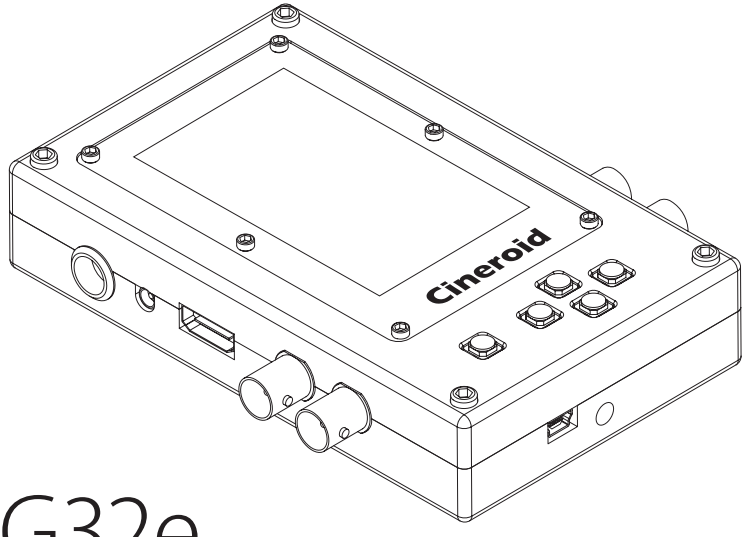
Cineroid®
Cinema & Broadcasting Equipment

English



PG32e

3G Pattern Generator & Converter

- SMPTE pattern and various pattern generating
- 3G-SDI <-> HDMI Cross conversion
- Loopout cable tester
- Real time waveform monitor and Vector scope
- Video display on Color LCD
- Support 1080@60P
- Sound level meter and Internal speaker
- Progressive to Interlaced conversion
- Durable metal body

User's Manual

Thank you for purchasing the Cineroid PG32e.

The Cineroid EVF PG32e is a converter and pattern generator that can be mounted on any video camera with both HDMI and HD-SDI output signal. Please thoroughly read the user manual for best operation and understanding of all of the functions of the EVF.

Test Before Operating

It is recommended to test the PG32e before operating. Check if the PG32e can be turned on once powered, and check if the information/menu is being properly displayed on the LCD.

Copyrights and Prohibitions

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- Canon and EOS are registered trademarks of Canon.
- Nikon is a registered trademark of Nikon.
- Sony is a registered trademark of Sony.
- Panasonic is a registered trademark of Panasonic.

Safety Precautions

Please observe the following safety precautions as they are meant for the safe and proper use of the product to reduce the risk of accidents. Upon reading the user manual, keep it in a safe and available place.

◎ Do not use any batteries, power cord, or accessories that are not specified in this document.
◎ When using a power cord, be sure to plug it in completely. Do not handle power plugs when your hands are wet. When unplugging the power cord, grasp the plug body or adapter instead of the cord.
◎ Power cords that are scratched, heavily bent or twisted can potentially be hazardous and a source of electric shock and/or fire.
◎ Do not insert foreign objects into the product's electric or cable components.
◎ Do not place the power cord near sources of heat as this may melt or cause damage to the cord potentially causing fire or electric shock.
◎ Do not disassemble or modify the product. This may damage the product and cause danger due to a malfunction.
◎ Please keep the product out of reach of young children. Injuries may occur due to damage to the product.
◎ When using the product in an airplane or hospital setting, it is recommended to acquire authorization first as signals or electro-magnetic waves from the product may cause other equipment to malfunction.
◎ Do not store the product in a dusty or humid environment as damage may occur.
◎ When the product is mounted on a camera, do not lift or move the camera by grabbing the product. This may cause damage to the product or the camera mount.
◎ Do not clean the product with paint thinner, benzene, or other volatile solvents. This may cause damage to the product and become a fire hazard.
◎ This product is not waterproof. If the product is dropped in water, contact the service center immediately.

