

High-Definition Serial Digital Interface
Multi Format LCD Monitor

User's Manual



FOR BROADCASTING EXCELLENCE
BREXEL

BPM- Series

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Precaution

Before operating the set, please read this manual carefully.

 WARNING RISK OF ELECTRIC SHOCK DO NOT OPEN	
WARNING : The unit is operated at dangerous voltages. The unit may only be opened by an authorized specialist. All maintenance and servicing work must be carried out by an authorized company. Repairs that are carried out incorrectly could result in fatal injuries to the user.	The lightning flash with arrowhead symbol, within an equilateral triangle, 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.
	
	The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

To reduce the risk of electric shock does not remove cover (or back). No user serviceable parts in side. Refer servicing to qualified service personnel. To prevent fire or shock hazard, do not expose the rear of the set to rain or moisture. Do not rub or strike the Active Matrix LCD with anything hard as this may scratch, mark, or damage the Active Matrix LCD permanently.

CAUTION:

Unauthorized tampering with the inside of the monitor invalidates the warranty.

The manufacturer shall not warrant for any damage caused by improper maintenance and/or repair. Work by third parties.

Important safeguards for you and your new product:

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product and save them for future reference.

1. Read Instructions

2. Follow Instructions

All operating and use instructions should be followed.

3. Retain Instructions

The safety and operating instructions should be retained for future reference.

4. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

5. Cleaning

Disconnect the unit from the electricity supply before cleaning. Do not use abrasive cleaners. Use a damp cloth for cleaning.

6. Water and Moisture

Do not use this apparatus near water.

7. Transporting Product

A product and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the product and cart combination to overturn.

8. Attachments

Do not use attachments not recommended by **Brexel Inc.** as they may cause hazards.

9. Ventilation

Do not block any of the ventilation openings.
Install in accordance with the manufacturer's instructions.

10. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your supplying dealer.

11. Power Lead Polarization

This product is equipped with a three-wire grounding-type cord. This is a safety feature. Do not defeat the safety purpose of the grounding-type cord.

12. Power Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles and the point where they exit from the product.

13. Outdoor Cable Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. A "face plate" also needs to be installed with an isolating capacitor to prevent any damage from static.

14. Lightning

For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent possible damage to the product due to lightning and power-line surges.

15. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to avoid contact with such power lines or circuits, as contact with them might be fatal.

16. Earthing the product

This product must be earthed properly to comply with the safety regulations in the country of use. If you are unsure of these regulations, please consult a qualified electrician.

17. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltages or other hazards. Refer all servicing to qualified service personnel. If the Set does not operate properly, switch it off and call your dealer.

18. Damage Requiring Service

Isolate this product from the mains supply and refer servicing to qualified service personnel under the following conditions:

- A. If the power-supply cord or plug is damaged.
- B. If the glass front has been damaged.
- C. If there is ingress of water between the glass and the LCD screen.
- D. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper

adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

- E. If the product has been dropped or the cabinet has been damaged.
- F. If the product exhibits a distinct change in performance.

19. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition and the front seal is intact.

20. Mounting

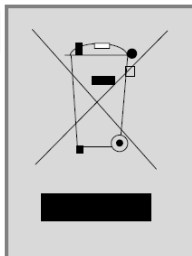
The product should be mounted on a wall only as recommended in the instructions.

21. Power

This set operates on an AC supply; the voltage is as indicated on the label on the Manual. This appliance must be earthed at all times through the chassis as well as through the power lead.



Note



This product is designed and manufactured with high quality materials and components which can be recycled and reused. This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste. Please, dispose of this equipment at your local community waste collection/recycling centre. In the European Union there are separate collection systems for used electrical and electronic product. Please, help us to conserve the environment we live in!

1. OVERVIEW

This product is the multi-format Digital LCD Panel to display various kinds of digital video input signal as SDI Digital and analog signal such as Composite/GBR/PC-RGB/DVI/HDMI/Component.

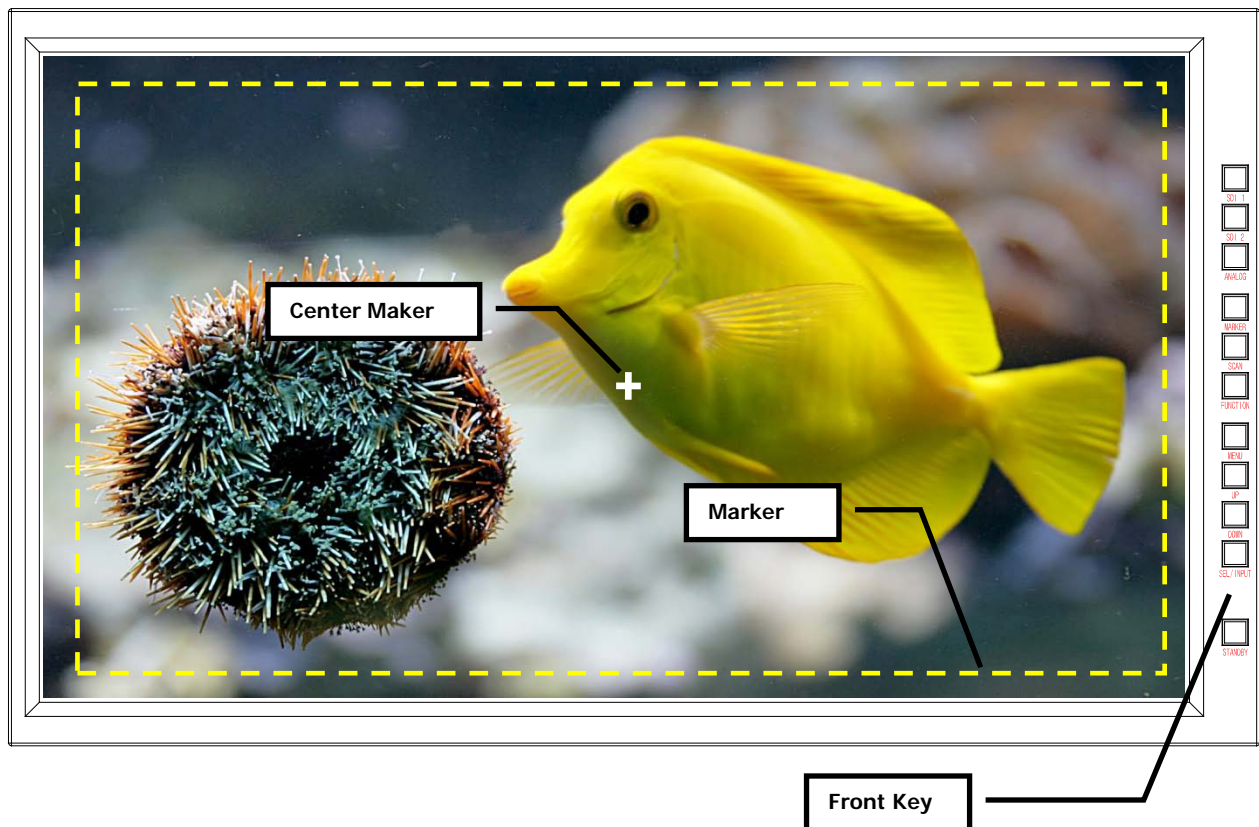
2. GENERAL FEATURES

- SDI 2 Input / 2 Output.
- Color Temperature – User, VAR, 11000K, 9300K, 7500K, 6500K, 5000K and 3200K
- Over Scan/Under Scan/ 1:1 scan/ Zoom
- PIP (Picture In Picture)/PIP Blend
- Supports VESA DDC2B and a subset of VESA standards.
- Single board is suitable for mounting behind an LCD panel.
- Supported ETHERNET/Firmware Upgrade.
- OSD: Graphic based OSD, 6 Languages (UNICODE System).
- LCD Dimming Control
- Manual Dimming Level Control.
- ETHERNET: Network System Controller / Update
- Rack Mount.

