaker Out                 |                       |

\* Optional accessories available

- Waveform/Vector Scope
- Time Code
- 10bit Signal Processor
- False Color
- AFD & V-CHIP(SDI Only)
- UMD/IMD Mode
- Closed Caption (CEA-608/708)
- 3 Color TALLY Lamp
- Freeze Frame
- R/G/B and Gray only Display
- Various Markers
- Focus Assistance
- Remote Control via GPI(RJ-45) Port
- 3G-SDI (Level A/B)

## BSM Series BSM-243N3G



- PiP/PaP (Between SDI & HDMI Input)
- H/V Delay, Blue/Mono, Pixel to Pixel
- Exposure Range Check
- Update/Control via RS-422 or Ethernet
- Zero/Under/Over Scan
- R/G/B and White Internal Patterns Display
- Copying the preset data to another monitor by USB memory

# BSM Series BSM-463N3G

BSM-463N3G, a 46" broadcast monitor with 3G SDI signals reproduces high quality pictures with a wide color range and smooth gradient.



- Various Markers
- Waveform/ Vector Scope
- 10-bit Signal Processor
- Supporting 3G-SDI (Level A/B)
- AFD & V-CHIP display (SDI Only)
- Remote Control via GPI(RJ-45) Port
- Copying the preset data to another monitor by USB memory
- Time Code Display
- Focus Assistance
- Control/Update via Ethernet/RS-422
- H/V Delay, Blue/Mono, Pixel to Pixel
- Firmware Update via USB Memory
- PiP, PaP(Between analog and digital input)

## BSM-463N3G

| LCD                                  |                                |                                 |                       |
|--------------------------------------|--------------------------------|---------------------------------|-----------------------|
| Size                                 | 46"                            | Color                           | 6 + FRC 2bit          |
| Resolution                           | 1920 x 1080                    | Luminance of White              | 500 cd/m <sup>2</sup> |
| Pixel Pitch                          | 0.53 mm                        | Back Light                      | LED                   |
| Viewing Angle                        | 178(H), 178(V)                 | Display Area (H x V)            | 1018.08 x 572.67 mm   |
| Contrast                             | 4000:1                         |                                 |                       |
| Input                                |                                |                                 |                       |
| 3G/HD/SD-SDI                         | Analog(YPbPr/CVBS/S-Video/RGB) | DVI-I, 24pin, Female            |                       |
| HDMI (with HDCP v.1.1), 19pin Female |                                | DVI-I to VGA Jack (with gender) |                       |
| Output                               |                                |                                 |                       |
| SDI-1/2 Active Loop Output           | Analog(YPbPr/CVBS/S-Video/RGB) |                                 |                       |
| Input Signal Format                  |                                |                                 |                       |
| SMPTE 260M                           | SMPTE 125M/259M                | ITU R-BT.656                    | Composite             |
| Component, VGA                       | DVI Signal                     | HDMI Digital                    | SMPTE 425M AB         |
| 2K, SMPTE 428M                       | SMPTE 274M/292M                | SMPTE 296M                      |                       |
| Analog Input Level                   |                                |                                 |                       |
| Composite                            | YC(S-Video)                    | Component(Y/Pb/Pr)              | Component (R/G/B)     |
| PC-RGB, Sync Level                   |                                |                                 |                       |
| Audio In/Out                         |                                |                                 |                       |
| 1 x Headphone Jack In                | 2 x Headphone Jack Out         | 2 x Speaker Out                 |                       |

\* Optional accessories available

- 3 Color TALLY Lamp
- Zero/Under/Over Scan
- UMD/IMD Mode Display
- Exposure Range Check
- False Color (SDI Only)
- Closed Caption(CEA-608/708)

## BXM-173T3G

Featuring a 17" Full-HD LED-backlit LCD panel with 10 bit of color depth, BXM-173T3G provides 12 bit signal processing and color space selectable Gamma selection.

| LCD           |                |                      |                       |
|---------------|----------------|----------------------|-----------------------|
| Size          | 17.3"          | Luminance of White   | 300 cd/m <sup>2</sup> |
| Resolution    | 1920 x 1080    | Contrast             | 800 : 1               |
| Pixel Pitch   | 0.199mm        | Back Light           | LED                   |
| Color         | 10bit          | Display Area (H x V) | 381.9 x 214.8 mm      |
| Viewing Angle | 178(H), 178(V) |                      |                       |

| Input                 |  |
|-----------------------|--|
| 3G/HD/SD-SDI          | Analog(YPbPr/CVBS/S-Video/RGB)               |
| DVI-I 24pin Female    | External Sync Black Burst & Tri-sync 1.0Vp-p |
| HDMI(with HDCP v.1.1) | 19pin Female                                 |

| Output                     |                                |
|----------------------------|--------------------------------|
| SDI-1/2 Active Loop Output | Analog(YPbPr/CVBS/S-Video/RGB) |
| External Sync              |                                |

| Analog Input       |             |                    |                   |
|--------------------|-------------|--------------------|-------------------|
| Composite          | YC(S-Video) | Component(Y/Pb/Pr) | Component (R/G/B) |
| PC-RGB, Sync Level |             |                    |                   |

| Input Signal Format |                 |                   |              |
|---------------------|-----------------|-------------------|--------------|
| SMPTE 425M AB       | SMPTE 372M      | SMPTE 274M / 292M | SMPTE 296M   |
| SMPTE 260M          | SMPTE 125M/259M | 2K, SMPTE 428M    | ITU R-BT.656 |
| HDMI DVI            |                 |                   |              |

| Audio In / Out        |                        |                 |
|-----------------------|------------------------|-----------------|
| 1 x Headphone Jack In | 2 x Headphone Jack Out | 2 x Speaker Out |

\* Optional accessories available

- Time Code Display (ATC\_HD-SDI, DVITC\_SD-SDI, Except 3G Level B)
- Monitor Control/Update via Ethernet/RS-422
- I/P Conversion for Motion Response (Minimizing the delay)



10bit LCD

**BXM-173T3G**



- 12-bit Signal Processor
- False Color (SDI Only)
- Zero/Under/Over Scan
- Blending, PaP, PiP
- 3 Color Tally Lamp
- Waveform / Vector scope
- Closed Caption (CEA-608/708)
- Focus Assistance
- Exposure Range Check
- Freeze Frame
- Fast Motion Mode
- Supporting 3G-SDI (Level A/B)

