LCD Rack Monitor

PRM-502LE

MULTI-FORMAT LCD MONITOR

User's Manual

postium

Contents

PRM-502LE

Warning

· Always use set voltage.
  - DC 12V
· If liquid is spilled on or impacts this product, please disconnect the product immediately and contact for professional help before continuing use.
· Keep unit disconnected during extended periods of disuse.
· Keep unit in a well-ventilated place to prevent overheating.
· Do not install the product near any heat-generating equipment.
· Keep the product out of direct sunlight or dusty areas.
· Only clean the product with a noncommercial, mild, and neutral detergent.
· When transporting the product, make use of its original packaging for safer transport.

FCC (Federal Communications Commission)

This equipment has been tested and found to comply with the limits for class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interface when the equipment is operated in a commercial environment.
This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.
Operation of this equipment in a residential to correct the interference at his own expense

⚠**Warning!!** : Change or modifications not expressly approved by the manufacturer responsible for compliance void the user's authority to operate the equipment.

Disposal of Old Electrical & Electronic Equipment
(Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packing indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequence for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources.

Features

PRM-502LE Multi-Format Rack Monitor features:

· **Wide Support for SDI Signals**
- 480i (59.94),576i (50) 576p (50),720p (60/59.94/50),1035i (60/59.94),1080i (60/59.94/50), 1080p (30/29.97/25/24/24sF/23.98/23.98sF), 2K (2048x1080 – 23.98psf/24psf/23.98p/24p)

· **BLUE ONLY/ MONO**

· **H/V Delay**

· **Markers & Safety Areas**
Center Marker, Safety Area Marker, Aspect Marker, Display Size (Scan)

· **1:1 Pixel To Pixel**
Provides both full screen and unscaled native image.

· **Dynamic UMD(Under Monitor Display)**
Small, medium, and large size display.
Possible to control monitor up to maximum value of 100 by Set ID Menu.

· **Wide Screen (800X480) with LED Backlight**

· **24bit RGB CMOS Interface Panel**

· **DC Compatible**
powered by a normal 12V source.

Additional Features :

· **600:1 Contrast Ratio**

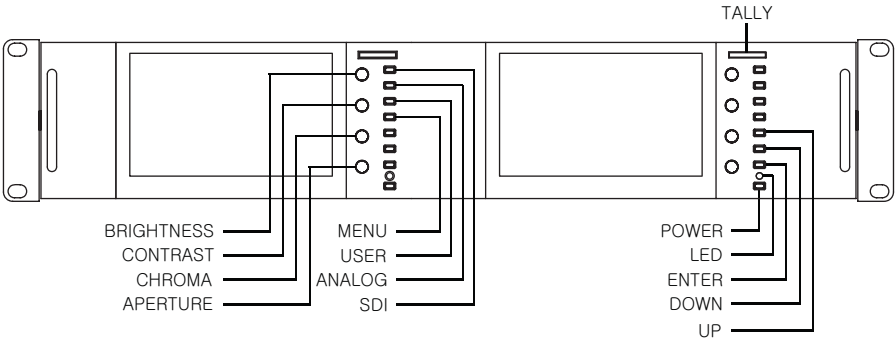
· **300 cd/m2 Brightness**

· **OSD user interface**

· **Rack Mountable**

Feature Name & Functions

<FRONT>



· **[BRIGHT] knob**
Used to adjust the degree of brightness between MAX(25) and MIN(-25).

· **[CONTRAST] knob**
Used to adjust the contrast ratio between MAX(25) and MIN(-25).

· **[CHROMA] knob**
Used to adjust color saturation between MAX(25) and MIN(-25).

· **[APERTURE] knob**
Used to adjust the aperture between MAX(12) and MIN(-12).

· **[SDI] button**
Used to select SDI A / SDI B Input (toggle).

· **[ANALOG] button**
Used to select desired Analog Input (CVBS1/2/3, S-Video, Component, RGB).

· **[MENU] button**
Used to activate the OSD Menu.