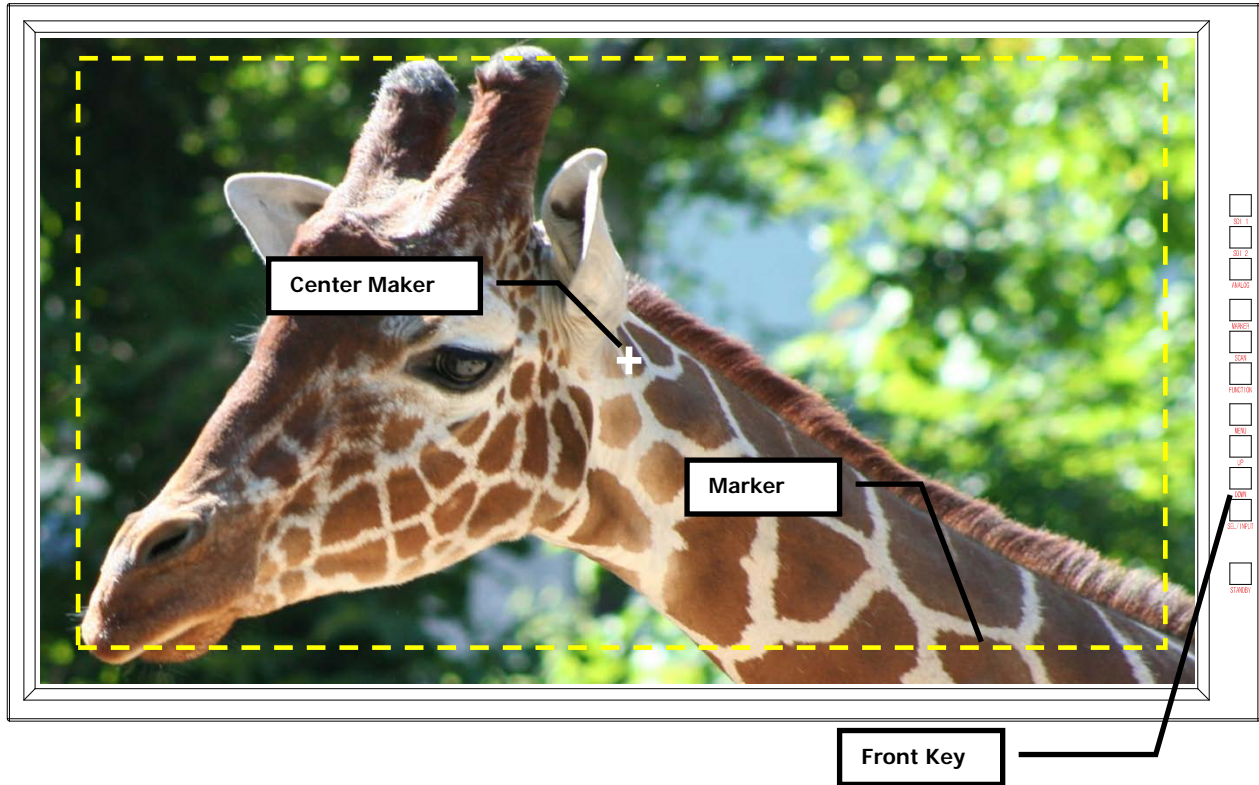
3. Functional explanation of each part

1) Front Panel

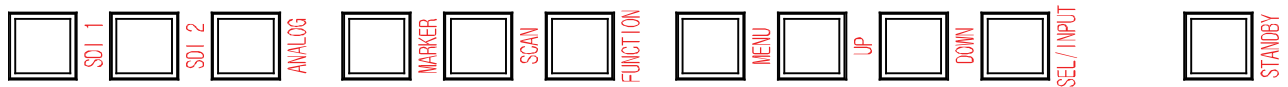
- **BPM-119-3G**



- **BPM-123-3G**



- **Front Keys Arrangements**



- **Front Keys Operations**

Key Name	Operation
STANDBY	▶ Power ON/OFF Button. This button is operated after being pressed about 3 seconds.
SEL/INPUT	▶ Activates OSD menu of input source selecting. ▶ Changes input source by selecting. ▶ Executes functions (by OSD help commands) in main OSD menu. ▶ Activates child menu.
DOWN	▶ Decreases sound volume of speaker. ▶ Decreases values of user menu in main OSD menu. ▶ Executes function (by OSD help commands) in main OSD menu.
UP	▶ Increases sound volume of speaker. ▶ Increases values of user menu in main OSD menu. ▶ Executes function (by OSD help commands) in main OSD menu.
MENU	▶ Activates main OSD menu. ▶ Navigates higher menu in main OSD menu. ▶ Stops auto frequency searching.

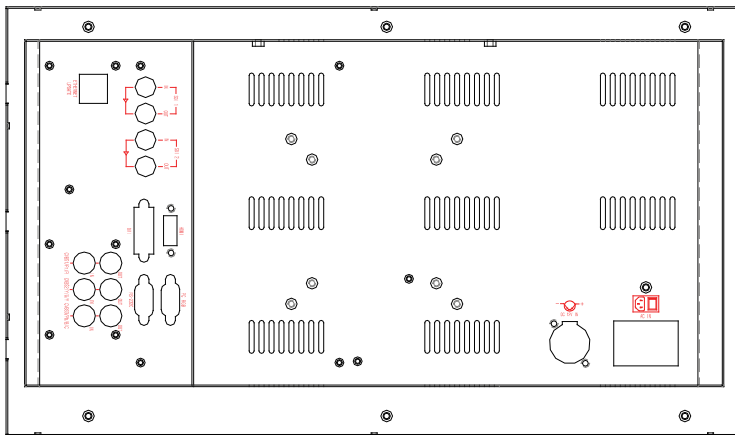
	▶ Exits OSD menu.
FUNCTION	▶ Executes functions of user selected UNDEF, Aspect, Zoom, Color temp, Gamma select, PIP, PIP Source, PIP size, PIP Position, PIP Swap, Input Composite, Input PC, Input HDMI, Input DVI
SCAN	▶ Executes Scan function (Over-Scan -> Zero-Scan -> Under Scan-> Pixel to Pixel)
MARKER	▶ Draw Marker on Screen (Off -> 16:9 -> 4:3 ... -> 2.35:1)
SDI 1	▶ Select SDI 1 source directly
SDI 2	▶ Select SDI 2 source directly
ANALOG	▶ Select ANALOG source directly ('Composite1' ->'Composite2' ->'Composite3' -> 'S-video' -> 'G.B.R' -> 'Y.Pb.Pr' -> 'PC')

- **Front panel LED Operations**

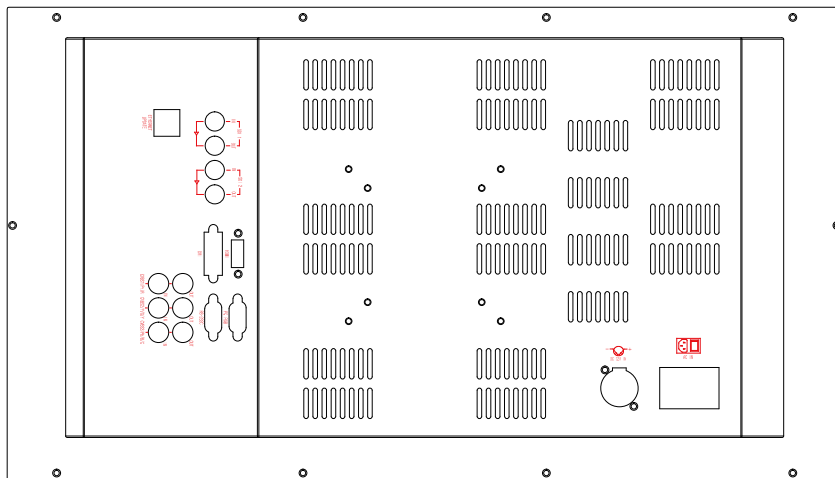
- Green Led turned on during execution of key Function and Power On

2) **Rear Panel**

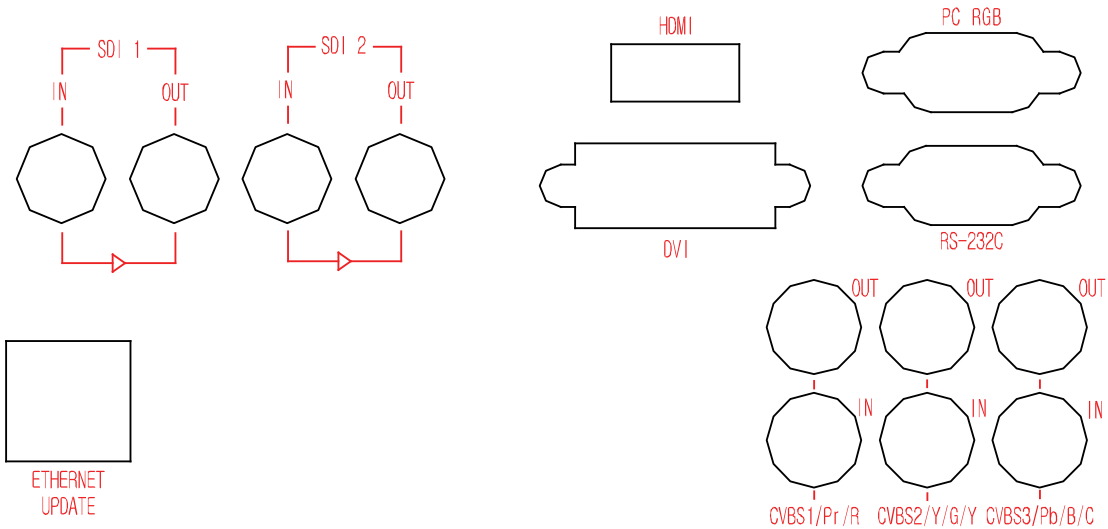
- **BPM-119-3G**



- **BPM-123-3G**



- **Connection Details**



- **Interface description**

Interface	Description
SDI 1 IN	SDI Input
SDI 2 IN	
SDI 1 OUT	SDI 1 Loop Through Output.
SDI 2 OUT	SDI 2 Loop Through Output.
RS-232 IN	Update/Multi Control/Auto color calibration
HDMI	High Definition Multimedia Input
DVI	High Definition Multimedia Input Compatible
ETHERNET UPDATE	ETHERNET/Firmware Upgrade
VGA	Analog PC-RGB Video Input
CVBS1/Pr/R In	GBR (SOG sync) Input
CVBS2/Y/G/Y In	Y, Pb, Pr Component Video Input
CVBS3/Pb/B/C In	CVBS / Composite/S-Video Input
AC IN	AC 90V ~ 240V, 50Hz/60Hz

4. **MENU OVERVIEW**

In this menu system, there are several ways to customize the menu settings provided. Most menus consist of three levels to set up the options, but some require greater depth for the variety of settings. If you press the **MENU** button, only the first and second level of the menu system will appear on the monitor screen. The third level can be displayed by pressing **SEL/INPUT**. If a menu has more than three levels, the pop-up dialogue box will be displayed as the fourth or fifth level.

1) **To show and remove the Menu**

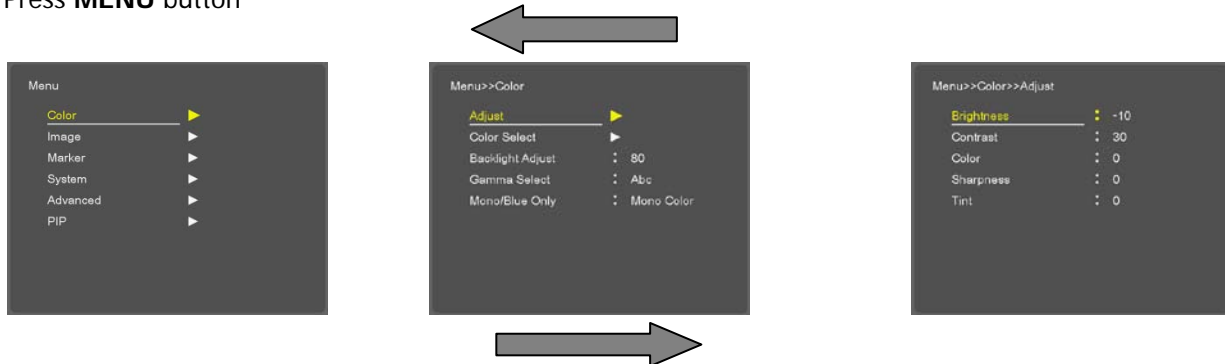
Press the **MENU** button to display the menu. A second press of the **MENU** button will take you back to monitor viewing.

