

7" VOICE CONTROL Monitor

with Full HD Resolution, 4K HDMI In&Out

User Guide



Important Safety Instructions:

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

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1. Product Features

- Supports AI voice control
- 450 nits brightness
- Supports HDMI 2.0 4K 60Hz input and loop-through
- Supports power input and USB power
- Sony NP-F series battery slot
- 100% BT.709 color Space
- HDR (High Dynamic Range) supports HLG, ST 2084 300/1000/10000
- 3D-LUT options include 17 default camera logs and 6 user logs
- Color temperature (6500K/7500K/9300K/User)
- Marker & Marker Matte (Center Marker, Aspect Marker, Safety Marker)
- Monochrome display: Off, Red, Green, Blue, Black and White
- Assistive functions (Waveform, Peaking, False Color, Exposure, Histogram)
- Configurable shortcut keys (FN function, default: Peaking)

2. Production Description

2.1 Buttons & Interfaces



1. Power/Mute Button:

- Short press: To power on. Also for Mute function switch on/off.
- Long press: To power off.

2. Power Indicator: The indicator light turns green when powered on.

3. Fn User definable buttons

Default option: Peaking

(Long press Fn button for 3-5 seconds to custom options.)

4. Exit Button

5. Menu Knob

Press to enter menu.

Rotate the knob left or right to select an option in the menu

Rotate the knob left or right to adjust the option value.

Before enter the menu, single press to activate function bar, press again to switch among of Backlight, Brightness, Contrast, Saturation, Tint, Sharpness and Volume.

6. Earphone Jack: 3.5mm earphone slot.

7. HDMI 2.0 Output port

8. HDMI 2.0 Input port

9. PD Input (For power)

10. DC 7-24V Input

11. USB Port: For 3D-LUT load and firmware upgrade.

12. Battery Slot: Compatible with NP-F series battery.

13. Battery Release Button: Press to remove the battery.

2.2 Battery Mount Plate

With Uninterruptible Power Supply Design.

- **Battery Placement**

Please slide NP-F series battery down to the bottom.

- **PUSH Button:**

Press the “PUSH” button, and slide the battery up to remove it.



2. Menu Setting

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

2.1 Voice Control Commands

Users can wake up the AI voice assistant LILI by saying "HELLO LI LI", "HI LI LI" or "Hey LI LI". LILI will respond with "I am ready" and wait for further instructions. When users enter the following voice commands, LILI will respond and execute the corresponding commands.

A pop-up window appears when the voice assistant is activated, listing the functions available for voice control.

If no command is received within 15 seconds, LILI will say "I am going to rest" and automatically shut down.

Command words	Announcement sentences
HELLO LI LI	I am Ready
HI LI LI	I am Ready
Hey LI LI	I am Ready
Activate Center Marker	Ok Center Marker Activated
Activate Aspect Marker	Ok Aspect Marker Activated
Activate Safety Marker	Ok Safety Marke Activated
Activate Overscan	Ok Overscan Activated
Activate Scan	Ok Scan Activated
Activate Color Space	Ok Color Space Activated
Activate Camera Log	Ok Camera Log Activated
Activate Check Field	Ok Check Field Activated
Activate Freeze	Ok Freeze Activated
Activate Color Bar	Ok Color Bar Activated
Activate Peaking	Ok Peaking Activated
Activate False Color	Ok False Color Activated
Activate Exposure	Ok Exposure Activated
Activate Histogram	Ok Histogram Activated
Activate Waveform	Ok Waveform Activated
Activate Mute	Ok Mute Activated
Activate Level Meter	Ok Level Meter Activated
Deactivate Center Marker	Ok Center Marker Deactivated
Deactivate Aspect Marker	Ok Aspect Marker Deactivated
Deactivate Safety Marker	Ok Safety Marker Deactivated
Deactivate Overscan	Ok Overscan Deactivated
Deactivate Scan	Ok Scan Deactivated