· **[USER] button**
Used to activate function selected by User key menu.
(OSD menu – System page2 – User key)

· **[UP] button**
Used to navigate menu during OSD Menu activation.
It may also be used to toggle clockwise through 1:1 quadrants in Native Scan Mode.

· **[DOWN] button**
Used to navigate menu during OSD Menu activation.
It may also be used to toggle counterclockwise through 1:1 quadrants in Native Scan Mode.

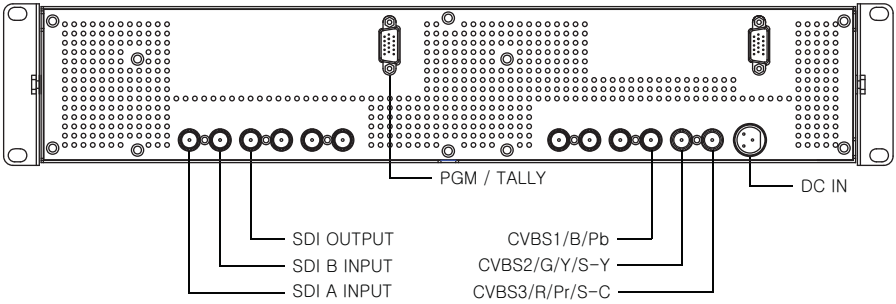
· **[ENTER] button**
Used to confirm selected value (or mode) within the OSD Menu.
This can be used to control the position of Waveform in small overlay mode.

· **[POWER] button**
Power On/Off button.
If the signal is normal, LED will be illuminated Green.
If the signal is unsupported or disconnected, LED will be illuminated Yellow.

· **TALLY**
LED indicating monitor's current status using the Tally connector.

Feature Name & Functions

<REAR>



· **SDI A-IN (BNC)**
SDI A Signal Input Terminal

· **SDI B-IN (BNC)**
SDI B Signal Input Terminal

· **SDI-OUT (BNC)**
SDI Signal Output Terminal

Connector	Composite	Component	RGB	S-Video
1	CVBS1	Pb	B	No Con.
2	CVBS2	Y	G	Y
3	CVBS3	PR	R	C

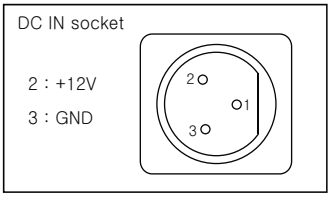
· **CVBS1/B/Pb (BNC)**
Signal input terminal for COMPOSITE1, RGB B, COMPONENT Pb signals.

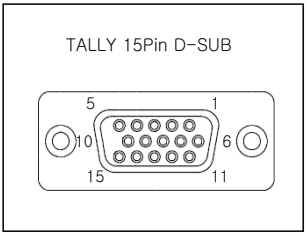
· **CVBS2/G/Y/S-Y (BNC)**
Signal input terminal for COMPOSITE2, RGB G, COMPONENT Y, SVIDEO Ysignals.

· **CVBS3/R/Pr/S-C (BNC)**
Signal input terminal for COMPOSITE3, RGB R, COMPONENT Pr, SVIDEO C signals.

· **PGM / TALLY (15pins)**
Input connector for FACTORY PGM for firmware updates OR
Input connector for Tally control.

· **DC IN (3 pins)**
Used to supply DC power; 12V

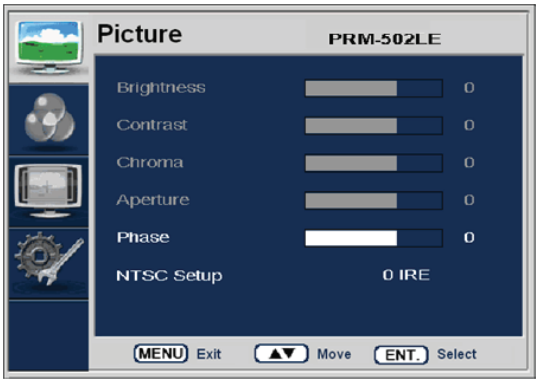




PIN1	PIN1	PIN1	PIN4 ~ 15
Tally R	Tally G	GND	PGM (Do Not Connection)

OSD Menu Organization & Adjustment

[1] MAIN - Picture



· **Brightness**
This Item indicates brightness level.
#Brightness can be adjusted by using the [BRIGHT] control knob on the front of the monitor.