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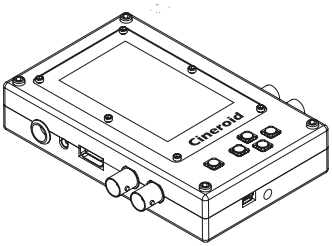
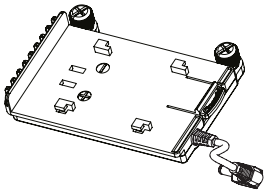
Component

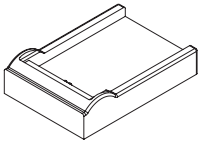
Please ensure all parts are present after opening the box.



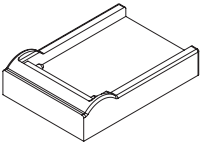
A. PG32e Body



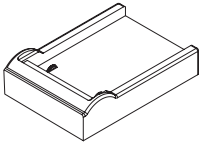
B. Battery holder mount



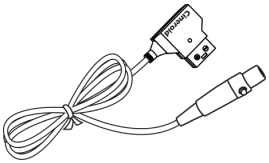
C. Canon LP-E6
Battery holder



D. Canon BP911
Battery holder



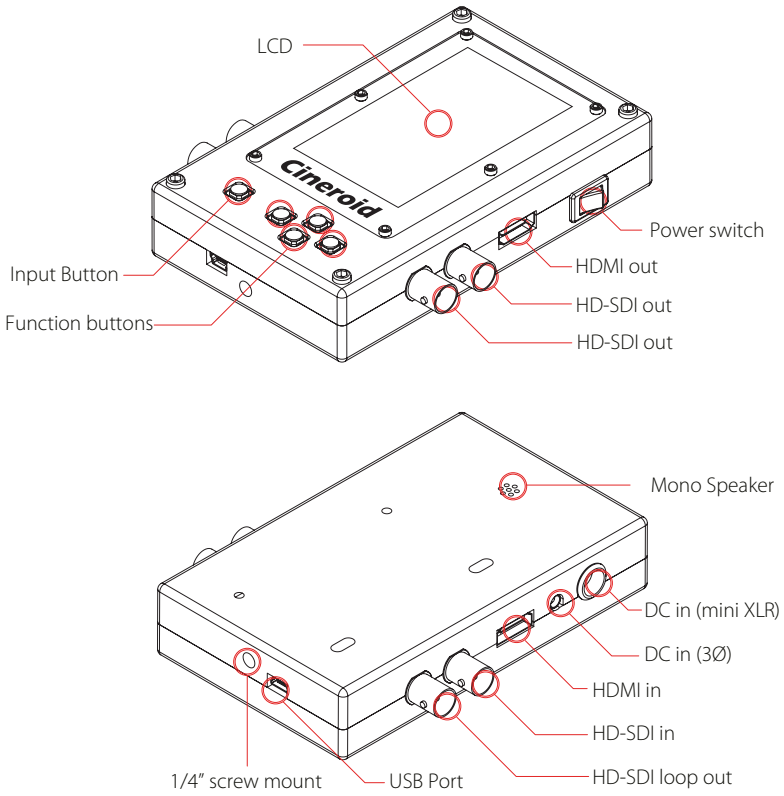
E. Sony NPF
Battery holder



F. D-tap to mini XLR cable

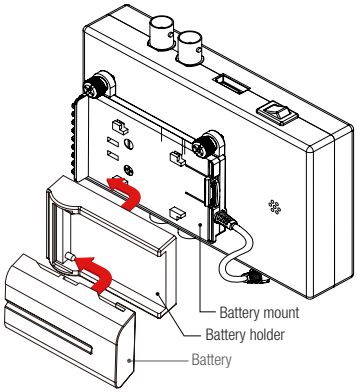
G. User's manual

Name of each part



Before Using PG32e

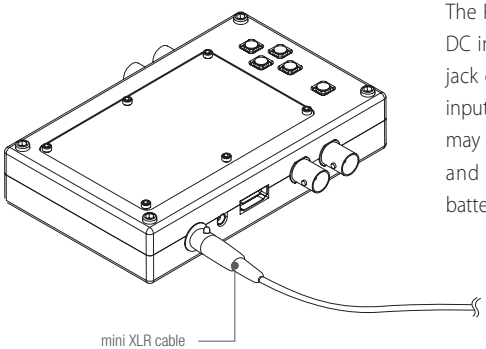
Installing the Battery



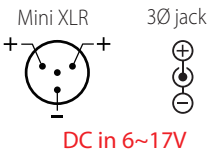
The PG32e can be powered by different types of Canon, Nikon, Panasonic or Sony style batteries. Each type of battery requires its own battery mount plate. As standard the PG32e is supplied with battery holders and battery mount included in the package.