Deactivate Color Space	Ok Color Space Deactivated
Deactivate Camera Log	Ok Camera Log Deactivated
Deactivate Check Field	Ok Check Field Deactivated
Deactivate Freeze	Ok Freeze Deactivated
Deactivate Color Bar	Ok Color Bar Deactivated
Deactivate Peaking	Ok Peaking Deactivated
Deactivate False Color	Ok False Color Deactivated
Deactivate Exposure	Ok Exposure Deactivated
Deactivate Histogram	Ok Histogram Deactivated
Deactivate Waveform	Ok Waveform Deactivated
Deactivate Mute	Ok Mute Deactivated
Deactivate Level Meter	Ok Level Meter Deactivated

2.2 Shortcut keys

2.2.1 FN Button:

- Long press FN button for 3-5 seconds to pop up shortcut menu on the screen. Option selected will be highlighted as yellow. Unavailable option will be highlighted as gray.
- Select option via MENU knob. Then press MENU knob to confirm and set the default option.
- Shortcut functions can be customized to meet user's needs as following:

FN Shortcut function Menu		
Center Marker	Camera Log	Exposure
Aspect Marker	Check Field	Histogram
Safety Marker	H/V Delay	Waveform
Overscan	Freeze	Mute
Scan	Image Flip	Level Meter
Aspect	Color Bar	
Color Space	Peaking	
HDR	False Color	

2.2.2 MENU knob Function

- When not in the menu screen, rotate the MENU knob to activate the function bar. Then press the

MENU knob to select a function such as Backlight, Brightness, Contrast, Saturation, Tint, Sharpness, or Volume.

- Rotate the knob left or right to adjust the option value.
- Default function is [Back light]

2.2 MENU Operations

When the device is powered on, press the MENU knob to display the OSD menu on the screen.

Press MENU knob to choose sub-menu, rotate the MENU knob to adjust values, then press the MENU knob again to confirm.

Press the EXIT button to return to or exit the menu.

2.2.1 PICTURE

PICTURE		
	Brightness	50
	Contrast	50
	Saturation	50
	Tint	50
	Sharpness	0
	Back Light	100
	RGB Range	Limited
	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, default value: 50.
- **Tint**
Adjust tint between 0-100, default value: 50.
- **Sharpness**

Control sharpness of the image between 0-100. Default value: 0.

- **Back Light**

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

- **RGB Range**

Select RGB Range between [Limited] and [Full], default: [Limited].

- **HDMI EDID**

Select HDMI EDID between [4K] and [2K], default: [4K].

- **Color Space**

Select the display gamut from among [Native], [Rec709].

- **Camera Log**

When activated, select one camera Log mode among [Def. Log] and [User Log].

- **Def. Log**

17 kinds of default Log models are for optional:

[SLog2ToLC-709], [SLog2ToLC-709TA], [SLog2ToSLog2-709], [SLog2ToCine+709], [SLog3ToLC-709], [SLog3ToLC-709TA], [SLog3ToSLog2-709], [SLog3ToCine+709], [ArriLogCTo709], [ArriLogCToP3DCI], [CLogTo709], [VLogToV709], [JLogTo709], [JLogTo709HLG], [JLogTo709PQ], [Z7 NLogTo709] and [D780 NLogTo709].

- **User Log**

Use this item to choose one of the user Log modes (1-6). Please load the user Log as the following steps:

- The user Log must be named with .cube in the suffix.

Note! The device only supports the file with 17x17x17 / 33x33x33 and with BGR for both Data format and Table format. 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. The power indicator will flash during saving the user Log, then stop flashing when saved completely.

If a user Log has been loaded previously, the device will pop up a prompt message, please choose whether to update or not. If there is not a prompt message, please check the format of document

system of the USB flash disk or format it (The document system format is FAT32). Then try it again.

Note! After saving the Log through the USB flash disk, please restart the device.

- **HDR**

Use this item to activate or deactivate HDR function.

