12G-SE Studio / Broadcast Monitor

15.6"/23.6"/28"/31" with 3840×2160 Resolution

User Guide







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Important Safety Instructions:

- Please read User Guide before using this product.
- Please keep User Guide for future reference.

5/G24/G2<mark>6/G3</mark>Model No.

• Please read the precaution to prevent possible danger and loss of property.

Precaution:

- Please do not place the display screen towards the ground.
- Please avoid heavy impact or drop onto the ground.
- Please do not use chemical solutions to clean this product. Please wipe with a clean soft cloth to maintain the brightness of the surface.
- Please do not block any vent hole.
- Please follow the instructions and trouble-shootings to adjust the product. Other improper adjustment may result in damage. Any further adjustment must be performed or conducted by a qualified technician.
- Please unplug the power and remove the battery if long-term no-use, or thunder weather.

1. Main Features

- Support standard 12G-SDI input interface (x2), 3G-SDI input interface (x2), and support Single-Link, Dual-Link and Quad-Link signals.
- Support HDMI 2.0/ 1.4 inputs and loop outputs.

S/G24/G26/CE

- Support SFP input, optical module for optional.
- Support Quad Split Multiview
- Input signals support 3840x2160 60/ 59.94/ 50/ 30/ 29.97/ 25/ 24/ 23.98p and
 4096x2160 60/ 59.94/ 50/ 48/ 47.95/ 30/ 29.97/ 25/ 24/ 23.98p; Signal loop out.
- 12 bits data processing and 12 bits data buffering
- Monitor control via GPI/ RS422/ LAN.
- Customized Menu Knob.
- Various waveform mode: Waveform/ Vector/ Histogram/ Audio Vector/ Level Meter.
- HDR (High Dynamic Range) display supporting ST 2084/ Hybrid Log Gamma.
- Gamma selection: 1.8-2.8.
- Custom 3D LUT file load through USB.
- Gamut supporting SMPTE-C/ Rec709/ EBU.
- Color Space/ HDR/Gamma / Camera Log comparison with original (side by side).
- Color Temperature: 3200K/ 5500K/ 6500K/ 7500K/ 9300K/ User.
- False Color: Default/ Spectrum/ ARRI/ RED.
- Aspect Marker (16:9/ 1.85:1/ 2.35:1/ 4:3/ 3:2/ 2.0X/ 2.0X MAG/ Grid/ User).
- Aspect (Full/ 16:9/ 1.85:1/ 2.35:1/ 4:3/ 3:2/ 2.0X/ 2.0X MAG).
- Audio Vector, Level Meter, (HDMI support 8 channels / SDI support 16 channels).
- Time Code: LTC/ VITC.
- UMD display: White/ Red/ Green/ Blue/ Yellow/ Cyan/ Magenta text color
- Color Bar Mode: Rec601/ Rec709/ BT2020.
- Check Field: Red/ Green/ Blue/ Mono.
- Zoom at any position and at different scale.
- Peaking (Red/ Green/ Blue/ White/ Black).
- Tally (Red/ Green/ Yellow).



2. Production Description

2.1 Front Panel

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1) Earphone Jack

2) USB (For 3D LUT load and software update)

- 3) SDI Buttons
- Single Button / Lamp: SDI1/ SDI2/ SDI3/ SDI4/ SFP signal input.
- MV1 Input Button (Quad Mode): SDI1/SDI2/SDI3/SDI4/SFP/HDMI signal input.
- 2SI Button / Lamp
- MV2 Input Button (Quad Mode): SDI1/SDI2/SDI3/SDI4/SFP/HDMI signal input.
- Square Button / Lamp
- MV3 Input Button (Quad Mode): SDI1/SDI2/SDI3/SDI4/SFP/HDMI signal input
- 4) HDMI Button / Lamp
- MV4 Input Button (Quad Mode): SDI1/SDI2/SDI3/SDI4/SFP/HDMI signal input

4

5) F1 / F2 / F3 / F4 Button and Lamp

Assigned function by factory as follow:

- [F1]: Peaking - [F3]: Waveform



- [F2]: Level Meter

- [F4]: Color Space

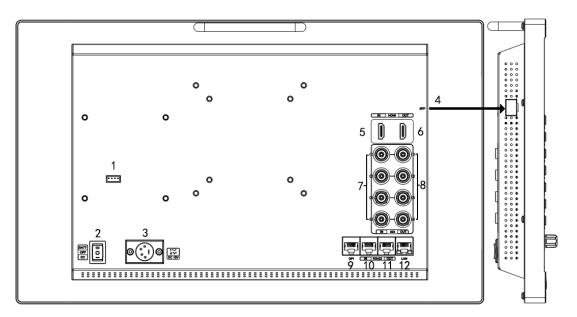
6) Exit Button

Under Quad Mode: Display the signal input status

- 7) Menu Knob
- 8) TALLY (indicator light)

2.2 Rear Panel

2.2.1 Interfaces



1) 4 pin power input for V-mount/ Anton Bauer mount battery plate.