2) **To go to the next level**

Press **SEL/INPUT** button.

3) **To go back to the previous level**

Press **MENU** button



4) **Typical Menu Operation**

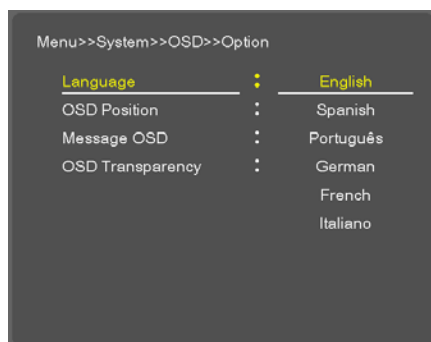
1. Press **MENU** button: The main menu will appear.
2. Use **UP/DOWN** button to select the desired menu option (icon).
3. While the desired menu option is selected, press **SEL/INPUT** to move to the second level.
4. Use **UP/DOWN** button to select the second menu option.
5. Press **SEL/INPUT** to move to the third level: Some menu options require additional steps.
6. Press **MENU** to return to the previous menu to return to monitor viewing.

5. **BASIC OPERATION**

1) **Turning On the Monitor**

1. First, connect power cord correctly. At this moment, the monitor switches to standby or power on mode. In standby mode, in order to turn monitor on, press the **ST-BY** button.
2. Select the viewing source by using **SEL/INPUT** button on Keypad in front of monitor

2) **On Screen Menus Language Selection**



- SETUP -> On Screen Display -> OSD Option -> Language
- The menus can be shown on the screen in the selected language.
- Supported Language: English, Spanish, Portuguese, German, French, Italian

6. *On Screen Menus Selection and Adjustment*

1) *How to adjust the OSD screen*

1. Press the **MENU** button and then **UP/DOWN** button to select each menu.
2. Press the **SEL/INPUT** button and then use **UP/DOWN (SEL/INPUT)/MENU** button to display the available menus.

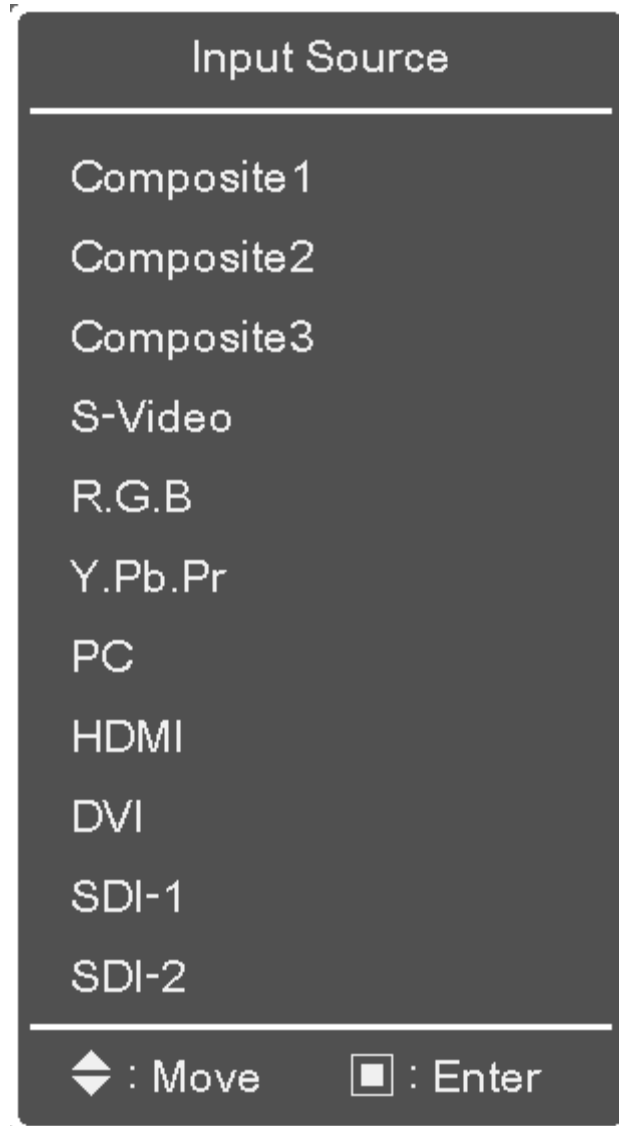


- Your monitor's OSD (On Screen Display) may differ slightly from what is shown in this manual

7. ***SELECT VIDEO INPUT***

1) ***How to Select Video Source by OSD***

1. Press the **SET/INPUT** button and then **UP/DOWN** button to select each video source.
2. Press the **SET/INPUT** button to go to desired video source.
3. If Input Name is enabled, The **SET/INPUT** button goes into input name edit mode instead of selecting source.



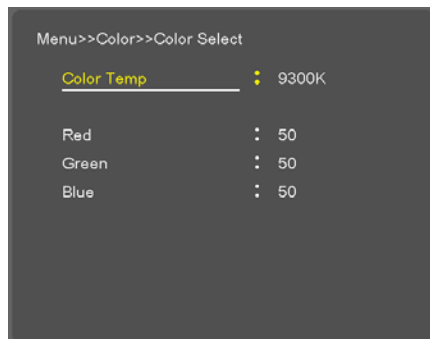
8. Color MENU

1) Adjust



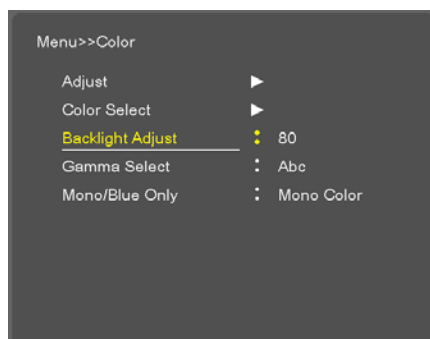
- Adjust the values of Brightness, Contrast, Color, Tint and Sharpness directly from -50 to 50
- Contrast, Brightness, Sharpness, Color (All Sources), Tint (without PC, Component), Phase (Component).

2) Color Select



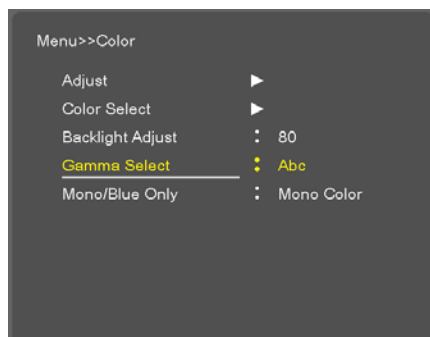
- For Setting the Color temperature or adjusting RGB gain value directly
- User (User setting RGB gain value), VAR(3200K ~ 11000K), Often used value(11000K, 9300K, 6500K, 5400K,3200K)

3) Backlight Adjust



- Inverter dimming Level select (0~100)

4) Gamma select



- Gamma Level Select (0.8 ~ 3.0)

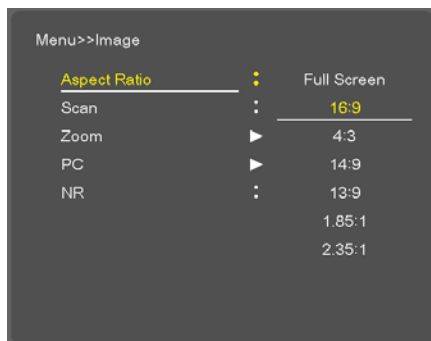
5) **Mono/Blue Only**



- Mono color: For selecting monochrome images
- Blue Only: Images have only blue color expect red and green color

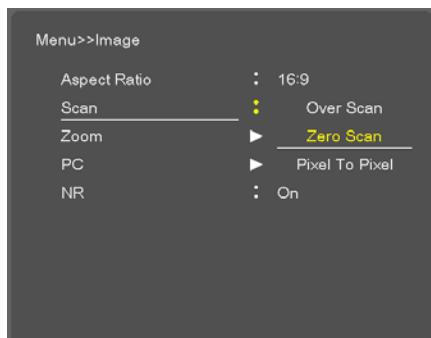
9. **Image MENU**

1) **Aspect Ratio**



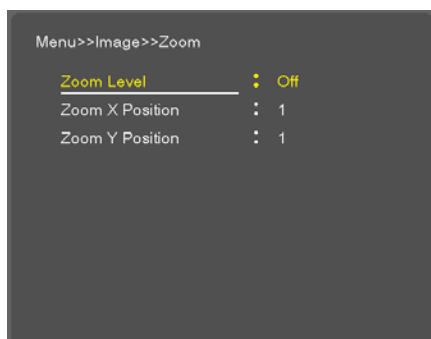
- For setting the aspect ratio.
- Full Screen: The images are displayed with a panel size.
- Full Screen, 16:9, 4:3, 14:9, 13:9, 1.85:1, 2.35:1: The images are displayed with each aspect ratio.
- PC mode: Full Screen & 4:3 only
- Function Aspect: For setting the Aspect to use by Function KEY controller.

2) **Scan**



1. Over Scan – 95% input size and fit the selected display size
2. Zero Scan – 100% Input size and fit the selected display size
3. Under Scan – 105% Input size and fit the selected display size
3. Pixel to Pixel – Display size is an input size. If input resolution is bigger than panel size, fit the panel size

3) **Zoom**



- Can see the enlarged picture by (2X, 3X, 4X, 5X) ratios.
- If user select the Zoom 2X, can see the below yellow box in picture.
- Press Select or Enter button, user can see the enlarged picture.
- Menu key escape the zoom mode.