# BXM Series

## BXM-243L3G



- Blue/Mono
- Pixel-to-Pixel View
- Zero/Under/Over Scan
- Exposure Range Check
- Waveform/Vector Scope
- 12bit Signal Processor
- AFD & V-CHIP(SDI Only)
- Focus Assistance
- Fast Motion Mode
- Closed Caption (CEA-608/708)
- Gen-Lock(video synchronization)
- I/P Conversion for Motion Response
- Remote Control via GPI(RJ-45) Port
- Update/Control via RS-422 or Ethernet

## BXM-243L3G

Featuring a 12 bit video processor, BXM-243L3G is a high-end broadcast monitor for professionals, providing crystal clear image for broadcast monitoring with the advanced broadcast features.

| LCD   |                        |                                |                       |
|---|------------------------|--------------------------------|-----------------------|
| Size  | 24"                    | Luminance of White             | 300 cd/m <sup>2</sup> |
| Resolution  | 1920 x 1200            | Contrast                       | 1000 : 1              |
| Pixel Pitch   | 0.270mm                | Back Light                     | LED                   |
| Color   | 6 + FRC 2bit           | Display Area (H x V)           | 518.4 x 324mm         |
| Viewing Angle   | 178(H), 178(V)         |                                |                       |
| Input   |                        |                                |                       |
| 3G/HD/SD-SDI Analog(YPbPr/CVBS/S-Video/RGB) DVH, 24pin, Female                      |                        |                                |                       |
| HDMI (with HDCP v.1.1), 19pin Female External Sync, Black Burst & Tri-sync, 1.0Vp-p |                        |                                |                       |
| Output  |                        |                                |                       |
| SDI-1/2 Active Loop Output  |                        | Analog(YPbPr/CVBS/S-Video/RGB) |                       |
| External Sync   |                        |                                |                       |
| Input Signal Format   |                        |                                |                       |
| SMPTE 425M AB   | SMPTE 372M             | SMPTE 274M/292M                | SMPTE 296M            |
| SMPTE 260M  | SMPTE 125M/259M        | 2K, SMPTE 428M                 |                       |
| ITU R-BT.656  | HDMI                   | DVI                            |                       |
| Analog Input Level  |                        |                                |                       |
| Composite   | YC(S-Video)            | Component(Y/Pb/Pr)             | Component (R/G/B)     |
| PC-RGB, Sync Level  |                        |                                |                       |
| Audio In/Out  |                        |                                |                       |
| 1 x Headphone Jack In   | 2 x Headphone Jack Out | 2 x Speaker Out                |                       |

\* Optional accessories available

- False Color
- Freeze Frame
- UMD/IMD Mode
- Various Markers
- 3 Color TALLY Lamp
- Blending, PaP, PiP
- 3G-SDI (Level A/B)
- Time Code

# BXM-323L3G

| LCD                                  |  |                      |                       |
|--------------------------------------|--|----------------------|-----------------------|
| Size                                 | 31.5"  | Luminance of White   | 350 cd/m <sup>2</sup> |
| Resolution                           | 1920 x 1080                                    | Contrast             | 3000 : 1              |
| Pixel Pitch                          | 0.36375mm                                      | Back Light           | LED                   |
| Color                                | 8bit   | Display Area (H x V) | 698.4 x 392.8mm       |
| Viewing Angle                        | 178(H), 178(V)                                 |                      |                       |
| Input                                |  |                      |                       |
| 3G/HD/SD-SDI                         | Analog(YPbPr/CVBS/S-Video/RGB)                 |                      |                       |
| HDMI (with HDCP v.1.1), 19pin Female | External Sync, Black Burst & Tri-sync, 1.0Vp-p |                      |                       |
| DVI, 24pin, Female                   | DVI to VGA Jack (with gender)                  |                      |                       |
| Output                               |  |                      |                       |
| SDI/1/2 Active Loop Output           | Analog(YPbPr/CVBS/S-Video/RGB)                 |                      |                       |
| External Sync                        |  |                      |                       |
| Input Signal Format                  |  |                      |                       |
| SMPTE 425M AB                        | SMPTE 372M                                     | SMPTE 274M/292M      | SMPTE 296M            |
| SMPTE 260M                           | SMPTE 125M/259M                                | 2K, SMPTE 428M       |                       |
| ITU R-BT.656                         | HDMI   | DVI                  |                       |
| Analog Input Level                   |  |                      |                       |
| Composite                            | YC(S-Video)                                    | Component(Y/Pb/Pr)   | Component(R/G/B)      |
| PC-RGB, Sync Level                   |  |                      |                       |
| Audio In/Out                         |  |                      |                       |
| 1 x Headphone Jack In                | 2 x Headphone Jack Out                         | 2 x Speaker Out      |                       |

\* Optional accessories available

- 12bit Signal Processor
- 3 Color TALLY Lamp
- 3G-SDI (Level A/B)
- AFD & V-CHIP(SDI Only)
- Blending, PaP, PiP
- Firmware Update via USB Memory

- Closed Caption (CEA-608/708)
- Exposure Range Check
- False Color
- Fast Motion Mode
- Blue/Mono

- Update/Control via RS-422 or Ethernet
- Gen-Lock(video synchronization)
- H/V Delay
- I/P Conversion for Motion Response
- Pixel-to-Pixel View
- Remote Control via GPI(RJ-45) Port

- Time Code
- UMD/IMD Mode
- Focus Assistance
- Various Markers
- Waveform/Vector Scope
- Zero/Under/Over Scan
- Freeze Frame

# BXM Series BXM-323L3G

BXM-323L3G is a high-end broadcast monitor for professionals with 12 bit video processing. Its 32" screen provides a large, comfortable monitoring area for the user, with the advanced video monitoring features.