2) Power Switch: "O" is power off, "II" is battery power supply, "I" is DC power

supply.

- 3) Power IN: 4-pin XLR DC.
- 4) SFP Input
- 5) HDMI 2.0 Input
- 6) HDMI 2.0 Output
- 7) SDI Input
 - 12G-SDI Input *2
 - 3G-SDI Input *2
- 8) SDI Output
 - 12G-SDI Output *2



- 3G-SDI Output *2

9) GPI Input (RJ45, 8-pin): See Page 22 GPI 1-8.

10) RS422 Input (RJ45, 8-pin): Supporting the default and TSL V3.1 protocols to control Monitor.

PIN Number	Instruction
PIN 1	Υ
PIN 2	Z
PIN 3	А
PIN 4	NC
PIN 5	NC
PIN 6	В
PIN 7	NC
PIN 8	GND

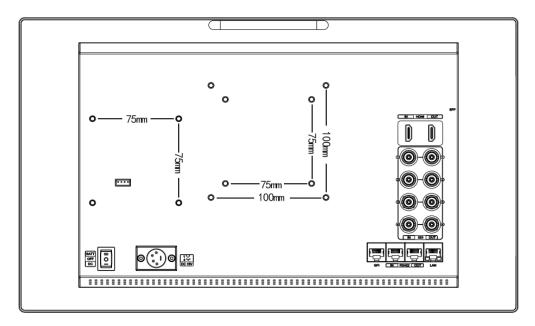
Follow this instructions about this port.

11) RS422 Output (RJ45, 8-pin): Supporting the default and TSL V3.1 protocols to control Monitor. The instructions about the port is as above.

12) LAN (10/ 100) Input (RJ45): Supporting the default protocol to control Monitor.

Note: The "Remote Terminal.exe" as default protocol to control Monitor.



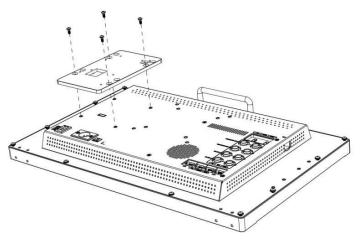


MODEL NO .:

- Standard 75mm*75mm is used for external battery (V-mount/ Anton Bauer mount battery).
- Standard 75mm*75mm and 100mm*100mm, can be used for external hanging bracket.

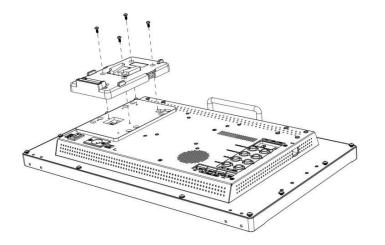
Process of Installing Battery Plate:

- Install the plate base before installing the battery plate.



- Standard with V-mount battery plate: Referring to the following pictures for installation process and GP-L130AB type battery.

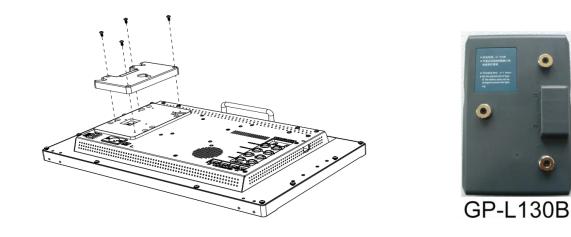
NODEL NO.: STUDIO / BROADCAST MONITOR





- Optional Anton Bauer battery plate. Referring to the following pictures for

installation process and GP-L130B type battery.



3. Menu Setting

Before setting the functions, please make sure the device is connected correctly.

3.1 Shortcut keys

3.1.1 Menu Knob

- Power on the monitor, press Menu Knob to display OSD, and select options as the following sequence via rotating it: PICTURE/ MARKER/ FUNCTION/ WAVEFORM/ AUDIO/ REMOTE/ SYSTEM.
- Press Menu Knob to enter the desired function, rotate it to change the value/ option, and press Menu Knob or Exit again to confirm the changes.

Functions of Menu Knob can be customized: [Back Light], [Brightness], [Contrast],
 [Saturation], [Tint], [Sharpness], [Volume], [Peaking Level]. After setting the
 Knob's customized function, rotating it can display the function, and rotating it
 again can adjust the value. Press it to switch to the next option in turn. Default
 option: [Volume].

3.1.2 F1-F2-F3-F4 Buttons:

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- Long press any F1-F2-F3-F4 buttons for 3-5 seconds to pop up shortcut menu on the screen. As shown in Figure.
 Select option via rotating the Menu Knob, and set it as default via pressing the Knob, then press Exit button to exit shortcut setting menu. The customized function will be remembered by F1/F2 buttons.
- Functions of F1-F2-F3-F4 buttons can also be customized: [Center Marker], [Aspect Marker], [Safety Marker],
 [Overscan], [Scan], [Aspect], [Color Space], [Gamma],
 [Camera Log], [Check Field], [H/V Delay], [Freeze], [Color Bar], [Peaking], [False Color], [Exposure], [Histogram],
 [Waveform], [Vector], [Time Code], [Mute], [Level Meter], [Audio Vector] and [MV Mode].