Caution: Battery or the connectors may be damaged if not aligned properly on insertion.

Connecting External Power

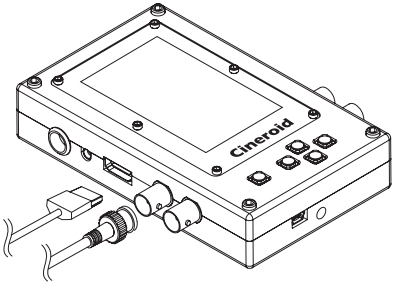


The PG32e can also be powered by external DC input via the built in mini-XLR or Ø3mm jack connectors. Please pay attention to the input polarity and voltage, otherwise the unit may be damaged. When both external power and on board battery are connected, the battery is not consumed.



Before Using PG32e

Connecting input / output

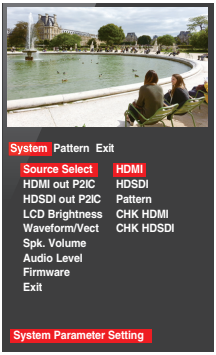


Input : HDMI Input : HD-SDI

Connect input and output then select the type of input in menu.

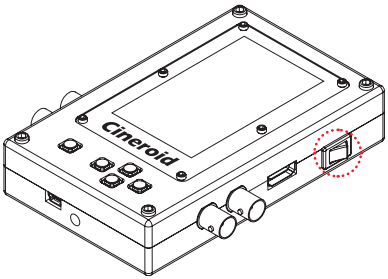
Menu : System - Input Select

*How to operate the menu, refer to page 10.

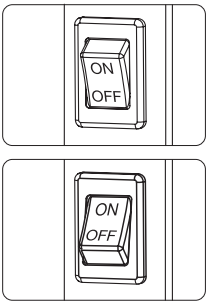


select input

Power On / Off



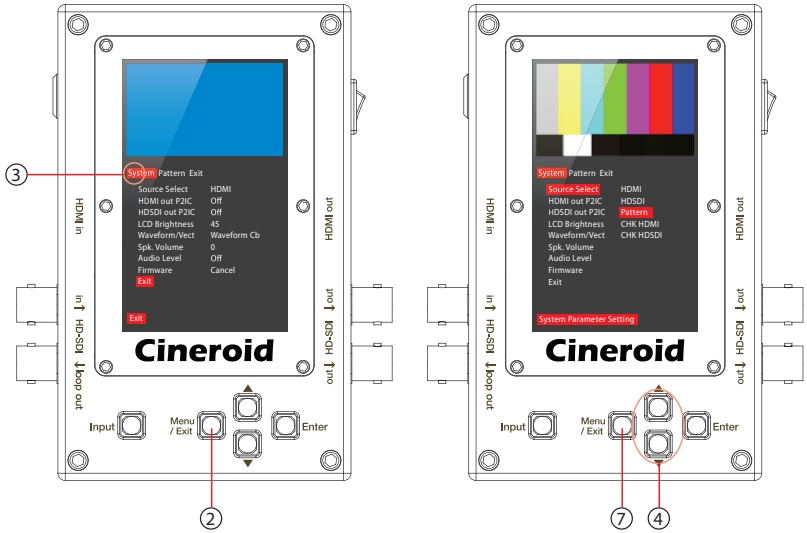
Install the battery or connect external power and Turn the power switch to the ON position. Battery power is not used during connected external power.