When enabled, the screen displays a wider dynamic brightness range, allowing both brighter and darker details to be displayed more clearly, effectively improving overall image quality.

Available options include [ST 2084 300], [ST 2084 1000], [ST 2084 10000], and [HLG].



- **Color Temp.**

Use this item to choose one of the color temperature presets: [6500K], [7500K], [9300K] and [User], the default value is 6500K.

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

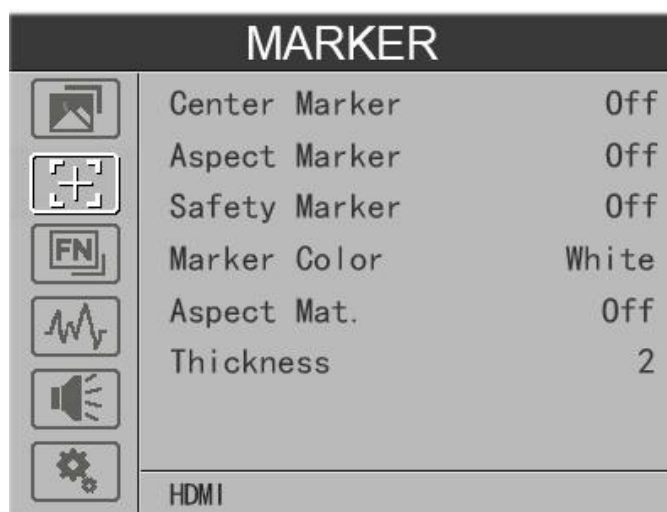
- **R/G/B Gain**

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 Gain of the current Color Temperature from 0 to 511. Default value: 256.

2.2.2 MARKER

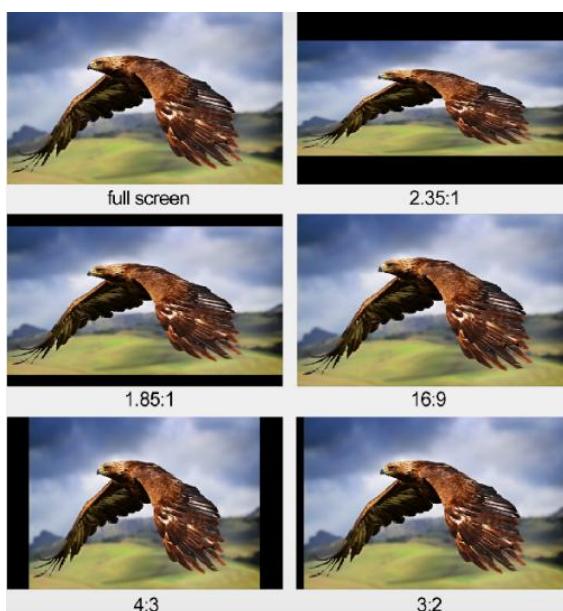


- **Center Marker**

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

- **Aspect Marker**

Select the aspect ratio of the marker: [Off], [16:9], [1.85:1], [2.35:1], [4:3], [3:2], [1.3X], [1.5X], [2.0 X], [2.0 X MAG], [Grid].



- **Safety Marker**

Select [Off] not to display the safety marker. Or 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: [Black], [Red], [Green], [Blue], and [White]. Default: [White]

- **Marker Mat.**

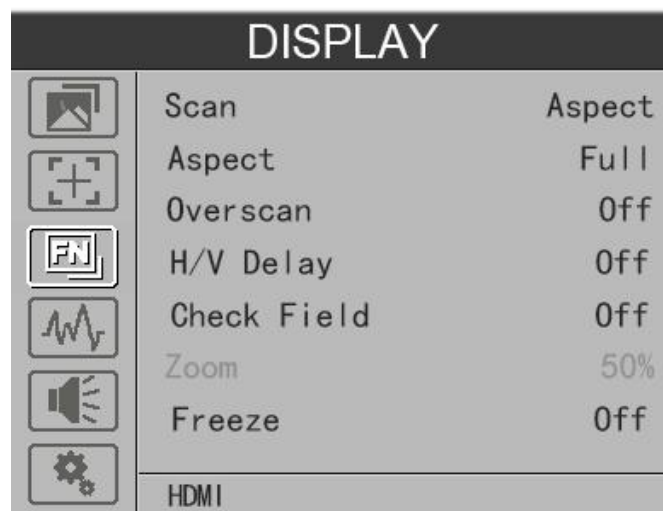
Darkens the area of the outside of Marker. The degrees of darkness are from [0] to [7]. Default: [Off].