Aspect Marker Safety Marker Overscan Scan Aspect Color Space Gamma Camera Log Check Field H/V Delay Freeze Color Bar Peaking False Color Exposure

Center Marker

Default function: F1: [Peaking]
 F2: [Waveform].
 F3: [Level Meter]
 F4: [Color Space].

3.2 MENU Operations

3.2.1 PICTURE



SDI Mode					HDMI Mo	de
PICTURE				PICTU	RE	
	Brightness	50			Brightness	50
E	Contrast	50		Œ	Contrast	50
	Saturation	50			Saturation	50
FN	Tint	50		FN	Tint	50
M	Sharpness	0		M.	Sharpness	0
	Color Space	Rec709			RGB Range	Limited
	Camera Log	Off			HDMI EDID	4K
-	Def. Log	SLog2T oLC -709			Color Space	Rec709
\$	SD12			*	HDMI	

Brightness

Control the degree of brightness between 0-100.

• Contrast

Control contrast ratio between 0-100.

Saturation

Adjust the color intensity between 0-100.

• Tint

Adjust tint between 0-100.

• Sharpness

Control sharpness of the image between 0-100.

RGB Range

Use this item to choose the RGB range of the HDMI input: [Full], [Limited].

HDMI EDID

Select the HDMI EDID from between [4K] and [2K]. This item enables PC or other devices to recognize the property of this monitor and makes the images look excellent on the screen.

• Color Space

Select the display gamut from among [Native], [SMPTE-C], [Rec709], [EBU], [BT2020].

Camera Log

Use this item to choose one of the camera Log modes:

DIS/D24/D2<mark>6/D2</mark>

- [Off]: Turn off Camera Log.

- [Def. Log]: Use this item to choose one of the Camera Log modes as the following sequence: [SLog2ToLC-709], [SLog2ToLC-709TA], [SLog2ToSLog2-709],
[SLog2ToCine+709], [SLog3ToLC-709], [SLog3ToLC-709TA], [SLog3ToSLog2-709],
[SLog3ToCine+709], [ArriLogCTo709], [ArriLogCToP3DCI], [CLogToV709],
[VLogToV709], [JLog To709], [JLogTo709HLG], [JLogTo709PQ], [Z7 NLogTo709],
[D780 NLog To709].



- [User Log]: Use this item to choose one of the User Log modes (1-6). Please install the User Log as following steps:

The User Log must be named with. cube in the suffix. Please note: the device only supports the format of User Log: 17x17x17 / 33x33x33; Data order is BGR; Table order is BGR. If the format does not meet the requirement, please use tool "Lut Tool.exe" to transform it. Naming the User Log as User1-User6.cube, then copy the user Log into USB flash disk. Insert the USB flash disk to the device, the User Log is saved to the device automatically at the first time. If the User Log is not loaded for the first time, the device will pop up a prompt message, please choose whether to update or not.

Gamma

Use this item to choose the display Gamma: [Off], [1.8], [2.0], [2.2], [2.35], [2.4], [2.6], [2.8].

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Gamma 1.8

Gamma 2.8

Note: Gamma mode can be only activated while HDR function closed.

• HDR

Use this item to choose one of the HDR presets: [Off], [ST 2084 300], [ST 2084 1000], [ST 2084 10000], [HLG].

Back Light Mode

Adjust the level of the back light from 0 to 100.

• Color Temp.

Use this item to choose one of the color temperature presets: [3200K], [5500K], [6500K], [7500K], [9300K], [User].

Note: Only available under [User] mode to adjust R/G/B Gain and Offset.

• R/G/B Gain

Adjust the R/G/B Gain of the current Color Temperature from 0 to 255. Default value: 128.

R/G/B Offset

Adjust the R/G/B Offset of the current Color Temperature from 0 to 511. Default value: 256.

G15/G24/G26/G3

3.2.2 MARKER



Center Marker

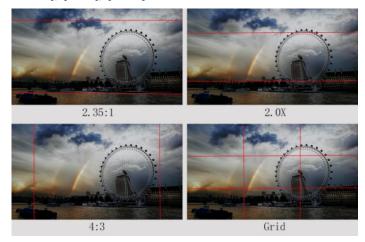
Select [On] to display the center marker "+" and [Off] not to display it.

• Center Marker Size

When [Center Marker] is activated, its size can be selected. [Small], [Middle] and [Large] are for optional. Default option: [Middle].

Aspect Marker

Select the aspect ratio of the marker: [Off], [16:9], [1.85:1], [2.35:1], [4:3], [3:2], [2.0X], [2.0X MAG], [Grid], [User].



