Operating Instructions

Broadcasting Monitor User guide

ViewZ

Monitor Operation Manual V1.1

OBM-050-TBBSV

OBM-056-TBBSV

OBM-070-TBBSV

OBM-097-TSBSV

OBM-185-TSBSV

OBM-215-TSBSV

OBM-240-TSBSV

3G

Contents

Getting Started

Connections

MENU Features

Other Information

Caution

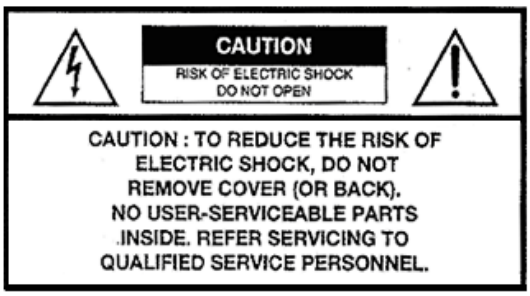
Caution

It is highly recommended to read and understand the cautions listed below thoroughly before you start using the product. And if you are unclear with any parts of the cautions or have questions, please contact us.

- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- WARNING – TO PREVENT FIRE OR SHOCK HAZARD DO NOT EXPOSE THE SET TO RAIN OR MOISTURE.
- "IMPORTANT SAFETY INSTRUCTIONS"
  - Read these instructions
  - Keep these instructions
  - Heed all warnings
  - Follow all instructions
  - Do not use this apparatus near water
  - Clean only with a dry cloth
  - Do not block any of the ventilation openings. Install in accordance with he manufacturer's instructions
  - Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
  - Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet
  - Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus
  - Only use the attachments/accessories specified by the manufacturer.
  - Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

  - Unplug this apparatus during lightning storms or when unused for long periods of time
  - Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
  - the apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus
  - Shall be connected to a MAINS socket outlet with a protective earthing Connection
  - the disconnect device shall remain readily operable
  - The socket-outlet shall be installed near the equipment and shall be easily accessible

- Explanation of Safety Related Symbols



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

- Manual contents are subject to change without notice

Product Factures

Product features

Waveform Displays the lume (Y") and Chroma (Cb/Cr) components of the input video signal as a form of waves.

Vectorscope Displays an X-Y plot of two signal, which can reveal details about the relationship between two signals.

16ch 16Channel, De-Embedded Audio Selected Out.

1:1 Pixel 1:1 pixel mode displays the original image resolution without scaling to match a certain resolution or an aspect ratio.

H/V Delay View the blanking area and syncronize signals by displaying the horizontal and vertical intervals in the center of the screen.

Screen Color Mode Blue, Red, Green and Mono **Programable Function key** Source Alias Text Edit

IPS LCD Panel Wide view Angle **Maximum Brightness** **RJ-45 Remote Control**

Tally Lamp Red, Green Support & UMD Tally Support

Marker 4:3, 14:9, 15:9 and 16:9 area, line, safety, center markers display

UMD This monitor supports UMD(Under Monitor Display) function which displays Ancillary data at the bottom of the screen.

ZOOM Select extension where you want to zoom(left or right).

Jog Dial Switch Select an image of input signal & control on/off & switch to full screen.

Converter Solution

1 SDI to HDMI
2 SDI to SDI
3 HDMI to SDI
4 HDMI to HDMI
5 YPBPR to SDI
6 YPBPR to HDMI
7 CVBS to SDI
8 CVBS to HDMI
9 DSUB to SDI
10 DSUB to HDMI

● **Complete**
○ **ing**
- **Not support**

Monitor Display

SDI Output Source	SDI_A	SDI_B	HDMI	YPBPR	DSUB	CVBS
SDI_A	●	●	●	●	●	●
SDI_B	●	●	●	●	●	●
HDMI	●	●	●	-	-	●
YPBPR	○	○	-	○	-	-
DSUB	○	○	-	-	○	○
CVBS	○	○	○	-	○	○

▶ HDMI and DSUB VIDEO MODE ONLY

Monitor Display

HDMI Output Source	SDI_A	SDI_B	HDMI	YPBPR	DSUB	CVBS
SDI_A	●	●	●	●	●	●
SDI_B	●	●	●	●	●	●
HDMI	●	●	●	-	-	●
YPBPR	○	○	-	○	-	-
DSUB	○	○	-	-	○	○
CVBS	○	○	○	-	○	○
Display	●	●	●	●	●	●