Power ON/OFF switch

Basic Features

Operating the Menu

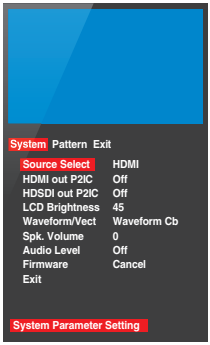


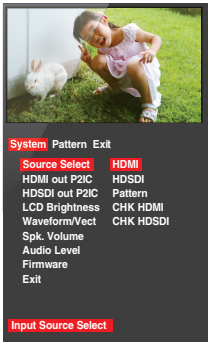
1. Access the setting and features by pressing the menu button on PG32e.
2. Press the Menu button to select the main menu.
   through the menu. The cursor is highlighted in red.
4. Move the cursor to the feature you want to select/change and press the up and down arrow buttons to access that feature.
5. Press the up and down arrow buttons to change the value of the feature.
6. Move the cursor to Exit and press the Exit button to return to the previous menu.
7. To exit the main menu, move the cursor to Exit and press the Exit button.

Converter

Input selection

Menu : System - Source Select - HDMI or HDSDI

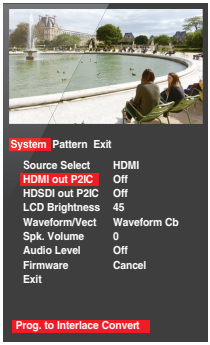


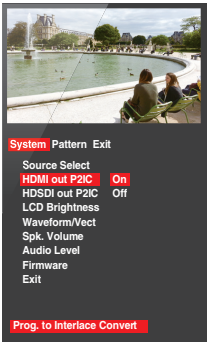


*Tip Shortcut to select the source type Press Input button not in menu.

Down converter selection

On/Off : Menu : System - HDMI out P2IC or HDSDI out P2IC

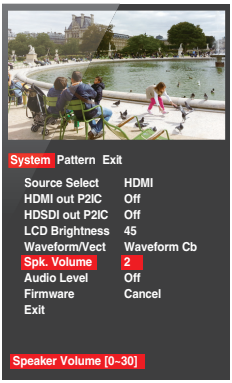


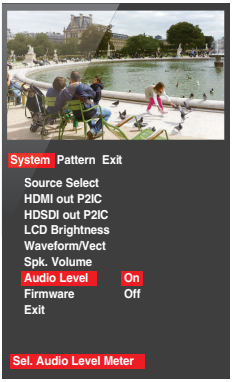


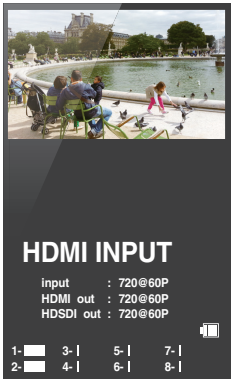
Converter

Volumes and Level meter

On/Off : Menu : System - Spk. Volume and Audio meter



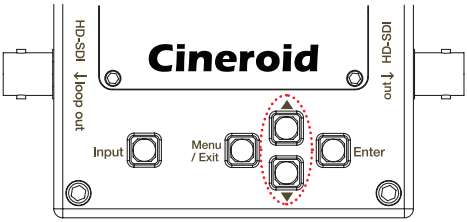


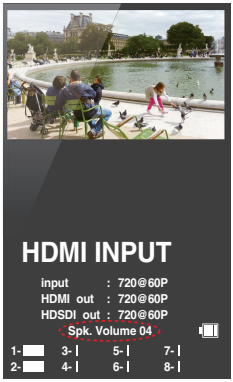


With the screen

* **Tip** Shortcut to adjust speaker volume

To adjust volume,
press arrows buttons not in menu.
The volume vaule will be displayed on screen.