• Safety Marker

- Select [Off] not to display the safety marker. When this item is used with the aspect marker, it is only in aspect marker. When [Aspect Marker] is selected as [User], the safety marker does not be changed.

- Select the size of the safety markers: [95%], [93%], [90%], [88%], [85%], [80%].

Note: When [Aspect Marker] is selected as [Grid], the safety marker cannot be

displayed.

Marker Color

Select the color of marker displayed on the screen: [Red], [Green], [Blue], [White],

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[Black].

Aspect Mat.

When activated, it can be selected from 1-7 (Step value is 1).



Thickness

Adjust the thickness of all the marker lines from 1-15 (Step value is 1).

User Marker

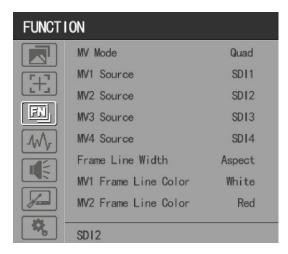
H1/H2: Adjust the position of vertical markers from 1 to 3840 (Step value is 1).

V1/V2: Adjust the position of horizontal markers from 1 to 2160 (Step value is 1).

Note: User maker only in [Aspect Maker]- [User] mode available.

Note: The Marker function is not available in Quad Mode.

3.2.3 FUNCTION



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• MV Mode: Off, Quad

MV1 Source: SDI1/SDI2/SDI3/SDI4/SFP/HDMI signal input

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MV2 Source: SDI1/SDI2/SDI3/SDI4/SFP/HDMI signal input MV3 Source: SDI1/SDI2/SDI3/SDI4/SFP/HDMI signal input MV4 Source: SDI1/SDI2/SDI3/SDI4/SFP/HDMI signal input Frame Line Width: Off, 2, 4, 6, 8, 10, 12, 14 MV1 Frame Line Color: White, Red, Green, Blue, Yellow, Cyan, Magenta MV2 Frame Line Color: White, Red, Green, Blue, Yellow, Cyan, Magenta MV3 Frame Line Color: White, Red, Green, Blue, Yellow, Cyan, Magenta MV4 Frame Line Color: White, Red, Green, Blue, Yellow, Cyan, Magenta

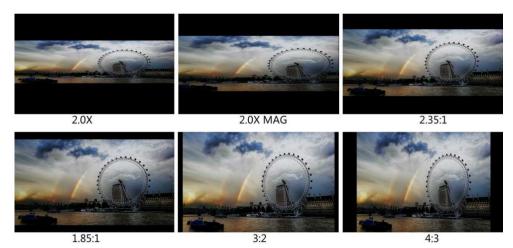
Scan

Adjust the scan mode among [Aspect], [Pixel To Pixel], [Zoom].

Note: Aspect and overscan functions only can be adjusted only under [Aspect] mode. Both of them cannot be adjusted in [Zoom] and [Pixel To Pixel] modes. Note: The Scan function is not available in Quad Mode.

• Aspect

Select the aspect of the image among [Full], [16:9], [1.85:1], [2.35:1], [4:3], [3:2], [2.0X], [2.0X MAG].



Note: The Aspect function is not available in Quad Mode.

Overscan

Use this item to activate or deactivate overscan.

Note: The Overscan function is not available in Quad Mode.

H/V Delay

Select one of the H/V modes: [OFF], [H], [V], [H/V]. When H/V Delay on, the

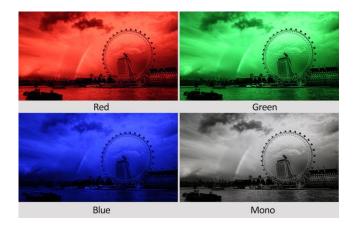
blanking portions of the input signal will be displayed horizontally and vertically.

Note: The H/V Delay function is not available in Quad Mode.

• Check Field

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Select one of check field modes: [Off], [Red], [Green], [Blue], [Mono].



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Zoom

Select zoom scale from 10% to 90% (Step value is 10%).

When you select [Scan] as [Zoom], any part of the enlarged image can be

displayed on the screen via the Menu Knob.

Note: The Zoom function is not available in Quad Mode.

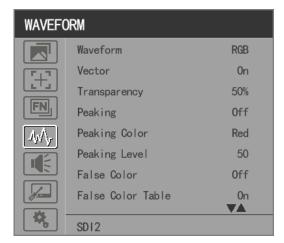
• Freeze

Choose [On] to capture one frame of current image on the screen, and choose

[Off] to close freeze function.

Note: The Freeze function is not available in Quad Mode.

3.2.4 WAVEFORM



Waveform

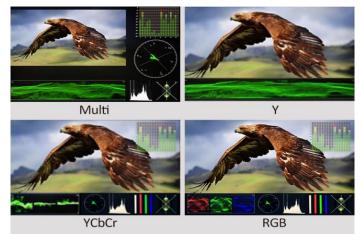
Use this item to activate or deactivate Waveform. Select the waveform mode

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from among [Multi], [Y], [YCbCr], [RGB].

