

DP-V2411

Video Display

- Before use, be sure to read this guide, including the safety and handling precautions.
- Reading this guide will help you learn to use the video display properly.
- Store this guide safely so that you can use it in the future.

Instruction Manual

English

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Thank you for purchasing the Video Display DP-V2411. This device is a commercial-use display capable of supporting a wide range of workflows from shooting, through to editing in video production, for both digital cinema and broadcasting.

The On Screen Display (thereafter referred to OSD) default language setting is English. To change the OSD menu language setting, please refer to p.75.



About this manual


Some of the illustration used in the manual have been simplified for clarity.

Conventions used in this manual

: Indicates a reference page.

 Note: Indicates a note.

MENU  [Adjustment]  [Picture Mode]: Pressing the MENU button shows the OSD Menu levels. You can move between the items and select from them.

 Reference: Indicates reference information.

 CAUTION: Indicates an item you must observe.

Trademarks

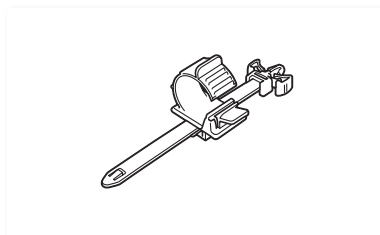
- HDMI, HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the U.S. and other countries.
- VESA is a registered trademark or trademark of Video Electronics Standards Association in the U.S. and other countries.
- Other product and company names herein are trademarks or registered trademarks of their respective owners.

Supplied Accessories

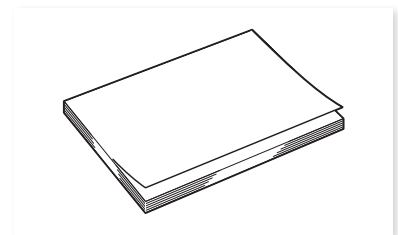
The following items are supplied with this product. Please check before using.



AC Power Cord HT-21



AC Power Cord clamp
HC-01



DP-V2411 Instruction Manual
(this document)

Important Usage Instructions

4 For the customers in the U.S.A.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference 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 area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Use of shielded cable is required to comply with class A limits in Subpart B of Part 15 of FCC Rules.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Canon U.S.A Inc.
One Canon Park, Melville, NY 11747, U.S.A.
Tel No. (631)330-5000

For the customers in Canada

CAN ICES-3 (A) / NMB-3 (A)

For the customers in Europe

Warning;

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

CANON INC.
30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501, Japan

CANON EUROPA N.V.
Bovenkerkerweg 59, 1185 XB Amstelveen, The Netherlands



Only for European Union and EEA (Norway, Iceland and Liechtenstein)

This symbol indicates that this product is not to be disposed of with your household waste, according to the WEEE Directive (2012/19/EU) and national legislation. This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (EEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, approved WEEE scheme or your household waste disposal service. For more information regarding return and recycling of WEEE products, please visit www.canon-europe.com/weee.

Safety Instructions and Handling Precautions

Be sure to read these instructions in order to operate the product safely.
Follow these instructions to prevent injury or harm to the operator of the product or others.

WARNING

Denotes the risk of serious injury or death.

- **Do not disassemble or modify the video display.**
Inside, the video display contains high-voltage/extremely hot/movable parts that can cause fire, electric shock, burns or injury.
- **Do not insert foreign objects or liquids into the video display.**
If metallic objects, flammable objects or liquids get inside the video display, this may cause fire, electric shock or malfunction.
- **Be sure to use the correct voltage.**
Using a power source with a voltage other than that specified in this instruction manual can cause fire or electric shock. Always use the supplied (or specified) AC power cord. For your safety, do not use this AC power cord to power other equipment.
- **Do not connect non-standard input voltage to the DC input terminal.**
Applying non-standard input voltage to the DC input terminal can cause a fire or electric shock.
- **Do not use the video display in the following places.**
Doing so can cause fire, electric shock or malfunction.
 - Close to a window when it is raining or snowing.
 - Places subject to high humidity and dust.
 - Places exposed to water and moisture such as bathrooms, kitchens etc.
 - Places directly exposed to dust, smoke or steam, or nearby heaters and humidifiers.
 - Places where flammable gases may be present.
 - Places exposed to direct sunlight.
- **Do not install or store the video display in places exposed to direct sunlight.**
The video display's internal temperature can rise and cause fire or malfunction.
- **Do not damage the power cord.**
Do not place heavy objects on the power cord and do not pull, modify, heat or tie the power cord in a bundle. The power cord may be damaged (exposed or broken wires, etc.) and cause fire or electric shock.
- **When using three-pronged plugs with a ground connection:**
Always connect the ground prong.
A short circuit occurring when the ground prong is not connected can cause fire or electric shock.
The video display's power cable features a three-pronged plug.
- **Do not touch the power cable or plug during lightning storms.**
This can cause electric shock.
- **Do not touch the power cable or plug with wet hands.**
This can cause electric shock.

- **Observe the following precautions regarding the power source and power plug.**

Failing to do so can cause fire or electric shock.

- Insert the power plug fully and securely into the power outlet. Do not use a damaged power cable or plug or a loose power outlet.
- Hold the plug itself when unplugging the power cable. Pulling the power cord can damage the power cord and cause fire or electric shock.
- Periodically remove any dust buildup from the power plug.
- Do not obstruct the access to the power plug by placing other objects around it.
- Do not connect many power cords to the same power outlet.
- When using an extension cable, make sure the total power consumption of the devices you connect to the extension cable does not exceed its rated power.

- **If the video display was dropped or exposed to a strong impact, turn it off immediately and unplug the power plug.**

The video display is a precision instrument and continued use in such case can result in a short circuit and cause fire or electric shock.

- **Before starting any maintenance work, turn off the video display and unplug the power plug.**

Failing to do so can cause electric shock.

- **In any case of unusual circumstances such as the presence of smoke or abnormal sounds or smell, immediately turn off the video display and unplug the power plug.**

Continued use can cause fire or electric shock.

- **Before moving, installing, removing or connecting the video display to peripheral devices, turn off the video display and all connected devices and unplug their power plugs.**

Failing to do so can cause fire, electric shock or malfunction.

- **For your safety, unplug the power plug from the power outlet when not using the video display for extended periods of time.**

Dust buildup on the power plug can cause fire.

- **Do not obstruct the access to the power plug so it can always be easily unplugged.**

Failing to disconnect the power plug immediately after unusual circumstances have occurred can cause fire or electric shock.

- **Do not block the ventilation holes.**

Blocking the video display's vent holes can result in the internal temperature rising and cause fire or malfunction. Observe the following precautions to ensure proper ventilation.

- Do not push the video display into narrow confined spaces or enclosures.
- Do not wrap the video display in cloth or other materials.
- Do not place the video display facing up, lay it sideways or upside-down.

- **If the screen is damaged, do not touch the leaking liquid crystal or other internal liquids.**

If the LCD panel is damaged and liquid crystal or other internal liquids leak out, do not put the liquids in the mouth, inhale or swallow it or let it come in contact with the skin. If the liquids get in the eye or mouth, wash it immediately with plenty of water. If the liquids come in contact with the skin or clothes, wipe them immediately with alcohol etc. and wash the exposed area with soap. Leaving the liquids untreated can cause injury or damage.

- **Use the carrying handle to carry the video display.**

When carrying the video display, be sure to hold it by the carrying handle. Failure to do so could cause the display to fall and cause an injury.

- **Keep all packaging material out of the reach of children.**

Packaging material tightly wrapped around someone's head can result in strangulation or suffocation.

 **CAUTION**

Denotes the risk of injury.

- **Do not place any objects on the video display and do not climb on it.**
The video display can tip or fall and cause injury.
- **Do not install the video display on an unstable surface.**
Installing the video display on a wobbly or slanted surface can cause the display to tip or fall and cause injury. Thoroughly check also the strength and sturdiness of the surface where the video display will be placed or installed.
- **Take precautions to prevent the video display from tipping or falling.**
In an earthquake the video display can tip or fall. For your safety, when installing the video display on a TV stand or other furniture, take precautionary measures to secure the video display against tipping or falling (📖 14). Taking such measures can be effective in reducing the risk of injury or damage but the effectiveness of the prevention measures cannot be guaranteed in all earthquakes.
- **Always follow the specified procedure to install the video display (📖 12).**
If the installation is not performed correctly, the video display may tilt or fall and cause injury.
- **Inspect the condition of the installation about once per year.**
An inadequate fitting or mounting can cause the video display to fall and cause injury.
- **Regularly check to ensure that the carrying handle remains securely attached.**
If the carrying handle screws are loose or broken, the display could fall and cause an injury.
- **Attach the carrying handle securely.**
The carrying handle screws should be tightened securely, if they have ever been removed. Failure to do so could cause the display to fall and cause an injury.
- **When using headphones, set the volume at a safe level.**
Listening through headphones at a high volume can harm your hearing.

When Using the Main Unit

- The screen may be damaged if it is left facing strong source of light. Please take precautions when placing it near a window.
- Do not press firmly on the screen, scratch it or place an object on the screen. It can cause non-uniformity or damage to the panel.
- The screen and cabinet may become warm during use. Note this does not constitute a malfunction.

About Backlight

The backlight has a limited service life so its brightness may degrade and color may change due to aging.

About Temporary Screen burn-in

If a stationary image is displayed for a prolonged period, screen burn-in may occur where you see remnants of what was displayed. This is a characteristic of LCD and is not a failure. However, this is only temporary and will disappear when playing video.

About the LCD screen

The screen is produced using extremely high-precision manufacturing techniques, with more than 99.99% of the pixels operating to specification. Less than 0.01% of the pixels may occasionally misfire or appear as black, red, blue or green dots. In addition, this tendency may increase through long term use due to characteristic of the LCD panel. These do not constitute a malfunction.

Condensation

If this equipment is brought into a warm room while it is cold or if the room is heated suddenly, condensation may form on the surface or inside the equipment. Note that the equipment may be damaged if it is used under such condition. If condensation has formed on the surface or inside the equipment, do not use the video display as it may get damaged. Turn the power off and wait until the condensation has evaporated before using the video display.

Cleaning

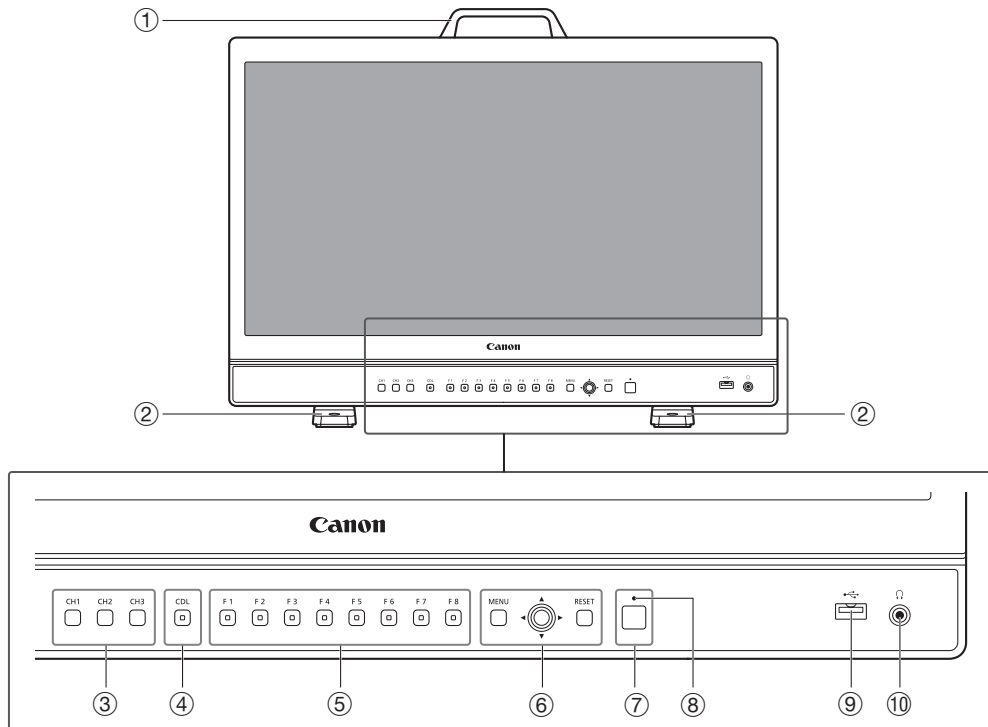
- Before cleaning, be sure to unplug the power plug.
- The screen has a special surface treatment, avoid touching it directly with your hand. In addition, never affix adhesive objects such as seals.
- Never use alcohol or benzene, thinner, acidic cleaning solution, alkaline cleaning solution, abrasive or chemical wipes because these will damage the screen.
- If the screen is dirty, wipe gently with soft dry cloth such as cleaning cloth or eye glasses cleaning cloth. Wiping the screen too hard may cause unevenness on the screen or damage the LCD panel. The screen may be scratched if wiped too hard with a cleaning cloth with foreign particles attached.
- When the screen is extremely dirty, wipe with soft cloth such as cleaning cloth or eye glasses cleaning cloth moistened with water-diluted neutral detergent.
- Use a blower to remove dust from the surface of the screen.
- Wipe dirt on cabinet with a soft cloth. If the screen is very dirty, use a moistened cloth with water or mild detergent diluted with water. Do not use alcohol, benzene, paint thinner, or pesticides as they may damage the surface finish or erase characters on the cabinet.

Disposing

- Do not dispose together with normal waste. Do not include the video display in waste that will be taken to landfill.
- Observe the rules and regulations of your local authorities when disposing.

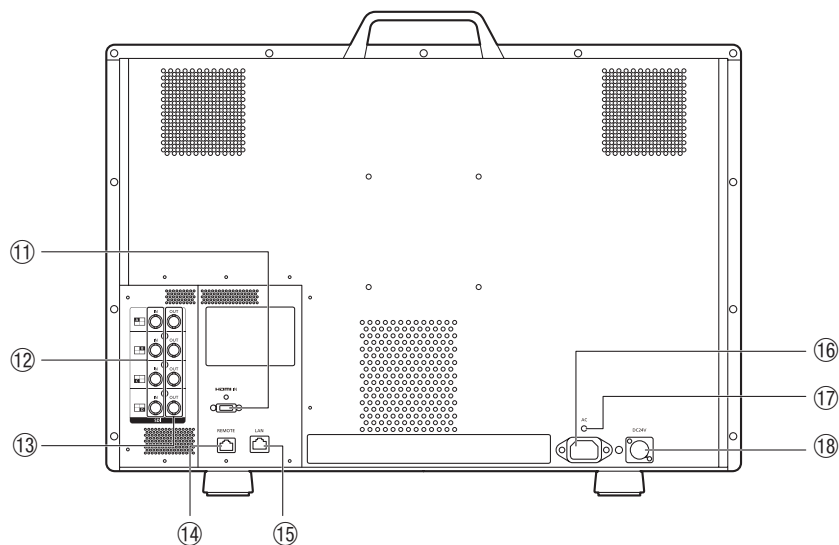
Nomenclature

10 Front face of the main unit



- ① Carrying handle (📖 12)
- ② Stand (📖 13)
- ③ Channel (CH) button CH1 to CH3 (📖 30)
- ④ CDL button
For switching CDL mode.
- ⑤ Function (F) button F1 to F8 (📖 29)
- ⑥ MENU button (📖 20)
Jog dial (📖 20)
RESET button (📖 20)
- ⑦ ⏻ (Power) button (📖 18)
- ⑧ Power indicator (📖 18)
- ⑨ USB port
For connecting an external sensor for calibration (📖 25), USB memory, hub, or color grading controller (Element-Tk made by Tangent Wave Ltd).
- ⑩ Headphone terminal (📖 60)

Back face of the main unit



- ① HDMI input terminal (📖 17)
- ② SDI input terminal (📖 16)
- ③ SDI output terminal
For passing through output corresponding to ②.
- ④ REMOTE terminal (📖 32)
For connecting remote control devices.
- ⑤ LAN (10/100 BASE) terminal (📖 33)
For connecting a Display Controller CL-01 (provided with the DP-V3010) and external control device.
- ⑥ AC power input terminal (📖 18)
- ⑦ Cord clamp mounting hole (📖 19)
- ⑧ DC power input terminal (📖 18)

! CAUTION

- When connecting an external sensor for calibration to the USB port, the USB cable length must not exceed 3 m (9.8 ft.). Otherwise, communication error may occur and correct calibration may not be possible.
- For safety, do not connect any connector that may have excessive voltage to the terminal of the video display when connecting peripheral devices.
- Pass through SD-SDI signals are not output correctly.