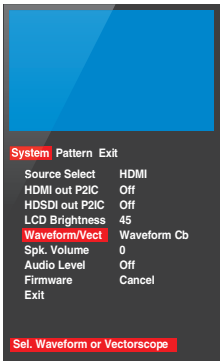


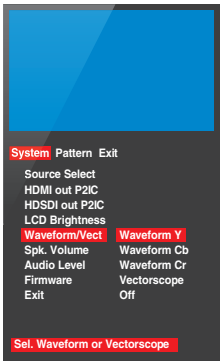


Converter

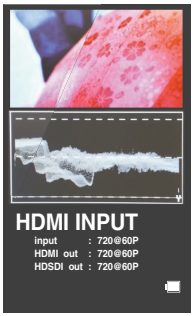
Waveform / Vectorscope

On/Off : Menu : System - Waveform/Vect

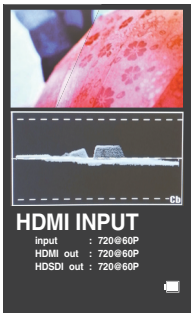




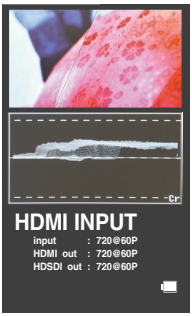
Waveform Y



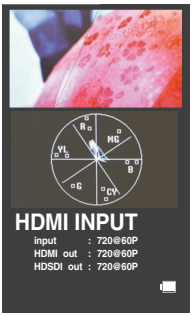
Waveform Cb



Waveform Cr



Vectorscope



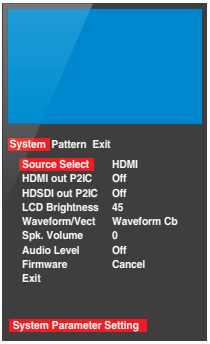
4 Types of Waveform / Vectorscope

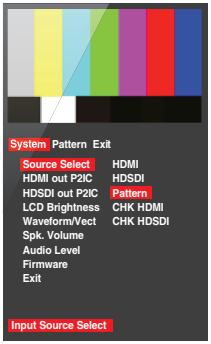
English

Pattern Generator

Turning on Pattern generator

On/Off : Menu : System - Source Select - Pattern

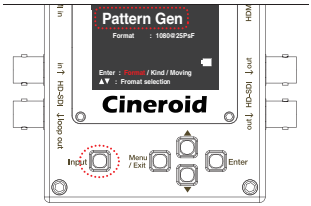




*** Tip**

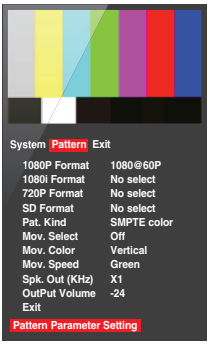
Shortcut to turn on Pattern generator

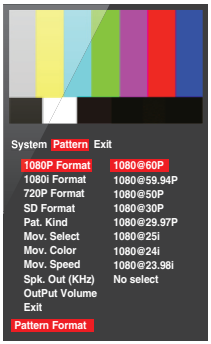
Main srceen -> Press the Input button



Setting output format

Setting : Menu : Pattern - 1080P or 1080i or 720P or SD Format

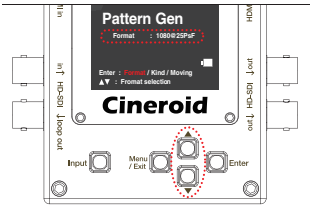




*** Tip**

Shortcut to set output format

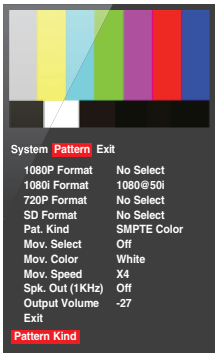
Main srceen -> Press the arrow button when cursor is on the Format.

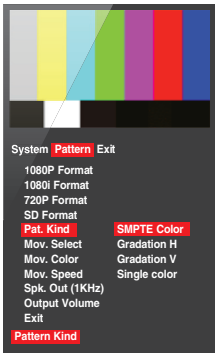


Pattern Generator

Setting type(kind) of pattern

Setting : Menu : Pattern - Pat. kind

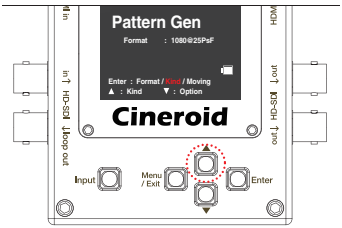




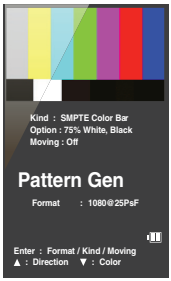
*** Tip**

Shortcut to set type of pattern

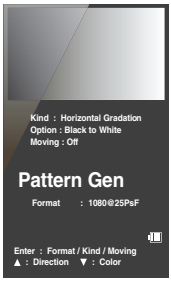
Main srceen -> Press ▲ button
when cursor is on the kind.