- **Thickness**

Adjust the line width of the center marker, aspect marker and safety marker among [1-7]. The step value is 1. Default value: 2.

2.2.3 DISPLAY



- **Scan**

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

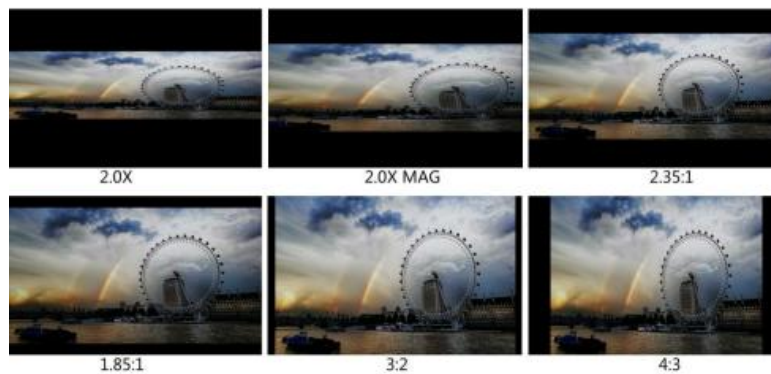
Note: Only when the [Aspect] mode under [Scan] is selected, the markers including center marker, aspect marker and safety marker can work.

- Only when the [Zoom] mode is selected, the zoom scale can be adjusted.

- **Aspect**

Switch aspect ratio setting among from [Full], [16:9], [1.85:1], [2.35:1], [4:3], [3:2], [1.3X], [1.5X], [2.0X] 和 [2.0X]

MAG].



- **Overscan**

Activate or deactivate overscan.

Note! Only when the [Aspect] mode under [Scan] is selected, the aspect and overscan function can be adjusted.

- **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 or vertically.

- **Check Field**

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

- **Zoom**

The zoom scale can be adjusted among [10%], [20%], [30%], [40%], [50%], [60%], [70%], [80%], [90%].

- **Freeze**

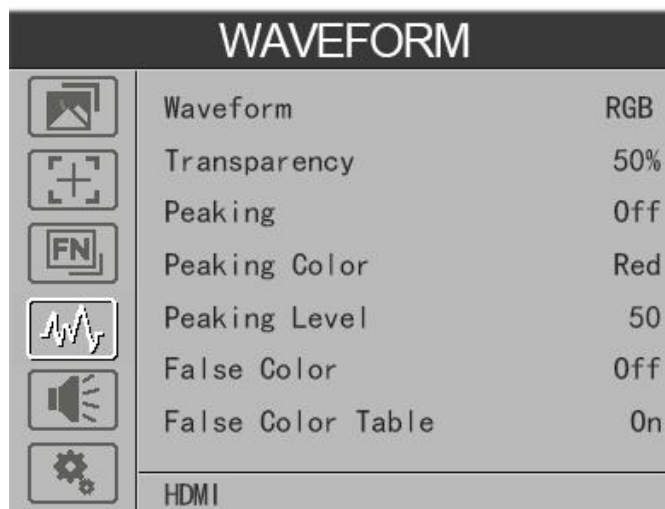
Choose [On] to capture one frame of current image on the screen, and choose [Off] to close freeze function.

- **Image Flip**

Allow the displayed image to be flipped horizontally or vertically by selecting one of flip mode among [H], [V], [H/V].