- Example (3X3)



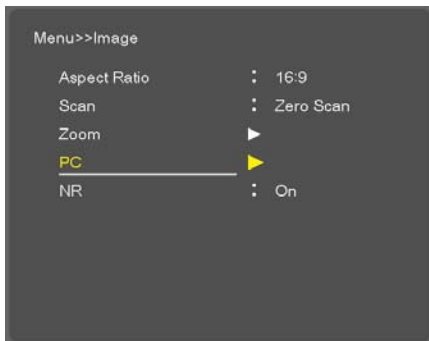
Zoom X position: Coordinate of video image's column position.

Zoom Y position: Coordinate of video image's row position.

4) **NR (Noise Reduction)**

→Noise Reduction on/off (NR is for Video signal SD-SDI, Composite, S-Video, Y/Pb/Pr, DTV timing)

5) **PC Menu (pc mode only)**



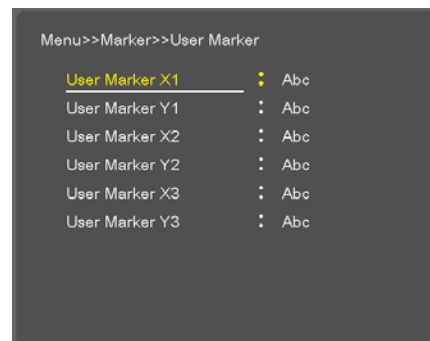
- Only operate PC input mode
- Select Auto-adjust and adjust Phase, HV position, Frequency
- Auto-Adjust automatically set the optimum values of Phase, HV position and Frequency.

10. **Marker MENU OPTIONS**

1) **Marker & User Marker**



< **Marker** >



< **User Marker** >

1. Marker : 16:9, 4:3, 14:9, 13:9, 1.85:1, 2.35:1, 1.85:1&4:3, User1, User2, User3 fitted panel size marker on screen.

2. User Marker: The user wants Marker size setting. (Below panel size)

Example (1440x900 panel)

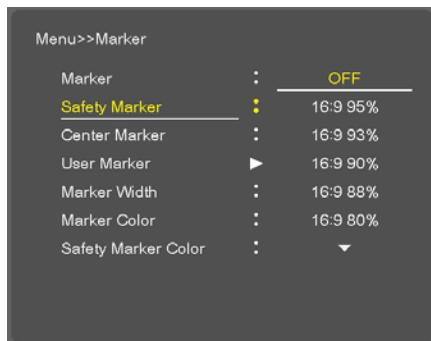


16:9 (16:9 Marker)



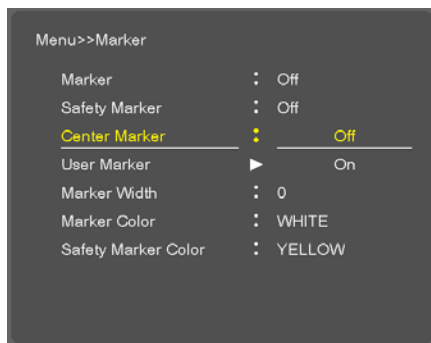
16:9 (4:3 Marker)

2) **Safety Marker**



-Safety Area: Draw dotted line Marker on screen in case of images.
(16:9 95/93/90/88/80%, 4:3 95/93/90/88/80%, EBU Action
16:9/14:9/4:3, EBU Graphic 16:9/14:9/4:3)

3) **Center Marker**



- "+" Marker on center of screen

4) **Marker Width**

-Marker line thickness setting. (0~10)

5) **Marker Color**



- Marker Line Color: Select Marker line color (White, Yellow, Blue, RED, Black)

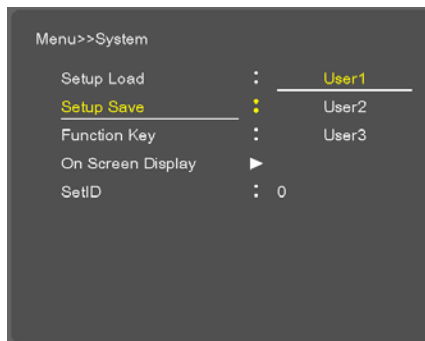
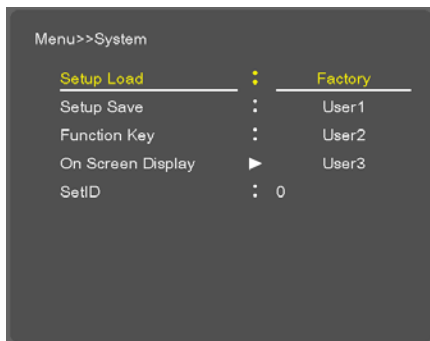
6) Safety Marker Color



- Safety Line Color: Select Safety line color (White, Yellow, Blue, RED, Black)

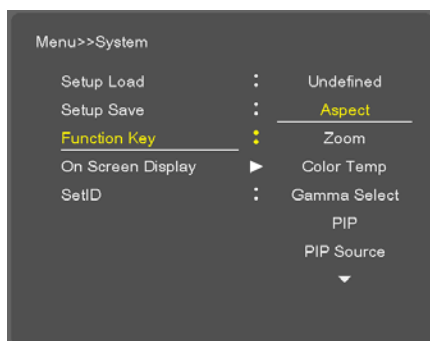
11. System MENU

1) Setup Load & Setup Save



- Setup Load: Load user saved values or default value
- Setup Save: Save user setting values at user 1, 2, 3.

2) Function Key



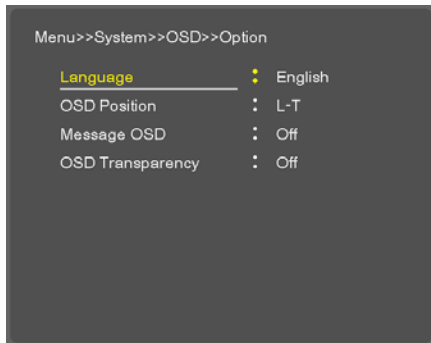
- Function Key: Select the function to be allocated to the FUNCTION buttons

Function Key	Description
UNDEF	Not set (no function allocated)
Aspect	Sets the aspect ratio of the images
Zoom	Zoom function is operated(Off, 2x, 3x, 4x, 5x)
Color Temp	User (User setting RGB gain value), VAR(3200K ~ 11000K), Often

	used value(11000K, 9300K, 6500K, 5400K,3200K)
Gamma Select	Select Gamma curve
PIP	PIP on/off
PIP Source	PIP input Source can operate with different signal and type.
PIP size	Choose PIP size of Small/POP1/POP2
PIP Position	Choose the pip position on the each corner of the pane
PIP Swap	Using Swap option, you can exchange two programs or source at the same time.
Input Composite	Switches the input source.
Input PC	
Input HDMI	
Input DVI	

3) On Screen Display

● OSD Option



- Language: Select a language for the menus to appear in. (English, Spanish, Portuguese, German, French, Italian)
- OSD Position: L-T, R-T, C, L-B, R-B
- Message OSD: Input Source Message on/off.
- OSD Transparency: Disable blending OSD background with video image.

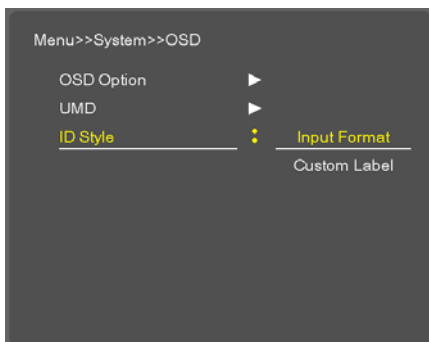
● Under Monitor Display (color: Tally R/G mode action)



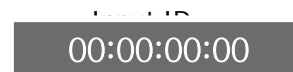
UMD

- UMD: UMD display on/off
- UMD Character: UMD Character Select
- UMD Position: UMD display position select (L-T, C-T, R-T, L-B, C-B, R-B)
- UMD FG Color: UMD Character color Select (RGB_255_192_128_Transpareut)
- UMD BG Color: UMD BG color Select (RGB_255_192_128_Transpareut)

● ID Style



Message OSD



Timecode

- Input ID: source Message display.
- ID Style: select "Input Format"/"Custom Label"
- Input Label: Display user made name instead of input source name on source OSD and message OSD



4) **Set ID & Active Set ID**

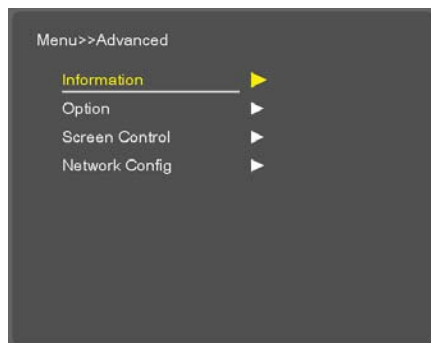
- If control each Board, must set ID numbers of each Board (01~99).



- Set Active SET ID number Before Control each Board by Remote control or RS-232
- If control only 15th Board, Active SET ID must set 15.