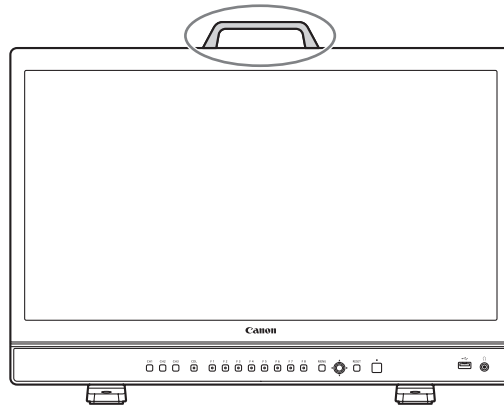
i Note

- About USB Memory
 - Both FAT16 and FAT32 USB memory devices are supported.
 - Correct operation cannot be guaranteed for all USB memory devices.
 - It may take 10 seconds or more for the USB memory to be recognized. If the function to save data on a USB memory is executed during recognition, the message [Detecting USB memory] is displayed.
- When using the CL-01 Display Controller (supplied with the DP-V3010) with this device, first update the controller firmware to Version 4.19.0 or later.

Installation/Connection

12 Carrying the video display

When carrying the video display, be sure to hold it by the carrying handle.



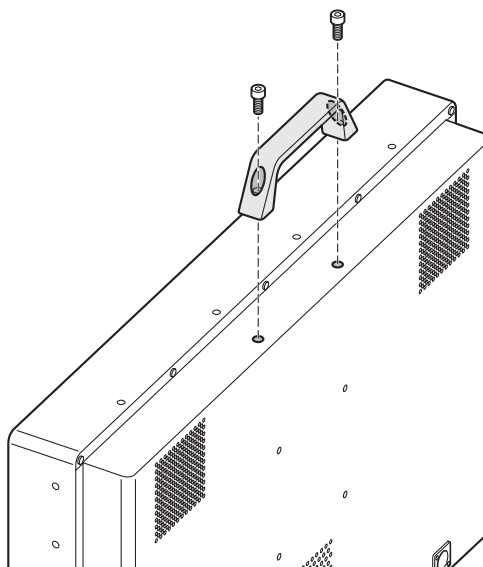
! CAUTION

- When carrying the video display, handle it carefully so not to touch or damage the screen.

Removing the carrying handle

The carrying handle can be removed when storing the display on a rack or display shelf.

- 1 Remove the two screws from the carrying handle, as shown in the diagram below.
 - Use a hexagonal key (5 mm).
 - Do not lose the removed screws or the carrying handle. Do not use these for other purposes.



! CAUTION

- Ensure that you do not touch or damage the screen during this process.
- When attaching a carrying handle to the video display, check that it's securely attached after fastening the screws.

Removing/attaching the stand

The stand can be removed when storing the display on a rack or display shelf.

! CAUTION

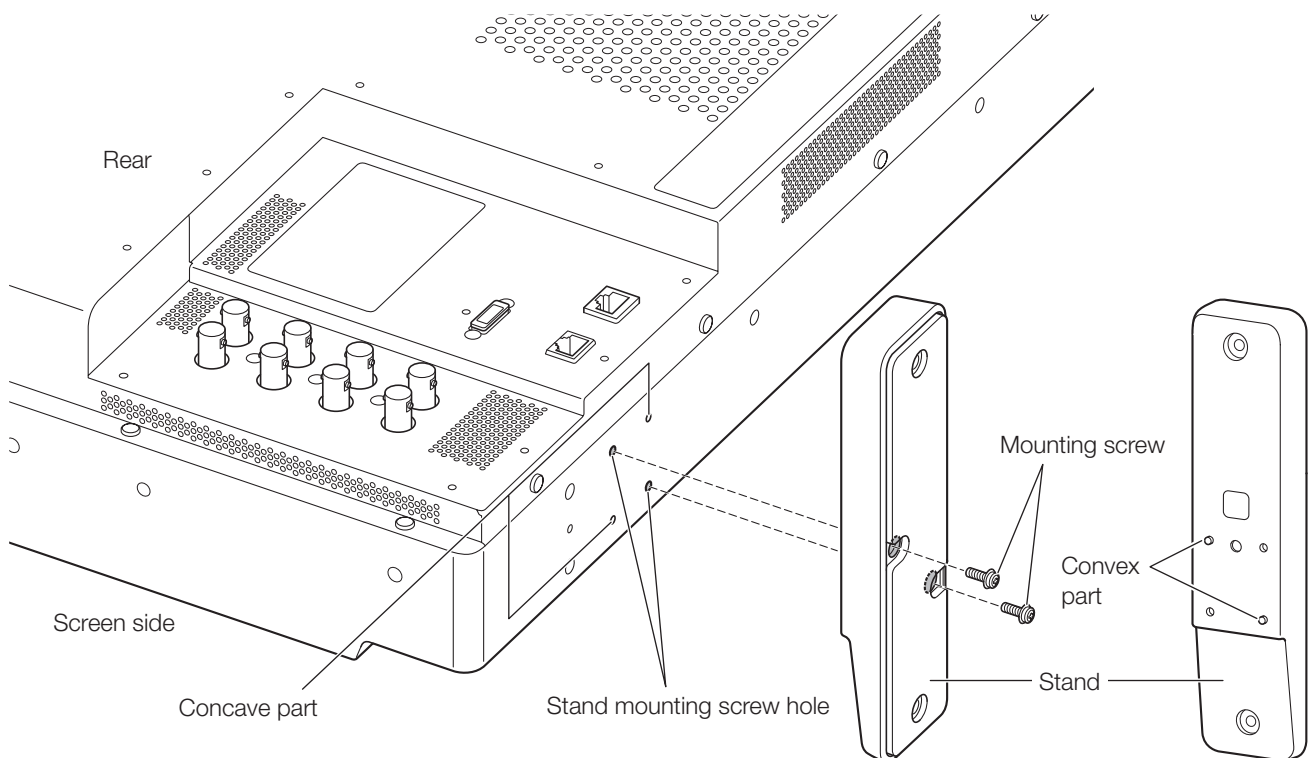
- Use a flat, clear surface when attaching/detaching the stands.
- The display can tip over if the stand has not been attached.
- Avoid touching the screen during this step as it may damage it.

Detaching

- 1 Place the display with the screen facing down on a soft cloth or cushioning material that is larger than the display.
- 2 Remove the mounting screws (x 2) from the left and right stands.
 - Do not lose the removed screws. Do not use these screws for other purposes.

Attaching

- 1 Place the display with the screen facing down on a soft cloth or cushioning material that is larger than the display.
- 2 Align the position of the stand and screw hole on the video display.
 - Align the convex part of the stand and concave part of the video display.
- 3 Fix the left and right stands using the mounting screws (x 2).



Preventing from Tipping

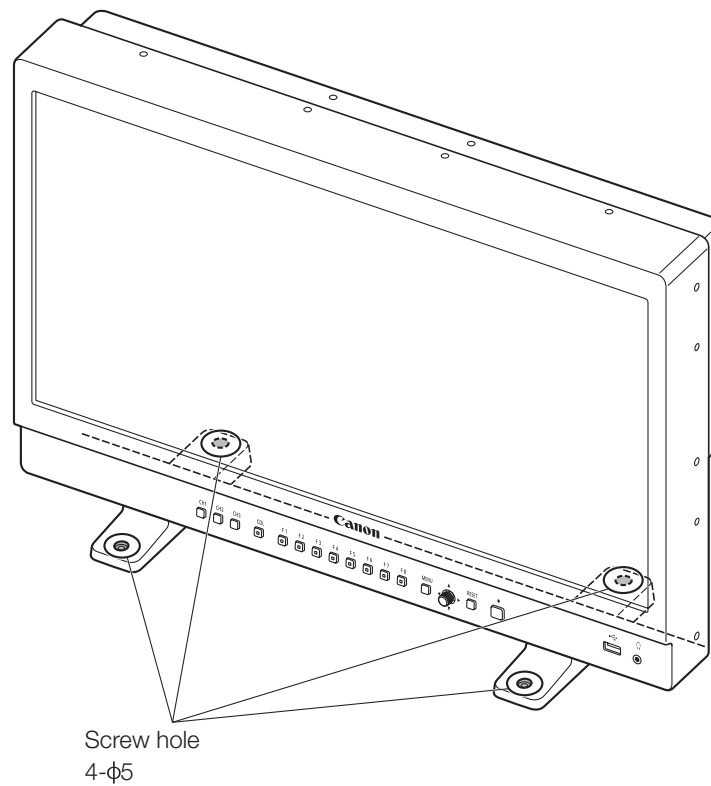
The video display can be fastened down to a desk or table by using the screw holes on the stand.

14

! CAUTION

- When securing the main unit to a table or desk, please ensure the table or desk is strong enough to carry the weight of the main unit.
- It is recommended to obtain assistance from another person when performing this step.
- Avoid touching the screen during this step as it may damage it.
- For safety reasons, when using the display for extended periods of time in a situation where it is subject to vibrations, shocks, or is tilted (when moving in a live broadcast vehicle, etc.), take additional measures to ensure the display remains fixed, such as the use of the screw holes on the rear or sides.

- 1 Use correct size screws that fit the screw holes to fasten it to a desk or table.



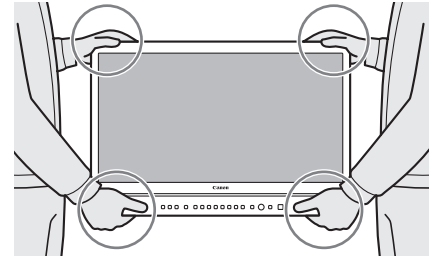
Mounting the Main Unit on a Stand or Wall

This main unit can be fitted to a stand* or to a wall mount bracket*. Remove the stands beforehand (📖 13).

* Commercially available.

! CAUTION

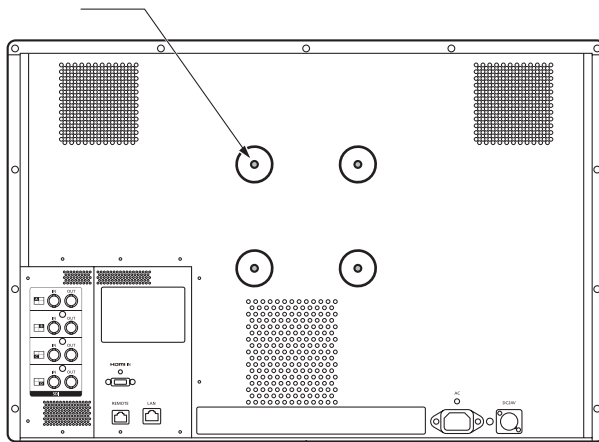
- For safety, make sure to perform this step with at least two people.
- Make sure that the main unit does not fall during installation/removal.
- Avoid touching the screen during this step as it may damage it.
- When mounting the main unit on a wall, make sure the wall has sufficient strength. If necessary, apply reinforcement. Also, make sure to check the load capacity of the stand or wall mount bracket.
- When the video display is placed on a rack or display stand and ventilation around it is blocked by equipment placed above or below or in a surrounding area, the operating temperature may increase, causing a failure or overheating. In order to maintain the operating temperature condition of the video display (0 °C to 40 °C), make space of at least 1U (4.4 cm) above and below and at least 4 cm (1.6 in.) space from its back. Make sufficient space from peripheral equipment, secure vents, or install a ventilation fan.
- When installing the video display on a wall, make sufficient space from the wall so that cables are not squeezed or twisted.



- 1 Attach a commercially available stand or wall mount bracket using the screw holes on the back or side face of the main unit.

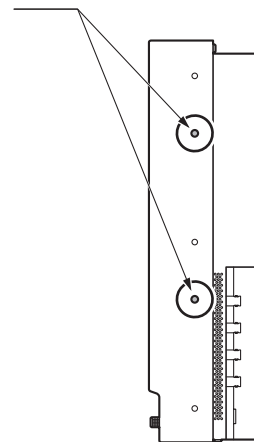
4-M4
Depth 6 (Max.)

Rear



2-M4
Depth 7 (Max.)

Side



Same on the other side

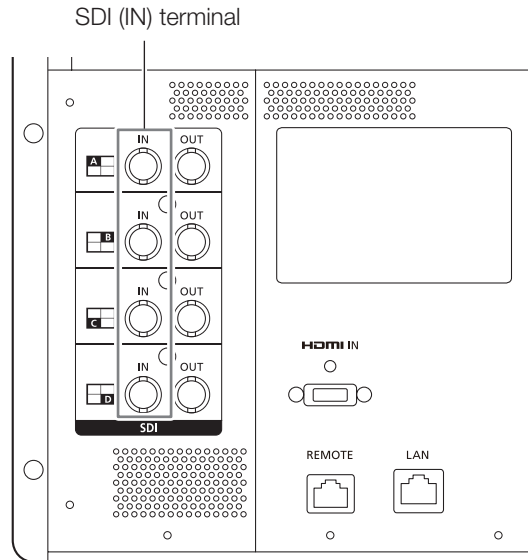
Connecting the Main Unit to Input Devices

The video display has SDI and HDMI input terminals to connect input devices.

! CAUTION

- Check that the power to the video display and input devices is switched off before connecting.

SDI input signals



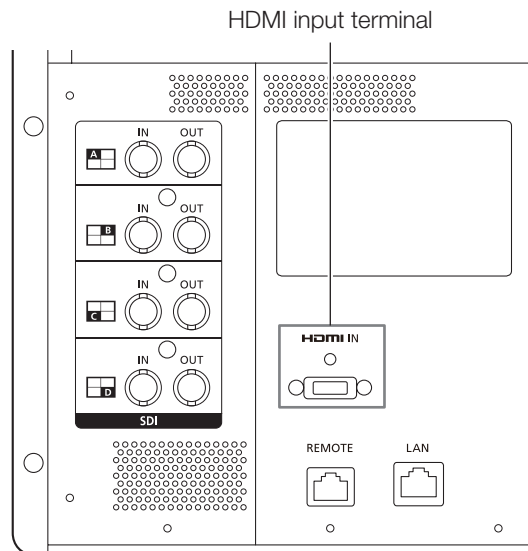
	Input signal		Input terminal	
Quad Link (Square Division)	3G/HD-SDI	Top left, Mapping signal	Input A	Single input system
		Top right, Mapping signal	Input B	
		Bottom left, Mapping signal	Input C	
		Bottom right, Mapping signal	Input D	
Quad Link ¹ (2 Sample Interleave)	3G-SDI	Link 1	Input A	Single input system
		Link 2	Input B	
		Link 3	Input C	
		Link 4	Input D	
Dual Link ¹	6G/3G-SDI	Link 1	Input A	Two input systems
		Link 2	Input B	
		Link 1	Input C	
		Link 2	Input D	
Single Link	12G/6G/3G/HD/ SD-SDI	—	Input A/Input B/ Input C/Input D	Four input systems

¹ The signals are automatically switched when [Image Division] is set to [Automatic].