- [Multi]: Display waveform, histogram, audio vector, vector, and level meter simultaneously.

- [Y]: Display Y Waveform.
- [YCbCr]: Display YCbCr Waveform.
- [RGB]: Display R/G/B Waveform.



Note: The Waveform function is not available in Quad Mode.

• Vector

Use this item to activate or deactivate Vector.

Note: The Vector function is not available in Quad Mode.

Transparency

Adjustment of transparency can support waveform, vector, histogram, audio vector, level meter. Transparency can be selected from among [off], [25%], and [50%].

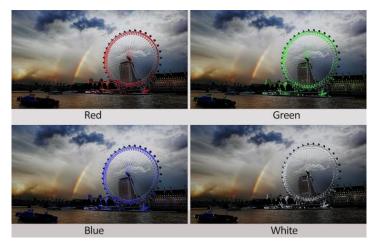
- [Off]: The background of waveform is shown at black.
- [25%]: The background of waveform is shown at 25% intensity.
- [50%]: The background of waveform is shown at 50% intensity.
- Peaking

Use this item to activate or deactivate the peaking function.

Peaking Color

Select one of the peaking colors: [Red], [Green], [Blue], [White], [Black].

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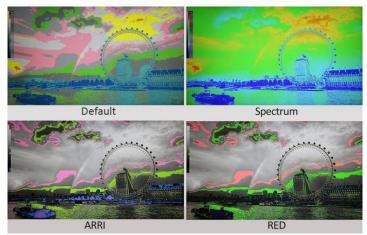
• Peaking Level

Use this item to adjust the level of peaking from 1-100. The higher peaking level is, the more obvious peaking effect is.

False Color

Use this item to activate or deactivate the false color function.

When activated, [Default], [Spectrum], [ARRI], [RED] are for optional.



• False Color Table

Use this item to activate or deactivate the false color table. The range of the false color table is between 0-100 IRE.

• Exposure

Use this item to activate or deactivate the exposure function.

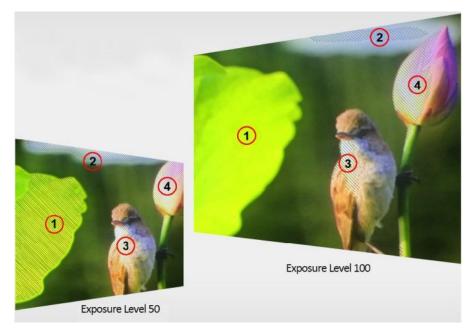
When activated, exposure works if the input signal exceeds the designated exposure level.

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• Exposure Level

Use this item to adjust the level of exposure between 50-100 IRE.

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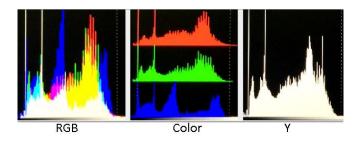


Histogram

Use this item to activate or deactivate histogram. When activated, [Y], [RGB],

[Color] are for optional.

- [Y]: Display Y histogram.
- [RGB]: Display RGB mixed histogram.
- [Color], Display RGB separated histogram.



Note: The Histogram function is not available in Quad Mode.

Time Code

Use this item to activate or deactivate the Time Code. When activated, [LTC],

[VITC] are for optional.

Note: Time code is only available under SDI mode.



3.2.5 AUDIO

AUDIO		
	Volume	50
	Level Meter	0n
	Audio Vector	0n
FN	Vector Ch	CH1&CH2
M	Audio Left Out	CH1
	Audio Right Out	CH2
\$	SD12	

• Volume

Adjust the volume among 0-100.

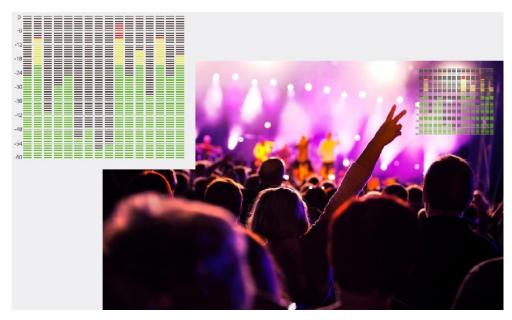
• Audio Source:SDI1/SDI2/SDI3/SDI4/SFP/HDMI

Note: The Audio Source is only available under Quad mode.

Level Meter

Select whether to activate or deactivate level meter.

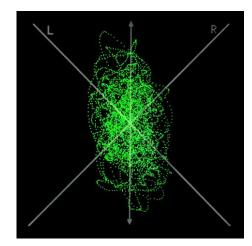
Note: Default as on under [Waveform]-[Multi] function.



Audio Vector

Select whether to activate or deactivate audio vector. Audio phase can be monitored by the audio vector.

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Note: The Audio Vector is not available under Quad mode.

• Vector Ch.