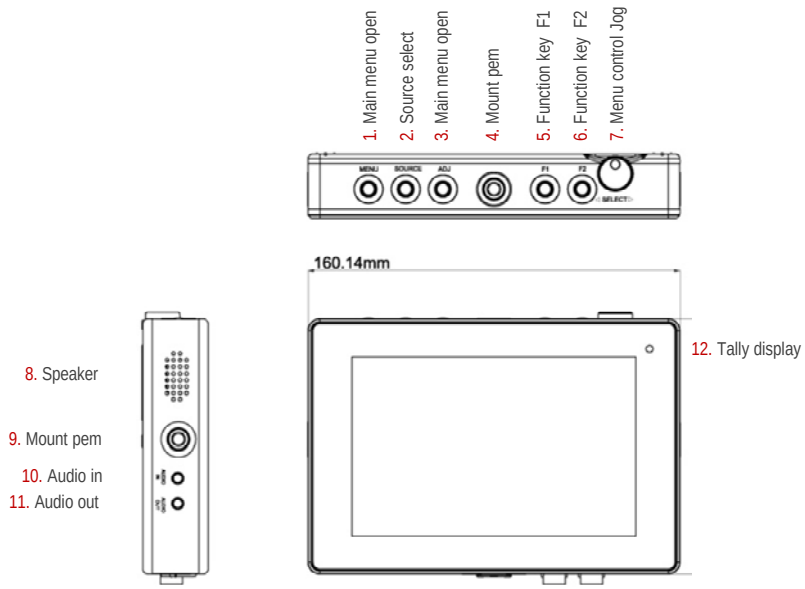
Viewing the Control Panel

monitor info

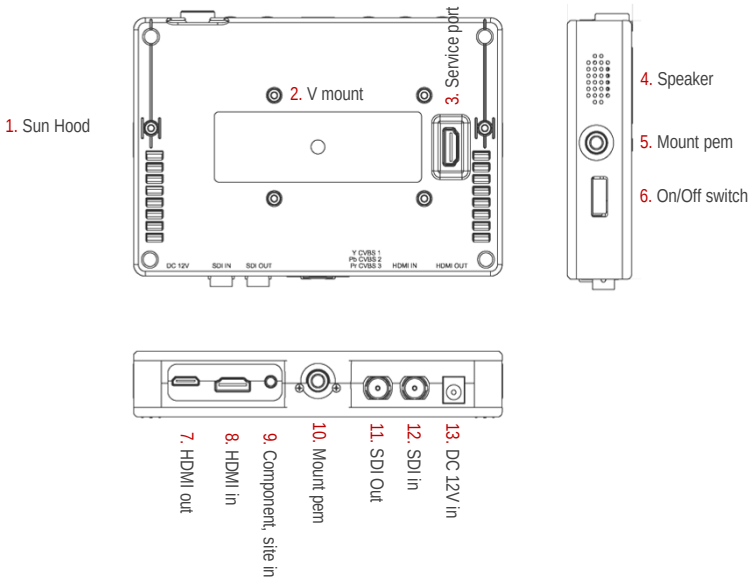
OBM-056-XXXXX

monitor 160.4 x 113.9 (mm) **Stand** 160.4 x 113.9 (mm)

Front



Rear



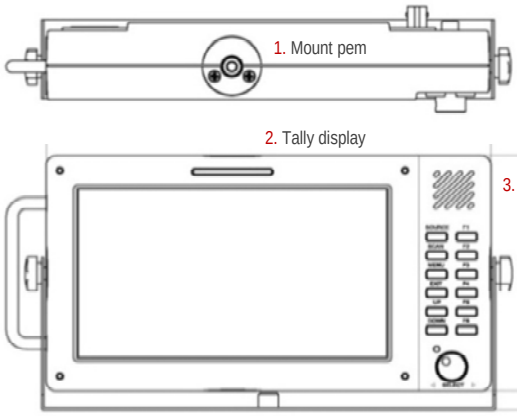
Viewing the Control Panel

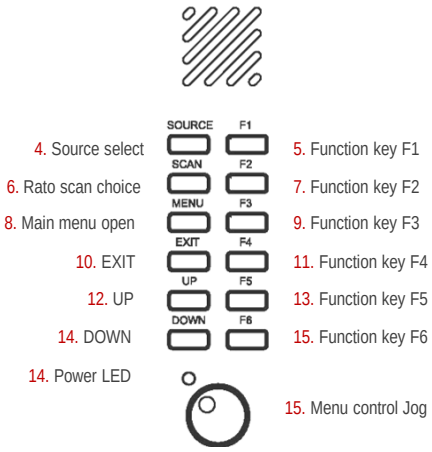
monitor info

OBM-070-XXXXX

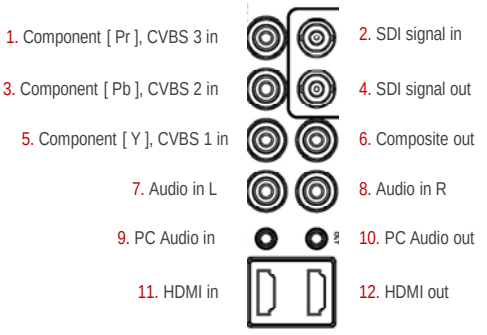
monitor 221.5 x 126 (mm) **Stand** 221.5 x 136 (mm)

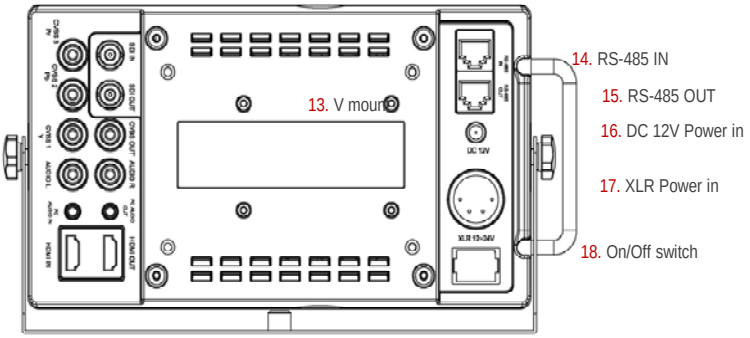
Front





Rear





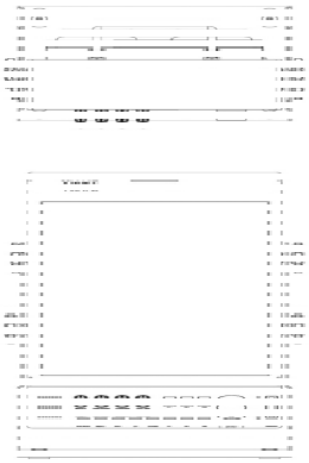
Viewing the Control Panel

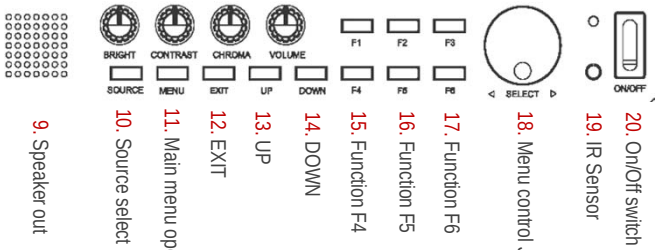
monitor info

OBM-097-XXXXX

monitor 221.5 x 218.5 (mm) **Stand** 221.5 x 230.5 (mm)

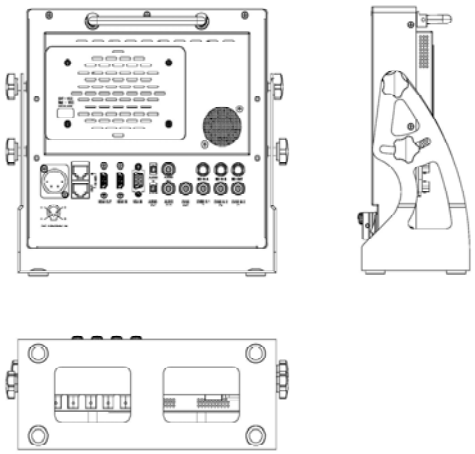
Front

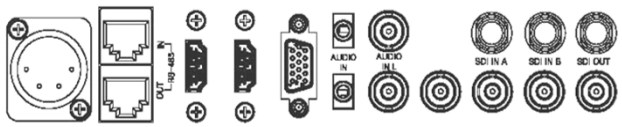




1. Brigth control
2. Contrast control
3. Chroma control
4. Volume control
5. Function F1
6. Function F2
7. Function F3
8. Power LED
9. Speaker out
10. Source select
11. Main menu open
12. EXIT
13. UP
14. DOWN
15. Function F4
16. Function F5
17. Function F6
18. Menu control JOG
19. IR Sensor
20. On/Off switch