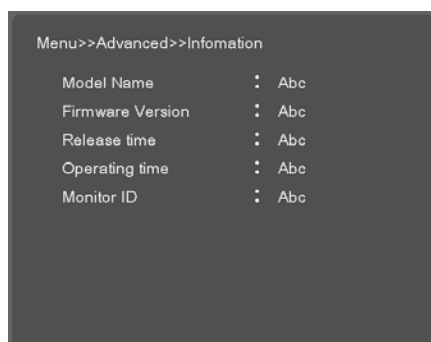
12. **Advanced MENU**

1) **Advanced**



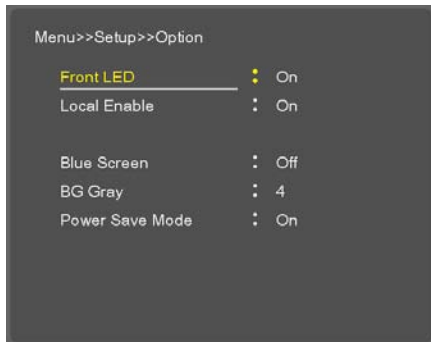
- Information, Option, Screen Control, Network Config

2) **Information**



- Model Name, Firmware Version, Release time, operating time, Monitor ID

3) **Option**



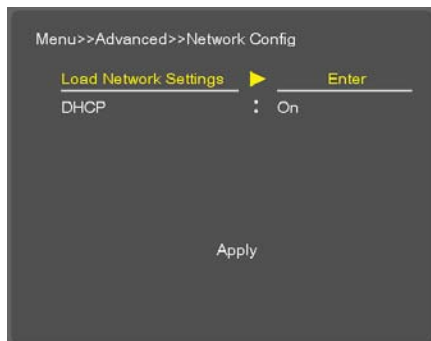
- FRONT LED: Front LED on/off
- Local Enable: Power, up and down key is only worked, if Local enable is off.
- Blue Screen: Enables screen saver functions to avoid panel burning.
- BG Gray: Select gray level on besides display picture
- Power save Mode: Power Save Mode on/off

4) **Screen Control**

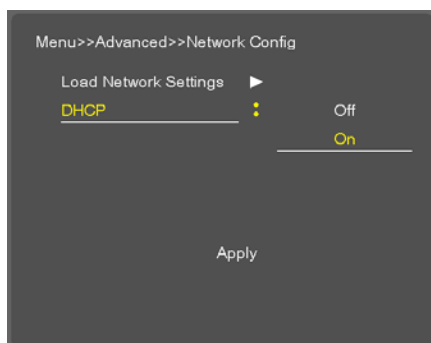
- Reset Calibration
 - Color Calibration Reset
- I/P Mode
 - Line Doubler/inter-Field/Field Merge function on/off
- Dithering
 - Dithering function on/off
- Internal Pattern:
 - 100% Color Bars, 75% Color Bars, Luma, RGB, White, Black, RED, Blue, Green

5) **Network Config**

- Plura System Controller (PSC-400) Network setting.



- Load Network Settings: ETHERNET cable connected after "Enter". (ID/IP Address/Gateway/Subnet Load)

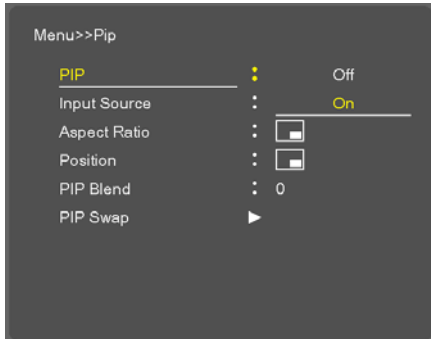


- DHCP: DHCP on/off (Manual IP settings – DHCP on)
* "Apply" enter all settings after.

13. **PIP MENU (Picture IN Picture)**

- Watch two programs or source at the same time. And set up PIP size and position.
- Only Dual Link model Select

1) **PIP ON/OFF**

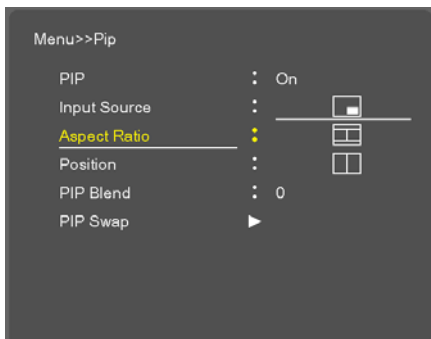


- Control PIP function On/Off.

2) **Input Source**

- PIP input Source can operate with different signal and type.
- Analog (Composite1, 2, 3, Y.Pb.Pr, GBR, PC) inputs + SDI (SDI1, SDI2) inputs
- SDI + SDI input PIP
- Ex) AV + S-Video (X), AV +SDI2 (O)