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In HDMI mode, select the vector channels from among [Ch1&Ch2], [Ch3&Ch4], [Ch5&Ch6], and [Ch7&Ch8].

In SDI mode, select the Vector Channels from among [Ch1&Ch2], [Ch3&Ch4],

[Ch5&Ch6], [Ch7&Ch8], [Ch9&Ch10], [Ch11&Ch12], [Ch13&Ch14], and

[Ch15&Ch16].

Note: The Vector Ch is not available under Quad mode.

• Audio Left/Right Out

In HDMI mode, select one of the audio channel from among 1-8.

In SDI mode, select one of the audio channel from among 1-16.

Note: The Audio Left/Right Out is not available under Quad mode.

3.2.6 REMOTE

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REMOTE		
	DHCP	Off
	IP Address	3.3.3.0
	Sub. Mask	0.0.0.0
FN	Gateway	0.0.0.0
M	RS Type	Default
	RS ID	115
	UMD1	Off
Ţ.	UMD1 Text Color	Green
\$.	SD12	

MODEL NO.:

• DHCP

- [On]: The monitor will automatically get an IP address from network for remote

control via various programs.

- [Off]: Manually configure IP address.

• IP Address

Manually configure IP address: xxx.xxx.xxx.xxx

Note: When [DHCP] on, IP address cannot be manually set .

Sub net Mask

Manually configure Sub net Mask: xxx.xxx.xxx.xxx

Note: When [DHCP] on, Sub net Mask cannot be manually set .

Gateway

Manually configure Gateway: xxx.xxx.xxx.xxx

Note: When [DHCP] on, Gateway cannot be manually set .

RS Type

Select RS type: [Default], [TSL V3.1].

Default software connection as below,

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E Remote Terminal (V 1.0.0) Input No Signal	Screen	
Device Name	Operate	.
Port	Picture Larker Function Source	Audio UMD
Com Name:		
Baud rate: 38400 💌 Device List	Brightness:	14
All Refresh	Saturation:	0 🗘
	Tint:	0
	Sharpness:	100 🗘
	BackLight:	
	Color Temp: (a) 3200k () 5500k () 6500k () 7500k () 930	10k 🔿 User
Copy Paste	1	

RS ID

Set the ID of RS422 communication. The valid address range is between 1-126.

Note: ID must be unique in a RS422 network.

UMD (UMD2-4 only available on MV mode)

UMD 1: Off, On

UMD 1 Text Color: White, Red, Green, Blue, Yellow, Cyan, Magenta

UMD 2: Off, On

UMD 2 Text Color: White, Red, Green, Blue, Yellow, Cyan, Magenta

UMD 3: Off, On

UMD 3 Text Color: White, Red, Green, Blue, Yellow, Cyan, Magenta

UMD 4: Off, On

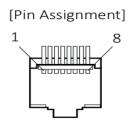
UMD 4 Text Color: White, Red, Green, Blue, Yellow, Cyan, Magenta

• GPI 1-8

PIN Number	GPI	Settable Values
1	1	Single/ 2SI/ SQUARE HDMI
2	2	Center Marker
3	3	16:9 Marker/ 1.85:1 Marker/ 2.35:1 Marker/ 4:3 Marker/ 3:2 Marker/ 2.0X Marker/ 2.0X MAG Marker/ Grid
4	4	SA 95%/ SA 93%/ SA 90%/ SA 88%/ SA 85%/ SA 80%

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5	5	Pixel To Pixel Blue Only
6	6	H/V Delay Peaking False Color Exposure Mute Level Meter Audio Vector Tally Red/ Tally Green
7	7	Power
8	Gnd	GND



The GPI function is activated when the GPI pin is connected with the ground, and closed when it is disconnected from the ground. Connect to GPI to control the monitor remotely.

3.2.7. SYSTEM

SYSTEM	И	
	Language	English
	SFP	Off
	Color Bar	Off
FN	Color Bar Mode	BT2020
M.	OSD Timer	10s
	OSD Transparency	Off
	OSD H Position	50
	OSD V Position	50
\$	SD12	

• Language

Option: [Chinese], [English].

SFP

Option: [On], [Off].

When the SFP on, SFP signal input can be selected via SDI-Single button on the

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front panel.

• Color Bar

Turn on/off color bar. When the color bar on, it can be selected: [100%], [75%].

NODEL NO.:

Note: The Color Bar Mode is not available under Quad mode.

• Color Bar Mode

Option: [Rec601], [Rec709], [BT2020] color space.

Note: The Color Bar is not available under Quad mode.

OSD Timer

Option: [10s], [20s], [30s].

OSD Transparency

Turn on/off OSD transparency. When OSD Transparency on, option: [25%], [50%].

• OSD H Position

Option: 0-100. Default: 50.

• OSD V Position

Option: 0-100. Default: 50.

• Info. Windows

Option: [Off], [Standard], [Full]. Default: [Off].