Rear





1. RS-485 IN
2. Audio in
3. Audio in L
4. SDI in A
5. SDI in B
6. SDI out
7. XLR Power in
8. RS-485 out
9. HDMI out
10. HDMI in
11. VGA in
12. Audio out
13. Audio in R
14. Composite out
15. CVBS IN 1, Component [Y]
16. CVBS IN 2, Component [Pb]
17. CVBS IN 3, Component [Pr]

Viewing the Control Panel

monitor info

OBM-185-XXXXX

monitor 443 x 308 (mm) **Stand** 443 x 318 (mm)

Front

1. Brigth control
2. Contrast control
3. Chroma control
4. Volume control
5. MENU
6. EXIT
7. UP
8. Function FA1
9. Function FA2
10. Function FA3
11. Function FA4
12. Power LED
13. Speaker out
14. Source
15. Scan
16. Down
17. Function FA5
18. Function FA6
19. Function FA7
20. Function FA8
21. Menu control JOG
22. IR Sensor
23. On/Off switch
24. Speaker out

Rear

1. RS-485 IN
2. Audio in
3. Audio in L
4. SDI in A
5. SDI in B
6. SDI out
7. XLR Power in
8. RS-485 out
9. HDMI out
10. HDMI in
11. VGA in
12. Audio out
13. Audio in R
14. Composite out
15. CVBS IN 1, Component [Y]
16. CVBS IN 2, Component [Pb]
17. CVBS IN 3, Component [Pr]

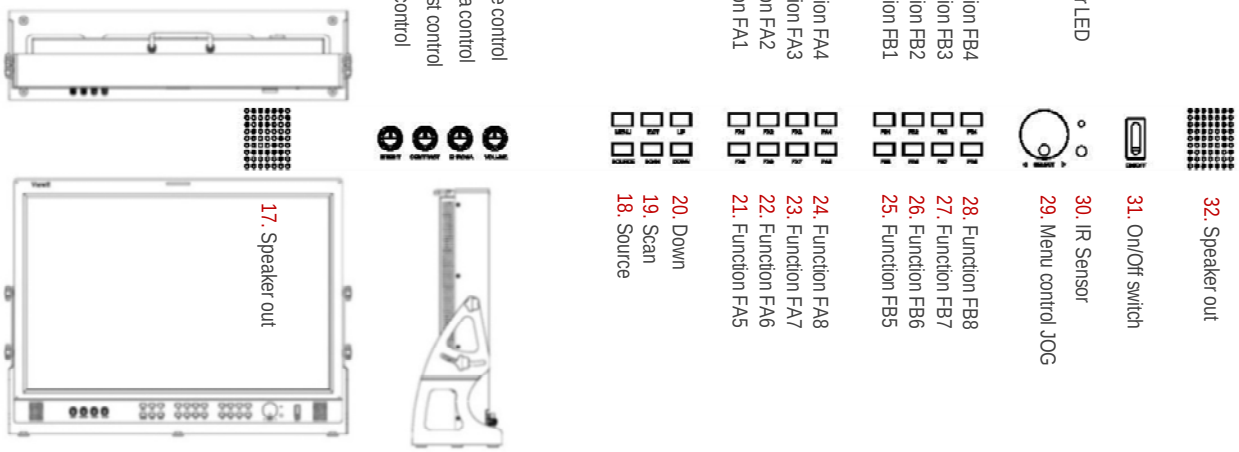
Viewing the Control Panel

monitor info

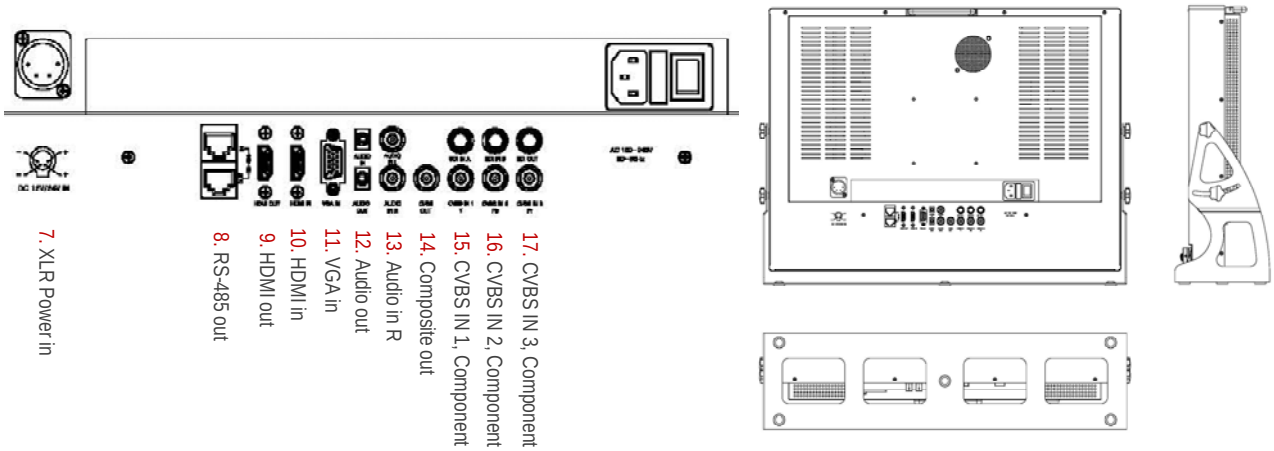
OBM-240-XXXXX

monitor 563 x 410 (mm) **Stand** 563 x 420 (mm)

Front



Rear



Basic Information

Initial setup

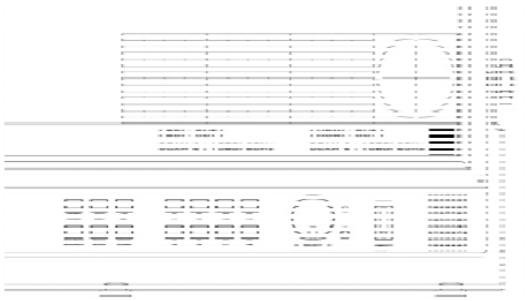
When the monitor is initially turned on, follow the instruction below by first pressing the MENU button.