Reference

- The connection is tested using Canare Corp. BNC cable D5.5UHDC03E.
- When 3G-SDI RAW signal frequency exceeds 30.00P, it becomes a dual connection.
- Each input terminal is compatible with through output. When signals are input from Input (IN) A, connect the cable to the SDI (OUT) terminal of Input A.

HDMI input signal



CAUTION

- Use a HDMI cable with the High Speed logo that complies with the HDMI standard. When a non-compliant HDMI standard cable is used, the video display may not work normally, for example, video becomes choppy or nothing is displayed.

Turning on the Power

18 Turning on the Main Unit's power

1 **When using AC power supply**

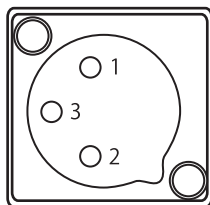
Plug the provided AC power cord HT-21 to the AC power supply input terminal at the rear.

- The video display goes into standby and the power indicator lights up in amber.

When using DC power supply (24 V DC)

Insert the DC power cord into the DC power supply input terminal at the rear.

- When connected normally, the video display goes into standby and the power indicator lights up in amber.
- DC power supply input terminal specifications are shown below.




Pin No.	Signal
1	- (GND)
2	+ (24 V, max. 10 A)
3	N.C.

2 Press the power supply button at the front.

- The power indicator lights green.

About the power indicator

Displays the status of the main unit. The brightness of the power indicator can be set from [Off] or [1 (dark)] to [5 (brightest)] ( 77). The power indicator will flash during firmware updates or when an error is detected even if it is set to [Off].

Off: when power supply is not connected

Green lit: when a power supply is connected and the video display's power is on

Green flash: during calibration or firmware update

Amber lit: during standby (power supply is connected and the power to the video display is off)

Amber flash: when error is detected

CAUTION

- Check the specifications of the DC power supply input terminal and use a power supply that is compatible with the video display. Using a power supply with incompatible voltage and polarity may cause fire or electric shock.
- Use a DC power cord with an allowable current of at least 10 A and a length of 2 m or less. If a DC power cord longer than 2 meters is used, the video display may not work normally, for example, the video becomes choppy or nothing is displayed.
- Do not connect cables for audio devices or sound cables to the DC power supply input terminal, as it may cause damage to the display unit.

Note

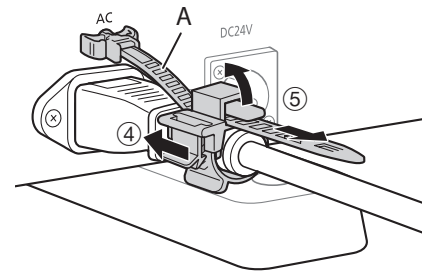
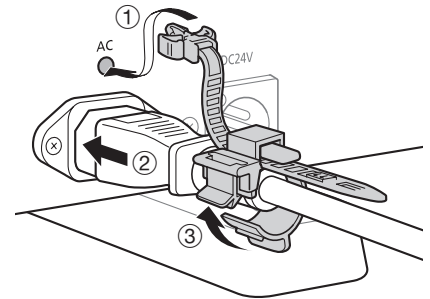
- Warming-up is necessary to stabilize the brightness of the video display. Wait at least 10 minutes after turning on the power before use.
- When an AC power supply is connected during the use of DC power supply, the power source is switched to AC power supply. When this happens, the power is turned off temporarily and then turned on again.

Attaching/detaching the HC-01 AC Power Cord Clamp (provided)

Attaching

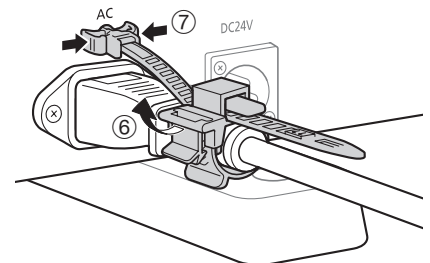
Install the AC power cord clamp before connecting the AC power cord to the main unit.

- 1 Insert the AC power cord clamp connector into the cord clamp mounting hole (①).
- 2 Connect the AC power cord to the main unit (②).
- 3 Secure the AC power cord in place with the holder (③).
 - The holder should always be fastened in the position as shown in the illustration.
- 4 Press the holder against the main unit (④).
 - Make sure that there is no slack (**A**).
 - Pulling the holder lock lever in the direction of the arrow will allow you to adjust the holder position (⑤).



Detaching

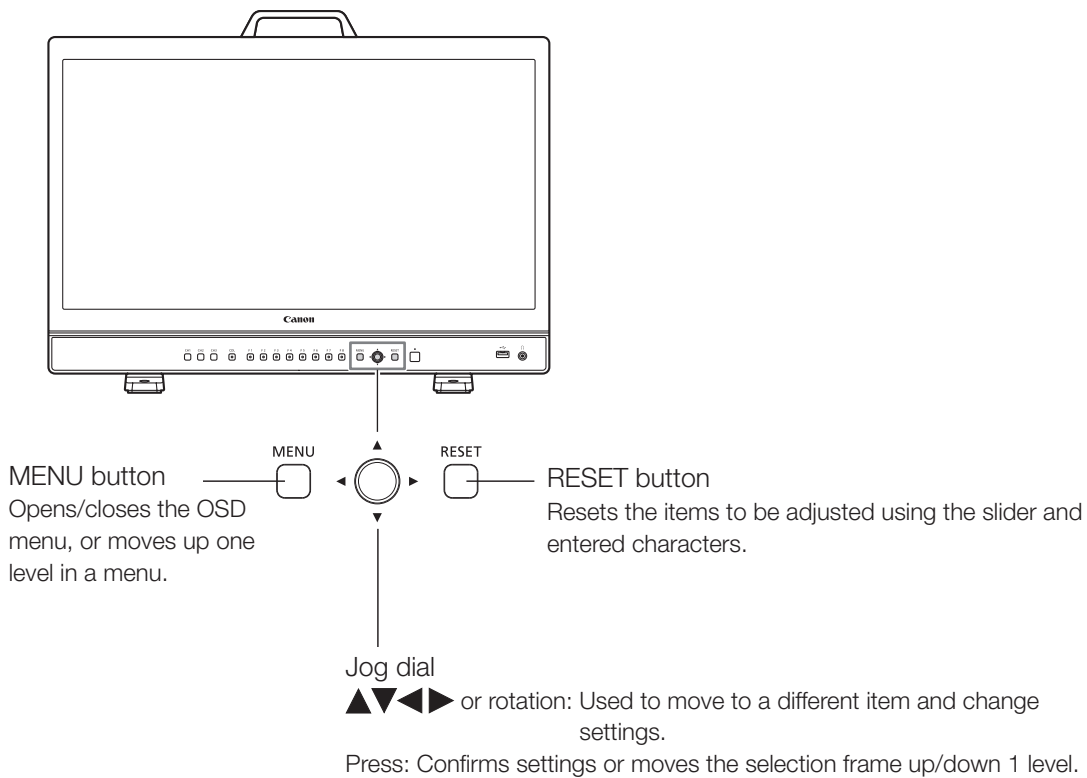
- 1 Pull the holder lever in the direction of the arrow (⑥) and remove the AC power cord clamp from the AC power cord.
- 2 Press the knobs on the left and right and pull out the AC power cord clamp from the video display (⑦).



Operating the Video Display

20 Using buttons and jog dial on the video display, you can adjust image quality and configure settings for input signals. In addition, you can assign frequently used functions to the CH (Channel) and F (Function) buttons.

Basic operations to use the OSD menu



The video display settings are changed from the OSD menu.

- 1 Open the OSD menu.
 - Press the MENU button.
- 2 Select the Main Menu.
 - Select the Main Menu item using the jog dial and press it to determine the selection.
- 3 Select the Sub Menu.
 - Select the Sub Menu item using the jog dial and press it to determine the selection.

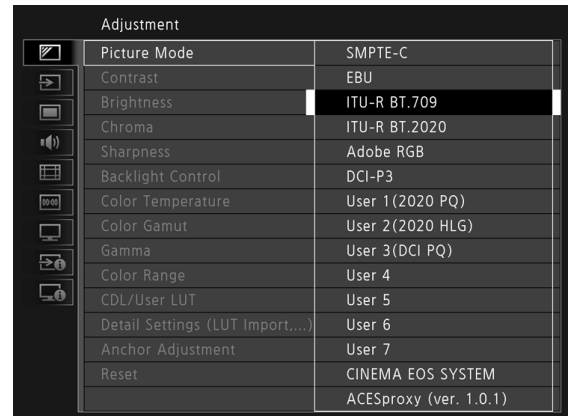
Main Menu	Sub Menu	Setting Options
	Adjustment	
Picture Mode		ITU-R BT.709
Contrast		● ————— ○ 1000
Brightness		+ ————— • 0
Chroma		● ————— ● 1000
Sharpness		€ ————— © 0
Backlight Control		Local Dimming Low
Color Temperature		D65
Color Gamut		ITU-R BT.709
Gamma		2.2
Color Range		Automatic (Limited)
CDL/User LUT		CDL 3
Detail Settings (Boost,LUT Import,...)		
Anchor Adjustment		
Reset		

4 Select the setting to change.

- Select the setting to change using the jog dial and press it to determine the selection. You will be returned to the Sub Menu item selection screen.

5 Exit menu.

- Pressing the MENU button will return you to the Main Menu item selection screen. Pressing the MENU button again will close the menu screen.



i Note

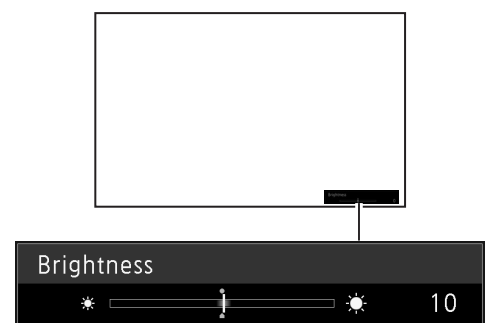
- To adjust image quality, warming-up is necessary to stabilize the brightness of the video display. Wait at least 10 minutes after turning on the power before use.
- The OSD menu and slider will disappear automatically if no operation is performed for approximately 1 minute. The F button will disappear automatically if no operation is performed for approximately 10 seconds.
- The settings that cannot be set, are grayed out.
- The following functions can be returned to their factory default settings or their anchor point (23) by pressing the RESET button, after adjusting the image quality.
 - [Contrast], [Brightness], [Chroma], [Sharpness], [Power], [Saturation], [Offset], [Slope]

When [Picture Mode] [User 1–7]: When executing calibration, pressing the RESET button while adjusting the image quality will return you to the settings after calibration.

Adjusting Image Quality While Viewing the Entire Image

You can adjust the OSD menu to display as a slider at the bottom of the screen. This allows for the image quality to be adjusted whilst it is displayed on the screen.

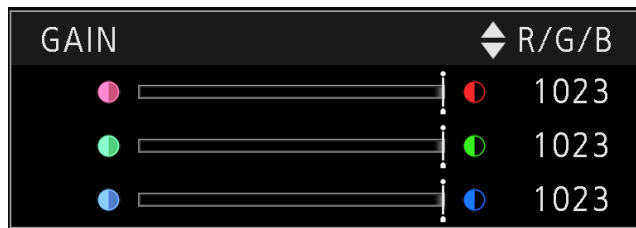
- 1 Press the jog dial when the selection frame is on setting options.
 - A slider appears at the bottom of the screen.
- 2 Make adjustments using the jog dial with using the slider as guide.
- 3 When adjustments are completed, press the jog dial.
 - The screen returns to the original OSD menu.



Color temperature detailed settings (gain, bias)

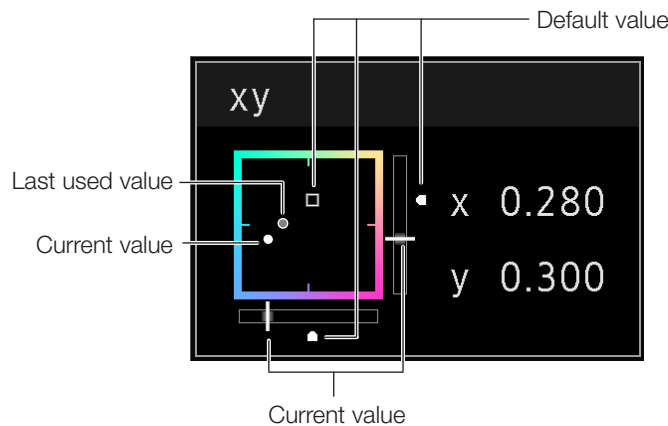
You can adjust RGB all at once or individually when the screens for adjusting [Gain] or [Bias] are displayed.

- 1 Open the [Color Temperature] menu.
 - [MENU] ➤ [Adjustment] ➤ [Color Temperature]
 - [Gain R], [Gain G], [Gain B], [Bias R], [Bias G], and [Bias B] can be set individually using the jog dial (◀▶).
- 2 Select one.
 - The setting screen for [Gain] or [Bias] will be displayed.
- 3 Switch the guide in the upper right area of the slider screen using the jog dial (▲▼).
 - The indication changes to [RGB], [R], [G], and [B]. Selecting [RGB] will allow you to adjust RGB as a whole.
- 4 When adjustments are completed, press the jog dial.
 - The screen returns to the original OSD menu.



Color temperature detailed settings (xy values)

- 1 Open the [Color Temperature] menu.
 - [MENU] ➤ [Adjustment] ➤ [Color Temperature]
- 2 Select [Custom (xy)].
 - You can set [x] and [y] individually using the jog dial (◀▶).
- 3 Select either [x] or [y].
 - The color map is displayed.
- 4 Adjust [x] with the ◀▶ and [y] with ▲▼.
 - The adjusted value is indicated by the "○" mark on the color map.
- 5 When adjustments are completed, press the jog dial.
 - The screen returns to the original OSD menu.



Temporarily Saving Parameters (Anchor Point Setting)

You can temporarily save parameters for [Contrast], [Brightness], [Chroma], [Sharpness], and [HDR Range]. See 43 for setting anchor points during CDL adjustment.

1 Open the [Anchor Adjustment] menu.

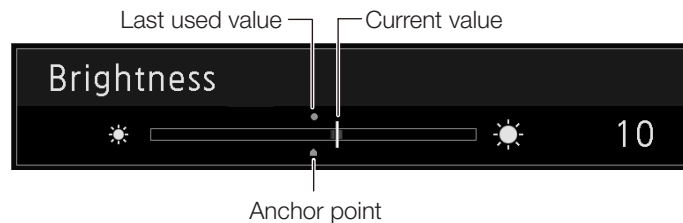
[MENU] ➤ [Adjustment] ➤ [Anchor Adjustment]

2 Press the jog dial, and when the confirmation screen appears, select [OK].

- The parameter is saved and the anchor point is set.