# Quad Series

## BQM-170LS



## BQM-170LS

Rack-mountable BQM-170LS splits and displays 4 different video inputs (user selectable), offering color accuracy and sharp color contrast with its full HD resolution.



|                     |                 |                      |                       |
|---------------------|-----------------|----------------------|-----------------------|
| LCD                 |                 |                      |                       |
| Size                | 17.3"           | Color                | 6 + FRC 2bit          |
| Resolution          | 1920 x 1080     | Luminance of White   | 400 cd/m <sup>2</sup> |
| Pixel Pitch         | 0.199 x 0.199mm | Back Light           | LED                   |
| Viewing Angle       | 160(H), 140(V)  | Display Area (H x V) | 381.9 x 214.8 mm      |
| Contrast            | 600 : 1         |                      |                       |
| Input               |                 |                      |                       |
| SDI Input           | Analog Input    | DVI Input            | PC-RGB(DVI) Input     |
| HDMI Input          | S-Video Input   |                      |                       |
| Output              |                 |                      |                       |
| SDI Loop Output     |                 |                      |                       |
| Analog Input Level  |                 |                      |                       |
| Composite           | YC(S-Video)     | Component(Y/Pb/Pr)   |                       |
| Component (R/G/B)   |                 | PC-RGB, Sync Level   |                       |
| Input Signal Format |                 |                      |                       |
| SMPTE 274M/292M     | SMPTE 296M      | SMPTE 260M           | SMPTE 259M/125M       |
| 2K, SMPTE 428M      | ITU R-BT.656    | HDMI Digital         | DVI Digital Component |
| PC-RGB(DVI) Mode    |                 |                      |                       |
| Audio In/Out        |                 |                      |                       |
| 1 x Line In         | 1 x Line Out    | 2 x Speaker Out      |                       |

\* Optional accessories available

- Various Markers
- Pixel-to-Pixel View
- Waveform/Vectorscope
- 16Ch Audio Level(H/V)
- Various Input Signals
- Various Split Screens
- HD SDI Signal Reception
- 2 Assignable Function Keys
- Current Time Clock Display
- Closed Caption (CEA 608, 708)
- Advanced Video Analysis Features



# BQM-240LS

| LCD                 |                |                      |                       |
|---------------------|----------------|----------------------|-----------------------|
| Size                | 24"            | Luminance of White   | 400 cd/m <sup>2</sup> |
| Resolution          | 1920 x 1200    | Contrast             | 1000 : 1              |
| Pixel Pitch         | 0.270mm        | Back Light           | CCFL                  |
| Color               | 8bit           | Display Area (H x V) | 518.4 x 324.0 mm      |
| Viewing Angle       | 178(H), 178(V) |                      |                       |
| Input               |                |                      |                       |
| SDI Input           | Analog Input   | DVI Input            | PC-RGB(DVI) Input     |
| HDMI Input          | S-Video Input  |                      |                       |
| Output              |                |                      |                       |
| SDI Loop Output     |                |                      |                       |
| Analog Input Level  |                |                      |                       |
| Composite           | YC[S-Video]    | Component(Y/Pb/Pr)   |                       |
| Component (R/G/B)   |                | PC-RGB, Sync Level   |                       |
| Input Signal Format |                |                      |                       |
| SMPTE 274M/292M     | SMPTE 296M     | SMPTE 260M           | SMPTE 259M/125M       |
| 2K, SMPTE 428M      | ITU R-BT.656   | HDMI Digital         | DVI Digital           |
| Component           |                |                      |                       |
| PC-RGB(DVI) Mode    |                |                      |                       |
| Audio In/Out        |                |                      |                       |
| 1 x Line In         | 1 x Line Out   | 2 x Speaker Out      |                       |

\* Optional accessories available

- HD SDI Signal Reception
- 2 Assignable Function Keys
- Current Time Clock Display
- Closed Caption (CEA 608, 708)
- Advanced Video Analysis Features

- Various Markers
- Pixel-to-Pixel View
- Waveform/Vectorscope
- 16Ch Audio Level(H/V)
- Various Input Signals
- Various Split Screens

## Quad Series BQM-240LS

BQM-240LS splits and displays up to 4 different video inputs on the screen by user selectable input display.