- [Standard]: It supports UMD display. As show in the picture below,



- [Full]: it can support signal input, UMD and internal temperature display. As shown in the following picture,





- UMD feature in the info. windows:

Support user UMD input data on screen, ASCII: 0x20~0x7e

Support display up to 16 characters that are input by TSL protocol V3.1 on the screen.

Note: The Info. Windows is not available under Quad mode.

• Info. Windows transparency

Select to turn on/off info. Windows transparency, option: [Off], [25%], [50%]. Default: [Off].

Note: It is not available under Quad mode.

• Info. Windows H/V Position

The option range: 0-100.

Note: When [Info. Window] is selected as [Standard], its position can be adjusted freely. When [Info. Window] is selected as [Full], its vertical position can be adjusted freely.

Fan

Option: [Auto], [On], [Off]. Default: [Auto].

- [Auto]: The monitor will automatically turn on/off the fan according to the setting value of fan auto temp.

Note: It is not available under Quad mode.

• Knob

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Customized Knob function, custom option: [Brightness], [Contrast], [Saturation],

[Tint], [Sharpness], [Volume], [Peaking Level], and [Back light]. Default: [Volume]. Please refer to 3.1.1 for Knob specific operation instructions.

Color Calibration

Select [On] or [Off].

If the device needs to be calibrated color, please operate as following:

- 1. Connect the device with the PC via HDMI interface.
- Make sure the device and color calibration equipment to work more than 30 minutes.
- After the previous step, activate the Color Calibration function of the device and color calibration software to calibrate the color (See the document "CMS Color Calibration Process" for details).
- 4. It will generate a document "Rec709.cube" after calibrated, then copy this document to USB flash disk.
- Insert the USB flash disk to the device and save the document. This document "Rec709.cube" will be found under Color Space Option.

Note: It is not available under Quad mode.

Comparison En

Use this setting to activate or deactivate the Comparison En function.

When activated, the screen displays the comparison of Original image and customized image, as shown,



Option: [Off], [Gamma/HDR], [Color Space], [Camera Log]. Default: [Off].



Note: It is not available under Quad mode.

Reset

Select the Reset option, press the Menu knob to automatically reset.



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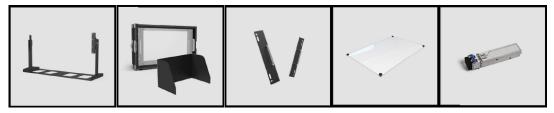
Panel	15.6"	23.6"	28"	31.5″
Resolution	3840×2160	3840×2160	3840×2160	3840×2160
Brightness	330 cd/m²	300cd/m ²	300cd/m ²	350cd/m ²
Contrast	1000:1.	1000:1	1000:1	1300:1
Viewing Angle	176°/176°(H/V)	178°/178°(H/V)	178°/178°(H/V)	178°/178°(H/V)
Input	12G-SDI*2, 3G-SDI*2, HDMI 2.0, GPI, RS422, LAN, USB,SFP			
Output	12G-SDI*2, 3G-SDI*2, HDMI 2.0, RS422, Earphone jack			
Power In	DC 12-24V	DC 12-24V	DC 12-24V	DC 12-24V
Power	≤32.5W	≤55W	≤60W	≤74W
Consumption				
Operating	0~40°C	0∼40°C	0∼40°C	0∼40°C
Temperature	0400	0.40 C	0, 40 C	0 40 C
Storage	20~60°C	20~		20~ . 60° 6
Temperature	-20~60°C	-20~60°C	-20~60°C	-20~60°C
Dimension (LWD)	393×267×51.4mm	567x376.4x45.7mm	638x414.3x54.4mm	717.5x454.7x47.4mm
Weight	2.9kg	7.4kg	8.6kg	13.0kg

5. Accessories



• Standard:

1) 15V DC Adapter	1 pc
Note: 15.6"/23.6" use 4A; 28" use 4.8A; 31.5" use 6A	
2) VESA Mount Plate Bracket	1 pc
3) V-mount (or Anton Bauer Mount)	1 pc
4) Base Bracket	1 pair
5) 8GB USB flash drive (User guide and software included)	1 pc



• Optional:

6) Gimbal Bracket (optional for 15.6" monitor)	1 pc
7) Carrying Case + Sunshade (optional for 15.6"/23.6"/28")	1 pair
8) Rack mount Bracket (optional for 15.6"/23.6"/28")	1 pair
9) Acrylic Screen Protector (optional for 15.6")	1 pc
10) SFP Optical Fiber Module	1 pc

6. Trouble Shooting

1) Only black-and-white display:

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Check whether the color saturation is properly setup or not.

2) Power on but no pictures:

Check whether the cables of SDI and HDMI are correctly connected or not. Please use the standard power adapter coming with the product package. Improper power input may cause damage.

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3) Wrong or abnormal colors:

Check whether the cables are correctly and properly connected or not. Broken or loose pins of the cables may cause a bad connection.