2.2.4 WAVEFORM



- **Waveform**

When activated, select one of the waveform modes from among [Y], [YCbCr] and [RGB].

[Y]: Display Y Waveform.

[YCbCr]: Display YCbCr Waveform.

[RGB]: Display R/G/B Waveform

- **Transparency**

Adjust the transparency of the waveform, histogram and level meter among [off], [25%] and [50%].

[Off]: The background of waveform / histogram / level meter is shown at 100% black.

[25%]: The background of waveform / histogram / level meter is shown at 75% black.

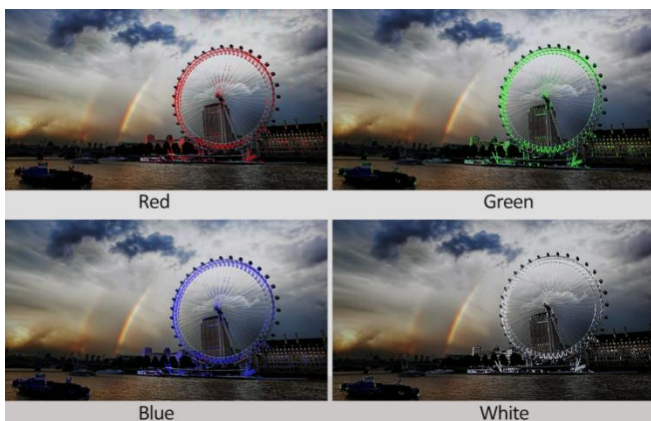
[50%]: The background of waveform / histogram / level meter is shown at 50% black.

- **Peaking**

The peaking is used to aid the camera operator in obtaining the sharpest possible picture. Select "On" to display colored outlines around sharp areas of the image.

- **Peaking Color**

Choose the color of focus assist lines among [Red], [Green], [Blue], [White] and [Black].



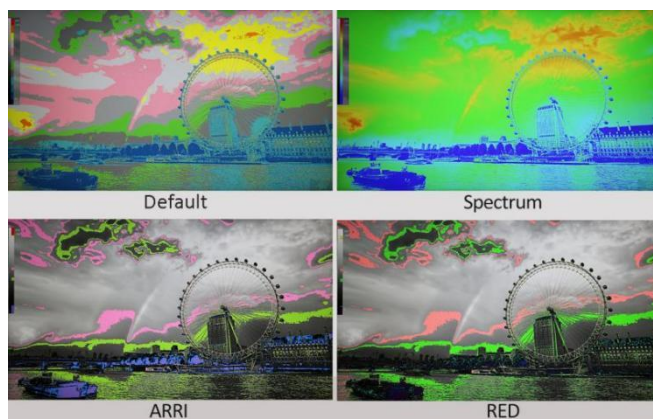
- **Peaking Level**

Adjust the level of peaking from 1-100, default is 50. The higher peaking level is, the more obvious peaking effect is.

- **False Color**

The function represents the exposure levels of the image by replacing the colors of the image with a standard set of colors.

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



- **False Color Table**

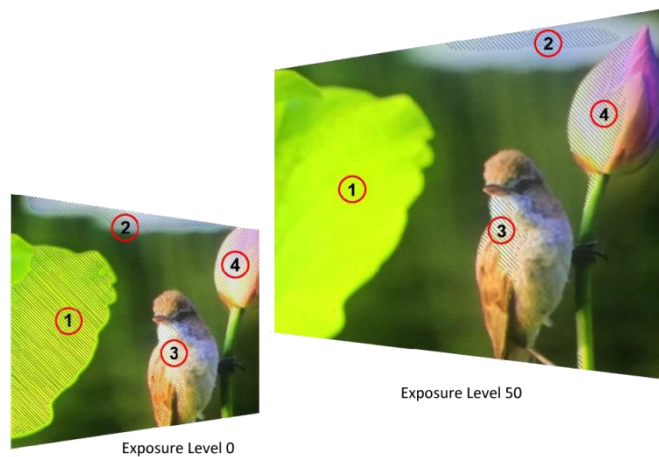
Activate or deactivate the false color table. The range of the false color table is between 0-100 IRE.