3 Adjust the image quality again and press the RESET button on the video display.

- Returns you to the anchor point for each function.



i Note

- Executing [Adjustment] ➤ [Reset] or [System Settings] ➤ [Reset All Settings] resets saved anchor points and the settings return to their factory default values.
- When calibration is executed, the values are saved as anchor points.

Enlarging the display (Zoom function) (57)

The zoom display position can be adjusted, and the zoom magnification (2x, 4x, 8x) can be selected.

1 Open the [Zoom] menu.

[MENU] ➤ [Display Settings] ➤ [Zoom]

2 Select [Zoom Preset] using the jog dial.

- Select a preset zoom display.

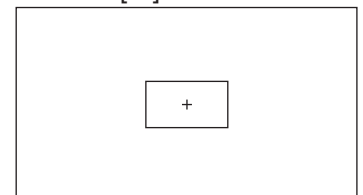
3 Select [Position] using the jog dial.

- The zoom adjustment screen is displayed.
 - To move the display position: Move the jog dial (▲▼◀▶ or rotation).
 - To return to the center: Press the RESET button.

4 When adjustments are completed, press the jog dial.

- The screen returns to the original OSD menu.

Zoom 2 [x4]



i Note

- When magnifying the image and the OSD menu is not being displayed, you can set the magnification ratio by pressing the jog dial.

Adjust image quality on left/right side of screen (image comparison mode)

You can divide the screen in two and adjust the image quality on the left and right sides of the screen individually.

1 Open the [Picture Mode R] menu.

[MENU] ➤ [Channel Settings] ➤ [Picture Mode R]




- Select [Picture Mode] on the right screen.

2 Select the screen to adjust image quality.

- When the OSD menu is opened:
 - Press the ◀ in the jog dial when the [Adjustment] main menu is selected.
 - Press the CH1 button when the [Adjustment] main menu or sub menu is selected.
- When the OSD menu is closed: Switch using the jog dial (◀▶).
- Each time the target screen is switched, the set [Picture Mode] is displayed at the top.

3 Adjust the image quality on the selected screen.

Note

- When in Image Comparison mode, an icon showing which screen (L/R) is selected for image quality Adjustment, is displayed at the right top of the [Adjustment] menu screen.
- The functions that cannot be used when the right screen is selected are as follows:
 - [ACESproxy (Ver. 1.0.1)] in [Picture Mode]
 - Sub Menu items for [Adjustment]: [Contrast], [Backlight Control], [Boost Contrast], [HDR/SDR View], [Calibration]
- When two screens are displayed, you can adjust the image quality on each screen individually and compare them.
 - When two screens are displaying the same image ([Single Input Dual View]  55)
 - When two screens are displaying different images ([Multi View (Dual)]  53)
 - You can check HDR (High Dynamic Range) display and SDR (Standard Dynamic Range) display side-by-side. ([HDR/SDR View]  45)
- When [Picture Mode] is the same for both left and right screens, the entire screen (both sides) will be adjusted whichever side of the screen the image is adjusted on.

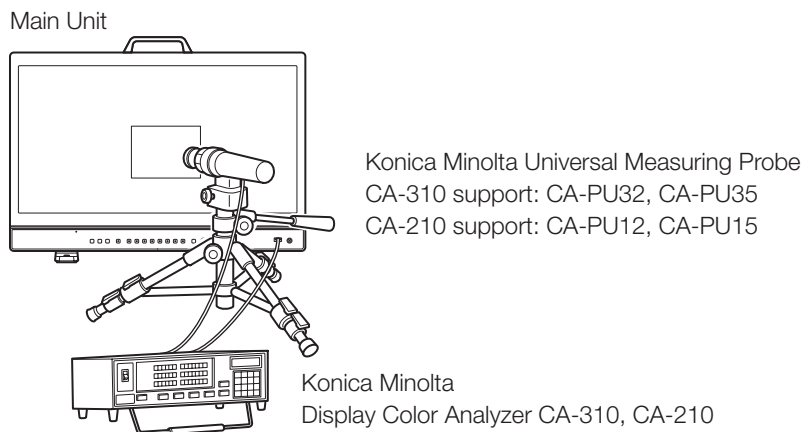


Performing calibrations (📖 45)

You can perform calibration using an external sensor, without using a computer.

The supported external sensors are Konica Minolta Display Color Analyzers CA-310 and CA-210. Be sure to also read the instruction manual of the CA-310 and CA-210.

- 1 Connect the display color analyzer to the USB port of the main unit.
- 2 Select [User 1] to [User 7] and then open the [Calibration] menu.
 - ① **MENU** ➤ [Adjustment] ➤ [Picture Mode] ➤ [User 1–7]
 - ② **MENU** ➤ [Adjustment] ➤ [Detail Settings] ➤ [Calibration]
 - Set each target value.
- 3 Press the jog dial and select [Start].
 - Please follow the information indicated on the screen.
- 4 Initialize the sensor.
 - Set the mode dial of the Universal Measuring Probe to [0-CAL].
 - Press the jog dial of the video display, select [OK], and execute initialization.
- 5 Place the universal measuring probe pointing at the center of the video display.
 - Set the mode dial of the universal measuring probe to [MEAS] and place the probe as shown below according to the displayed content. Press the jog dial of the video display, select [OK], and execute calibration.



- 6 Finish calibration.
 - When the message [Calibration is completed.] is displayed, press the jog dial and select [OK].
 - If the message [Calibration error.] is displayed.
Calibration has been terminated due to an error. The main unit returns to the state before calibration. (📖 104)
 - To cancel calibration
Press the jog dial during calibration and select [Cancel]. The main unit returns to the state before calibration.




Note

- Perform matrix calibration of the display color analyzer prior to calibration. If calibration is performed without performing matrix calibration, an error may occur. Refer to the CA-310 and CA-210 instruction manual for the detail operation.
- Warming-up is necessary to stabilize the brightness of the video display. Wait at least 10 minutes after turning on the power before performing calibration.
- Perform calibration in a dark room so that no external light enters the sensor. If external light enters the sensor, low brightness characteristics cannot be calibrated correctly.
- Due to the characteristic of LCD panel and individual difference of CA-310 and CA-210, the calibration results may differ.


Export/Import

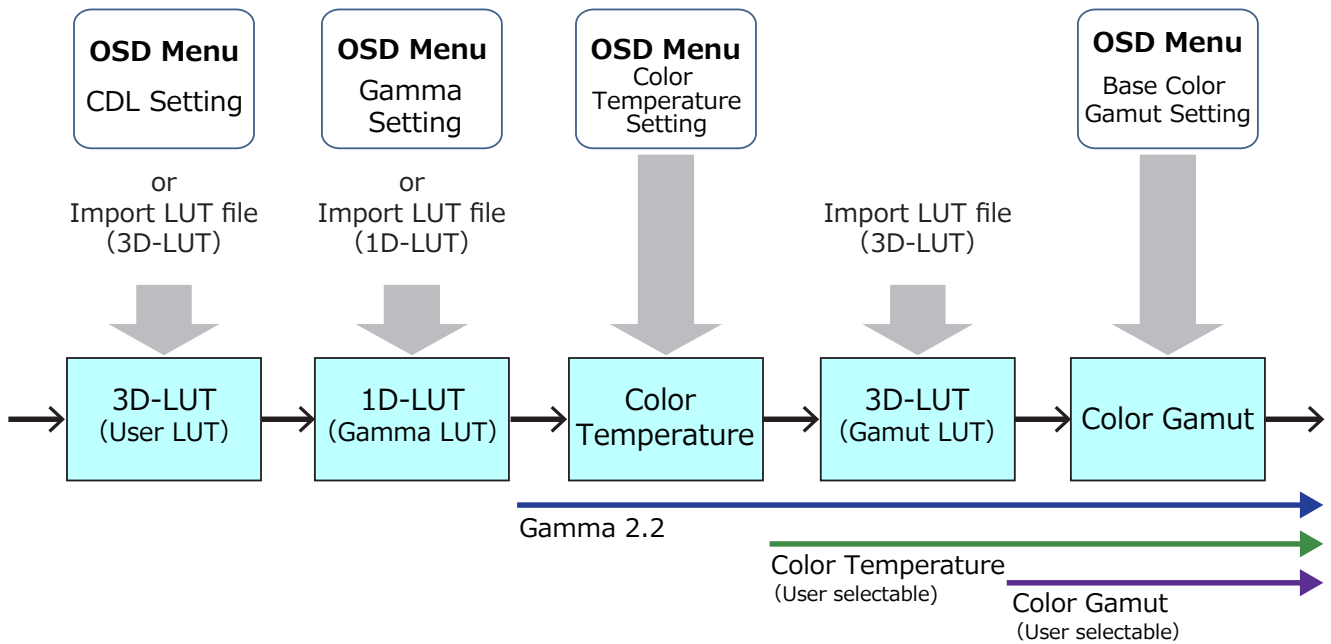
You can export/import LUT and CDL parameters as well as main menu settings.

LUT Import (44)

- 1 Insert a USB memory stick into the USB port of the main unit.
- 2 Open the [LUT Import] menu.
[MENU]  [Adjustment]  [Detail Settings]  [LUT Import]
- 3 Select the file using the jog dial.
 - In the [Filename] field, search and display a file with extension [.clut] in the root folder.
- 4 Select the LUT type using the jog dial.
 - Select the LUT type by using [User LUT], [Gamma LUT] or [Gamut LUT].
 - Refer to the "Concept Drawing of Display Image Processing and LUT". Or, also refer to the "User LUT Creation Guide" on the Canon website.
- 5 Select [Select LUT] using the jog dial.
- 6 Select the standard color gamut using the jog dial.
 - Select the color gamut used when creating the LUT (when [Gamut LUT] under [LUT Type] is selected).
- 7 Select [Execute] using the jog dial.
 - When the confirmation screen appears, select [OK]. Import starts.

Note

- The LUT file is proprietary to Canon Video Display. Refer to the Canon website for the file format and how to create the LUT file.
- Up to 1000 LUT import files are recognized.
- You can delete the imported LUT, as well as rename the LUT ( 44).



Concept Drawing of Display Image Processing and LUT

Export/Import Main Menu Settings (📖 78)

- 1 Open the [Export/Import] menu.
[MENU] ➤ [System Settings] ➤ [Export/Import]
- 2 Select [Export] or [Import] using the jog dial.

Exporting

- ① Select [Target] from [USB] or [User 1] to [User 3].
Export [USB] to the USB memory and [User 1] to [User 3] to the built-in memory of the main unit.
- ② Select [Filename] when [USB] is selected.
Factory default is [dinfo_dpv2411.dat]. You can change the name of the file to be exported to the USB memory within 16 one-byte characters including alphabetical characters, numbers, and symbols.

Importing

- ① Select [Target] from [USB] or [User 1] to [User 3].
Specify the destination to save the file to be imported.
 - ② Select [Filename] when [USB] is selected.
 - ③ In [Settings], select [All] or Main Menu name.
- 3 Select [Execute] using the jog dial.
 - When the confirmation screen appears, select [OK]. Export/Import starts.

i Note

- After export to [User 1] to [User 3], you can select the configurations at startup from [User 1] to [User 3] in [Power on Setting] in [System Settings] (📖 78).

Exporting/Importing CDL Parameters (📖 43)

- 28
- 1 Open the [Type] menu.
[MENU] ➡ [Adjustment] ➡ [CDL/User LUT] ➡ [Type]
 - 2 Select [CDL] using the jog dial.
 - 3 Select [Detail Settings] ➡ [CDL Export] or [CDL Import].

Exporting

- ① Select [CDL Preset].
- ② Select a file format [.ccc] or [.cdl].

Importing

- ① Select [Filename].
 - ② Select [CDL Preset].
- 4 Select [Execute] using the jog dial.
 - When the confirmation screen appears, select [OK]. Export/Import starts.

Note

- The exported file is automatically saved under the name "YYYYMMDDhhmmss_Preset name.ccc (cdl)".
- Up to 1000 CDL import files are recognized.

Set Date/Time (📖 75)

This section describes how to set the video display Date/Time. The video display Date/Time will be reset if the power cord is not connected for approximately 20 days.

- 1 Open the [Date/Time] menu.
[MENU] ➡ [System Settings] ➡ [Date/Time]
 - A screen to input the Date/Time appears.
- 2 Set the Date/Time using the jog dial.
 - The selection frame moves and numbers change as you operate the jog dial. Repeat until you complete setting the year, month, date, hour, and minute.
- 3 Press the jog dial when you are finished.
 - The selection frame moves to [OK].
- 4 Check the content and press the jog dial to confirm the settings.

Reference

- When selecting [Cancel] or pressing MENU button before selecting [OK], the settings will be reset and the previous screen will be displayed.

Inputting Characters

This section describes how to input the characters. Use this function to specify a channel name, a display name, or filename.

1 When the character input screen is displayed, use the jog dial (◀▶) to select the area you wish to input.

2 Select characters using the jog dial (▲▼ or rotation).

- The following characters can be selected: Press ▲▼ buttons to display them one by one. You can input up to 16 characters.

Alphanumeric characters: A to Z, a to z, 0 to 9

Symbols: , . : ; ' ` - + / = % & ! ? # _ | \$ ^ ~ @ { } [] < > () space

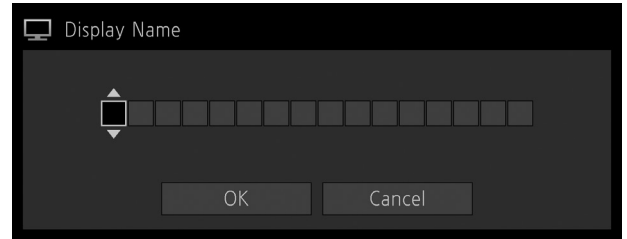
- Some characters cannot be used for a filename. In this case, they are automatically skipped.

3 Repeat steps 1 and 2 until the desired text has been input.

4 Press the jog dial when you are finished.

- The selection frame moves to [OK].

5 Check the content and press the jog dial to confirm the settings.



Reference

- When selecting [Cancel] or pressing MENU button before selecting [OK], the settings will be reset and the previous screen will be displayed.
- To erase a character in the selection frame, press the RESET button of the video display.

Using the Function (F) Buttons

You can assign functions to the F buttons on the video display to execute them instantly. You can assign different functions on F buttons in the normal and CDL modes respectively.

1 Open the [Display Function] or [Display Function (CDL)] menu.

[MENU] ➤ **[System Settings]** ➤ **[Function/Channel Button]** ➤ **[Display Function]** or **[Display Function (CDL)]**

- The button selection screen will be displayed.

2 Select the name of the button using the jog dial and press the jog dial to determine the selection.

3 Select the function to assign using the jog dial.

- Refer to the "Function to allow registration for the display F buttons (📖80)" for the available functions.

4 Press the jog dial to determine the selection.

- The setting is confirmed.

The following content is assigned to function buttons on the video display by factory default.

F button	Normal mode	CDL mode
F1	Contrast	CDL R
F2	Brightness	CDL G
F3	Time Code	CDL B
F4	WFM/VEC	CDL Power
F5	Audio Level Meter	CDL Offset
F6	Zoom Preset	CDL Slope
F7	Hide OSD	CDL Saturation
F8	Boost Contrast	CDL/User LUT Bypass

Reference

- Holding the F button down will display the function selection screen, and you can set the function you wish to register.
- You can check the function assigned to the F buttons of the main unit.
Open the [MENU] ➤ [Function Settings] ➤ [Various Function] ➤ [Function Button Guide] menu and select [On]. Pressing the jog dial while OSD is not showing will display the list of functions.