3) **Aspect Ratio**



- Choose PIP size of Small/POP1/POP2



PIP Small

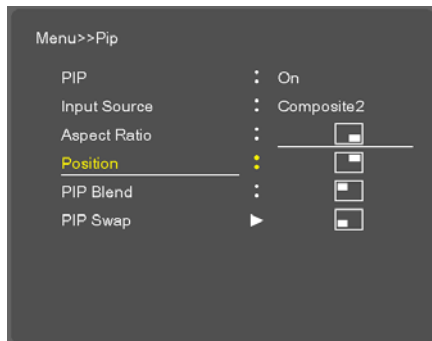


PIP1



POP2

4) **Position**



- Choose the pip position on the each corner of the panel

5) **PIP Blend**

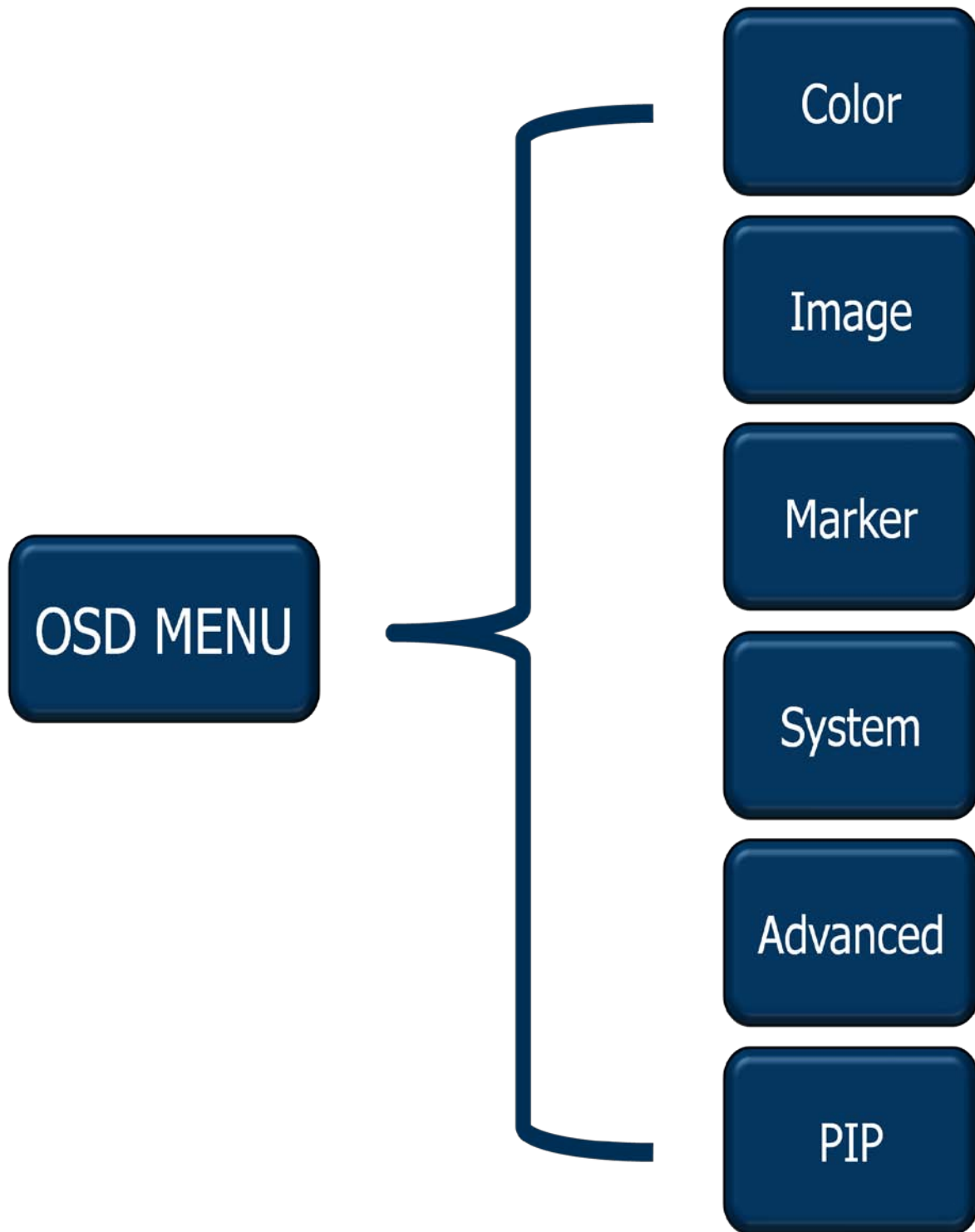


-Blend to PIP size of Small

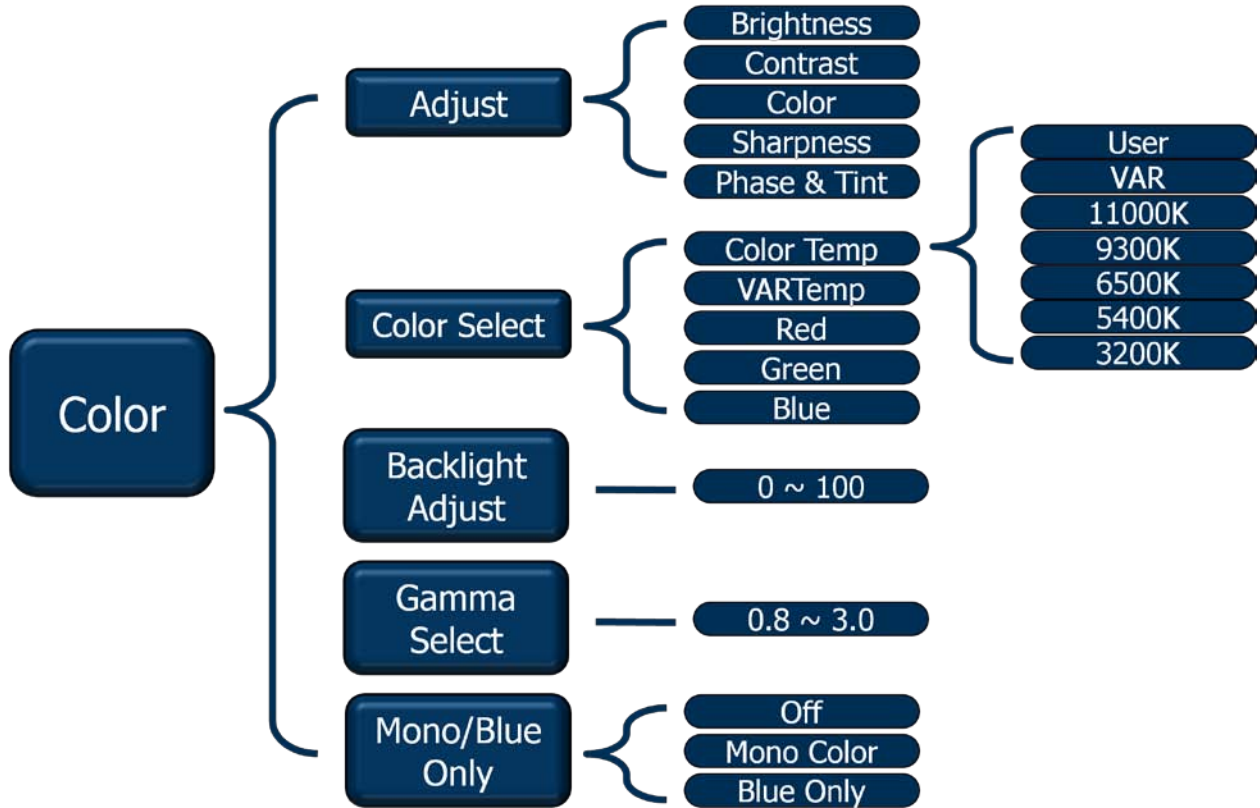
6) **PIP Swap**

- Using Swap option, you can exchange two programs or source at the same time.