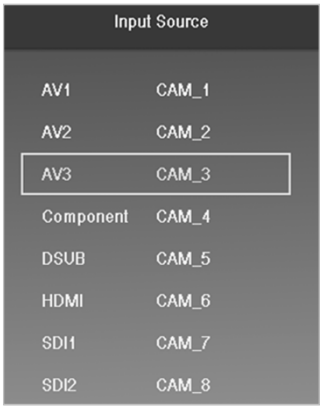
1 Selecting a language Press the **UP** or **DOWN** to control, then press **SOURCE** to select the desired **Language.**

To reset this feature.

MENU ▶ **Setting** ▶ **Load Sys Default**

2 Selecting Input To select a source, please press **External key**.





3 Function key The monitor is **Default Function key.**

OBM-240-XXXXX

FA1	HDMI Output	FA2	Aspect	
FA3	Center Maker	FA4	Safety Area	
FA5	Marker	FA6	Waveform	
FA7	Vectorscope	FA8	UMD	
FB1	Audio Lvl Meter	FB2	Timecode	
FB3	HDMI CSC	FB4	Zoom Mode	Programmable key
FB5	Blue/Mono	FB6	H/V Delay	
FB7	Max Bright	FB8	SDI Output	Fixed Key

OBM-185-XXXXX

F1	Blue/Mono	F2	H/V Delay	
F3	Max Bright	F4	SDI Output	
F5	HDMI Output	F6	Aspect	
F7	Center Maker	F8	Safety Area	Programmable Key

OBM-097-XXXXX, OBM-070-XXXXX

F1	Blue/Mono	F2	H/V Delay	
F3	Max Bright	F4	SDI Output	
F5	HDMI Output	F6	Aspect	Programmable Key

OBM-056-XXXXX

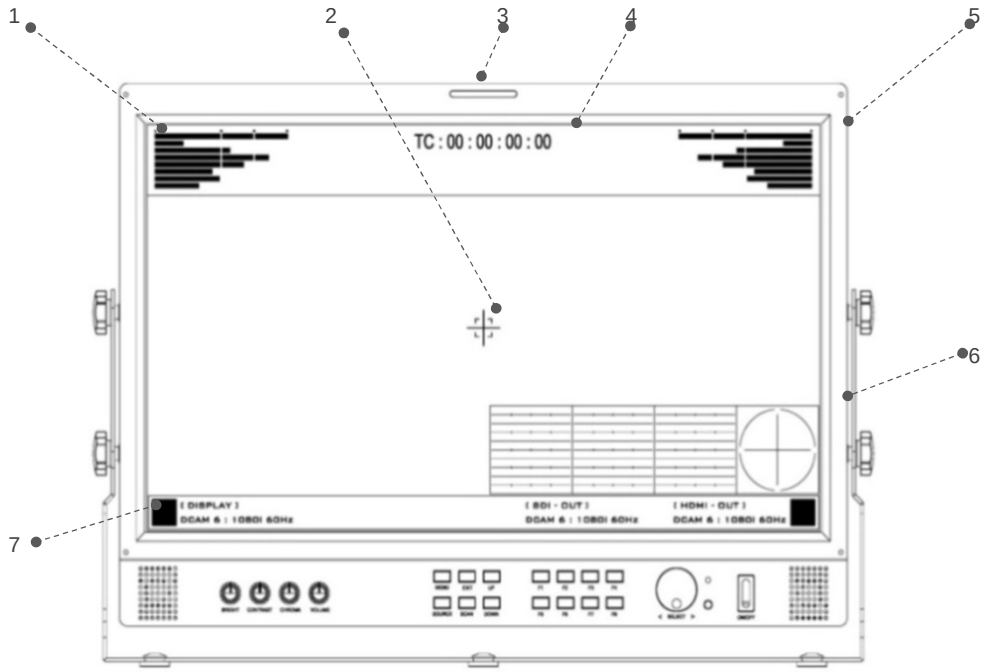
F1	Blue/Mono	F2	H/V Delay	Programmable Key

Getting Started

Basic Information

Display information

- Setting information you have entered are displayed on the screen with graphs and texts.



1 Audio Level meter [Left]

CH-1
CH-3
CH-5
CH-7
CH-9
CH-11
CH-13
CH-15

2 Center Maker

3 Tally Display

4 TC : 00 : 00 : 00 : 00 Timecode Display

5 Audio Level meter [Right]

CH-2
CH-4
CH-6
CH-8
CH-10
CH-12
CH-14
CH-16

6

Video Signal information Graph
[Waveform _ LUMA, Cb, Cr , Vectorscope]

7

UMD Monitor Source Action Information

Connecting to BNC Signal Device

BNC

BNC SDI Input signal 3Gbps ~ 270Mbps

Input Signal Formats		OBM-056	OBM-070	OBM-097	OBM-185	OBM-240
425M(3G) 4 : 2 : 2	1080 60P	○	○	○	○	○
	1080 50p	○	○	○	○	○
425M(3G) 4 : 4 : 4	720 24p	○	○	○	○	○
	720 25p	○	○	○	○	○
	720 50p	○	○	○	○	○
	720 60p	○	○	○	○	○
	1080 23.98p	○	○	○	○	○
	1080 23.98Psf	○	○	○	○	○
	1080 24p	○	○	○	○	○
	1080 25p	○	○	○	○	○
	1080 30p	○	○	○	○	○
	1080 50i	○	○	○	○	○
	1080 60i	○	○	○	○	○
260M(1.5G) 4 : 2 : 2	1035 60i	○	○	○	○	○
274M(1.5G) 4 : 2 : 2	1080 24psf	○	○	○	○	○
	1080 24p	○	○	○	○	○
	1080 23.98p	○	○	○	○	○
	1080 23.98Psf	○	○	○	○	○
	1080 25p	○	○	○	○	○
	1080 30p	○	○	○	○	○
	1080 50i	○	○	○	○	○
	1080 60i	○	○	○	○	○
296M(1.5G) 4 : 2 : 2	720 60p	○	○	○	○	○
	720 50p	○	○	○	○	○
	720 30p	○	○	○	○	○
	720 25p	○	○	○	○	○
	720 24p	○	○	○	○	○
125M(270M) 4 : 2 : 2	720 X 487 60i	○	○	○	○	○
	720 x 507 60i	○	○	○	○	○