# MONITOR MODEL GUIDE FOR CHOICE

| KEY FEATURE    | MODEL      | LCD   |            |             |               |                       |                | INPUT/OUTPUT |        |      |     |               | INPUT SIGNAL |              |
|----------------|------------|-------|------------|-------------|---------------|-----------------------|----------------|--------------|--------|------|-----|---------------|--------------|--------------|
|                |            | Size  | Resolution | Color Depth | Viewing Angle | Luminance             | Contrast Ratio | SDI          | Analog | HDMI | DVI | External Sync | SDI Input    | Analog Input |
| On Camera Type | FM-055F    | 5.5"  | 1920x1080  | 8bit        | 160/160       | 450cd/m <sup>2</sup>  | 1000:1         | 1/1          | -      | 1/1  | -   | -             | *1,*3        | -            |
|                | FM-0525C   | 5"    | 800x480    | 8bit        | 170/170       | 300cd/m <sup>2</sup>  | 600:1          | 1/1          | -      | 1/-  | -   | -             | *1,*3        | -            |
|                | FM-0735C   | 7"    | 1024x600   | 8bit        | 160/160       | 400cd/m <sup>2</sup>  | 900:1          | 2/1          | 3/-    | 1/1  | -   | -             | *1,*3        | *4,*5,*6     |
| BEM Series     | BEM-072    | 7"    | 1024x600   | 8bit        | 160/160       | 400cd/m <sup>2</sup>  | 900:1          | 1/1          | -      | 1/-  | -   | -             | *1,*3        | -            |
|                | BEM-182    | 18.5" | 1366x768   | 6+FRC 2bit  | 170/160       | 250cd/m <sup>2</sup>  | 100:1          | 1/1          | -      | 1/-  | -   | -             | *1,*3        | -            |
|                | BEM-212    | 21.5" | 1920x1080  | 8bit        | 178/178       | 250cd/m <sup>2</sup>  | 300:1          | 1/1          | -      | 1/-  | -   | -             | *1,*3        | -            |
|                | BEM-242    | 24"   | 1920x1080  | 8bit        | 178/178       | 250cd/m <sup>2</sup>  | 300:1          | 1/1          | -      | 1/-  | -   | -             | *1,*3        | -            |
| BSM i Series   | BSM-212i   | 21.5" | 1920x1080  | 8bit        | 178/178       | 250cd/m <sup>2</sup>  | 300:1          | 2/2          | 3/3    | 1/-  | 1/- | -             | *3           | *4,*5,*6     |
|                | BSM-242i   | 24"   | 1920x1080  | 8bit        | 178/178       | 250cd/m <sup>2</sup>  | 300:1          | 2/2          | 3/3    | 1/-  | 1/- | -             | *3           | *4,*5,*6     |
| BSM Series     | BSM-093N3G | 9"    | 960x540    | 8bit        | 170/170       | 400cd/m <sup>2</sup>  | 1000:1         | 2/2          | 3/3    | 1/-  | 1/- | -             | *1,*3        | *4,*5,*6     |
|                | BSM-173N3G | 17.3" | 1920x1080  | 6+FRC 2bit  | 160/140       | 400cd/m <sup>2</sup>  | 600:1          | 2/2          | 3/3    | 1/-  | 1/- | -             | *1,*3        | *4,*5,*6     |
|                | BSM-183N3G | 18.5" | 1366x768   | 6+FRC 2bit  | 170/160       | 250cd/m <sup>2</sup>  | 1000:1         | 2/2          | 3/3    | 1/-  | 1/- | -             | *1,*3        | *4,*5,*6     |
|                | BSM-213N3G | 21.5" | 1920x1080  | 6+FRC 2bit  | 178/178       | 250cd/m <sup>2</sup>  | 1000:1         | 2/2          | 3/3    | 1/-  | 1/- | -             | *1,*3        | *4,*5,*6     |
|                | BSM-243N3G | 24"   | 1920x1200  | 6+FRC 2bit  | 178/178       | 300cd/m <sup>2</sup>  | 1000:1         | 2/2          | 3/3    | 1/-  | 1/- | -             | *1,*3        | *4,*5,*6     |
|                | BSM-463N3G | 46"   | 1920x1080  | 6+FRC 2bit  | 178/178       | 500cd/m <sup>2</sup>  | 4000:1         | 2/2          | 3/3    | 1/-  | 1/- | -             | *1,*3        | *4,*5,*6     |
| BXM Series     | BXM-173T3G | 17"   | 1920x1080  | 10bit       | 178/178       | 300cd/m <sup>2</sup>  | 800:1          | 2/2          | 3/3    | 1/-  | 1/- | 1/1           | *1,*2,*3     | *4,*5,*6     |
|                | BXM-243L3G | 24"   | 1920x1200  | 6+FRC 2bit  | 178/178       | 300cd/m <sup>2</sup>  | 1000:1         | 2/2          | 3/3    | 1/-  | 1/- | 1/1           | *1,*2,*3     | *4,*5,*6     |
|                | BXM-323L3G | 31.5" | 1920x1080  | 8bit        | 178/178       | 350cd/m <sup>2</sup>  | 3000:1         | 2/2          | 3/3    | 1/-  | 1/- | 1/1           | *1,*2,*3     | *4,*5,*6     |
| OLED           | TXM-243T3G | 24.5" | 1920x1080  | 10bit       | 178/178       | 400cd/m <sup>2</sup>  | 5000:1         | 2/2          | 3/3    | 1/-  | 1/- | 1/1           | *1,*2,*3     | *4,*5,*6     |
| Super Bright   | BEM-072H   | 7"    | 1024x600   | 8bit        | 160/160       | 1100cd/m <sup>2</sup> | 900:1          | 1/1          | -      | 1/-  | -   | -             | *1,*3        | -            |
|                | FM-0735SCH | 7"    | 1024x600   | 8bit        | 160/160       | 1100cd/m <sup>2</sup> | 900:1          | 2/1          | 3/-    | 1/1  | -   | -             | *1,*3        | *4,*5,*6     |
|                | BSM-153H   | 15"   | 1024x768   | 8bit        | 160/160       | 1500cd/m <sup>2</sup> | 700:1          | 2/2          | 3/3    | 1/-  | 1/- | -             | *1,*3        | *4,*5,*6     |
|                | BSM-183H   | 18.5" | 1366x768   | 6+FRC 2bit  | 170/160       | 1200cd/m <sup>2</sup> | 1000:1         | 2/2          | 3/3    | 1/-  | 1/- | -             | *1,*3        | *4,*5,*6     |
|                | BSM-213H   | 21.5" | 1920x1080  | 8bit        | 178/178       | 1200cd/m <sup>2</sup> | 3000:1         | 2/2          | 3/3    | 1/-  | 1/- | -             | *1,*3        | *4,*5,*6     |
| Recordable     | RM-072S    | 7"    | 1024x600   | 8bit        | 160/160       | 400cd/m <sup>2</sup>  | 900:1          | 2/2          | 3/3    | 1/-  | 1/- | -             | *1,*3        | *4,*5,*6     |
|                | BXM-183R3G | 18.5" | 1366x768   | 8bit        | 178/178       | 250cd/m <sup>2</sup>  | 1000:1         | 2/2          | 3/3    | 1/-  | 1/- | 1/1           | *1,*2,*3     | *4,*5,*6     |
| Quad Series    | BQM-170LS  | 17.3" | 1920x1080  | 6+FRC 2bit  | 160/140       | 400cd/m <sup>2</sup>  | 600:1          | 4/4          | 3/-    | 1/-  | 1/- | -             | *3           | *4,*5,*6     |
|                | BQM-240LS  | 24"   | 1920x1200  | 8bit        | 178/178       | 400cd/m <sup>2</sup>  | 1000:1         | 4/4          | 3/-    | 1/-  | 1/- | -             | *3           | *4,*5,*6     |