- **Exposure**

The exposure feature helps the user achieve optimum exposure by displaying diagonal lines over areas of the image that exceed the setting exposure level. Activate or deactivate the exposure function.

- **Exposure Level**

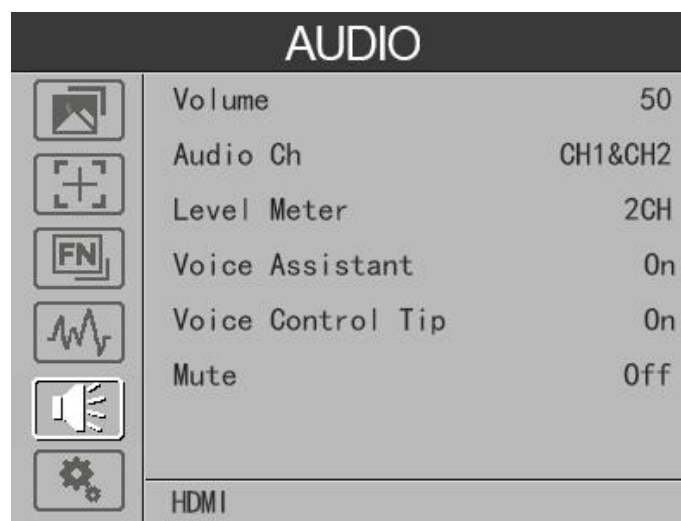
Adjust the level of exposure among 0-100. Default value is 100.



- **Histogram**

Use this item to activate or deactivate the histogram.

2.2.5 AUDIO



- **Volume**

Adjust the volume among 0-100. Default Value: 50.

- **Audio Channel**

Select one of the audio channels among [CH1&CH2], [CH3&CH4], [CH5&CH6], [CH7&CH8]. Default: [CH1&CH2]

- **Level Meter**

Adjust the level meter among [off], [2Ch] and [8Ch].

- **Voice Assistant**

Select whether to activate or deactivate Voice Assistant. Default: [On].

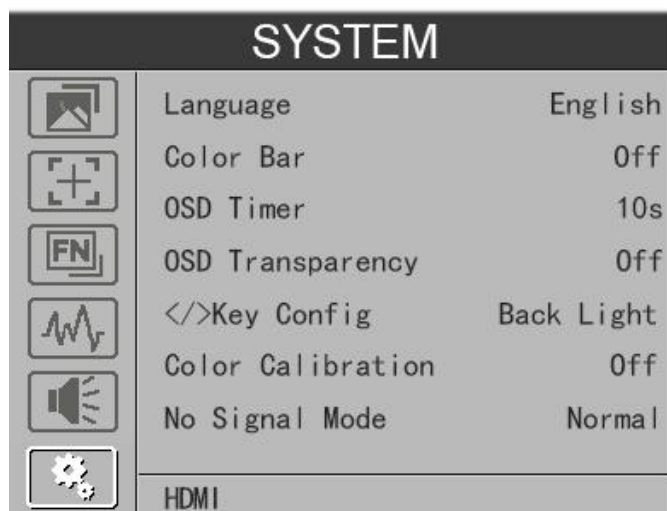
- **Voice Control Tip**

Turn the voice control tip on or off. When enabled, a pop-up window appears when the voice assistant is activated, listing the functions available for voice control.

- **Mute**

Select whether to activate or deactivate mute.

2.2.6 SYSTEM



- **Language**

Switch between English and Chinese.

- **Color bar**

Switch between English and Chinese.

- **OSD Timer**

Adjust the OSD displaying time. Optional: [10s], [20s], [30s]; the default is [10s].

- **OSD Transparency**

Set Menu transparency. Increase the value, the more transparent it will be. Option value: 0~255.