Connecting to BNC Signal Device

■ BNC

BNC SDI Output signal 3Gbps ~ 270Mbps

Output Signal Formats		OBM-056	OBM-070	OBM-097	OBM-185	OBM-240
425M(3G) 4 : 2 : 2	1080 60P	○	○	○	○	○
	1080 50p	○	○	○	○	○
425M(3G) 4 : 4 : 4	720 24p	○	○	○	○	○
	720 25p	○	○	○	○	○
	720 50p	○	○	○	○	○
	720 60p	○	○	○	○	○
	1080 23.98p	○	○	○	○	○
	1080 23.98Psf	○	○	○	○	○
	1080 24p	○	○	○	○	○
	1080 25p	○	○	○	○	○
	1080 30p	○	○	○	○	○
	1080 50i	○	○	○	○	○
	1080 60i	○	○	○	○	○
260M(1.5G) 4 : 2 : 2	1035 60i	○	○	○	○	○
274M(1.5G) 4 : 2 : 2	1080 24psf	○	○	○	○	○
	1080 24p	○	○	○	○	○
	1080 23.98p	○	○	○	○	○
	1080 23.98Psf	○	○	○	○	○
	1080 25p	○	○	○	○	○
	1080 30p	○	○	○	○	○
	1080 50i	○	○	○	○	○
	1080 60i	○	○	○	○	○
296M(1.5G) 4 : 2 : 2	720 60p	○	○	○	○	○
	720 50p	○	○	○	○	○
	720 30p	○	○	○	○	○
	720 25p	○	○	○	○	○
	720 24p	○	○	○	○	○
125M(270M) 4 : 2 : 2	720 X 487 60i	○	○	○	○	○
	720 x 507 60i	○	○	○	○	○

Connecting to HDMI Signal Device

HDMI

HDMI Input signal

Output Signal Formats	OBM-056	OBM-070	OBM-097	OBM-185	OBM-240
1080 60P	○	○	○	○	○
1080 50p	○	○	○	○	○
720 24p	○	○	○	○	○
720 25p	○	○	○	○	○
720 50p	○	○	○	○	○
720 60p	○	○	○	○	○
1080 24p	○	○	○	○	○
1080 25p	○	○	○	○	○
1080 30p	○	○	○	○	○
1080 50i	○	○	○	○	○
1080 60i	○	○	○	○	○
1035 60i	○	○	○	○	○
1080 24psf	○	○	○	○	○
1080 24p	○	○	○	○	○
1080 25p	○	○	○	○	○
1080 30p	○	○	○	○	○
1080 50i	○	○	○	○	○
1080 60i	○	○	○	○	○
720 60p	○	○	○	○	○
720 50p	○	○	○	○	○
720 30p	○	○	○	○	○
720 25p	○	○	○	○	○
720 24p	○	○	○	○	○
720 X 487 60i	○	○	○	○	○
720 x 507 60i	○	○	○	○	○
640 X 480	○	○	○	○	○
720 X 400	○	○	○	○	○
800 X 600	○	○	○	○	○
1024 X 768	○	○	○	○	○
1280 X 768	○	○	○	○	○
1360 X 768	○	○	○	○	○
1920 X 1080	○	○	○	○	○
1920 X 1200	○	○	○	○	○

Connecting to HDMI Signal Device

■ HDMI

HDMI Output signal

Output Signal Formats	OBM-056	OBM-070	OBM-097	OBM-185	OBM-240
1080 60P	○	○	○	○	○
1080 50p	○	○	○	○	○
720 24p	○	○	○	○	○
720 25p	○	○	○	○	○
720 50p	○	○	○	○	○
720 60p	○	○	○	○	○
1080 24p	○	○	○	○	○
1080 25p	○	○	○	○	○
1080 30p	○	○	○	○	○
1080 50i	○	○	○	○	○
1080 60i	○	○	○	○	○
1035 60i	○	○	○	○	○
1080 24psf	○	○	○	○	○
1080 24p	○	○	○	○	○
1080 25p	○	○	○	○	○
1080 30p	○	○	○	○	○
1080 50i	○	○	○	○	○
1080 60i	○	○	○	○	○
720 60p	○	○	○	○	○
720 50p	○	○	○	○	○
720 30p	○	○	○	○	○
720 25p	○	○	○	○	○
720 24p	○	○	○	○	○
720 X 487 60i	○	○	○	○	○
720 x 507 60i	○	○	○	○	○
640 X 480	○	○	○	○	○
720 X 400	○	○	○	○	○
800 X 600	○	○	○	○	○
1024 X 768	○	○	○	○	○
1280 X 768	○	○	○	○	○
1360 X 768	○	○	○	○	○
1920 X 1080	○	○	○	○	○
1920 X 1200	○	○	○	○	○

Connecting to VGA Signal Device

VGA

VGA Input signal 1.0Vpp (G with Sync), 0.7Vpp (B,R)

Input Signal Formats	Frequency	HF	VF	OBM-097	OBM-185	OBM-240
640 X 400	59.779Hz	29.531	59.779	○	○	○
720 X 400	85.038Hz	37.927	85.038	○	○	○
800 X 600	60Hz	37.879	60.317	○	○	○
1024 X 768	49.866Hz	39.444	49.866	○	○	○
1024 X 768	60Hz	47.712	60.015	○	○	○
1152 X 720	60Hz	44.398	59.916	○	○	○
1152 X 864	75Hz	67.500	75.000	○	○	○
1280 X 720	30Hz	22.500	30.000	○	○	○
1280 X 768	60Hz	47.396	59.935	○	○	○
1280 X 1024	60Hz	63.981	60.020	○	○	○
1360 X 768	50Hz	39.499	49.936	○	○	○
1360 X 768	75Hz	60.143	74.999	○	○	○
1400 X 1050	60Hz	64.744	59.948	○	○	○
1440 X 480	60Hz	15.734	59.939	○	○	○
1680 X 1050	59.94Hz	64.742	59.946	○	○	○
1600 X 1200	60Hz	75.000	60.000	○	○	○
1920 X 1080	60Hz	66.647	59.988	○	○	○
1920 X 1200	60Hz	74.099	59.999	○	○	○

Connecting to Component Signal Device

■ Component

Component Input signal 1.0Vpp (Y with Sync), 0.7Vpp (Pb,Pr)

Input Signal Formats	OBM-056	OBM-070	OBM-097	OBM-185	OBM-240
480 50i	○	○	○	○	○
480 60i	○	○	○	○	○
480 60p	○	○	○	○	○
576 50i	○	○	○	○	○
576 50p	○	○	○	○	○
720 50p	○	○	○	○	○
720 60p	○	○	○	○	○
1080 50i	○	○	○	○	○
1080 60i	○	○	○	○	○
1080 50p	○	○	○	○	○
1080 60p	○	○	○	○	○

Connecting to Composite Signal Device

Composite

Composite Input signal 1.0Vpp (with Sync)