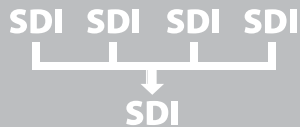
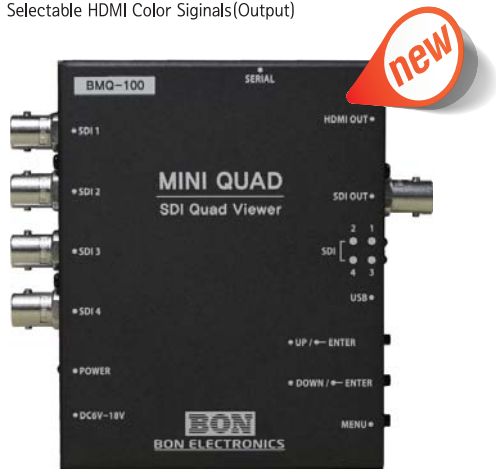
# Input Formats

|                      |                     |  |   |   |
|----------------------|---------------------|--|---|---|
| Input Signal Formats | SDI Input Signal    | *1                                       | SMPTE 425M AB                                 | Level A(MS1, MS2, MS3, MS4), Level B(MS1, MS2, MS3, MS4)                  |
|                      |                     | *2                                       | SMPTE 372M                                    | YCbCr(4:2:2), 1920x1080p(60,59.94,50)                                     |
|                      |                     |  | (Dual HD-SDI)                                 | YCbCr/RGB(4:4:4), 1920x1080i(60,59.94,50), 1920x1080p(30,29.97,24,23.98), |
|                      |                     | *3                                       | SMPTE 274M/292M                               | 1920x1080i(60,59.94,50), 1920x1080p(30,29.97,25,24,24sF,23.98,23.98sF)    |
|                      |                     |  | SMPTE 296M                                    | 1280x720p(60,59.94,50)  |
|                      |                     |  | SMPTE 260M                                    | 1920x1035i(60,59.94)  |
|                      |                     |  | SMPTE 125M/259M                               | 720x480i(60,59.94), 720x576i(50)  |
|                      | ITU-R BT.656        | 720x576i(50)                             |   |   |
|                      | 2K Format           | 2048x1080p(24,24sF,23.98,23.98sF)        |   |   |
|                      | Analog Input Signal | *4                                       | YC(S-Video)                                   | Y:1.0Vp-p, C:0.286Vp-p  |
| *5                   |                     | Composite                                | 1.0Vp-p(with sync), NTSC/PAL                  |   |
| *6                   |                     | Component(Y/Pb/Pr)                       | Y:1.0Vp-p, Pb:0.7Vp-p, Pr:0.7Vp-p             |   |
|                      |                     | Component(R/G/B)                         | G :1.0Vp-p(with Sync), B :0.7Vp-p, R :0.7Vp-p |   |
|                      | PC-RGB Sync Level   | R, G, B : 0.7Vp-p, H/V Sync : 4V ± 1Vp-p |   |   |

# Quad Converter BMQ-100

Closed Caption On/Off  
Single/Quad View Switching  
'Channel 1 Audio Only' Button  
PC Software to Control Device  
Dip Switches to Select Function  
Selectable HDMI Color Signals(Output)

Time Code  
Input Label Naming  
Audio Level Meters  
Audio Tone Generator  
Output Format Changer



## BMQ-100

A mini quad-viewer, BMQ-100 takes 4 SDI inputs from different sources and combines them into one SDI or HDMI output.

|                       |  |
|-----------------------|--|
| <b>Input</b>          |  |
| 4 x BNC               | 3G/HD/SD-SDI   |
| <b>Output</b>         |  |
| 1 x BNC               | 3G/HD/SD-SDI   |
| 1 x HDMI              | HDMI, (with HDCP v.1.3), 19pin Female  |
| <b>Video Formats</b>  |  |
| SMPTE 425M AB         | Level A MS1  |
| 2K, SMPTE 428M        | 2048*1080i,24p/psf,23.98p/psf  |
| SMPTE 274M/292M       | 1920*1080i (60, 59.94, 50)<br>1920*1080p (30, 29.97, 25, 24, 24sF, 23.98, 23.98sF) |
| SMPTE 296M            | 1280*720p/60,59.94,50  |
| SMPTE 260M            | 1920*1035i/60,59.94  |
| SMPTE 125M/259M       | 720*480i/60,59.94, 720*576i/50   |
| ITU R-BT.656          | 576i(50)   |
| <b>General</b>        |  |
| 2 x Mini USB          | Firmware update / Remote control   |
| Dip Switch            | 8  |
| Power Requirements    | DC (6V~18V)  |
| Power Consumption     | 12W  |
| Operating Temperature | -10°C ~ 40°C (14°F ~104°F)   |
| Operating Humidity    | 20% ~ 80% RH   |
| Weight                | 260g(0.57lbs)  |
| Dimensions(WxHxD)     | 86 x 109 x 22mm (3.4 x 4.3 x 0.8 inches)   |
| Accessories           | • Adaptor(12V/2A)  |

## Audio Level Meter / Time Code Waveform / Vector Scope

# Converter BC-100SH / BC-100HS

BC-100SH is a SDI-to-HDMI converter with the advanced monitoring features such as waveform/vectorscope, audio level display, video/audio pattern generator and more.

|               |  | BC-100SH   |                                       | BC-100HS     |                                       |
|---------------|--|--|---------------------------------------|--------------|---------------------------------------|
| Input         |  | 1 x BNC  | 3G/HD/SD-SDI                          | 1 x HDMI     | HDMI, (with HDCP v.1.1), 19pin Female |
| Output        |  | 1 x BNC  | SDI Loop-Through                      | 1 x Audio In | Audio Input Port (Stereo 3.5 pi)      |
|               |  | 1 x HDMI   | HDMI, (with HDCP v.1.1), 19pin Female | 2 x SDI      | BNC Port                              |
| Video Formats | HD   | 1920x1080 60p/59.94p/50p<br>1920x1080 60i, 59.94i, 50i, 30p, 29.97p, 25p, 24p, 23.98p<br>1280x720 60p, 59.94p, 50p |                                       |              |                                       |
|               | SD   | NTSC, PAL  |                                       |              |                                       |
| General       | 1x mini USB  | for Firmware Update  |                                       |              |                                       |
|               | 2x LED   | Power/Battery, Signal Lock   |                                       |              |                                       |
|               | 2 x Rotary Switch  | Function, Mode Change  |                                       |              |                                       |
|               | 1 x Tact Switch  | Selection Switch   |                                       |              |                                       |
|               | Power Requirement  | 4DC (7V~24V) or AC Adapter(100 ~ 230V, 50Hz/60Hz)  |                                       |              |                                       |
|               | Power Consumption  | 6W   |                                       |              |                                       |
|               | Operation Temperature  | -10°C ~ 40°C (14°F ~ 104°F)  |                                       |              |                                       |
|               | Operation Humidity   | 20% ~ 80% RH   |                                       |              |                                       |
|               | Dimensions(WxHxD)  | Main Body : 84 x 117.2 x 34.5(mm) / 3.3 x 4.6 x 1.3 (inch)   |                                       |              |                                       |
|               | Accessories  | Power Cable, Manual CD, AC Adapter   |                                       |              |                                       |
| Options       | D-Tap Power Cable, Pouch & Bag, DV Battery Mount, Tripod Support, 1RU Rack Mount Kit(x3) |  |                                       |              |                                       |

### SDI-to-HDMI



**BC-100SH**

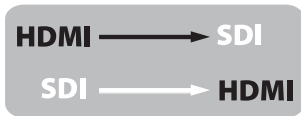
### HDMI-to-SDI



**BC-100HS**

# 1xSDI in, 1xSDI out, 1xHDMI out

An affordable and reliable mini converter with convenience.