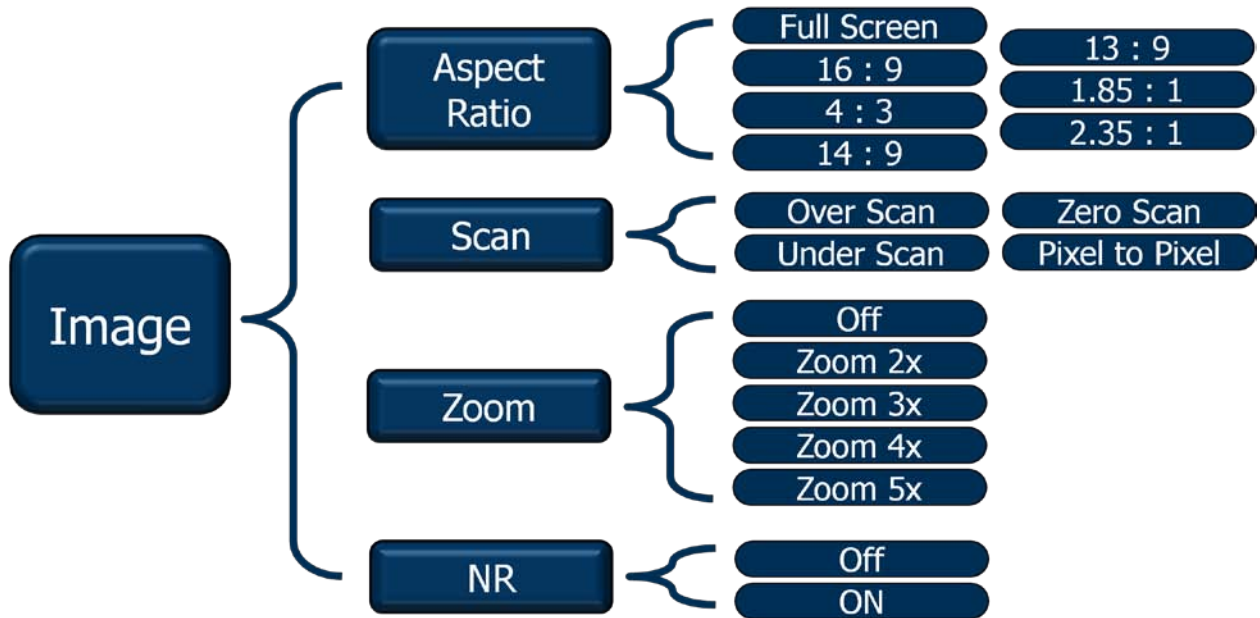
14. *OSD TREE*



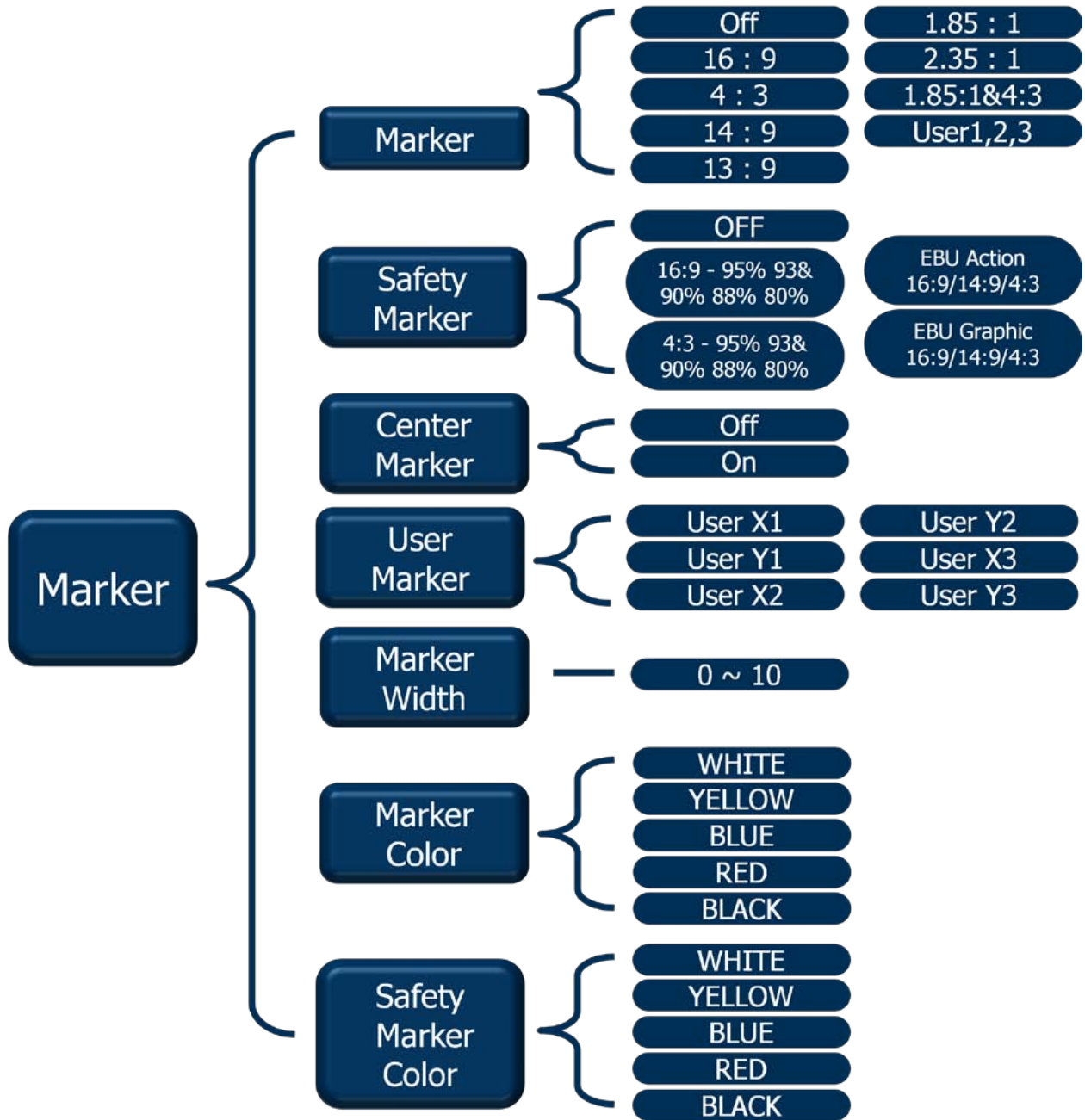
1) *Color*



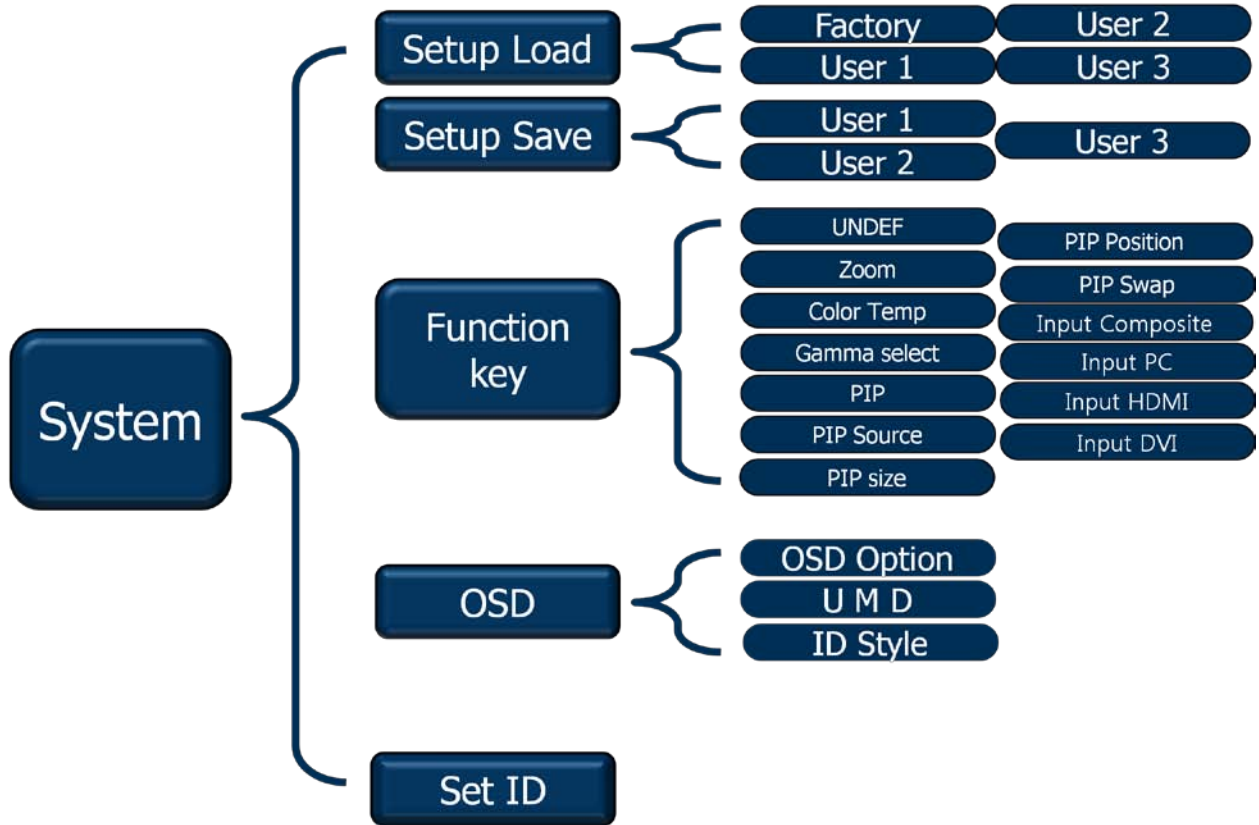
2) *Image*



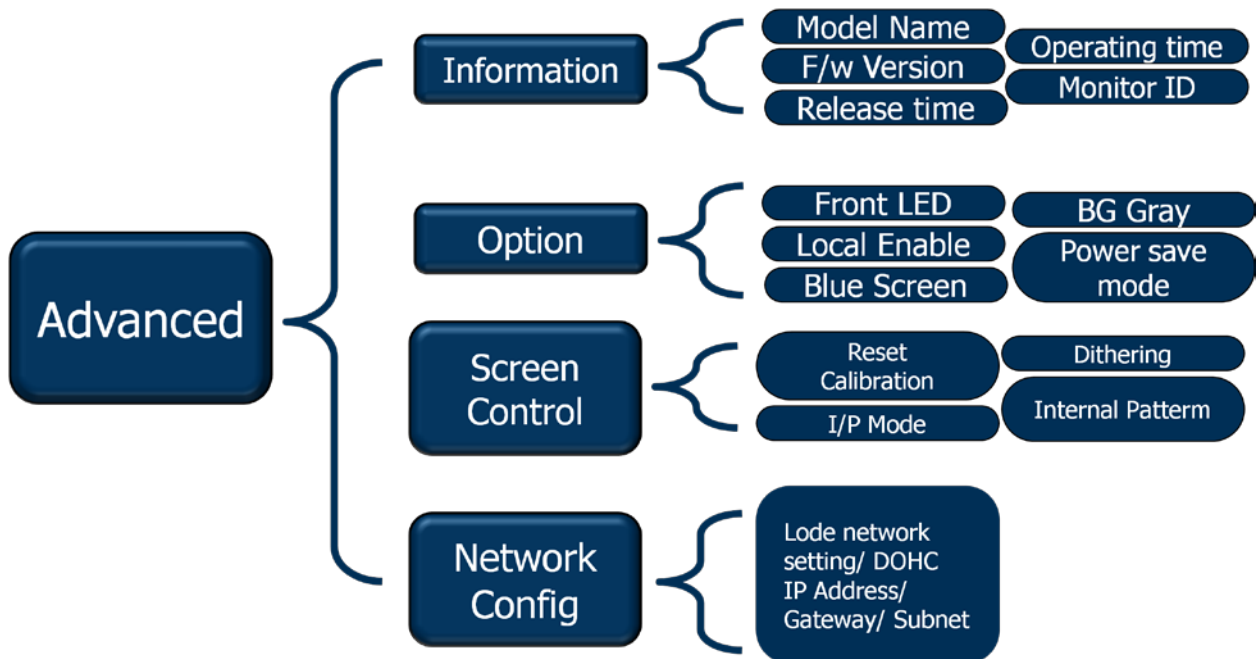
3) *Marker*



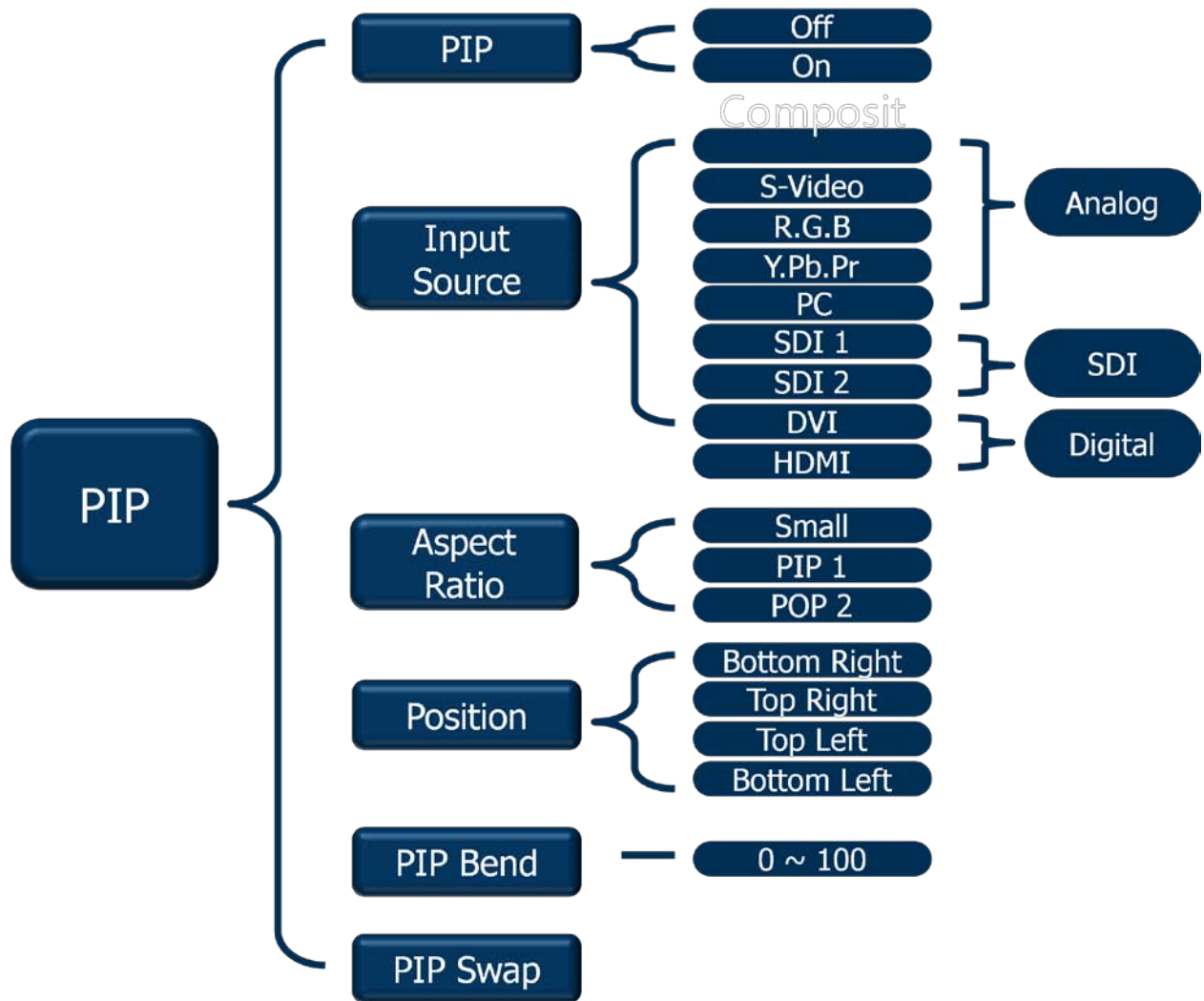
4) *System*



5) *Advanced*



6) PIP



15. **SUPPORTED INPUT MODES**

1) **Supported Signals**

Items		Specifications
LCM-119	Panel	TFT LCD Panel 18.5 inch
	Resolution	1366(H) × 768(V) (Contrast 1000:1)
	Brightness	250 cd/m2
	Viewing Angle	R/L 85/85(Typ), U/D 80/80 (Typ)
LCM-123	Panel	TFT LCD Panel 23 inch
	Resolution	1920 horizontal. by 1080 vertical.(Contrast 1000:1)
	Brightness	250 cd/m2
	Viewing Angle	R/L 89/89(Typ), U/D 89/89 (Typ)
Supported Signals	Serial Digital Interface	SMPTE-425M 1920x1080P(50/60)
		SMPTE-274M 1920x1080i (50/60), 1920x1080P(24/25/30)
		SMPTE-296M 1280x720P (50/59.94/60)
		SMPTE-125M(480i/59.94), ITU-R BT601(576i/50)
	HDMI DVI-D	H Frequency Range : 20~82 kHz
		V Frequency Range : 55 ~ 90 Hz
		Maximum resolution :1920x1080 60Hz
		Maximum pixel rate : 162 MHz
		DTV mode support : 720P, 1080i, 1080p
	ANALOG RGB	H Frequency Range : 20~82 kHz
		V Frequency Range : 55 ~ 90 Hz
		Maximum resolution : 1920x1080 60Hz
		Maximum pixel rate : 162 MHz
		DTV mode support: 720P/1080i/1080p
	ANALOG Component (DTV/DVD) CVBS	SOG sync support
		1080p
		1080i
		720P
		480i / 576i
	480P / 576P	