Input Signal Formats	OBM-056	OBM-070	OBM-097	OBM-185	OBM-240
NTSC	○	○	○	○	○
PAL	○	○	○	○	○
SECAM	○	○	○	○	○

Connections

RJ-45 Remote Control

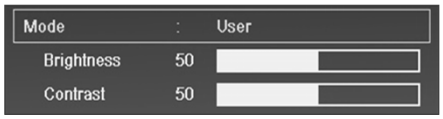
- RJ-45 Buyer Option

  Customer's option

VIDEO

Mode
Main ▶ Video ▶ Mode

Select your preferred picture type.
[User, Dynamic, Standard, Movie, Mild]



Brightness

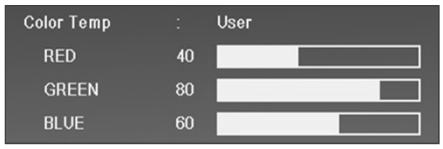
Controls the degree of brightness between [0min ~ 100max]

Contrast

Controls the contrast ratio between [0min ~ 100max]

Color Temp
Main ▶ Video ▶ Color Temp

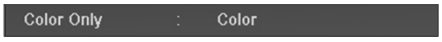
Select your preferred Temp type.
[User, 9300K, 7500K, 6500K]



RED Controls RED, GREEN, BLUE color.
GREEN The value is selectable between [0min ~ 100max]
BLUE Adjusts R, G, B color of bright section.

Color Only
Main ▶ Video ▶ Color Only

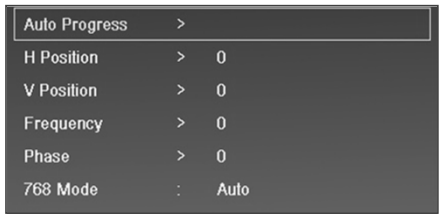
Select your preferred Color type.
[Red, Green, Blue, Mono]



DSUB
Main ▶ Video ▶ DSUB

Select DSUB(VGA) Function

Auto Progress Auto Detect position & phase
H Posi Controls the H Position between [-100min ~ 100max]
V Posi Controls the V Position between [-100min ~ 100max]



Frequency

Controls the contrast ratio between [-100min ~ 100max]

Phase

Controls PHASE value (hue) between [-32min ~ 31max]

768 Mode

Forcibly change the input resolution

[Auto, 1024x768, 1224x768, 1280x768, 1360x768, 1366x768]

NTSC Setup
Main ▶ Video ▶ NTSC Setup

This item sets IRE value under NTSC mode between
Off (0 IRE) and On (7.5 IRE)

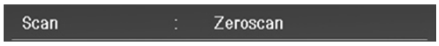
Aspect

Scan

Main ▶ Aspect ▶ Scan

▶ EX monitor - 0BM-185 Display Panel & Source 16 : 9

This product supports various scan modes.
[Zreoscan, Underscan, Overscan **]**



Zreoscan

Zooms in/out of the image without changing the aspect ratio.

Underscan

Zooms in/out of the image without changing the aspect ratio. Also, displays the data at the top of the horizontal blanking block.

Overscan

Zooms in/out of the image to 96% of its original size without changing the aspect ratio of.

Aspect

Main ▶ Aspect ▶ Aspect

▶ EX monitor - OBM-185 Display Panel & Source 16 : 9

Used to change the Aspect between.
[fullscreen, 16:9, 4:3, 1:1 **]**

Fullscreen

Enlarges the aspect ratio of the picture to fit the entire screen.

16 : 9

Stretches the image in “4:3 mode” to fit to 16:9 aspect ratio.

4 : 3

Cuts left and right of the original image to fit to 4:3 aspect ratio.

1 : 1

1:1 pixel mapping of original image. This feature is available only when the size of the original image is bigger than the screen size.

Aspect

Anamorphic

Main ▶ Aspect ▶ Anamorphic

Select your preferred Anamorphic type.

▶ EX monitor -OBM-185 Display Panel & Source 16 : 9

Step down Vertical x 17

Anamorphic	:	Off

1	1.37 : 1	10	2.35 : 1
2	1.50 : 1	11	2.37 : 1
3	1.55 : 1	12	2.39 : 1
4	1.60 : 1	13	2.40 : 1
5	1.66 : 1	14	2.55 : 1
6	1.75 : 1	15	2.59 : 1
7	1.85 : 1	16	2.76 : 1
8	2.00 : 1	17	3.56 : 1
9	2.20 : 1		

Zoom Mode

Main ▶ Aspect ▶ Zoom Mode

▶ EX monitor - OBM-185 Display Panel & Source 16 : 9

Used to change the display ratio between.
[zoom,Pixel To Pixel, Disable **]**

Pixel To Pixel

Display Panel reduced the input signal on the screen (Scale) as it does not appear on the screen to the size of the input feature.

Zoom

Zoom Ratio

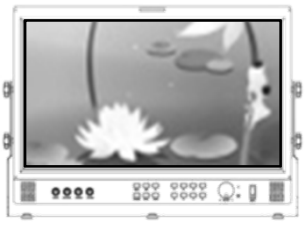
Used to change the Zoom Ratio between. **[** 0min ~ 50max **]**

H Position

adjust the horizontal position of image.
[0min ~ 50max **]**

V Position

adjust the vertical position of image.
[0min ~ 50max **]**



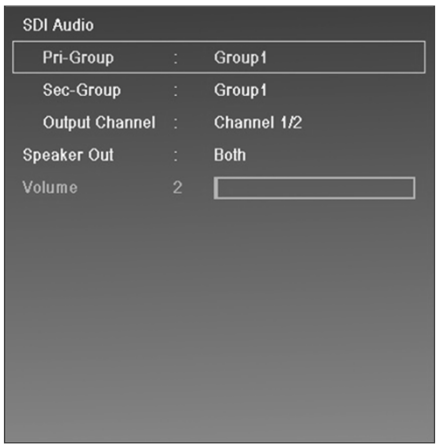
Zoom Mode	:	Disable
Zoom Ratio	:	100%
H Position	:	0
V Position	:	0