Using the Channel (CH) Button

You can assign channels (various settings related to input signal) to the CH buttons on the video display and switch channels instantly.

- 1 Open the [Display Channel] menu.
[MENU] ➤ [System Settings] ➤ [Function/Channel Button] ➤ [Display Channel]
 - The button selection screen will be displayed.
- 2 Select the name of the button using the jog dial and press the jog dial to determine the selection.
- 3 Select the channel to assign using the jog dial.
 - See [Channel Settings] (📖 52) for the configurable settings.
- 4 Press the jog dial to determine the selection.
 - The setting is confirmed.

The following content is assigned to channel buttons on the video display and to each channel by factory default.

CH	CH1	CH2	CH3	CH4	CH5
Input Configuration	12-3G/HD-SDI	HDMI	3G-SDI RAW	12-3G/HD-SDI	12-3G/HD-SDI
Select Input Signal	Automatic	Automatic	Automatic	Automatic	Automatic
Image Division	Automatic	Automatic	Automatic	Automatic	Automatic
Format	Automatic	Automatic	Automatic	Automatic	Automatic
Audio Input	Automatic	Automatic	Automatic	Automatic	Automatic
Marker/TC/WFM/VEC Input	Input A	Input A	Input A	Input A	Input A
Internal Sync	Off	Off	Off	Off	Off
Channel Name	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)
Picture Mode	ITU-R BT.709	ITU-R BT.709	CINEMA EOS SYSTEM	User 1 (2020 PQ)	User 1 (2020 PQ)
Picture Mode R	— (Not set)	— (Not set)	— (Not set)	— (Not set)	ITU-R BT.709
Single Input Dual View	Off	Off	Off	Automatic	Off
Separator	Off	Off	Off	Off	White

CH	CH6	CH7	CH8	CH9	CH10 to CH20
Input Configuration	12-3G/HD-SDI	12-3G/HD-SDI	12-3G/HD-SDI	12-3G/HD-SDI	— (Not set)
Select Input Signal	Automatic	Automatic	Automatic	Automatic	Automatic
Image Division	Automatic	Automatic	Automatic	Automatic	Automatic
Format	Automatic	Automatic	Automatic	Automatic	Automatic
Audio Input	Automatic	Automatic	Automatic	Automatic	Automatic
Marker/TC/WFM/VEC Input	Input A	Input A	Input A	Input A	Input A
Internal Sync	Off	Off	Off	Off	Off
Channel Name	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)
Picture Mode	User 1 (2020 PQ)	User 2 (2020 HLG)	User 2 (2020 HLG)	User 2 (2020 HLG)	ITU-R BT.709
Picture Mode R	ITU-R BT.709	— (Not set)	ITU-R BT.709	ITU-R BT.709	— (Not set)
Single Input Dual View	Automatic	Automatic	Off	Automatic	Off
Separator	Off	Off	White	Off	Off

Note

- Holding the CH button will display the channel list, so to allow the user to select the desired channel.

Checking Signal Information and Status of the Main Unit

The video display is equipped with a banner display function.

1 Press the jog dial when the OSD menu is closed.

- The channel name, signal information, and status of the main unit will be displayed in the banner. It will automatically disappear after 6 seconds.

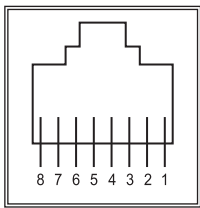
i Note

- You can select how the banner is displayed (📖70).
MENU ➤ [Function Settings] ➤ [Various Function] ➤ [Banner]
- For more detailed signal information, please refer to the section on [Signal Information] (📖82).
- The [Detecting sync.] banner will continue to appear until the input signal is synchronized.

Operating the video display using an external device [REMOTE terminal (GPI)]

You can operate the video display using an external device connected to the REMOTE terminal and execute the functions registered in each pin. Remote operation is possible only when the video display is turned on.

Pin layout for REMOTE terminal



Pin No.	Signal	Factory default	
1	Pin1	CH1	
2	Pin2	CH2	
3	Pin3	CH3	
4	Pin4	Time Code	
5	Pin5	Tally Green	A tally appears at the top of the screen.
6	Pin6	Tally Red	
7	Pin7	Power On	
8	Pin8 (GND)	—	

1 Connect an external control device to the REMOTE terminal.

2 Open the [Remote(GPI)] menu.

- MENU** ➤ [System Settings] ➤ [Network/IMD/Remote(GPI) Settings] ➤ [Remote(GPI)]
- The pin selection screen will be displayed.

3 Select a pin number using the jog dial and press it to determine the selection.

4 Select the function to assign using the jog dial.

- Please see [Remote(GPI)] (📖76) for settable functions.

5 Press the jog dial to determine the selection.

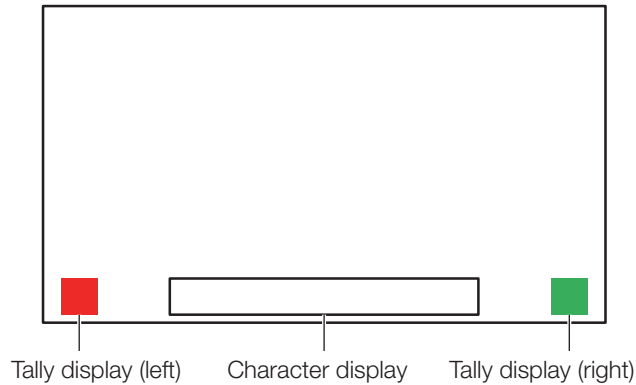
- The setting is confirmed.

Operating the video display using an external device [LAN terminal]

The video display supports Television Systems Ltd.'s "TSL UMD Protocol Ver. 5.0". You can operate the video display using an external device connected to the LAN terminal and display characters and tally lights on the screen. There are two tally lights, on the left and right. Up to 16 characters can be entered. The following characters can be entered.

Alphanumeric characters: A to Z, a to z, 0 to 9

Symbols: , . : ; ' ` - + / = % & ! ? # _ | \$ ^ ~ @ { } [] < > () and spaces



- 1 Connect an external control device to the LAN terminal.
- 2 Set [SCREEN] and [INDEX] to [0x0000] in the TSL Protocol settings.
- 3 Open the [In Monitor Display] menu.
 - [MENU] ➤ [System Settings] ➤ [Network/IMD/Remote(GPI) Settings] ➤ [In Monitor Display]
- 4 Select [Control] ➤ [TSL Ver. 5.00] using the jog dial.
 - This will allow operation from an external control device, and display characters and tally lights.
- 5 Select [Position] ➤ [Top] or [Bottom] using the jog dial.
 - This sets the position where characters and tally lights will be displayed.

i Note

- When [Multi View (Dual)] or [Multi View (Quad)] is displayed, set the [INDEX] setting to from [0x0001] to [0x0004].
- The port number for the controlling is fixed at "45000".
- With [In Monitor Display] you can also display user-selected characters on the screen. (📖 75)

OSD Menu

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- Chroma
- Sharpness
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- Color Gamut
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- Output Transform
- Output Transform Surround
- CDL/User LUT
 - Type
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 - User LUT
 - Power
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 - Offset
 - Slope

- CDL/User LUT Bypass
- Detail Settings
 - CDL Export
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 - Boost Contrast
 - LUT Import
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- Screen Scaling
- Anamorphic
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 - Area Size
 - Rate (%)
 - Width (dot)
 - Height (dot)
 - Shape
 - Line Width
 - Line Color
 - Line Brightness
 - H Position
 - V Position
- Area Marker
 - Enable
 - H Position
 - V Position
 - Width (dot)
 - Height (dot)
 - Mask
 - Line
 - Line Width
 - Line Color
 - Line Brightness
- Center Marker
 - Enable
 - Size
 - Line Width
 - Line Color
 - Line Brightness
- Grid Marker
 - Enable
 - Distance
 - Line Width
 - Line Color
 - Line Brightness

Function Settings (📖 66)

- Peaking
 - Enable
 - Monochrome
 - Frequency
 - Range
 - Color
- False Color
 - Enable
 - Type
 - HDR Range
- Time Code
 - Enable
 - Type
 - Size
 - Position
- Wave Form Monitor
 - Enable
 - Select Signal
 - Select Line
 - Position
 - Scale
 - Reference Line
 - Reference Level High
 - Reference Level Low
 - Color
- Vector Scope
 - Enable
 - Target
 - Position
- Audio Level Meter
 - Enable
 - Channel Number (SDI)
 - Channel Number (HDMI)
 - Peak Hold
 - Reference Level
- Test Pattern
- Screen Capture
 - Capture
 - Frame Hold
 - Capture Source
 - Playback File
 - Finish Playback File
- Various Function
 - Monochrome, Blue Only, Red Off, Green Off, Blue Off, 2020 Out of 709 Gamut View, Banner, Function Button Guide, OSD Position, OSD Size, Reduce Backlight Flash
- Camera Link
 - Automatic Adjustment (CINEMA EOS)
 - Color Gamut/Gamma
 - Color Temperature
 - Color Range
 - Display Color Gamut
 - Automatic Adjustment (ARRI)
 - User LUT/Color Gamut/Gamma
 - Color Range
 - Display Color Gamut/Gamma
 - Anamorphic
 - Area Marker
 - Fan
 - Camera Information

System Settings (📖 75)

- Function/Channel Button
 - Display Function
 - Display Function (CDL)
 - Display Channel
- Language
- Date/Time
- Network/IMD/Remote(GPI) Settings
 - Network
 - In Monitor Display
 - Remote(GPI)
- Display Name
- Power Indicator/Button LED Settings
 - Power Indicator Brightness
 - Display Button LED
 - Button Name Lighting Time (sec.)

- Fan Settings
 - Fan Control
 - Fan Stop
- Compatible Settings
 - HDMI
- Protect Settings
 - Password
 - Protect Target
 - Protect
- Firmware Update
- Export/Import
 - Export
 - Import
- Power on Setting
- Reset All Settings

Signal Information (📖 82)

System Information (📖 82)

Adjustment

This menu is used to adjust the image quality and perform calibration. The factory defaults differ according to the [Picture Mode] setting. (📖50)

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Sub Menu	Setting Options (Bold: factory default)	
Picture Mode	SMPTE-C EBU ITU-R BT.709 ITU-R BT.2020 Adobe RGB DCI-P3 User 1 (2020 PQ) User 2 (2020 HLG) User 3 (DCI PQ) User 4 to User 7 CINEMA EOS SYSTEM ACESproxy (Ver. 1.0.1) ¹	Select a preset mode. [SMPTE-C], [EBU], [ITU-R BT.709], [ITU-R BT.2020], [Adobe RGB], [DCI-P3]: Mode set to the brightness, color temperature, gamma, and color gamut of the three primary colors chromaticity points of each standard. [User 1–7] (User 1 (2020 PQ), User 2 (2020 HLG), User 3 (DCI PQ), User 4 to User 7): This mode allows you to set each item in [Adjustment] individually. You can change the mode name within 16 one-byte characters including alphabetical characters, numbers, and symbols (📖46). [CINEMA EOS SYSTEM]: Canon Log is the ideal mode for displaying images captured with CINEMA EOS SYSTEM cameras. Using Camera Link, you can have the image quality setting change automatically ([Automatic Adjustment (CINEMA EOS)] 📖70). [ACESproxy (Ver. 1.0.1)]: A mode to display ACESproxy videos in optimum gamma and color gamut.
Contrast ²	0 to 6000 When [Boost Contrast] ➤ [On] 0 to 10000	Adjusts the white level of the image. (Increments of 1) • When [Boost Contrast] is [On], [Contrast [BOOST]] is displayed.
Brightness	-500 to 500 (0)	Adjusts the black level of the image. (Increments of 1)
Chroma ³	0 to 2000 (1000)	Adjusts the color saturation of the image (color depth). (Increments of 1)
Sharpness	0 to 100 (0)	Adjusts the sharpness of the image. (Increments of 1)
Backlight Control ⁴	Local Dimming High Local Dimming Low Off When [Boost Contrast] ➤ [On] Global Dimming Off	Switches the backlight control method. [Local Dimming High/Low]: Local dimming technology controls the amount of light emitted by the backlight for each display area. The backlight of bright area is increased and the dark area is decreased according to the displayed content. When [Local Dimming High/Low] is selected and [Boost Contrast] is set to [On], it turns to [Global Dimming]. [Global Dimming]: Global dimming is the ability to control the amount of light emitted by the backlight on the entire screen. If the image is dark, the whole display is darkened.

Sub Menu	Setting Options (Bold: factory default)	
Color Temperature ⁵	D93, D65, D61, D60, D56, D50, DCI-P3 Custom (xy), Off <ul style="list-style-type: none"> When a preset is selected Gain R/G/B: 0 to 1023 Bias R/G/B: -500 to 500 (0) <ul style="list-style-type: none"> When Custom (xy) is selected x: 0.260 to 0.360 y: 0.260 to 0.360	Sets the color temperature. (📖 22) [D93], [D65], [D61], [D60], [D56], [D50], [DCI-P3]: Select from preset color temperatures. [Gain R/G/B], [Bias R/G/B]: Adjusts the preset color temperature. (Increments of 1) [Custom (xy)]: Adjusts CIE x and y. (Increments of 0.001)
Color Gamut ⁶	SMPTE-C EBU ITU-R BT.709 ITU-R BT.2020 Adobe RGB DCI-P3 Native Cinema Gamut to 709 Cinema Gamut to 2020 Cinema Gamut to DCI DCI-P3+ to 709 DCI-P3+ to DCI Preset Gamut 1 to 709 Preset Gamut 1 to 2020 Preset Gamut 1 to DCI Preset Gamut 2 to 709 Preset Gamut 2 to 2020 Preset Gamut 2 to DCI Gamut LUT 1 to Gamut LUT 8	Sets the color range. When [Picture Mode] ➤ [User 1–7] or [CINEMA EOS SYSTEM] [SMPTE-C], [EBU], [ITU-R BT.709], [ITU-R BT.2020], [Adobe RGB], [DCI-P3]: Color gamut compliant to each standard. [Native]: Color gamut that can be displayed by this video display. [Cinema Gamut to 709], [Cinema Gamut to 2020], [Cinema Gamut to DCI], [DCI-P3+ to 709], [DCI-P3+ to DCI]: Modes where the color gamut is converted to monitor Cinema Gamut and DCI-P3+ videos recorded by the CINEMA EOS SYSTEM cameras. [Preset Gamut 1 to 709], [Preset Gamut 1 to 2020], [Preset Gamut 1 to DCI], [Preset Gamut 2 to 709], [Preset Gamut 2 to 2020], [Preset Gamut 2 to DCI]: Preset modes where the color gamut is converted. [Gamut LUT 1] to [Gamut LUT 8]: Selects an external LUT.