· **Contrast**
This item indicates contrast level.
#Contrast can be adjusted by using the [CONTRAST] control knob on the front of the monitor.

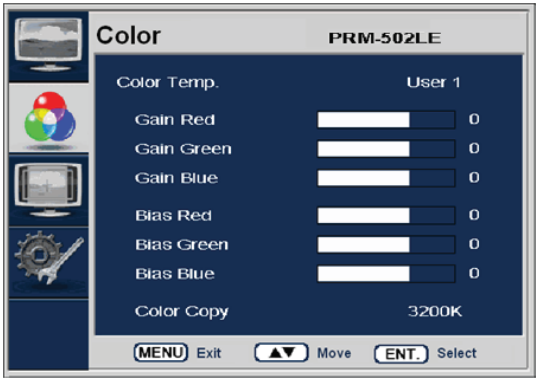
· **Chroma**
This item indicates saturation level.
#Saturation can be adjusted by using the [CHROMA] control knob on the front of the monitor.

· **Aperture**
This item indicates picture sharpness level.
#Sharpness can be adjusted by using the [APERTURE] control knob on the front of the monitor.

· **Phase**
This item controls Phase value (Hue).
#This function is only available in Composite and S-Video NTSC Input.

· **NTSC Setup**
This item sets IRE value in NTSC mode between 0 IRE and 7.5 IRE.
#This function is only available in NTSC Input.

[2] MAIN - Color



· **Color Temp**
This item controls Color Temperature with presets of 3200K, 5600K, 6500K, 9300K, and User1, User2, User3 mode.

· **User**
In User Mode, allows selection and control of RGB GAIN and BIAS values by using the [UP]/[DOWN]/[ENTER] buttons.

· **Color Copy**
In User mode, copies presets of 3200K, 5600K, 6500K, or 9300K to make the custom adjustment by using the [UP]/[DOWN]/[ENTER] buttons.

[3] MAIN - Marker

· **Marker**
Used to show MARKER on the screen. The type of marker displayed may be selected on the other menu.
-This function is not available in 1:1 Pixel to Pixel and HV Delay modes.

· **Line Marker**
This selects the marker type when the MARKER is displayed on the screen.
Compatible MARKER types are as follows:

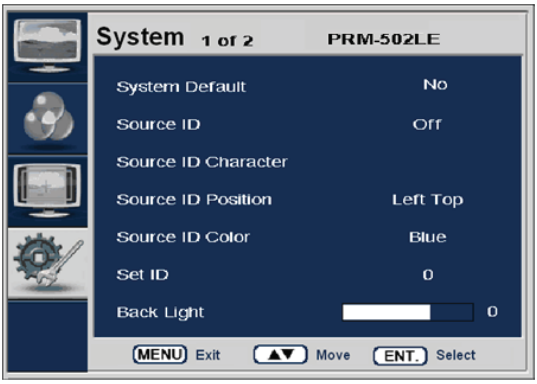
MODE	MAKER CLASS
HD / SD 16:9	16:9, 4:3, 4:3 ON AIR, 15:9, 14:9, 13:9, 1.85:1, 2.35:1, 1.85:1 & 4:3
SD 4:3	16:9

· **Center Marker**
This item displays the CENTER MARKER on the screen.

· **Safety Area**
This item controls the size of the SAFETY AREA between 80%, 85%, 88%, 90%, 93%, and 100%.

-Line Marker, Center Marker, and Safety Area functions operate only after activating the MARKER function to the' On' position in the Marker Menu.

[4] System - [page1]



· **System Default**
Allows System Default selection to initialize the default values of the monitor.