**BC-200SH**

SDI to HDMI Converter

**BC-200HS**

HDMI to SDI Converter

# SDI-to-HDMI, HDMI-to-SDI

Converts with scaling & Closed caption display.

1xSDI in, 1xSDI out, 1xHDMI out



**BC-300SH**

SDI to HDMI Converter

**BC-300HS**

HDMI to SDI Converter

# Transmitting up to 300m

## BW-300STV

| Input                 |   |
|-----------------------|---|
| 1 x SDI               | 3G/HD/SD-SDI  |
| 1 x HDMI              | HDMI, (with HDCP v.1.1), 19pin Female                         |
| Audio Input           |   |
| 1 x Phone Jack In     | 3.5mm TRS, Line Level Input                                   |
| Video Formats         |   |
| HD                    | 1920 x 1080 (60p, 59.94p, 50p)                                |
|                       | 1920 x 1080 (60i, 59.94i, 50i, 30p, 29.97p, 25p, 24p, 23.98p) |
|                       | 1920 x 1080 (30psf, 29.97psf, 25psf, 23.98psf)                |
|                       | 1280 x 720 (60p, 59.94p, 50p)                                 |
| SD                    | NTSC, PAL   |
| Output                |   |
| 1 x SDI               | SDI Active Loop Output  |
| Radio                 |   |
| Frequency             | U-NII-1(5.15~5.25 GHz), U-NII-3(5.725~5.85 GHz)               |
| Transmission Power    | TBD   |
| Transmission Distance | up to 300m(1,000 ft)  |
| Latency               | 150ms   |
| Encoding/Decoding     | H.264 Base Profile @4.2                                       |
| Multiple Receivers    | up to 4   |
| General               |   |
| Battery               | DV-Mount(Sony F-Type), V-Mount                                |
| Weight                | 700g (1.5 lbs)  |
| Dimensions            | Less than 152 x 90 x 42 mm (5.9 x 3.5 x 1.6 inch)             |

## BW-300SRV

| Output     |   |
|------------|---|
| 1 x SDI    | 3G/HD/SD-SDI                                      |
| 1 x HDMI   | HDMI Out  |
| General    |   |
| Battery    | DV-Mount(Sony F Type), V-Mount                    |
| Weight     | 700g (1.54 lbs)                                   |
| Dimensions | Less than 152 x 90 x 42 mm (5.9 x 3.5 x 1.6 inch) |

\* Specifications may be changed without notice.

**Coming Soon**

# Wireless HD BW-300SV

Transmitting up to 300m (1,000ft) with 150ms latency, BON's wireless transmitter/receiver system, BW-300SV is a pair of HDMI wireless transmitter and receiver using H.264 Codec, suitable for the use in film/studio production industries.



(Transmitter)

(Receiver)

# BW-100MT / 100MR

# Wireless HD



**BW-100MT**  
(Transmitter)

**BW-100MR**  
(Receiver)

## BW-100MR (Receiver)

|                       |  |
|-----------------------|--|
| <b>Input</b>          |  |
| 1 x HDMI              | HDMI Out   |
| <b>General</b>        |  |
| 1 x IR                | Remote Control Unit                              |
| 1 x mini USB          | Firmware Update                                  |
| 2 x LED               | Power, Link                                      |
| 1 x Switch            | Power  |
| Battery               | DV-Mount   |
| Power Requirements    | DC (7V~17V) or AC Adaptor(100 ~ 230V, 50Hz/60Hz) |
| Operating Temperature | 0°C ~ 40°C (32°F ~104°F)                         |
| Operating Humidity    | 20% ~ 80% RH                                     |
| Weight                | 470g(1.03lbs)                                    |
| Dimension             | 127.5 x 90 x 26.6 mm (5.0 x 3.5 x 1.0 inch)      |

BW-100M is a pair of HDMI wireless transmitter and receiver using H.264 Codec, suitable for the use in film/studio production industries.

## BW-100MT (Transmitter)

|                       |  |
|-----------------------|--|
| <b>Input</b>          |  |
| 1 x HDMI              | HDMI (with HDCP 1.1)   |
| <b>Video Formats</b>  |  |
| HD                    | 1080p (60/59.94/50/29.97/25/24/23.98Hz),<br>1080i (60/59.94/50Hz), 720p(60/59.94/50Hz) |
| <b>Radio</b>          |  |
| Frequency             | U-NII-1(5.15~5.25 GHz), U-NII-3(5.725~5.85 GHz)  |
| Transmission Power    | 20mW(13.5dBm)  |
| Transmission Distance | 150m(500 feet), 500m(1600 feet, with special antenna)                                  |
| Latency               | 20ms   |
| Modulation            | IEEE 802.11 a/n : OFDM   |
| Encoding/Decoding     | H.264 Base Profile @4.2  |
| Antenna               | 2T x 2R  |
| Security              | 802.11i compatible signal protection by 128bit AES encryption                          |
| Multiple Receivers    | up to 3. (Maximum distance may decrease due to signal division)                        |
| <b>General</b>        |  |
| 1 x mini USB          | Firmware Update  |
| 2 x LED               | Power, Link (Connection)   |
| 2 x Switch            | Pairing, Power   |
| Battery               | DV-Mount   |
| Power Requirements    | DC (7V~17V) or AC Adaptor(100 ~ 230V, 50Hz/60Hz)                                       |
| Operating Temperature | 0°C ~ 40°C (32°F ~104°F)   |
| Operating Humidity    | 20% ~ 80% RH   |
| Weight                | 470g(1.03lbs)  |
| Dimension             | 127.5 x 90 x 26.6 mm (5.0 x 3.5 x 1.0 inch)  |



BW-100ST/BW-100SR is a pair of HDMI & HD-SDI wireless transmitter and receiver using H,264 Codec, suitable for the use in film/studio production industries.