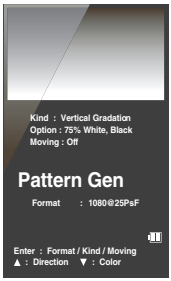
SMPTE Color



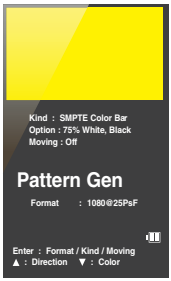
Gradation H



Gradation V



Single color



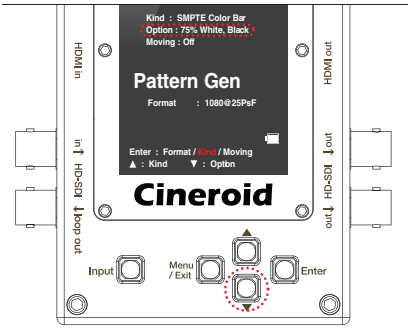
4 Types of Patterns

English

Pattern Generator

Setting options of pattern

Setting : Main screen - Enter : Kind - ▼button



Options of pattern type

SMPTE Color

100% White, Black

+I signal, Black

75% White, +Q

Gradation H

Black to Red

Black to Green

Black to Blue

Black to White

Gradation V

Black to Red

Black to Green

Black to Blue

Black to White

Single color

25% White

50% White

75% White

White

Red

Green

Blue

Yellow

Cyan

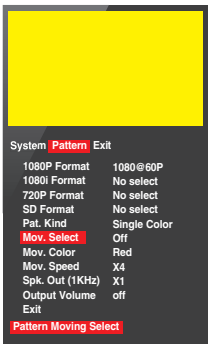
Magenta

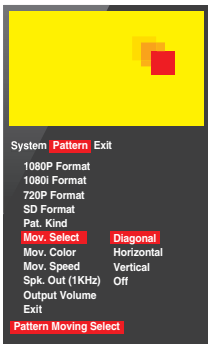
Black

Pattern Generator

Setting moving

On/Off : Menu - Pattern - Mov. Select

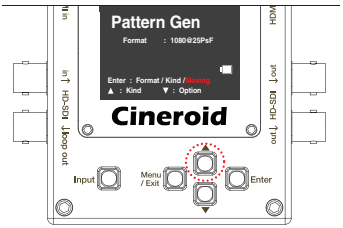




*** Tip**

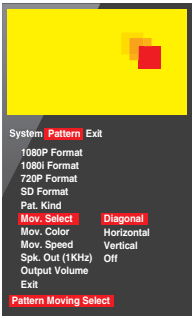
Shortcut to set moving direction

Main srceen -> Press ▲button
when cursor is on the Moving.

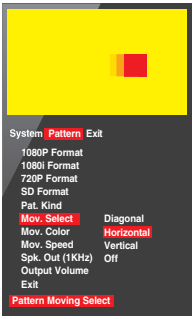


Setting moving direction

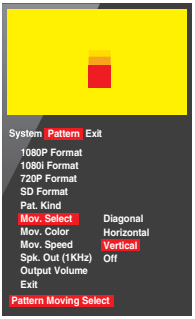
Setting : Menu : Pattern - Diagonal / Horizontal / Vertical