· **Source ID**
This item is used to activate the Source ID display by selecting Manual(BG), Manual(Char), UMD(Small), UMD(Medium), or UMD(Large). This function is only available in same Set ID with UMD controller's.

· **Source ID Character**
This item is used to customize the Source ID display. (A~Z, a~z, 0~9, and special characters). This function is only available if the Source ID is set on Manual.

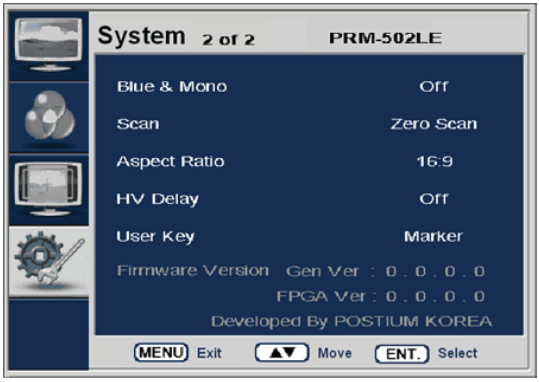
· **Source ID Position**
This item controls the position of the Source ID display. (Top-Left, Top-Center, Top-Right, Bottom-Right, Bottom-Center, Bottom-Left). This function is only available if the Source ID is set on Manual.

· **Source ID Color**
This item is used to change the color of Source ID display by selecting blue, white, red, green, black, or yellow.

· **Set ID**
This item controls the Set ID settings for UMD. The value should be within 0 and 99.

· **Back Light**
This item controls the LED backlight setting. The value should be within MIN(0) and MAX(15).

[5] System - [page2]



· **Blue & Mono**
You may remove R(red) and G(green) from the input signal and show only the B(blue) signal.
Menu may be set to 'Mono' to change the screen to MONO mode.
(This mode uses only the Luminance value)

· **Scan**
This item controls selection between Zero Scan -> Over Scan -> Pixel To Pixel modes.
-In 1:1 Pixel to Pixel mode, the Marker Feature and Menu are disabled automatically.
-In 1:1 Pixel to Pixel mode, pressing the Enter button rotates the position of display.

· **Aspect Ratio**
This item toggles aspect ratio in SD from standard to anamorphic.
-SD Signal only (Disables automatically in any other signal including No signal)

· **HV Delay**
This item activates the HV Delay mode.
-In HV Delay mode, Marker Feature, and Menu are disabled automatically.

· **User Key**
This item sets function for front USER button.
- You can select the function of Marker, Source ID, Blue&Mono, Scan, Aspect Ratio and HV Delay.

· **Firmware Version**
This item is the firmware version of the system.

· **License**
Licensed by Postium Korea Co., Ltd.

Other Functions

[1] 1:1 Pixel to Pixel

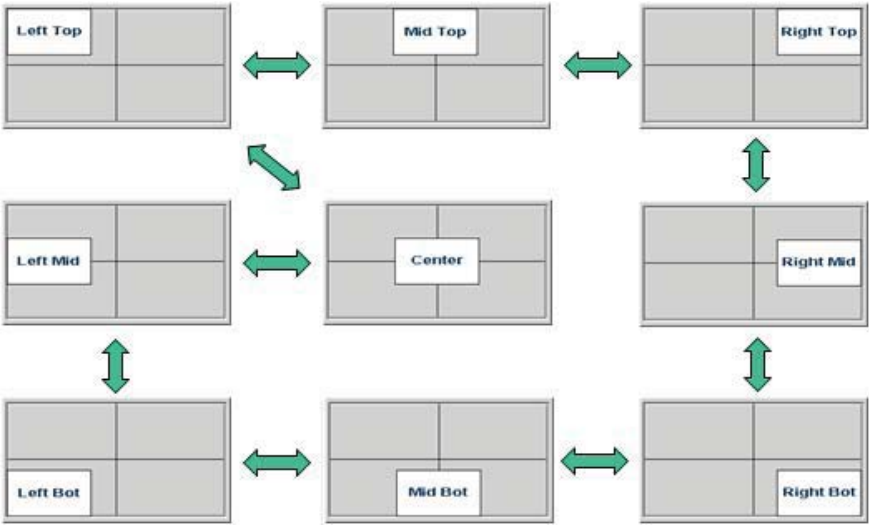
· PRM-502A monitor's 1:1 Pixel to Pixel mode displays the input signal without scaling the image.