Sub Menu	Setting Options (Bold: factory default)	
Gamma ⁷	1.0, 2.2, 2.35, 2.4, 2.6, ITU-R BT.1886 Canon Log Canon Log (HDR) Canon Log 2 Canon Log 2 (HDR) Canon Log 3 Canon Log 3 (HDR) SMPTE ST 2084 (PQ) Hybrid Log-Gamma Hybrid Log-Gamma RGB Preset Log 1 Preset Log 2 Gamma LUT 1 to Gamma LUT 8 Off	Sets the Gamma (EOTF). [1.0], [2.2], [2.35], [2.4], [2.6], [ITU-R BT.1886], [Canon Log], [Canon Log 2], [Canon Log 3]: Select the preset gamma. [Canon Log (HDR)], [Canon Log 2 (HDR)], [Canon Log 3 (HDR)], [SMPTE ST 2084 (PQ)], [Hybrid Log-Gamma], [Hybrid Log-Gamma RGB]: Select the gamma for HDR display. [Preset Log 1], [Preset Log 2]: Selects the preset gamma. [Gamma LUT 1] to [Gamma LUT 8]: Selects an external LUT. ❖ About [Hybrid Log-Gamma] This video display supports the following two methods. [Hybrid Log-Gamma]: This method processes the system gamma for the Y signal. [Hybrid Log-Gamma RGB]: This method processes the system gamma for the RGB signal.

Sub Menu	Setting Options (Bold: factory default)	
HDR Range	Sets the display method when Gamma for HDR display is selected.	
Canon Log (HDR)	100 to 800	Sets the [Canon Log] dynamic range to be displayed, from 0 to 800%. (in 100 increments)
Canon Log 2 (HDR)	100 to 1600	Sets the [Canon Log 2] dynamic range to be displayed, from 0 to 1600%. (in 100 increments)
Canon Log 3 (HDR)	100 to 1600	Sets the [Canon Log 3] dynamic range to be displayed, from 0 to 1600%. (in 100 increments)
SMPTE ST 2084 (PQ)	100 to 10000 (1000)	Sets the [SMPTE ST 2084 (PQ)] dynamic range to be displayed, from 0.005 to 10,000 cd/m ² (nits). (in 100 increments)
Hybrid Log-Gamma	100 to 1000/2000/4000	Sets how far to display the [Hybrid Log-Gamma] dynamic range. (in increments of 100)
Hybrid Log-Gamma RGB	100 to 1000/2000	The upper limit value will change to match the settings of [Hybrid Log-Gamma System]. (45)
Preset Log 1	100 to 1400 (1000)	Sets how far to display the [Preset Log] dynamic range. (in 100 increments)
Preset Log 2	100 to 3900 (1000)	
Gamma LUT 1 to Gamma LUT 8	512 to 1023	Sets how far to display the 10-bit LUT data dynamic range, from 0 to 1023. (in 1 increments)

❖ Setting procedures

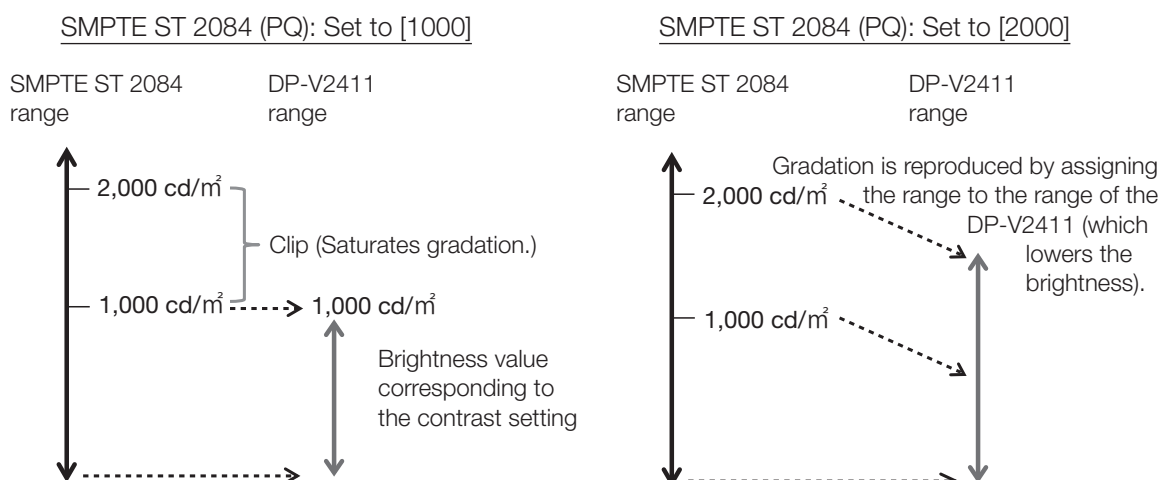
The explanation uses [SMPTE ST 2084 (PQ)] as an example.

When set at "1000," those areas that exceed 1,000 cd/m² are clipped, and those that are 1,000 cd/m² or below are assigned to the dynamic range of the video display. When displaying an image with a PQ of 1,000 cd/m², you can check the entire dynamic range of the image. Also, when displaying an image with a PQ of 2,000 cd/m², you can check the image up to 1,000 cd/m².



When set at "2000," those areas that exceed 2,000 cd/m² are clipped, and those that are 2,000 cd/m² or below are assigned to the dynamic range of the video display. When displaying an image with a PQ of 2,000 cd/m², although the apparent brightness lowers, you can still check all the dynamic range of the image.



The brightness of the video display corresponds to the value set for Contrast.





SMPTE ST 2084 (PQ) 2,000 cd/m² signal (Contrast: [10000])




Sub Menu	Setting Options (Bold: factory default)	
Color Range ⁸	Automatic Full SDI Full (4-1019) Limited	Sets the quantization range. [Automatic]: Sets the range based on signal information automatically.
Input Transform	Automatic Off	When [Picture Mode] ► [ACESproxy (Ver. 1.0.1)] Sets whether to apply ACES Input Transform to the [3G-SDI RAW] signal (☞52). Displayed instead of [Gamma] or [Color Gamut]. [Automatic]: Applied automatically. [Off]: Not applied.
Output Transform	ITU-R BT.709 ITU-R BT.2020 DCI-P3	When [Picture Mode] ► [ACESproxy (Ver. 1.0.1)] Displayed instead of [Gamma] or [Color Gamut]. [ITU-R BT.709], [ITU-R BT.2020], [DCI-P3]: ACESproxy is converted into respective mode.
Output Transform Surround	Dim Surround Dark Surround	When [Picture Mode] ► [ACESproxy (Ver. 1.0.1)] Displayed instead of [Gamma] or [Color Gamut]. [Dim Surround]: Enables Dim Surround process specified by ACESproxy. [Dark Surround]: Enables Dark Surround process specified by ACESproxy.

Sub Menu	Setting Options (Bold: factory default)	
CDL/User LUT ⁹	Configures settings for CDL or User LUT.	
Type	CDL User LUT Off	Select the type.
When [Type]  [CDL]		
CDL Preset	CDL 1 to CDL 15	Selects a preset of the CDL.
Power	0.50 to 4.00 (1.00)	Adjusts the Gamma of the image. (0.01 increments)
Saturation	0.000 to 2.000 (1.000)	Adjusts the color saturation of the image. (0.001 increments)
Offset	-1.000 to 1.000 (0.000)	Adjusts the black level of the image. (0.001 increments)
Slope	0.000 to 2.000 (1.000)	Adjusts the white level of the image. (0.001 increments)
CDL/User LUT Bypass	On, Off	When set to [On], you can temporarily disable the CDL adjustment result and return to previously set image quality.
Detail Settings		
CDL Export		Exports CDL parameters.
CDL Preset	CDL 1 to CDL 15 All	
File Type	CCC CDL	
Execute		
CDL Import		Imports CDL parameters.
Filename		
CDL Preset	CDL 1 to CDL 15	
Execute		
CDL Preset Name		You can specify the name of preset mode within 16 one-byte characters including alphabetical characters, numbers, and symbols.
Anchor CDL		You can temporarily save parameters for [Power], [Saturation], [Offset], and [Slope] and recover the values. (anchor point setting)
Reset CDL		Resets CDL parameters.
When [Type]  [User LUT]		
User LUT	User LUT 1 to User LUT 8 ARRI LUT 709 ARRI LUT 2020 ARRI LUT 2020 PQ 1K ARRI LUT 2020 PQ 2K	Sets preset of the User LUT or the LUT for ARRI cinema cameras.
CDL/User LUT Bypass	On, Off	When set to [On], you can return to the image quality before user LUT was applied.

Sub Menu	Setting Options (Bold: factory default)	
Detail Settings 	Sets details for Picture Mode.	
Boost Contrast ¹⁰	On Off	You can increase the brightness. The upper limit for [Contrast] and the [Backlight Control] settings vary depending on the [Boost Contrast] settings. [On]: The settings for [Contrast] are from 0 to 10,000. When [Backlight Control] is [Local Dimming High/Low] and [Boost Contrast] is set to [On], it turns to [Global Dimming]. [Off]: The settings for [Contrast] are from 0 to 6000.
LUT Import	You can import LUT. File names that can be imported can be up to 48 one-byte characters, including alphabetical characters, numbers, and symbols (including file extensions).	
Filename		Select a filename.
LUT Type	User LUT Gamma LUT Gamut LUT	Select the LUT type.
Select LUT	User LUT 1-8 Gamma LUT 1-8 Gamut LUT 1-8	
Base Color Gamut	SMPTE-C EBU ITU-R BT.709 Adobe RGB DCI-P3 Native	When [LUT Type]  [Gamut LUT] Selects the color gamut used when creating the LUT.
Execute		Performs import.
LUT Name	You can specify the name of LUT within one-byte 24 characters including alphabetical characters, numbers, and symbols.	
LUT Type	User LUT Gamma LUT Gamut LUT	Select the LUT type.
Select LUT	User LUT 1-8 Gamma LUT 1-8 Gamut LUT 1-8	
Input Name		Input the LUT name.
LUT Delete	Deletes imported LUT.	
LUT Type	User LUT Gamma LUT Gamut LUT	Select the LUT type.
Select LUT	User LUT 1-8 Gamma LUT 1-8 Gamut LUT 1-8	
Delete		Deletes LUT.

Sub Menu	Setting Options (Bold: factory default)	
YCbCr Color Matrix	Automatic ITU-R BT.709 ITU-R BT.2020	Sets the matrix conversion method for input signals in YCbCr format. [Automatic]: Matrix coefficient is set in conformance with the ITU-R BT.2020 standard when the [Picture Mode] or [Color Gamut] setting is [ITU-R BT.2020] and in conformance with the ITU-R BT.709 standard otherwise. [ITU-R BT.709]: Matrix coefficient is set in conformance with the ITU-R BT.709 standard. [ITU-R BT.2020]: Matrix coefficient is set in conformance with the ITU-R BT.2020 standard.
2020 Constant Luminance ¹¹	Constant Luminance Non-constant Luminance	When [Picture Mode] or [Color Gamut]  [ITU-R BT.2020] Sets the color matrix conversion method. [Constant Luminance]: YUV signals are linearly converted and then converted into RGB signals. [Non-constant Luminance]: YUV signals are converted into RGB signals without changing gamma 0.45.
2020 Gamut Mapping	Gamut Mapping Clipping	When [Picture Mode] or [Color Gamut]  [ITU-R BT.2020] [Gamut Mapping]: Mapping is performed on colors outside the native color gamut by Canon's unique method. [Clipping]: Colors outside the native color gamut are clipped by a general method.
Hybrid Log-Gamma System	[Gamma]  When [Hybrid Log-Gamma] $\gamma 1.2 - 1000 \text{ cd/m}^2$ $\gamma 1.325 - 2000 \text{ cd/m}^2$ $\gamma 1.45 - 4000 \text{ cd/m}^2$ When [Hybrid Log-Gamma RGB] $\gamma 1.2 - 1000 \text{ cd/m}^2$ $\gamma 1.2 - 2000 \text{ cd/m}^2$	Sets the peak brightness. The maximum value for each setting becomes the upper limit value of [HDR Range].
HDR/SDR View ¹²	On, Off	The HDR (High Dynamic Range) and SDR (Standard Dynamic Range) displays can be compared. [On]: The right screen is displayed at SDR luminance. [Off]: Does not compare the HDR and SDR display.
Calibration ¹³	When [Picture Mode]  [User 1-7] Executes calibration based on set target values.	
Luminance	48 to 600 (100) cd/m^2	Sets the target luminance.

Sub Menu	Setting Options (Bold: factory default)	
Color Temperature	D93, D65 , D61, D60, D56, D50, DCI-P3 Custom (xy) <ul style="list-style-type: none"> • When Custom (xy) is selected x: 0.260 to 0.360 (0.313) y: 0.260 to 0.360 (0.329)	Sets the target color temperature. [D93], [D65], [D61], [D60], [D56], [D50], [DCI-P3]: Select from preset color temperatures. [Custom (xy)]: Adjusts CIE x and y. (Increments of 0.001)
Color Gamut	SMPTE-C EBU ITU-R BT.709 ITU-R BT.2020 Adobe RGB DCI-P3	Sets the color gamut.
Gamma	2.2 , 2.35, 2.4, 2.6, ITU-R BT.1886	Sets the target gamma.
Start		Performs calibration.
Copy Picture Mode ¹⁴	When [Picture Mode]  [User 1–7] Copy the Picture Mode settings.	
Picture Mode	SMPTE-C EBU ITU-R BT.709 ITU-R BT.2020 Adobe RGB DCI-P3 User 1 (2020 PQ) User 2 (2020 HLG) User 3 (DCI PQ) User 4 to User 7	Select the Picture Mode. [User 1–7]: Select from other than the currently set mode.
Execute		Performs copy.
Picture Mode Name		You can change the name of [User 1–7] within 16 characters including alphabetical characters, numbers, and symbols.
Anchor Adjustment	OK Cancel	Temporarily saves parameters for adjusting [Contrast], [Brightness], [Chroma], [Sharpness], and [HDR Range] and recover the values (anchor point setting). [OK]: Performs anchor point setting. [Cancel]: Returns to the previous screen without setting anchor point.

Sub Menu	Setting Options (Bold: factory default)	
Reset	OK Cancel	Return [Picture Mode] to factory default. Note that in [User 1–7] mode where you are performing calibration, the setting returns to the value after calibration instead of the factory default. When selected, the message [Reset Adjustment settings to defaults?] appears. [OK]: Performs reset. [Cancel]: Returns to the previous screen without resetting.

¹ [ACESproxy (Ver. 1.0.1)] cannot be set in the right screen.

² You cannot adjust [Contrast] in [Picture Mode] for the right screen if [Picture Mode] has been set differently for the left and right screens. The right screen's setting will be the same as set for the left screen.

³ You cannot adjust when [User LUT] in [CDL/User LUT] is selected.

- ⁴
- When [Global Dimming] is selected, the contrast may change temporarily in order to maintain gradation depending on the image. If this is undesirable, turn it [Off] and see if it improves.
 - You cannot set the right screen using [Picture Mode] if [Picture Mode] has been set differently for the left and right screens. The right screen's setting will be the same as set for the left screen.

- ⁵
- [Custom (xy)] and [Gain R/G/B] or [Bias R/G/B] cannot be selected at the same time.
 - When [Gain R/G/B] or [Bias R/G/B] value is adjusted, an asterisk [*] is displayed by color temperature preset mode.
 - The displayed color coordinates (x, y) are just a guide and not guaranteed absolute values.