Diagonal



Horizontal

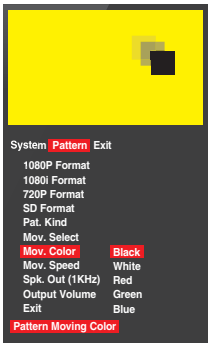


Vertical

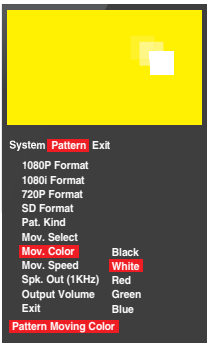
English

Setting the moving color

On/Off : Menu - Pattern - Mov. Select



Black

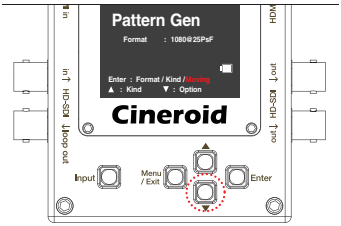


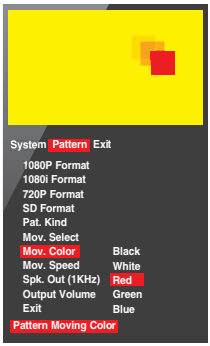
White

* **Tip**

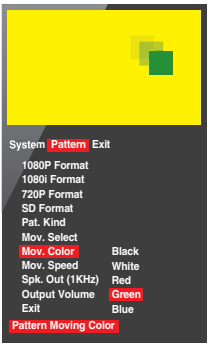
Shortcut to change moving color

Main srceen -> Press ▼button
when cursor is on the Moving.

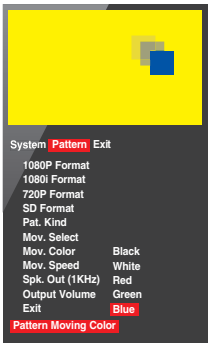




Red



Green

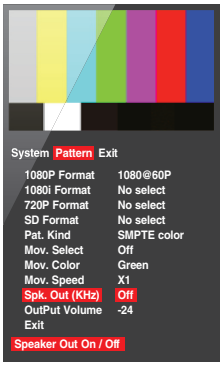


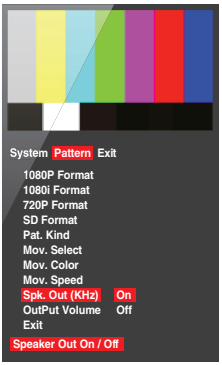
Blue

Pattern Generator

Setting Speaker out

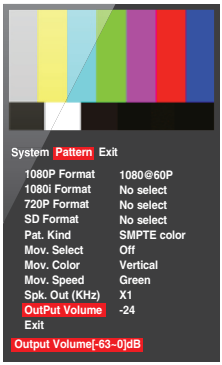
On/Off : Menu : Pattern - Spk. Out(1KHz) - On / Off