· To activate 1:1 Pixel to Pixel mode, access the Scan Menu in System Menu and select [Pixel to Pixel].

· In the [Pixel To Pixel] mode, use the [UP]/[DOWN] buttons to toggle between 1:1 scan sections

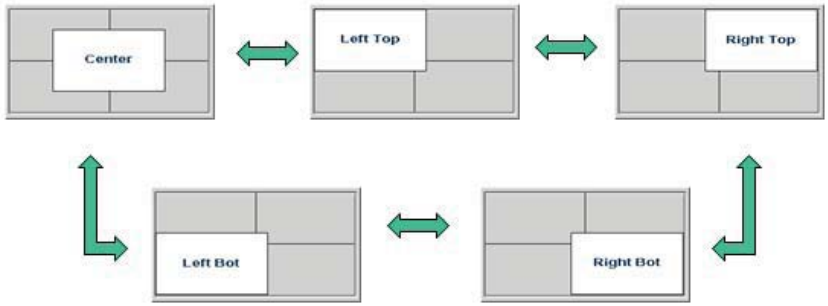
Input	Action Button	Available Modes
HD 1080i / 1080p	[UP] (Clockwise)	Center -> Left-Top -> Mid-Top -> Right-Top -> Right-Mid -> Right-Bottom -> Mid-Bottom -> Left-Bottom -> Left-Mid -> Center -> ...
	[DOWN] (Opposite)	Center -> Left-Mid -> Left-Bottom -> Mid-Bottom -> Right-Bottom -> Right-Mid -> Right-Top -> Mid-Top -> Left-Top -> Center -> ...

- OSD change



Input	Action Button	Available Modes
HD 720p	[UP] (Clockwise)	Center -> Left-Top -> Right-Top -> Right-Bottom -> Left-Bottom -> Center -> ...
	[DOWN] (Opposite)	Center -> Left-Bottom -> Right-Bottom -> Right-Top -> Left-Top -> Center -> ...