- **Transparency**

Set Menu transparency. Available options are [Off], [25%], and [50%]. The default setting is [25%].

- **</> Key configuration**

The menu knob button can set the following functions: [Backlight], [Brightness], [Contrast],

[Saturation], [Tint], [Sharpness], [Volume].

- **Calibration**

Select [Off] or [On]. If the device needs to be calibrated color, please operate as following,

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).

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.

- **No Signal Mode**

Adjust the status of the display when there is no signal input, optional: Normal, shutdown.

- **Reset**

If there is any problem unknown, press to confirm after selecting. The monitor will return to default set.

3. Product Parameters

DISPLAY	Panel	7" LCD
	Physical Resolution	1920×1200
	Aspect Ratio	16:10
	Brightness	450cd/m ²
	Contrast	1200: 1
	Viewing Angle	160°/ 160°(H/V)
SIGNAL SOURCE	Input	HDM 2.0 x1
	Output	HDMI 2.0 x1
FORMATS	HDMI 2.0	2160p (24/25/30/50/60) 1080P 24/25/30/50/60, 1080P SF 24/25/30, 1080i (50/60)...
AUDIO	HDMI	8ch 24-bit
	Ear Jack	3.5mm
	Built-in Speakers	1
CONTROL	Voice Control	≤1m, ≥50dB
POWER	Input Voltage	DC 7-24V or Powered by USB-C (PD protocol)
	Power Consumption	≤10W (12V)
ENVIRONMENT	Operating Temperature	0℃~50℃
	Storage Temperature	-20℃~60℃
OTHER	Dimension(LWD)	186.2x121x25mm
	Weight	320g

4. Accessories



- 1) 0.8M HDMI A-D Cable
- 2) 1/4" Hot Shoe Mount
- 3) Sunshade

1pc
1pc
1pc

6. 3D-LUT Loading

6.1 Format Requirement

- LUT format

Type: .cube
3D Size: 17x17x17
Data Order: BGR
Table Order: BGR

- USB flash disk version

USB: 2.0
System: FAT32
Size: <16G

- Color calibration document: lcd.cube

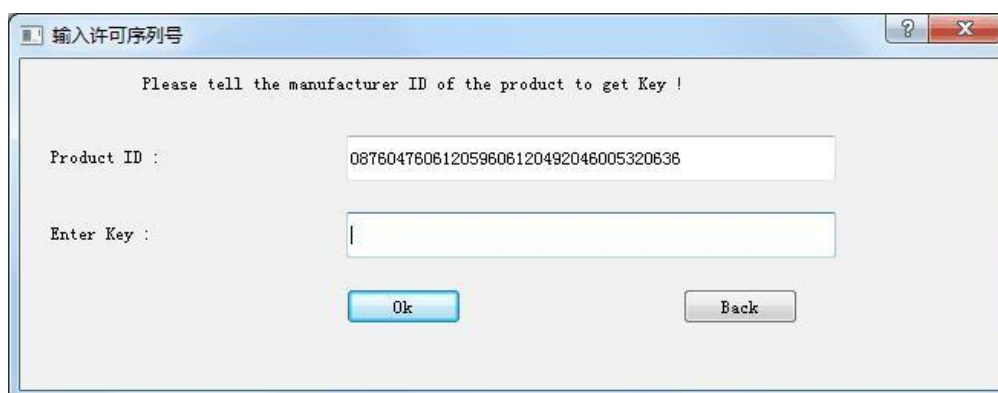
- User LUT: User1.cube ~User6.cube

6.2 LUT Format Conversion

The format of LUT should be transformed if it doesn't meet monitor's requirement. It can be transformed by using LUT Converter (V1.3.30).

6.2.1 Software User Demo

- Activate LUT converter.



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.