Sound

TBD

SDI Audio

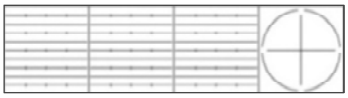
Main ▶ Sound ▶ SDI Audio



Pri-Group

Sec-Group

Outupt Channel



Speaker Out

Main ▶ Sound ▶ Speaker Out

Volume

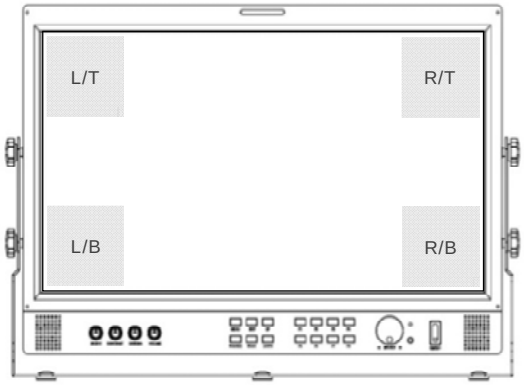
Main ▶ Sound ▶ Volume

A/V Scope

Scope Position
Main ▶ A/V Scope ▶ Scope Position

Scope Position	:	R/B

Select in Scope location



Scope Mode
Main ▶ A/V Scope ▶ Mode

Scope Mode	:	Line

TBD

Line Number
Main ▶ A/V Scope ▶ Line Number

Line Number	:	0

TBD

Waveform Enable
Main ▶ A/V Scope ▶ Waveform Enable

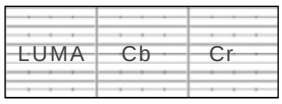
Waveform Enable	:	On

Select Waveform **[** On, Off **]**

Waveform Source
Main ▶ A/V Scope ▶ Waveform Source

Waveform Source	:	Luma

[LUMA, Cb, Cr, LUMA+Cb+Cr **]**



Vector Enable
Main ▶ A/V Scope ▶ Vector Enable

Vector Enable	:	On

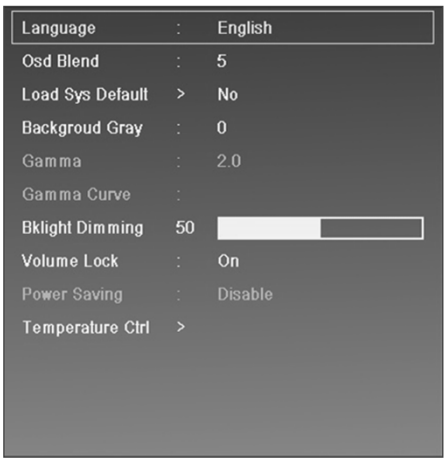
Select Vector **[** On, Off **]**

Audio Level Meter
Main ▶ A/V Scope ▶ Audio Level Meter

Audio Level Meter	:	On

Select Audio Level Meter **[** On, Off **]**

Setting



- **Language** Main ▶ Setting ▶ Language
  language Selection

- **Osd Blend** Main ▶ Setting ▶ Osd Blend
  OSD the transparency selection

- **Load Sys Default** Main ▶ Setting ▶ Load Sys Default
  Initializ monitor

- **Background Gray** Main ▶ Setting ▶ Background Gray
  SOURCE BLANK section, select grayscale **[** 0min ~ 7max **]**

- **Gamma** Main ▶ Setting ▶ Gamma
  TBD

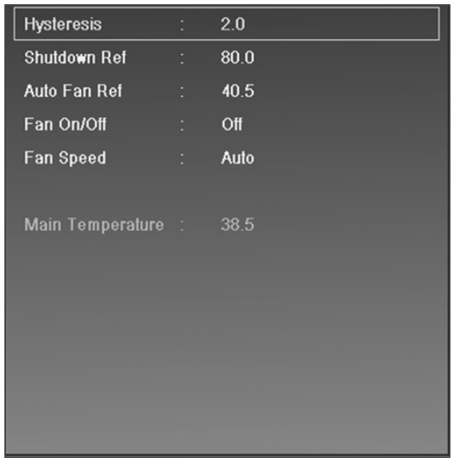
- **Gamma Curve** Main ▶ Setting ▶ Gamma Curve
  TBD

- **Bklight Dimming** Main ▶ Setting ▶ Bklight Dimming
  Backlight brightness control **[** 0min ~ 100max **]**

- **Volume Lock** Main ▶ Setting ▶ Volume Lock
  Select outside Volume lock function.
  [Brightness, Contrast, Color **]**

- **Power Saving** Main ▶ Setting ▶ Power Saving
  TBD

- **Temperature Ctrl** Main ▶ Setting ▶ Temperature Ctrl



Hysteresis
Shutdown Ref and Auto Fan Ref for Hysteresis temperature settings
[2.0℃ min ~ 6.0℃ max **]**

Shutdown Ref
panel shutdown temperature setting. **[** 70℃min ~ 90℃max **]**

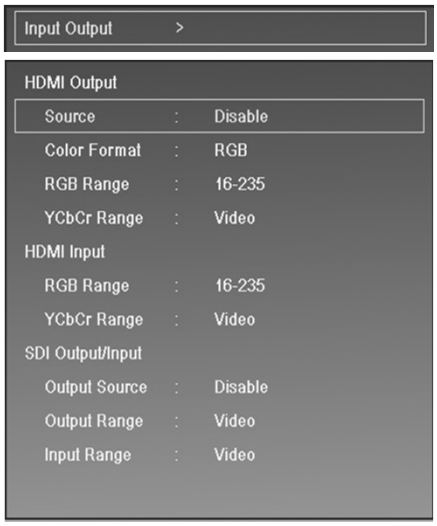
Auto Fan Ref
Fan On / Off Standard temperature setting. **[** 40℃min ~ 60℃max **]**

Fan On/Off
Fan function select **[** Auto, Off, On **]**

Fan Speed
Fan speed selection **[** auto, Slow, Nomal, Fast **]**

Main Temperature
Check the internal temperature of the monitor

Advanced



HDMI Output
Main ▶ Advanced ▶ HDMI Output

Select the output source from the HDMI Output port

Source
Select output signal **[** Disable, SDI, Display, HDMI/ADC **]**

Color Format
Select color space **[** RGB, 4:2:2, 4:4:4 **]**

RGB Range
Selet color range of RGB color format
[0-255, 16-235 **]**

YCbCr Range
Select color range of 422 or 444 color format
[Video(16~235), Extended(1~254), Full(0~255) **]**

HDMI Input
Main ▶ Advanced ▶ HDMI Input

Select input source from HDMI input port

RGB Range
Select color range with HDMI input format of RGB [0-255, 16-235]

YCbCr Range
Select color range with HDMI input format of 422 or 444 **[** Video(16~235), Extended(1~254), Full(0~255) **]**