- ⁶
- For checking the video captured with Cinema EOS cameras, please refer to the "Parameter of Cinema EOS cameras and DP-V2411 (73)".
 - Setting is disabled when [User LUT] is set to [ARRI LUT 709] and is fixed to [ITU-R BT.709].
 - Setting is disabled when [User LUT] is set to [ARRI LUT 2020], [ARRI LUT 2020 PQ 1K] or [ARRI LUT 2020 PQ 2K] and is fixed to [ITU-R BT.2020].

- 7 • Not settable in the following cases:
 - When [ACESproxy (Ver. 1.0.1)] is selected in [Picture Mode]
 - When [ARRI LUT 709], [ARRI LUT 2020], [ARRI LUT 2020 PQ 1K] or [ARRI LUT 2020 PQ 2K] is selected in [User LUT]
- For checking the captured video with Cinema EOS cameras and ARRI cinema cameras, please refer to [Camera Link] ➡ [Automatic Adjustment] (📖 70).
- The relationship between [Color Gamut] and [Gamma] that can be selected is shown below. When [Color Gamut] is changed, gamma is changed to the underlined value (default value) only when current gamma value is not selectable.

Picture Mode	Color Gamut	Selectable Gamma
SMPTE-C	Cannot be selected	Off, 1.0, <u>2.2</u> , 2.35, 2.4, 2.6, ITU-R BT.1886, Canon Log, Canon Log (HDR), SMPTE ST 2084 (PQ), Gamma LUT 1 to Gamma LUT 8
EBU		Off, 1.0, <u>2.2</u> , <u>2.35</u> , 2.4, 2.6, ITU-R BT.1886, Canon Log, Canon Log (HDR), SMPTE ST 2084 (PQ), Gamma LUT 1 to Gamma LUT 8
ITU-R BT.709, ITU-R BT.2020		Off, 1.0, <u>2.2</u> , 2.35, 2.4, 2.6, ITU-R BT.1886, Canon Log, Canon Log (HDR), Canon Log 2, Canon Log 2 (HDR), Canon Log 3, Canon Log 3 (HDR), SMPTE ST 2084 (PQ), Hybrid Log-Gamma, Hybrid Log-Gamma RGB, Preset Log 1, Preset Log 2, Gamma LUT 1 to Gamma LUT 8
Adobe RGB		Off, 1.0, <u>2.2</u> , 2.35, 2.4, 2.6, ITU-R BT.1886, Gamma LUT 1 to Gamma LUT 8
DCI-P3		Off, 1.0, 2.2, 2.35, 2.4, <u>2.6</u> , ITU-R BT.1886, Canon Log, Canon Log (HDR), Canon Log 2, Canon Log 2 (HDR), Canon Log 3, Canon Log 3 (HDR), SMPTE ST 2084 (PQ), Preset Log 1, Preset Log 2, Gamma LUT 1 to Gamma LUT 8
CINEMA EOS SYSTEM, User 1-7	SMPTE-C	Off, 1.0, <u>2.2</u> , 2.35, 2.4, 2.6, ITU-R BT.1886, Canon Log, Canon Log (HDR), SMPTE ST 2084 (PQ), Gamma LUT 1 to Gamma LUT 8
	EBU	Off, 1.0, 2.2, <u>2.35</u> , 2.4, 2.6, ITU-R BT.1886, Canon Log, Canon Log (HDR), SMPTE ST 2084 (PQ), Gamma LUT 1 to Gamma LUT 8
	ITU-R BT.709, ITU-R BT.2020	Off, 1.0, <u>2.2</u> , 2.35, 2.4, 2.6, ITU-R BT.1886, Canon Log, Canon Log (HDR), Canon Log 2, Canon Log 2 (HDR), Canon Log 3, Canon Log 3 (HDR), SMPTE ST 2084 (PQ), Hybrid Log-Gamma, Hybrid Log-Gamma RGB, Preset Log 1, Preset Log 2, Gamma LUT 1 to Gamma LUT 8
	Adobe RGB	Off, 1.0, <u>2.2</u> , 2.35, 2.4, 2.6, ITU-R BT.1886, Gamma LUT 1 to Gamma LUT 8
	DCI-P3	Off, 1.0, 2.2, 2.35, 2.4, <u>2.6</u> , ITU-R BT.1886, Canon Log, Canon Log (HDR), Canon Log 2, Canon Log 2 (HDR), Canon Log 3, Canon Log 3 (HDR), SMPTE ST 2084 (PQ), Preset Log 1, Preset Log 2, Gamma LUT 1 to Gamma LUT 8
	Native	Off, 1.0, <u>2.2</u> , 2.35, 2.4, 2.6, ITU-R BT.1886, SMPTE ST 2084 (PQ), Gamma LUT 1 to Gamma LUT 8
	Cinema Gamut to 709, Cinema Gamut to 2020	2.2, Canon Log, Canon Log (HDR), Canon Log 2, <u>Canon Log 2 (HDR)</u> , Canon Log 3, Canon Log 3 (HDR)
	Cinema Gamut to DCI	Canon Log, Canon Log (HDR), Canon Log 2, <u>Canon Log 2 (HDR)</u> , Canon Log 3, Canon Log 3 (HDR)
	DCI-P3+ to 709, DCI-P3+ to DCI	Canon Log, <u>Canon Log (HDR)</u>
	Preset Gamut 1 to 709 Preset Gamut 1 to 2020 Preset Gamut 2 to 709 Preset Gamut 2 to 2020	Off, 1.0, <u>2.2</u> , 2.35, 2.4, 2.6, ITU-R BT.1886, SMPTE ST 2084 (PQ), Hybrid Log-Gamma, Hybrid Log-Gamma RGB, Preset Log 1, Preset Log 2, Gamma LUT 1 to Gamma LUT 8
	Preset Gamut 1 to DCI Preset Gamut 2 to DCI	Off, 1.0, 2.2, 2.35, 2.4, <u>2.6</u> , ITU-R BT.1886, SMPTE ST 2084 (PQ), Preset Log 1, Preset Log 2, Gamma LUT 1 to Gamma LUT 8
	Gamut LUT 1 to Gamut LUT 8	Off, 1.0, <u>2.2</u> , 2.35, 2.4, 2.6, ITU-R BT.1886, Gamma LUT 1 to Gamma LUT 8

- ⁸
- Setting is disabled when [ACESproxy (Ver. 1.0.1)] is selected for [Picture Mode].
 - Operations when [Automatic] is selected are described below.
 - It is set in accordance with the settings if Color Range settings are included in the camera metadata.
 - When HDMI is selected, [Full] or [Limited] is set automatically depending on HDMI signal information.
 - When SDI is selected, the setting is configured according to the settings for [Picture Mode], [Color Gamut], and [Gamma].

	Setting Options	Color Range to be Set
Picture Mode	DCI-P3	Full
Color Gamut	DCI-P3	
	Cinema Gamut to DCI DCI-P3+ to DCI	
Gamma	Canon Log (HDR)	
	Canon Log 2 (HDR)	
	Canon Log 3 (HDR)	
Other than the above		Limited

- Operations when [Format] is set to [ICtP] are described below.
 - When [Color Range] is set to [SDI Full (4-1019)], the signal for [Wave Form Monitor] will change. (For 10-bit images, the [4-1019] signal will be displayed as [0-1023].)
 - In the following case, if [Picture Mode] has been set differently for the left and right screens, the right screen's [Color Range] setting will be the same as set for the left screen.
 - When displaying a single terminal's input in full-screen
 - When displaying "2 Sample Interleave" or "Dual Link 3G-SDI" signals
- ⁹
- When [User LUT] is selected, all [CDL] items, [Chroma], and [Blue Only] cannot be changed.
 - [ARRI LUT 709] can be selected when [Picture Mode] is set to [ITU-R BT.709] or [User 1-7].
 - [ARRI LUT 2020], [ARRI LUT 2020 PQ 1K] or [ARRI LUT 2020 PQ 2K] can be selected when [Picture Mode] is set to [ITU-R BT.2020] or [User 1-7].
 - When [ARRI LUT 2020 PQ 1K] is selected, [HDR Range] ➤ [SMPTE ST 2084 (PQ)] settings become [1000].
 - When [ARRI LUT 2020 PQ 2K] is selected, [HDR Range] ➤ [SMPTE ST 2084 (PQ)] settings become [2000].
- ¹⁰
- It is not possible to set the function after selecting Picture Mode when the right screen is selected. The right screen's setting will be the same as set for the left screen.
 - When [Backlight Control] settings are changed while [Boost Contrast] is [On], the settings for [Backlight Control] when [Boost Contrast] is [Off] are also changed.
- ¹¹
- SD-SDI signal is fixed to [Non-constant Luminance].
 - In the following case, if [Picture Mode] has been set differently for the left and right screens, [2020 Constant Luminance] is fixed at [Non-Constant Luminance]. However, if [Color Gamut] for the left and right screens is [ITU-R BT.2020], then the right screen's setting will be the same as set for the left screen.
 - When displaying a single terminal's input in full-screen
 - When displaying "2 Sample Interleave" or "Dual Link 3G-SDI" signals
- ¹²
- Cannot be set when [Picture Mode] is selected in the right screen.
 - Cannot be set when [Picture Mode] is the same in both left and right screens.
 - When the [Contrast] setting for the left screen is specified as [1000] or less, the luminance of the left and right screens is the same.
- ¹³
- Calibration cannot be executed when using DC power.
 - When [Luminance] is set to high brightness, it may be calibrated beyond the brightness adjustment range and set lower than the target value, depending on the [Color Temperature] setting. In that case, set the [Luminance] again.
 - Calibration cannot be executed in [Picture Mode] for the right screen.
- ¹⁴ In [Picture Mode] other than [User 1-7], the results of calibration performed at the factory are copied.

■ Details of the factory default settings for each [Picture Mode]

Item		SMPTE-C	EBU	ITU-R BT.709	ITU-R BT.2020	Adobe RGB	DCI-P3
Contrast		1000	1000	1000	1000	1000	480
Brightness		0	0	0	0	0	0
Chroma		1000	1000	1000	1000	1000	1000
Sharpness		0	0	0	0	0	0
Backlight Control		Local Dimming Low	Local Dimming Low	Local Dimming Low	Local Dimming Low	Local Dimming Low	Local Dimming Low
Color Temperature	Preset	D65	D65	D65	D65	D65	DCI-P3
	x	0.313	0.313	0.313	0.313	0.313	0.314
	y	0.329	0.329	0.329	0.329	0.329	0.351
	Gain R/G/B	1023	1023	1023	1023	1023	1023
	Bias R/G/B	0	0	0	0	0	0
Gamma		2.2	2.35	2.2	2.2	2.2	2.6
Color Gamut		SMPTE-C	EBU	ITU-R BT.709	ITU-R BT.2020	Adobe RGB	DCI-P3
Color Range		Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
Input Transform		–	–	–	–	–	–
Output Transform		–	–	–	–	–	–
Output Transform Surround		–	–	–	–	–	–
CDL Preset		CDL 1	CDL 2	CDL 3	CDL 4	CDL 5	CDL 6
User LUT		User LUT 1	User LUT 1	User LUT 1	User LUT 1	User LUT 1	User LUT 1
Boost Contrast		Off	Off	Off	Off	Off	Off
YCbCr Color Matrix		Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
2020 Constant Luminance		Non-constant Luminance	Non-constant Luminance	Non-constant Luminance	Non-constant Luminance	Non-constant Luminance	Non-constant Luminance
2020 Gamut Mapping		Gamut Mapping	Gamut Mapping	Gamut Mapping	Gamut Mapping	Gamut Mapping	Gamut Mapping
Hybrid Log-Gamma System		γ 1.2 - 1000 cd/m ²	γ 1.2 - 1000 cd/m ²	γ 1.2 - 1000 cd/m ²	γ 1.2 - 1000 cd/m ²	γ 1.2 - 1000 cd/m ²	γ 1.2 - 1000 cd/m ²
HDR/SDR View		Off	Off	Off	Off	Off	Off
Picture Mode Name		–	–	–	–	–	–

Item		User 1	User 2	User 3	User 4 to User 7	CINEMA EOS SYSTEM	ACESproxy (Ver. 1.0.1)
Contrast		6000	6000	6000	1000	6000	480
Brightness		0	0	0	0	0	0
Chroma		1000	1000	1000	1000	1000	1000
Sharpness		0	0	0	0	0	0
Backlight Control		Local Dimming High	Local Dimming High	Local Dimming High	Local Dimming Low	Local Dimming High	Local Dimming Low
Color Temperature	Preset	D65	D65	DCI-P3	D65	D65	D60
	x	0.313	0.313	0.314	0.313	0.313	0.322
	y	0.329	0.329	0.351	0.329	0.329	0.338
	Gain R/G/B	1023	1023	1023	1023	1023	1023
	Bias R/G/B	0	0	0	0	0	0
Gamma		SMPTE ST 2084 (PQ)	Hybrid Log-Gamma	SMPTE ST 2084 (PQ)	2.2	Canon Log 2 (HDR)	–
Color Gamut		ITU-R BT.2020	ITU-R BT.2020	DCI-P3	ITU-R BT.709	ITU-R BT.2020	–
Color Range		Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
Input Transform		–	–	–	–	–	Automatic
Output Transform		–	–	–	–	–	DCI-P3
Output Transform Surround		–	–	–	–	–	Dark Surround
CDL Preset		CDL 7	CDL 8	CDL 9	CDL 10 to 13	CDL 14	CDL 15
User LUT		User LUT 1	User LUT 1	User LUT 1	User LUT 1	User LUT 1	User LUT 1
Boost Contrast		Off	Off	Off	Off	Off	Off
YCbCr Color Matrix		Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
2020 Constant Luminance		Non-constant Luminance	Non-constant Luminance	Non-constant Luminance	Non-constant Luminance	Non-constant Luminance	Non-constant Luminance
2020 Gamut Mapping		Gamut Mapping	Gamut Mapping	Gamut Mapping	Gamut Mapping	Gamut Mapping	Gamut Mapping
Hybrid Log-Gamma System		$\gamma_{1.2}$ - 1000 cd/m ²	$\gamma_{1.2}$ - 1000 cd/m ²	$\gamma_{1.2}$ - 1000 cd/m ²	$\gamma_{1.2}$ - 1000 cd/m ²	$\gamma_{1.2}$ - 1000 cd/m ²	$\gamma_{1.2}$ - 1000 cd/m ²
HDR/SDR View		On	On	On	Off	Off	Off
Picture Mode Name		User 1 (2020 PQ)	User 2 (2020 HLG)	User 3 (DCI PQ)	–	–	–

Channel Settings

This menu is used for input related settings. Select the [Select Channel] and choose a channel number from CH1 to CH20. Finally define the parameter of each of the [Channel Settings].

❖ "Supported Signal Format" (📖 86)

Sub Menu	Setting Options	
Select Channel ¹	CH1 to CH20	Display the channel number. In addition, you can assign each content of [Channel Settings] to each channel (📖 31).
Input Configuration	12-3G/HD-SDI 3G-SDI RAW SD-SDI HDMI — (Not set)	Select the input. Factory default depend on the channel (📖 31).
Select Input Signal ²	Automatic Quad Input Dual Input A,B Dual Input C,D Single Input A Single Input B Single Input C Single Input D	Sets the signal display method (📖 16). [Automatic]: The display method is automatically determined to match the input signal. [Quad Input]: Four input signals (Input A to Input D terminals) are displayed. [Dual Input A,B]: Two input signals (Input A terminal and Input B terminal) are displayed. [Dual Input C,D]: Two input signals (Input C terminal and Input D terminal) are displayed. [Single Input A], [Single Input B], [Single Input C], [Single Input D]: One input signal (any of Input A to Input D) is displayed.