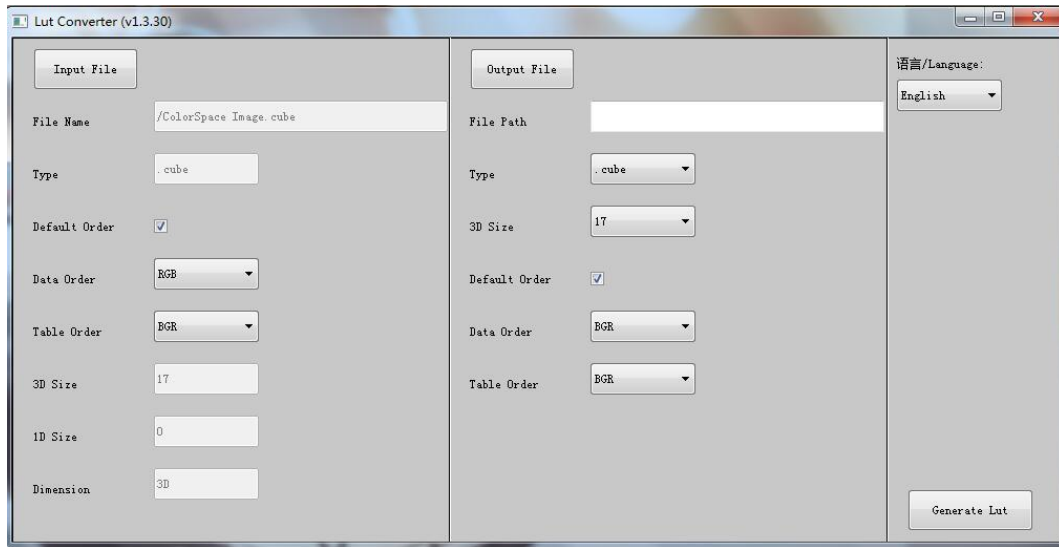
- Enter the LUT Converter interface after input the Enter Key.

The screenshot shows the 'Lut Converter (v1.3.30)' window. It is divided into three main sections: 'Input File', 'Output File', and a language selector on the right. The 'Input File' section has fields for 'File Name', 'Type', 'Default Order' (checked), 'Data Order' (set to 'RGB'), 'Table Order' (set to 'BGR'), '3D Size', '1D Size', and 'Dimension'. The 'Output File' section has fields for 'File Path', 'Type' (set to '.cube'), '3D Size' (set to '17'), 'Default Order' (checked), 'Data Order' (set to 'BGR'), and 'Table Order' (set to 'BGR'). The language selector on the right is set to 'English'. A 'Generate Lut' button is located at the bottom right.

- Click Input File, then select *.LUT.

This screenshot shows the same 'Lut Converter (v1.3.30)' window after the 'Input File' button has been clicked. The 'File Name' field now contains the path '/ColorSpace Image.cube'. The 'Type' field is set to '.cube'. The '3D Size' is '17', '1D Size' is '0', and 'Dimension' is '3D'. The 'Output File' section and the language selector remain unchanged from the previous screenshot. The 'Generate Lut' button is still present at the bottom right.

- Click Output File, choose the file name.



- Click Generate LUT button to finish.

6.3 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.

When the LUT is loaded, the monitor will be automatically loaded after the USB flash disk is inserted.(If the device doesn't pop-up the prompt window, please check if the LUT document name or the USB flash disk version meets monitor's requirement.)

It will pop-up a prompt message if the update completed.

7. Trouble Shooting

1) Only black-and-white display:

Check whether the color saturation is properly setup or not.

2) Power on but no pictures:

Check whether the cable of HDMI is correctly connected or not. Whether the signal source has output.

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:

Check whether "Menu → Display → Overscan" and the ZOOM function are turned on. These two functions may cause the image to be magnified.

5) How to delete 3D-LUT User camera log:

The User camera LUT cannot be deleted directly from the monitor, but can be replaced by reloading the camera log with same named.

6) Other problems:

Please press "MENU" button and choose "SYSTEM→ Reset →On".

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