2) **Supported Timings**● **PC & DVI input**

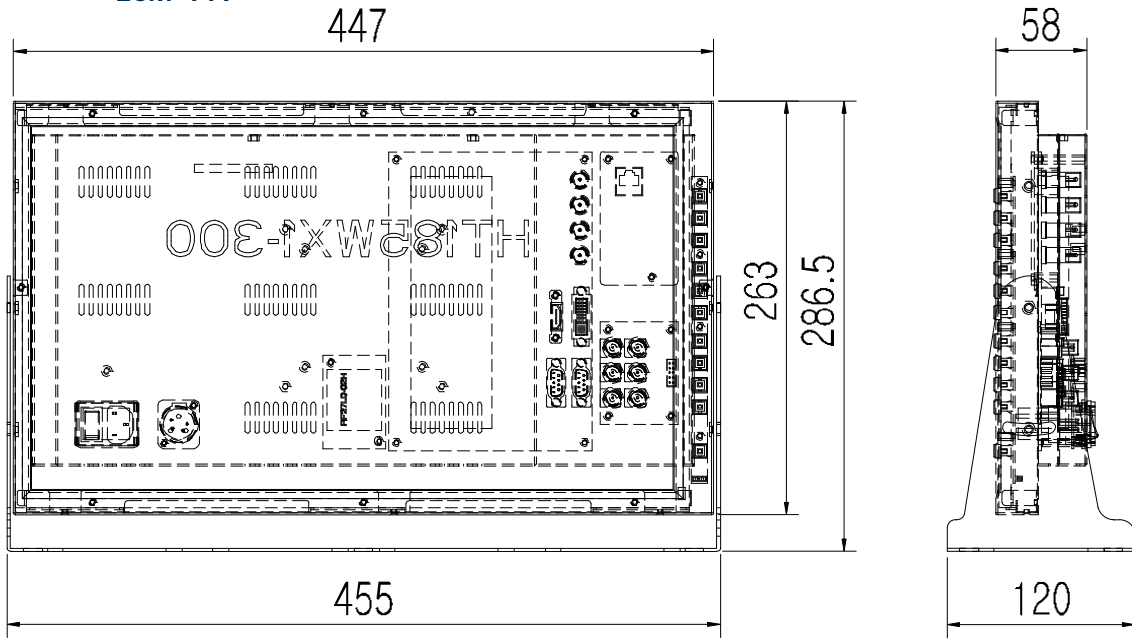
Section	Resolution	H Frequency (kHz)	V Frequency (Hz)	Pixel Frequency (MHz)	Comment
PC	640x400	37.861	85.08	31.5	
	640x350	31.469	70.087	25.175	
	640x350	37.861	85.08	31.5	
	640x480	31.469	59.94	25.175	
	640x480	35.000	66.667	30.24	
	640x480	34.940	69.884	28.513	
	640x480	37.861	72.809	29.765	
	640x480	37.500	75.0	31.5	
	640x480	43.269	85.008	36.0	
	640x480	45.540	90.0	37.889	
	720x400	31.469	70.087	28.322	
	720x400	37.927	85.039	35.5	
	800x600	35.156	56.25	36.0	
	800x600	37.879	60.317	40.0	
	800x600	43.764	70.02	45.513	
	800x600	48.077	72.188	50.0	
	800x600	46.875	75.0	49.5	
	800x600	53.674	85.061	56.25	
	800x600	56.880	90.0	60.065	
	832x624	49.726	74.551	57.284	
	1024x768	48.780	60.001	64.11	
	1024x768	48.363	60.004	65.0	
	1024x768	56.476	70.069	75.0	
	1024x768	57.703	72.039	78.476	
	1024x768	60.241	74.927	81.724	
	1024x768	60.030	75.029	78.75	
	1024x768	68.677	84.997	94.5	

	1024x768	72.810	90.0	100.187	
	1152x864	53.700	60.0	81.624	
	1152x864	62.932	69.924	96.663	
	1152x864	67.500	75.0	104.993	
	1152x870	68.681	75.062	100.0	
	1152x900	61.846	66.0	94.787	
	1152x900	72.713	76.047	105.561	
	1280x720	47.760	60.0	74.481	
	1280x720	52.500	70.0	89.040	
	1280x720	54.072	72.0	91.706	
	1280x720	56.400	75.0	95.654	
	1280x768	60.150	75.0	102.977	
	1280x960	60.000	60.0	102.104	
	1280x960	59.640	60.0	102.104	
	1280x1024	63.337	59.978	108.18	
	1280x1024	63.981	60.02	108.0	
	1280x1024	64.754	60.06	108.992	
	1280x1024	63.600	60.0	108.883	
	1360x768	47.700	60.0	84.700	
	1600x1200	75.000	60.0	162.000	

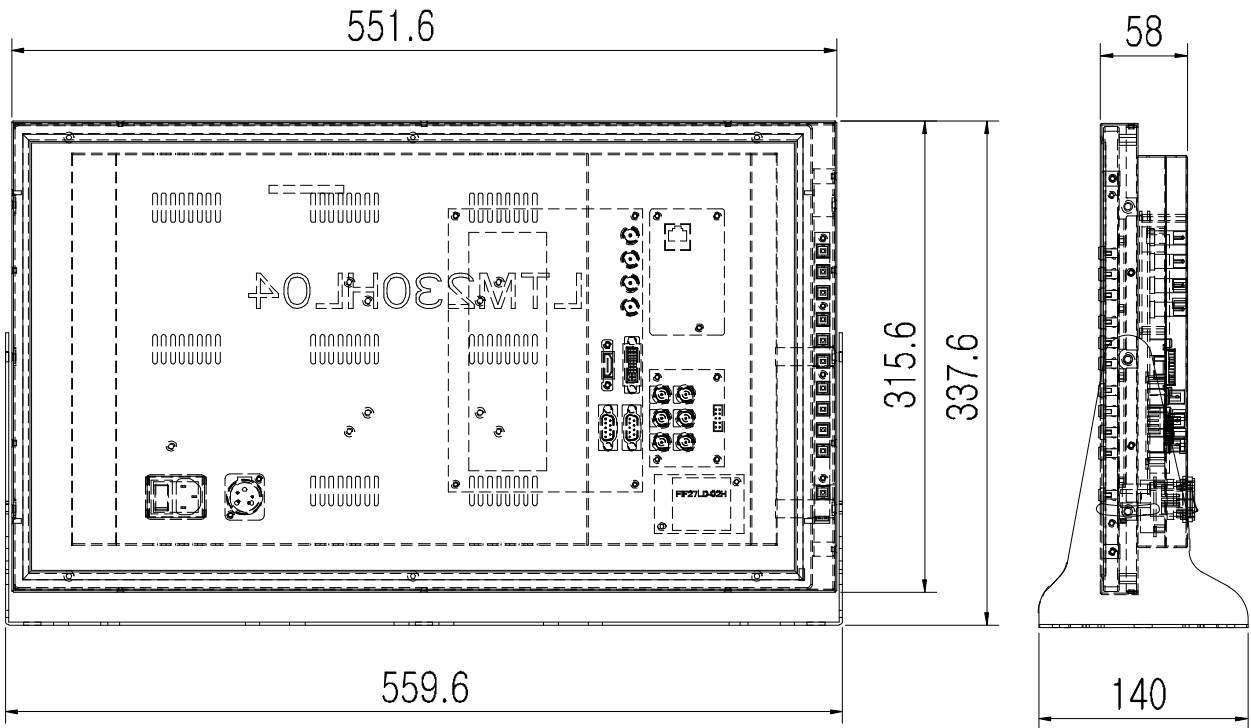
DTV	720x480	15.735	59.94	13.500	Interlaced
	720x576	15.735	50.0	13.595	Interlaced
	720x480	31.469	59.94	25.175	
	720x576	31.250	50.0	26.566	
	1280x720	44.964	59.94	74.176	
	1280x720	37.500	50.0	60.466	
	1920x1080	33.750	60.0	74.25	Interlaced
	1920x1080	28.125	50.0	70.723	Interlaced
	1920x1080	31.250	50.0	72.000	Interlaced
	1920x1080	67.5	60	148.5	Progressive

3) Mechanical Dimension

- LCM-119



- LCM-123



16. *Trouble Shooting*

Solutions to common problems related to the monitor are described here.

If none of the solutions presented here solves the problem, unplug the monitor and consult an Authorized Dealer or Service Center.

NO	Symptom	Probable cause and corrective action	Page
1	No power	<ul style="list-style-type: none"> Firmly insert the Power Cord. Check the power. (100V ~220V) 	
2	No picture with the power on	<ul style="list-style-type: none"> Connect the signal cable firmly. Turn on the power of the connected component and set the output correctly. Check if the input signal format is acceptable to the monitor. 	
3	No sound	<ul style="list-style-type: none"> Connect the signal cable firmly. Adjust Volume Level. 	
4	Wrong color, no color	<ul style="list-style-type: none"> Check if the Hue is set up with basic value from the menu. Check if the color temperature is in basic value. 	
5	Wrong picture position, wrong picture size	<ul style="list-style-type: none"> Check if Pixel to Pixel mode is on. Adjust the picture size (H/V Position) 	
6	Menu does not appear on the screen or it is shaking	<ul style="list-style-type: none"> Items which are not available for the current input or the current input signal are not displayed on the menu. Change input or the input signal. Check if the input signal format is acceptable for the monitor. 	

17. *Maintenance*

▪ When a still image is displayed for a long time, it may appear incorrectly due to heating on the screen. This is due to the characteristics of the LCD display and is not a malfunction. Power cycle the monitor, and the image will reset.

▪ Random fixed color dots (“stuck pixels”) on the panel surface are a normal characteristic of LCD displays, and are not a problem. The LCD display is built with very high precision technology. However, be aware that a few very small pixels may be affected by each other or lighting.

▪ Periodic maintenance inspection time of backlight is about 50,000 hours.

▪ Periodic maintenance inspection time of fan motor (option) is about 10,000 hours.



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