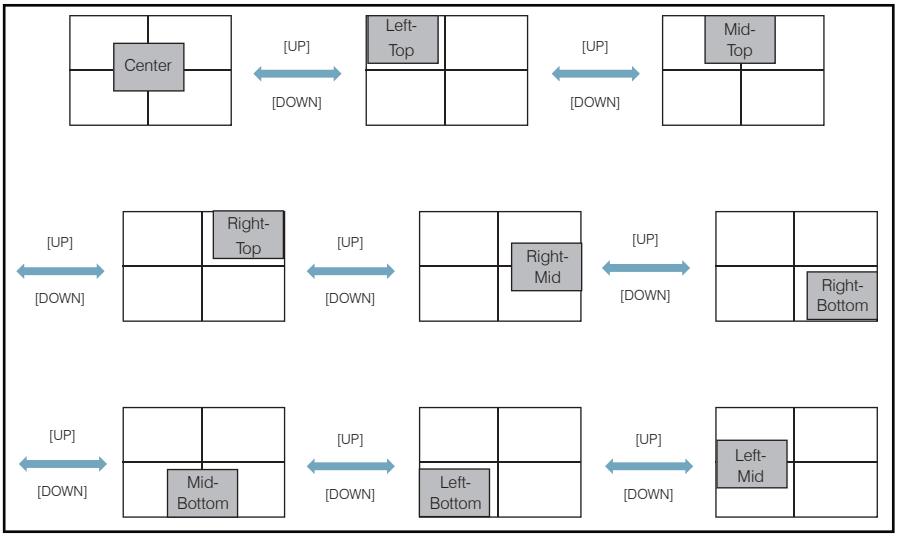
- OSD change



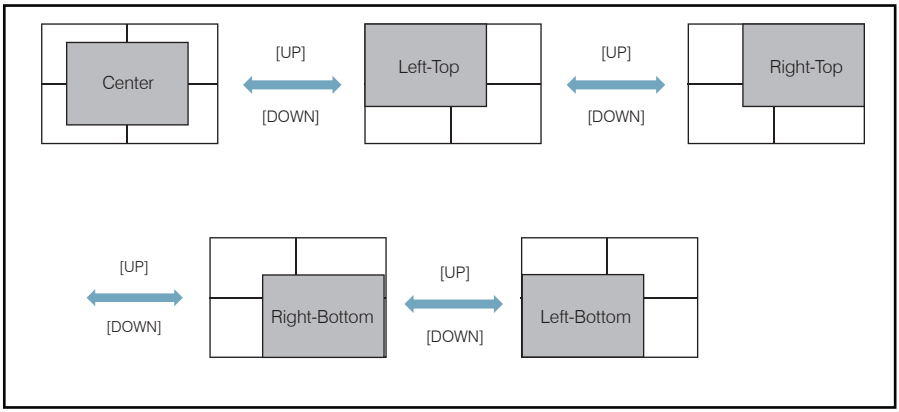
· Pixel To Pixel mode is not available in Graphic mode.

· Pixel To Pixel mode is available in SD mode, but 1:1 sections cannot be rotated through as with HD sources.

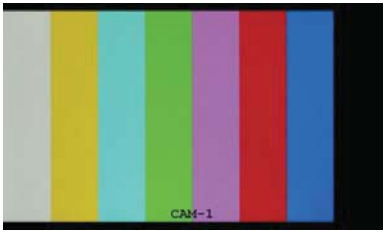
· Positions in HD Signal 1080i/1080p mode

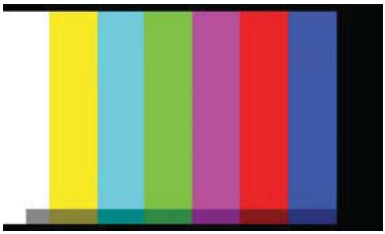
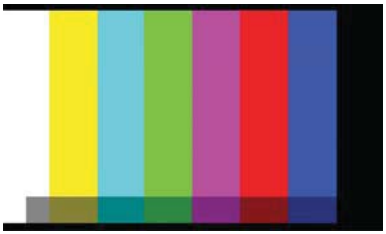


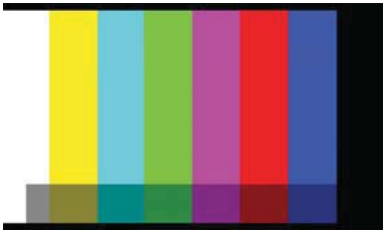
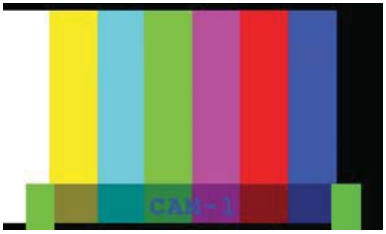
· Position in HD Signal 720p mode



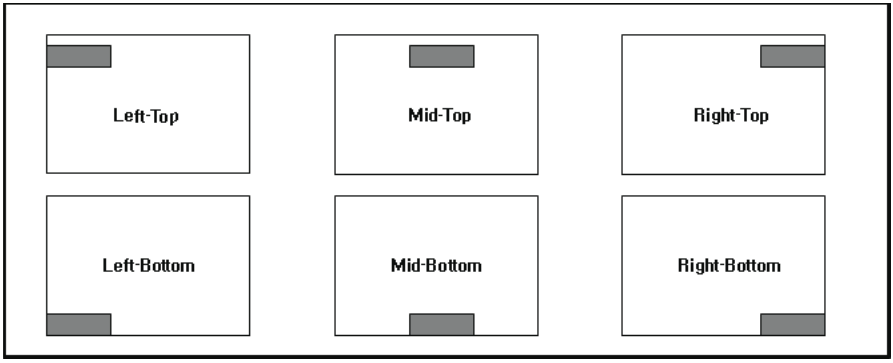
[2] Source ID

Manual (BG)	Manual (Char)
	