#### BW-100ST (Transmitter)

|                       |   |
|-----------------------|---|
| <b>Input</b>          |   |
| 1 x BNC               | 3G/HD/SD-SDI  |
| 1 x HDMI              | HDMI, (with HDCP v.1.1), 19pin Female                           |
| <b>Audio Input</b>    |   |
| 1 x Phone Jack In     | 3.5mm TRS, Line Level Input                                     |
| <b>Radio</b>          |   |
| HD                    | 1920 x 1080 (60p, 59.94p, 50p)                                  |
|                       | 1920 x 1080 (60i, 59.94i, 50i, 30p, 29.97p, 25p, 24p, 23.98p)   |
|                       | 1920 x 1080 (30psf, 29.97psf, 25psf)                            |
|                       | 1280 x 720 (60p, 59.94p, 50p)                                   |
| SD                    | NTSC, PAL   |
| <b>Radio</b>          |   |
| Frequency             | U-NII-1(5.15~5.25 GHz), U-NII-3(5.725~5.85 GHz)                 |
| Transmission Power    | 20mW(13.5dBm)   |
| Transmission Distance | 150m(500 feet), 500m(1600 feet, with special antenna)           |
| Latency               | 20ms  |
| Encoding/Decoding     | H.264 Base Profile @4.2   |
| Antenna               | 2T x 2R SMA Female  |
| Security              | 802.11i compatible signal protection by 128bit AES encryption   |
| Multiple Receivers    | up to 3. (Maximum distance may decrease due to signal division) |
| <b>General</b>        |   |
| 1 x GPIO              | GPI-7 Port, RJ-45P Jack   |
| 2 x mini_USB          | F/W Update ( MAIN , MICOM)                                      |
| 4 x LED               | Power, Link, Battery, Tally                                     |
| 4 x Switch            | Reset, Pairing, Input Selection, Power                          |
| Battery               | V-Mount, DV-Mount   |
| Power Requirements    | DC (7V~17V) or AC Adaptor(100 ~ 230V, 50Hz/60Hz)                |
| Power Consumption     | 10W   |
| Operating Temperature | -10°C ~ 40°C (14°F ~104°F)                                      |
| Operating Humidity    | 20% ~ 80% RH  |
| Weight                | 870g(1.92lbs)   |
| Dimension             | 152.2 x 90.0 x 42.2 mm (5.9 x 3.5 x 1.6 inch)                   |
| Multiple Receivers    | up to 4. (Maximum distance may decrease due to signal division) |

# Wireless HD BW-100ST / 100SR



BW-100ST  
(Transmitter)



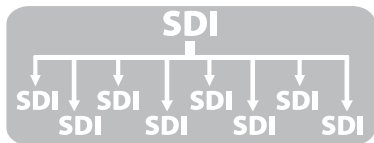
BW-100SR  
(Receiver)

#### BW-100SR (Receiver)

|                       |  |
|-----------------------|--|
| <b>Input</b>          |  |
| 2 x BNC               | 3G/HD/SD-SDI                                     |
| 1 x HDMI              | HDMI Out   |
| <b>General</b>        |  |
| 1 x IR                | Remote Control Unit                              |
| 1 x GPIO              | GPI-7 Port, RJ-45P Jack                          |
| 1 x mini USB          | for Firmware Update                              |
| 4 x LED               | Power, Link, Battery, Tally                      |
| Battery               | V-Mount, DV-Mount                                |
| Power Requirements    | DC (7V~17V) or AC Adaptor(100 ~ 230V, 50Hz/60Hz) |
| Power Consumption     | 9W   |
| Operating Temperature | -10°C ~ 40°C (14°F ~104°F)                       |
| Operating Humidity    | 20% ~ 80% RH                                     |
| Weight                | 870g   |
| Dimension             | 152.2 x 90.0 x 42.2 mm (5.9 x 3.5 x 1.6 inch)    |

# SDI Splitter

## BDA-HD108S



### BDA-HD108S

BDA-108S is a 1-to-8 SDI distributor which accepts 3G/HD/SD SDI signals, carrying SDI signals and the formats while maintaining the quality of the picture.



#### Input

1 x BNC 3G/HD/SD-SDI

#### Output

8 x BNC 3G/HD/SD-SDI, Distributed SDI Output

#### Radio

|                 |  |
|-----------------|--|
| SMPTE 425M AB   | Level A MS1, MS2, MS3, MS4                           |
|                 | Level B MS1, MS2, MS3, MS4                           |
| SMPTE 372M      | Dual HD-SDI YCbCr (4:2:2), 1080p                     |
|                 | Dual HD-SDI YCbCr/RGB (4:4:4), 1080i, 1080p, 720p    |
| 2K, SMPTE 428M  | 2048*1080, 24p/psf, 23.98p/psf                       |
| SMPTE 274M/292M | 1920*1080i (60, 59.94, 50)                           |
|                 | 1920*1080p (30, 29.97, 25, 24, 24sF, 23.98, 23.98sF) |
| SMPTE 296M      | 1280*720p/60, 59.94, 50                              |
| SMPTE 260M      | 1920*1035i/60, 59.94                                 |
| SMPTE 125M/259M | 720*480i/60, 59.94, 720*576i/50                      |

#### General

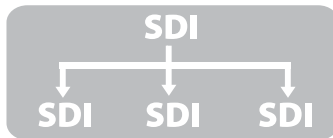
|                       |  |
|-----------------------|--|
| Power Requirements    | AC Adaptor(100 ~ 230V, 50Hz/60Hz) - 5V/1A                        |
| Power Consumption     | 3W   |
| Operating Temperature | 0°C ~ 40°C (32°F~104°F)  |
| Operating Humidity    | 20% ~ 80% RH   |
| Dimensions(WxHxD)     | Main Body : 73.0 x 90.0 x 20.0(mm) / 2.87 x 3.54 x 0.78 (inches) |
| Accessories           | • AC Adaptor • AC Power Cord • SET Bracket                       |

## BDA-HD103S

BDA-103S is a 1-to-3 SDI distributor which accepts 3G/HD/SD SDI signals, carrying SDI signals and the formats while maintaining the quality of the pictures.