4) When on the picture shows size error:

Press "MENU \rightarrow FUNCTION \rightarrow Overscan" to zoom in/out pictures automatically when receiving HDMI signals.

5) Other problems:

Please press "MENU" button and choose "MENU \rightarrow SYSTEM \rightarrow Reset \rightarrow On".

Note: Due to constant effort to improve products and product features, specifications may change without notice.

Appendix 1: 3D LUT Loading

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3D LUT supports upload color calibration document and User Log via USB flash disk.

• Format Requirement

LUT format

Type: .cube

3D Size: 17x17x17/33x33x33

Data Order: BGR

Table Order: BGR

• USB flash disk version

USB: 2.0

System: FAT32

Size: <16G

- LUT format Color calibration document: Rec709. cube
- User Log: User1. cube-User6.cube

• LUT Format conversion

Please convert LUT format according to the following steps.

Note: For Mac users, please copy the "mac OS" file to Mac, then click and follow the steps below.

Activate Lut converter

Flease tell (the manufacturer ID of the product to get Key !	
Product ID :	087604760612059606120492046005320636	
Enter Key :	I]
	Ok Back	

One individual Product ID for one computer. Please send the ID number to Sales

to get an Enter Key.

Then the computer gets the permission of the Lut Tool after input the Enter Key.

• LightSpace CMS software user demo

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- Activate LUT Tool.exe.

Lut Converter	And Laff Diversion And	Contract of	10.00	
Input File		Output File		语言/Language: English
File Name		File Path		
Туре		Туре	. cube	
Default Order	2	3D Size	17 •	
Data Order	RGB	Default Order	V	
Table Order	BCR •	Data Order	BGR 👻	
3D Size		Table Order	BGR 👻	
1D Size				
Dimension				Generate Lut

- Click Input File, then select *LUT.

Lut Converter				
Input File		Output File		语言/Language: English マ
Input File File Name Type	/ColourSpace Image. cube	File Path		Ingrian
Туре	. cube	Туре	. cube 🔻	
Default Order		3D Size	17 -	
Data Order	RGB	Default Order	V	
Table Order	BGR	Data Order	BGR •	
3D Size	17	Table Order	BGR •	
1D Size	0			
Dimension	30			Generate Lut

- Click Output File, choose the file name.

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Lut Converter				
Input File		Output File		语言/Language: English
File Name	/ColourSpace Image.cube	File Fath	C:/Users/WQH/Desktop/User1.cube	
Туре	. cube	Туре	. cube	
Default Order		3D Size	17 •	
Data Order	RGB	Default Order	2	
Table Order	BGR	Data Order	BGR	
3D Size	17	Table Order	BGR	
1D Size	0			
Dimension	30			Generate Lut

- Click Generate Lut button to finish.

• USB Loading

Copy the needed files to the root directory of the USB flash disk. Plug the USB flash disk into USB port of the device after power on. Click "Yes" on the pop-up prompt window (If the device doesn't pop-up the prompt window, please check the LUT document name or the USB flash disk version), then press Menu button to update automatically. It will pop-up a prompt message if the update completed.



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Remotely control the device by Remote Terminal application.

Home Screen

Input No Signal	Screen		
Device Name Aull	Operate		TMD -
Port) LAN () RS422	Picture Earker Function Sc	ource Audio	www.
	v Brightness:		14
Device List	Contrast:		0
	Saturation:		
	Tint:		0
	Sharpness:		100
	BackLight:		100 🗘
	Color Temp:		
	3200k	0k () 9300k ()) User

MODEL NO.:

Picture: The home screen of the application

- Input: Display the signal format of the connected device. For example, there is "No Signal" when no device is connected or no signal is input.
- Device Name: Display the Model No. of the connected device.
- Port: Select the connection way of the port when connecting a device, and support"RS422" or "LAN" communication protocol.
- Device List: Display all of the found peripheral device.
- Screen: Display the number of screens for the selected device and the current screen index.
- Operate: Operate the items for the device.
- Control Screen: The control rules for the device.

Function

 Port Selection: Select the specific connection port according to the device interface and click "RS422" or "LAN" to switch. When RS422 selected, it needs to further set the COM name and baud rate. For baud rate, it needs to

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be adapted to the baud rate of the connected device.

- Device Search: Click "Refresh" button to search devices after configuring the port. There are all of the found devices in the device list after a successful search.
- Screen Choice: The "Screen" shows the number of the screens for the current device. For the device with multiple screens, use left mouse button to click the screen icon to select the corresponding screen for operation; use right mouse button to click the screen icon to copy the screen.
- Device Control: Click the icons of [Picture], [Marker], [Function], [Source],
 [Audio] and [UMD] to switch the control page of the corresponding function.
- Activate "All": Simultaneously control all of the devices in the device list if there is two or more devices with the same model after activating "All".
- Device Copy Function: If there are two or more devices with the same model in the device list, click one of them and click "Copy" button to copy the source device, and then click the target device and click "Paste" button to copy the configuration of the source device to the target one.