UMD (Small)	UMD (Medium)
	

UMD (Large)	UMD Usage Example
	

· Source ID Position (Manual Only)



· Source ID Color

Blue	White	Red	Green	Black	Yellow
CAM-1	CAM-1	CAM-1	CAM-1	CAM-1	CAM-1

System Default Value

MENU		VALUE
Picture	Brightness	0
	Contrast	0
	Chroma	0
	Aperture	0
	Phase	0
	NTSC Setup	7.5 IRE
Color	Color Temp	6500K
	Gain RED (1/2/3)	0
	Gain GREEN (1/2/3)	0
	Gain BLUE (1/2/3)	0
	Bias RED (1/2/3)	0
	Bias GREEN (1/2/3)	0
	Bias BLUE (1/2/3)	0
	Color Copy	6500K
Marker	Marker	Off
	Line Marker	Off
	Center Marker	Off
	Safety Area	Off
System [Page1]	System Default	No
	Source ID	Off
	Source ID Character	C A M - 1
	Source ID Position	Left Top
	Source ID Color	Blue
	Set ID	0
	Back Light	10
System [Page2]	Blue & Mono	Off
	Scan	Zero Scan
	Aspect Ratio	16:9
	HV Delay	Off
	User Key	Marker

Product Specification

Input (1 Screen)		Analog Input
	3 x BNC	SDI 2 Channel Input
Output (1 Screen)	1 x BNC	SDI Output (Active Through Out)
Input Signal	Composite	1.0Vpp (With Sync)
	S-Video	1.0Vpp (Y With Sync), 0.286Vpp (C)
	Component	1.0Vpp (Y With Sync), 0.7Vpp (Pb,Pr)
	RGB	1.0Vpp (G With Sync), 0.7Vpp (B,R)
	HD-SDI	1.458Gbps
	SD-SDI	270Mbps
Analog Input Signal Formats	Composite / S-Video	NTSC (525/59.94i), PAL (625/50i)
	Component / RGB (SOG)	480i(59.94), 576i(50), 480P(59.94), 576P(50)
		1080i (60/59.94/50)
		1080p (30/29.97/25/24/24sF/23.98/23.98sF)
		720P (50/59.94/60)
SDI Input Signal Formats	SMPTE-274M	1080i (60/59.94/50)
		1080p (30/29.97/25/24/24sF/23.98/23.98sF)
	SMPTE-296M	720p (23.98/24/25/29.97/30/50/59.94/60)
	SMPTE-260M	1035i (60/59.94)
	SMPTE-125M	480i (59.94)
	ITU-R BT.656	576i (50)
	2K Format	2048 x 1080 (23.98psf/24psf/23.98psf/24p)
LCD	Size	5 Inch
	Resolution	800 x 480 (15:9)
	Pixel Pitch	0.135(H) x 0.135(V)mm
	Color	16.7M(true), 24bit
	Viewing Angle	H : 170 degrees
		V : 170 degrees
	Luminance of White	300 cd/m²(Center)
	Contrast	600:1
	Display Area	108.0 (H) x 64.8 (V)mm
Power		12V DC
Power Consumption (Approx.)		11 Watts(DC)
Operating Temperature		0°C to 40°C (32°F to 104°F)
Storage Temperature		-30°C to 50°C (-22°F to 122°F)
Main Body Dimensions (mm/inch)		
Main Body Dimensions (With Rack Bracket)		
Weight		
Accssory		DC Power Adapter
Option		19" Rack Mountable Kit (2U)(Dual Monitor)

· **All specifications subject to change without notice**

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