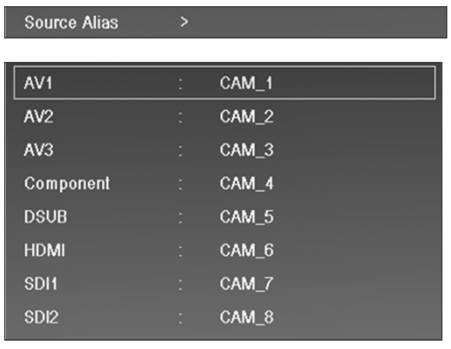
SDI Output / Input
Main ▶ Advanced ▶ SDI Output / Input

Select in/output source from SDI port

Output Source
Select output signal **[** Disable, SDI, HDMI/ADC **]**

Output Range
Select color range of output signal **[** Video(16~235), Extended(1~254), Full(0~255) **]**

Input Range
Select color range of input signal **[** Video(16~235), Extended(1~254), Full(0~255) **]**



Timecode
Main ▶ Advanced ▶ Timecode

Select Timecode **[** On, Off **]**

Source Alias
Main ▶ Advanced ▶ Source Alias

Enter an alias for the input source.

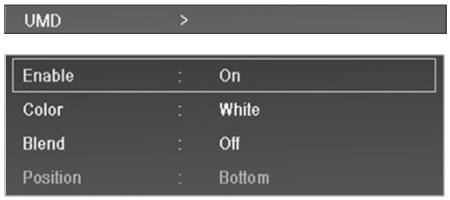
▶ Source alias modifications automatically reflected on UMD

Timecode Type
Main ▶ Advanced ▶ Timecode Type

TBD

UMD
Main ▶ Advanced ▶ UMD

This monitor supports UMD(Under Monitor Display) funtion which displays Ancillary data at the button of the screen.



Enable	UMD function On / Off
Color	UMD Color Selection
Blend	Blend (UMD Transparency) On/ Off
Position	UMD slot selection

Function key

Function Key

Main ▶ Function Key

All front function keys are programmable with any features that included in the product,
But only one feature can be assigned per one function key.

[Blue/ mono, H/V Delay, Max Brigth, SDI Output, HDMI Output, Aspect, Center Marker, Safety Area, Marker, Waveform, Vectorscope, UMD, Audio Lvl Meter, Timecode, HDMI CSC, Zoom mode, Still, HDMI, SDI CH1, SDI CH2, DSUB]

Marker

Marker

Main ▶ Marker

Lines input on the screen according to certain percentage

Marker Type based on the percentage of panel
[Off, 16:9, 4:3, 15:9, 14:9, 13:9, 1.85:1, 2.35:1]

Safety Area Select input of the Safety Resolution rate
[Off, 95%, 93%, 90%, 88%, 85%, 80%, EBU Action, EBU Graphic]

Center Marker On / Off Center Marker
Marker Property TBD
Safety Wide TBD
Safety to Marker TBD

Accessory

Accessory

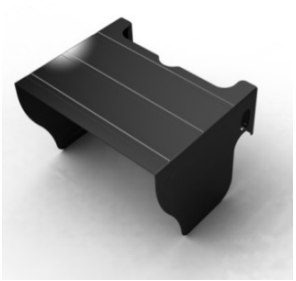
Wallmount Hardware

19" Rack Mountable

Camera Mount

Protective Carrying Bag

Protective Sun Visor



Battery Mount

AC Power Cable

ND Filter

AR Glass

Adaptor

Specifications

Specifications

Product		OBM-056	OBM-070	OBM-097	OBM-185	OBM-240
Lcd spec	Size	**5.6 inch**	**7 inch**	**9.7 inch**	**18.5 inch**	**24 inch**
	Resolution	1280 x 800 (16:10)	1024 x 600 (16:9)	1024 x 768 (4:3)	1366 X 768 (16:9)	1920 X 1200 (16:10)
	Back light Type	LED	LED	LED	LED	CCFL
	Color Depth	16.7M (Dither 8 Bit)	16.7M (8 Bit)	16.7M (Dither 8 Bit)	16.7M (8 Bit)	1.07B (10 Bit)
	viewing Angle (Typ.)	170°(H) / 170°(V)	170°(H) / 170°(V)	178°(H) / 178°(V)	178°(H) / 178°(V)	178°(H) / 178°(V)
	Luminance (Max.)	300 cd/m²	400 cd/m²	400 cd/m²	250 cd/m²	400 cd/m²
	Contrast Ratio	500 : 1	800 : 1	600 : 1	1000 : 1	1000 : 1
	Display Area					
Case features	monitor Dim	160.4 x 113.9 (mm)	221.5 x 126 (mm)	221.5 x 218.5 (mm)	443 x 308 (mm)	563 x 410 (mm)
	Stand Dim	160.4 x 113.9 (mm)	221.5 x 136 (mm)	221.5 x 230.5 (mm)	443 x 318 (mm)	563 x 420 (mm)
	Weight (g)	627.5	916.5	2750	6500	8040
Convertor features	SDI to HDMI	○	○	○	○	○
	SDI to SDI	○	○	○	○	○
	HDMI to SDI	○	○	○	○	○
	HDMI to HDMI	○	○	○	○	○
	Comp to SDI	○	○	○	○	○
	Comp to HDMI	○	○	○	○	○
	CVBS to SDI	○	○	○	○	○
	CVBS to HDMI	○	○	○	○	○
	VGA to SDI	-	-	○	○	○
	VGA to HDMI	-	-	○	○	○
INPUT Connector	SDI BNC	1	1	2	2	2
	HDMI	1	1	1	1	1
	D-SUB	-	-	1	1	1
	Analog BNC **(CVBS,Component)**	3 **(Phone jack gender)**	3 **(RCA JACK)**	3	3	3
	Audio Phone jack **(Analog Stereo)**	2 **(Phone jack gender)**	1	1	1	1
	Audio BNC jack **(Component audio L, R)**	-	2 **(RCA JACK)**	2	2	2
OUTPUT Connector	SDI BNC	1	1	1	1	1
	HDMI	1**(MINI HDMI)**	1	1	1	1
	Composite BNC	-	-	1	1	1
	Audio Phone jack **(Analog Stereo)**	1	1	1	1	1
Speaker	Built in Speaker	1W X 2	2W X 1	2W X 1	2W X 2	2W X 2
INPUT POWER	AC 100~240V	-	-	○	○	○
	DC 12V/24V **(XLR, DC JACK)**	○ 12V (DC JACK)	○ 12V/24V (DC JACK , XLR)	○ 12V/24V (DC JACK , XLR)	○ 24V (XLR)	○ 24V (XLR)

Thank you