|                       |   |
|-----------------------|---|
| <b>Input</b>          |   |
| 1 x BNC               | 3G/HD/SD-SDI  |
| <b>Output</b>         |   |
| 3 x BNC               | 3G/HD/SD-SDI, Distributed SDI Output  |
| <b>Radio</b>          |   |
| SMPTE 425M AB         | Level A MS1, MS2, MS3, MS4<br>Level B MS1, MS2, MS3, MS4                              |
| SMPTE 372M            | Dual HD-SDI YCbCr (4:2:2), 1080p<br>Dual HD-SDI YCbCr/RGB (4:4:4), 1080i, 1080p, 720p |
| 2K, SMPTE 428M        | 2048*1080,24p/psf,23.98p/psf  |
| SMPTE 274M/292M       | 1920*1080i (60, 59.94, 50)<br>1920*1080p (30, 29.97, 25, 24, 24sF, 23.98, 23.98sF)    |
| SMPTE 296M            | 1280*720p/60,59.94,50   |
| SMPTE 260M            | 1920*1035i/60,59.94   |
| SMPTE 125M/259M       | 720*480i/60,59.94, 720*576i/50  |
| <b>General</b>        |   |
| Power Requirements    | AC Adaptor(100 ~ 230V, 50Hz/60Hz) - 5V/1A   |
| Power Consumption     | 2.7W  |
| Operating Temperature | 0°C ~ 40°C (32°F~104°F)   |
| Operating Humidity    | 20% ~ 80% RH  |
| Dimensions(WxHxD)     | Main Body : 54.8 x 59.0 x 20.0(mm)  |
| Accessories           | • AC Adaptor • AC Power Cord • SET Bracket  |

# SDI Splitter BDA-HD103S



# HDMI-Routing Switchers

## BRS-HD1010M

### 10xHDMI in, 10x HDMI out

routes HDMI signals with accurate color reproduction



## BRS-HD1010M

Featuring 1RU rack-mountable size, BRS-HD1010M offers 10 SDI input & output ports with the reliable and long-lasting SDI re-clocking feature.

|                     |   |
|---------------------|---|
| Input               |   |
| 10 x HDMI           | HDMI 1.4a (with HDCP v.1.3), 19pin Female |
| Output              |   |
| 10 x HDMI           | HDMI 1.4a (with HDCP v.1.3), 19pin Female |
| Input Signal Format |   |
| HDMI Digital        | ~ 1080p(60)                               |

|                       |  |
|-----------------------|--|
| General               |  |
| 1 x Rotary            | for setting the machine address of the unit, 16 kinds of address |
| 1 x Ethernet          | Control/Update, GPI-7 Port, RJ-45P Jack                          |
| 2 x Serial            | RS-422, RJ-11P Jack  |
| 1 x USB               | for firmware update  |
| Power Requirements    | AC100-230V(50/60Hz)  |
| Power Consumption     | 60W  |
| Operating Temperature | 0°C ~ 40°C (32°F~104°F)  |
| Operating Humidity    | 20% ~ 80% RH   |
| Weight                | TBD  |
| Dimensions(WxHxD)     | 440 X 180 X 44 mm(17.3 x 7.1 x 1.7 inches)                       |
| Accessories           | • Power Cable • Manual   |
| Option                | TBD  |

# SDI-Routing Switchers

## BRS-HD1616S

### 16xSDI in, 16xSDI out

routes SDI signals without jitter for 24-hour reliability



### BRS-HD1616S

Featuring 1RU rack-mountable size, BRS-HD1616S offers 16 SDI input & output ports with the reliable and long-lasting SDI re-clocking feature.

| Input               |  |
|---------------------|--|
| 16 x BNC            | 3G/HD/SD-SDI   |
| 1 x BNC             | External Sync, Black Burst & Tri-sync, 1.0Vp-p                                     |
| Output              |  |
| 16 x BNC            | 3G/HD/SD-SDI, Selected SDI Output  |
| Input Signal Format |  |
| SMPTE 425M AB       | Level A MS1, MS2, MS3, MS4, Level B MS1, MS2, MS3, MS4                             |
| 2K, SMPTE 428M      | 2048*1080,24p/psf,23.98p/psf   |
| SMPTE 274M/292M     | 1920*1080i (60, 59.94, 50)<br>1920*1080p (30, 29.97, 25, 24, 24sF, 23.98, 23.98sF) |
| SMPTE 296M          | 1280*720p/60,59.94,50  |
| SMPTE 260M          | 1920*1035i/60,59.94  |
| SMPTE 125M/259M     | 720*480i/60,59.94, 720*576i/50   |

| General               |  |
|-----------------------|--|
| 1 x Rotary            | for setting the machine address of the unit (1~16) |
| 1 x Ethernet          | Control/Update, GPI-7 Port, RJ-45P Jack            |
| 2 x Serial            | RS-422, RJ-11P Jack                                |
| 1 x USB               | for firmware update                                |
| Power Requirements    | AC Adapter 100-230V(50/60Hz)                       |
| Power Consumption     | 31W  |
| Operating Temperature | 0°C ~ 40°C (32°F~104°F)                            |
| Operating Humidity    | 20% ~ 80% RH                                       |
| Weight                | 2.7kg(5.95lbs)                                     |
| Dimension(WxHxD)      | 440.0 x 326.5 x 44.0 mm                            |
| Accessories           | • Power Cable • Manual                             |

The logo for BON Electronics, featuring the word "BON" in a bold, white, sans-serif font with horizontal lines through the letters, set against a red rectangular background.

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## **ABOUT BON...**

Since its foundation in 1986 in Seoul, Korea, BON Electronics has specialized in developing and manufacturing multi-format broadcast monitors, total broadcasting system, wireless system and other multimedia products to meet the need of the current multimedia and professional video market.

The primary goal of BON Electronics is provide the support to today's professionals in cooperation with BON's partners worldwide, by matching the best and the latest technology to the creative and budgetary objectives of the customers.

BON Electronics has done its best to occupy the front runner's position in global market and it will now strive to maintain that position for the decades to come.

Thank you.



# BON Monitors



FM-055F

**5.5"**  
**Field Monitor**  
**Full HD**  
**(1920x1080)**



FM-055F

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