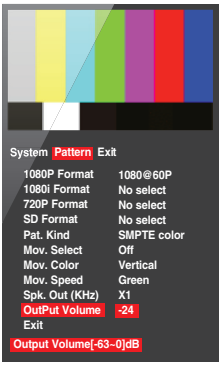




Setting Speaker Volume

Setting : Menu : Pattern - OutPut volume - (-63~0)dB

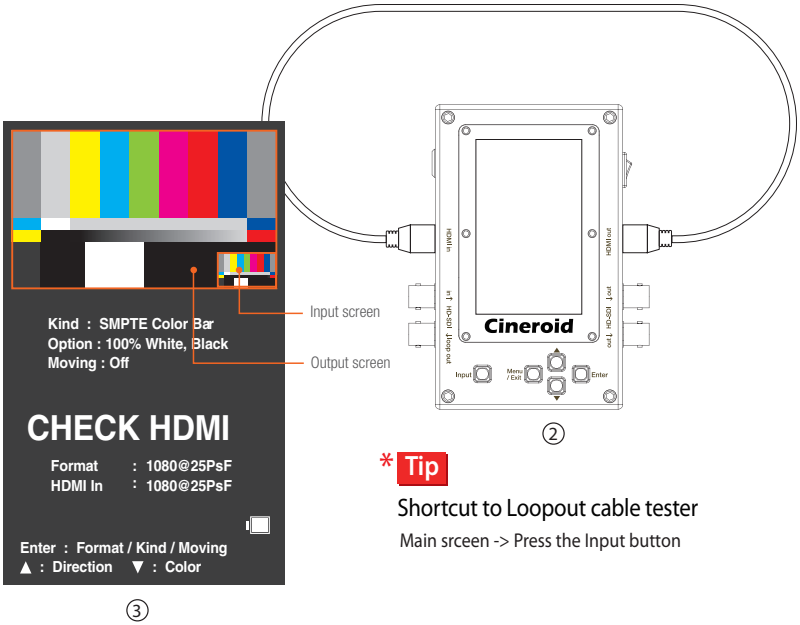




Loopout Cable Tester

Testing HDMI or HD-SDI Cable

Menu : System - Source Select - CHK HDMI or CHK HDSDI



* Tip

Shortcut to Loopout cable tester

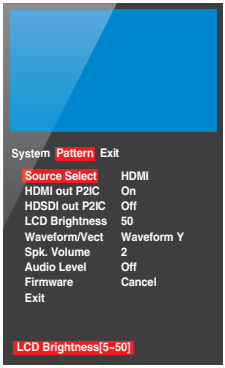
Main srceen -> Press the Input button

1. Checking a cable status.
2. Connect the cable to in and out port of PG32e.
3. Watch the signal both output and input. The signal screen should be same.
4. The signal screen can be changed at pattern generator mode in the menu.

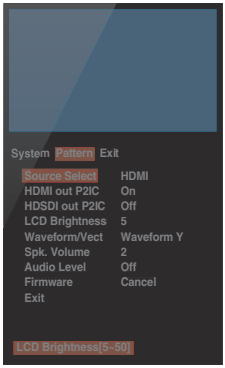
Setting User Controls

Adjusting the LCD brightness

Setting : Menu : System - LCD Brightness



50 step Brightness

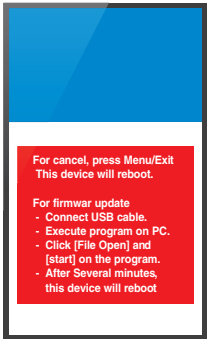


5 step Brightness

Firmware Upgrade

Setting : Menu - System - Firmware

1. Firmware is upgradable by usb cable.
2. Connect PG32e and computer by cable.
3. Select On of Firmware Upgrade. The screen is changed to screen for firmware upgrade.
4. In order to firm wareupgrade, follow the message and start firmware upgrade.



Firmware Upgrade page

English

Product Specifications

Input ports	HDMI, HD-SDI	
Output ports	HDMI 1 port, HD-SDI 2ports, HD-SDI loopout 1 port	
HDMI Input / Output	480p59.94, 480i59.94, 480i60, 480p60, 576p50, 576i50, 720p23.98, 720p24, 720p25, 720p29.97, 720p30, 720p50, 720p59.94, 720p60 1080p23.98, 1080p24, 1080p25, 1080psF29.97, 1080p29.97, 1080psF30, 1080p30, 1080i50, 1080p50, 1080i59.94, 1080p59.94, 1080i60, 1080p60, 1080psF24, 1080psF25	
HD-SDI Input / Output	480i59.94, 480i60, 480p59.94, 480p60, 576p60, 576i50, 720p23.98, 720p24, 720p25, 720p29.97, 720p30, 720p50, 720p59.94, 720p60,1080PsF23.98, 1080p23.98, 1080PsF24, 1080p24, 1080PsF25, 1080p25, 1080PsF29.97, 1080p29.97, 1080PsF30, 1080p30, 1080i50, 1080p50, 1080i59.94, 1080p59.94, 1080i60, 1080p60	
LCD	Size	3.2 inch
	Resolution	480 x 800
	Color	16.7 M
	Viewing angle	H: 140 degrees, V: 140 degrees
	Display area	41.76 x 69.6 mm
Audio out	Internal speaker	Mono Output
Power	Battery	Multi vendor Battery support
	External	6 ~17 V via Mini XLR or DC in port
Operating Temperature		-10°C to 70°C
Storage Temperature		-20°C to 70°C
Power consumption		3.5 W(2 hours with 2200 mA battery)
Weight		340 g
Size		130 x 101 x 28 mm

PG32e

3G Pattern Generator & Converter

Cineroid
Cinema & Broadcasting Equipment

PG32e

3G Pattern Generator & Converter

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