Sub Menu	Setting Options	
Image Division	<p>Sets the display method when using either [Quad Input] or [Dual Input]. Two division methods "Square Division" and "2 Sample Interleave" are supported for 4K video signals.</p> <p>When [Input Configuration] ► [12-3G/HD-SDI], and [Select Input Signal] ► [Quad Input]</p> <p>Automatic Square Division 2 Sample Interleave Multi View (Quad)³</p> <p>When [Input Configuration] ► [12-3G/HD-SDI], and [Select Input Signal] ► [Dual Input A,B] or [Dual Input C,D]</p> <p>Automatic Square Division 2 Sample Interleave Dual Link 3G-SDI Multi View (Dual)³</p>	<p>[Automatic]: Automatically determined based on payload and displayed. [Square Division]: Displays a signal transmitted over four inputs as a single image. [2 Sample Interleave]: Displays a signal transmitted divided into a 2K/HD signal as a single image. [Multi View (Quad)]: Each of the images from the four inputs (each input up to a 2048x1080 signal) are shown in four screens.</p> <p>[Automatic]: Automatically determined based on payload and displayed. [Square Division]: Displays a signal transmitted over four inputs as a single image. [2 Sample Interleave]: Displays a signal transmitted divided into a 2K/HD signal as a single image. [Dual Link 3G-SDI]: Displays a Dual Link 3G-SDI signal as a single image. [Multi View (Dual)]: Each of the images (Inputs A/B or Inputs C/D) from the two inputs (each input up to a 2048x1080 signal) are shown in two screens.</p> <div data-bbox="719 1048 1393 1216" style="text-align: center;"> <p>The diagram illustrates the 'Square Division' setting. On the left, four separate video frames are shown in a 2x2 grid, each displaying a different portion of a building scene. An arrow points to the right, where a single, larger video frame is shown, which is a composite of the four individual frames, resulting in a single, complete image of the building scene.</p> </div> <p>Select Input Signal: Quad Input, Image Division: Square Division</p>
Format ⁴	<p>SDI Signal Automatic 4:2:2 YCbCr 10-bit 4:2:2 YCbCr 12-bit 4:4:4 YCbCr 10-bit 4:4:4 YCbCr 12-bit 4:2:2 ICtCp 10-bit 4:2:2 ICtCp 12-bit 4:4:4 ICtCp 10-bit 4:4:4 ICtCp 12-bit 4:4:4 RGB 10-bit 4:4:4 RGB 12-bit 4:4:4 XYZ 10-bit 4:4:4 XYZ 12-bit</p> <p>HDMI Signal Automatic 4:4:4 XYZ 12/10-bit</p>	<p>Sets the color format and gradation.</p> <p>[Automatic]: Sets automatically to match the input signal.</p>

Sub Menu	Setting Options	
Audio Input ⁵	[Select Input Signal] ▶ When [Quad Input] Automatic, Input A, Input B, Input C, Input D When [Dual Input A,B] Automatic, Input A, Input B When [Dual Input C,D] Automatic, Input C, Input D	Sets the audio terminal. [Automatic]: Sets automatically to match the input signal.
Marker/TC/WFM/VEC Input ⁶	[Select Input Signal] ▶ When [Automatic] or [Quad Input] Input A, Input B, Input C, Input D When [Dual Input A,B] Input A, Input B When [Dual Input C,D] Input C, Input D	In the [Multi View (Quad)] or [Multi View (Dual)] display, sets the target terminal so that various markers (except Grid Marker), Time Code, Wave Form Monitor, Vector Scope and Camera Information are displayed. (Camera Information is available in the [Multi View (Quad)] display only)
Internal Sync	On, Off	When [Image Division] ▶ [Square Division] Sets whether to synchronize four inputs. [On]: Force synchronization. [Off]: Do not force synchronization.
Channel Name		Sets the name of the selected channel. You can input up to 16 alphanumeric characters.
Picture Mode	SMPTE-C EBU ITU-R BT.709 ITU-R BT.2020 Adobe RGB DCI-P3 User 1 (2020 PQ) User 2 (2020 HLG) User 3 (DCI PQ) User 4 to User 7 CINEMA EOS SYSTEM ACESproxy (Ver. 1.0.1)	Sets the [Picture Mode].

Sub Menu	Setting Options	
Picture Mode R ⁷	SMPTE-C EBU ITU-R BT.709 ITU-R BT.2020 Adobe RGB DCI-P3 User 1 (2020 PQ) User 2 (2020 HLG) User 3 (DCI PQ) User 4 to User 7 CINEMA EOS SYSTEM — (Not set)	Sets the [Picture Mode] for the right screen. [— (Not set)]: Uses the image quality set in [Picture Mode] for the entire screen, and the left and right sides of the screen do not have separate image qualities.
Single Input Dual View ⁸	Automatic, Off	When other than [Image Division] ► [Multi View (Quad)] or [Multi View (Dual)] The image from the input signal can be reduced and shown in dual-screen. [Automatic]: When a different [Picture Mode] is set for the left and right screens, or when the [Function Settings] Sub Menu items are set to [On], identical images are automatically shown and dual-screen comparison can be made. 4K images are shown in reduced size. Relevant [Function Settings] Sub Menu items: [Peaking], [False Color], [Various Function] ► [Monochrome], [Red Off], [Green Off], [Blue Off], and [2020 Out of 709 Gamut View]
Separator	White Black Off	In the following cases, screen borders will be displayed. <ul style="list-style-type: none"> - When [Picture Mode] is set differently for the left and right screens - When [Multi View (Quad)] or [Multi View (Dual)] is selected - When [Single Input Dual View] is set to [Automatic] and the images are shown next to each other for image comparison

¹ It may take 10 seconds when switching channels.

² Settings that can be set differ according to the input signal.

- [SD-SDI]: Only [Single Input A] to [Single Input D] can be selected.
- [HDMI]: This is fixed to [Automatic].

³ For 2048×1080 images, the images are displayed in reduced size when [Screen Scaling] is set to [Automatic]. The left and right parts of the screen will be trimmed for display when anything other than [Automatic] is selected.

- ⁴
- HD-SDI signal is [4:2:2 YCbCr 10-bit] regardless of the setting
 - [SD-SDI] is fixed to [4:2:2 YCbCr 10-bit].
 - For [3G-SDI RAW], the setting is fixed to [Automatic].
 - If [Automatic] is selected, they are rendered in a Payload that is selected in the order A → B → C → D.
 - The settings for correctly displaying ICtCp format signals are as follows.
 - [Picture Mode]: [ITU-R BT.709] or [ITU-R BT.2020]
 - [Color Gamut]: [ITU-R BT.709] or [ITU-R BT.2020]
 - [Gamma]: [SMPTE ST 2084 (PQ)], [Hybrid Log-Gamma] or [Hybrid Log-Gamma RGB]
 - If you need to use the ICtCp format for SDI signals, select any of the following to match the signal: [4:2:2 ICtCp 10-bit], [4:2:2 ICtCp 12-bit], [4:4:4 ICtCp 10-bit], [4:4:4 ICtCp 12-bit]
 - To use 4:4:4 XYZ 10-bit for SDI signals, select [4:4:4 XYZ 10-bit]. Then, signals will be processed as signals where XYZ data is included in RGB data output in 4:4:4 RGB 10-bit format.

⁵ For [Select Input Signal] ► [Automatic] or [Single Input], it is fixed at [Automatic].

⁶ This setting becomes invalid except for the [Multi View (Quad)] or [Multi View (Dual)] display.

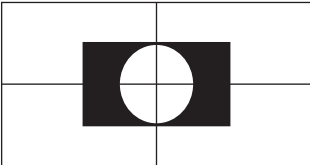
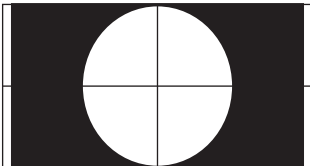
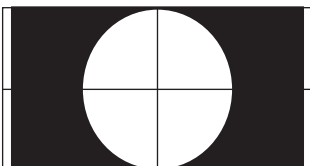
⁷ Cannot be set when [Picture Mode] is [ACESproxy (Ver. 1.0.1)] in the left screen.




⁸ Cannot be used when an unsupported video signal is input.

Display Settings



This menu is used to configure the display method.

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Sub Menu	Setting Options (Bold: factory default)	
Screen Scaling ¹	Native Input Resolution 200% Automatic	Defines how the video is scaled and displayed on the screen. [Native Input Resolution]: Displays the input signal without scaling.  1920x1080 (original) [200%]: Doubles the vertical and horizontal dimensions.  1920x1080→3840x2160 [Automatic]: Enlarges to full screen.  1920x1080→3840x2160
Anamorphic ²	x2.0 x1.5 x1.33 Off	Set when checking images photographed using an anamorphic lens. Displayed in accordance with the set magnification.

Sub Menu	Setting Options (Bold: factory default)	
Scaling Method	Shape Trace Bicubic Nearest Neighbor	<p>Sets the interpolation method when [Screen Scaling] is set to [200%] or [Automatic].</p> <p>[Shape Trace]: Canon original processing that produces smooth slopes with reduced jagged lines.</p>  <p>[Bicubic]: General interpolation process that uses neighboring pixel information to create interpolated pixels.</p>  <p>[Nearest Neighbor]: Process that uses nearest neighbor pixel information to create (copy) new pixels. This is useful as it enlarges the original pixels, thus making any jagged lines visible.</p> 
Zoom ³	Enlarges part of the video image. The zoom function can be used when the resolution is [4096x2160], [3840x2160], [2048x1080] or [1920x1080].	
Zoom Preset	Zoom 1 Zoom 2 Zoom 3 Off	Sets the zoom display method. There are three presets.
Magnification	x2 x4 x8	Sets the display scale of zoom.
Position		The zoom adjustment screen is displayed. Use the jog dial to adjust the display position.
Frame Hold ⁴	On, Off	Pauses the video.
Background Color ⁵	White Gray Off	Sets the color of the black band to check the boundary of the black band and video image.

Sub Menu	Setting Options (Bold: factory default)	
I/PsF	Automatic Interlace PsF	Defines how the interlace signal or PsF signal is displayed. [Automatic]: Automatically determined based on payload and displayed. If there is no payload, the signal is displayed as an interlace signal. [Interlace]: Displayed as an interlace signal. [PsF]: Displayed as a PsF signal.
PsF	Progressive Interlace	Defines how the PsF signal is displayed. [Progressive]: Interpolates giving preference to image quality by detecting paired fields. [Interlace]: Interpolates using two adjacent fields giving priority to speed.
I/P Conversion	Image Priority Speed Priority	Sets the interlaced signal I/P conversion method. [Image Priority]: This mode gives priority to image quality. Processing time will be longer than [Speed Priority]. [Speed Priority]: This mode gives priority to speed.
Film Cadence ⁶	2-2 2-3 2-3-3-2 Off	Sets the film cadence mode. [2-2]: Displays progressive image after conversion for 2-2 pulldown processed interlaced signal input. [2-3]: Displays progressive image after conversion for 2-3 pulldown processed interlaced signal input. [2-3-3-2]: Displays progressive image after conversion for 2-3-3-2 pulldown processed interlaced signal input. [Off]: Does not perform film cadence mode progressive conversion.

- ¹
- In the following cases, the maximum magnification is 200% even if [Automatic] is selected.
 - When [Peaking] or [False Color] is [On]
 - In the following cases, images are shown in reduced size when [Automatic] is selected.
 - [4096x2160]: When [Image Division]  [Square Division] is selected
 - [2048x1080]: When [Image Division]  [Multi View (Quad)] or [Multi View (Dual)] is selected

² Settings are invalid in the following cases:

- When [Peaking] or [False Color] is set to [On]
- When an image is zoomed in

- ³
- The zoom function cannot be used in the following cases:
 - During execution of [Playback File] under [Screen Capture]
 - During display of the test pattern
 - When [Multi View (Quad)] or [Multi View (Dual)] is selected
 - When [Picture Mode] is set differently for the left and right screens and [2020 Constant Luminance] for one of the screens is set to [Constant Luminance]
 - While the zoom function is in use, the following are not displayed:
Background Color, Various markers, Wave Form Monitor, Vector Scope
 - When zoom settings are changed, [Frame Hold] turns [Off].
 - When the resolution is [2048x1080] or [1920x1080], the display position cannot be changed even if [Magnification] is set to [x2].
 - When [Picture Mode] is set differently for the left and right screens, the left screen's [Picture Mode] setting is used.

-
- ⁴ • Setting is disabled when [Peaking] is set to [On].
 - If the image quality setting is changed while the video is paused, the setting may not change correctly.
 - ⁵ • Setting is disabled when [Multi View (Quad)] or [Multi View (Dual)] is selected.
 - ⁶ • This can be set only when [I/P Conversion] is set to [Image Priority].
 - Cannot be set in the [Multi View (Quad)] or [Multi View (Dual)] display. The setting is fixed to [Off].

Audio Settings





This menu is used to set audio output from the headphone terminal.


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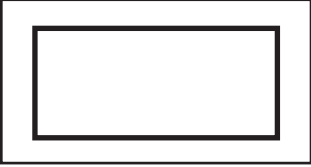



Sub Menu	Setting Options (Bold: factory default)	
SDI Group	CH1-CH8 CH9-CH16	Switches the audio group to be input during SDI audio input.
CH L (SDI)	[SDI Group] ▶ When [CH1-CH8] CH1 to CH8 (CH1) When [CH9-CH16] CH9 to CH16 (CH9)	Sets the audio to be output from the two channels (L/R) of the headphone respectively. The options differ according to the [SDI Group] setting.
CH R (SDI)	[SDI Group] ▶ When [CH1-CH8] CH1 to CH8 (CH2) When [CH9-CH16] CH9 to CH16 (CH10)	
CH L (HDMI)	CH1 to CH8 (CH1)	Sets the audio to be output from the two channels (L/R) of the headphone respectively.
CH R (HDMI)	CH1 to CH8 (CH1)	
Volume	0 to 100 (30)	Sets the volume. (Increments of 1)
Audio Switch	L R L R MIX (L+R)	Sets the stereo output.


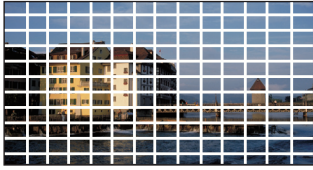
Marker Settings

This menu is used to configure various markers.

Sub Menu	Setting Options (Bold: factory default)	
Marker Preset	Marker 1 to 5 Off	Customizes markers which are assigned to markers 1 to 5.
Aspect Marker ¹	<p>[Aspect Marker] displays a range in accordance with the specified aspect ratio.</p> 	
Enable	On, Off	Switches the aspect marker On, Off.
Mask	Black Half Off	<p>Switches the mask color. Mask is the blanking area outside the range of the marker.</p> <p>[Black]:</p>  <p>[Half] (50% gray):</p>  <p>[Off]: Turns mask off.</p>
Aspect Ratio	16:9 , 15:9, 14:9, 13:9, 4:3, 2.39:1, 2.35:1, 1.896:1, 1.85:1, 1.66:1, Variable <ul style="list-style-type: none"> When Variable is selected 1.00:1 to 3.00:1 (1.78:1) 	<p>Sets the aspect ratio of the aspect marker.</p> <p>The aspect ratio can be entered as a numeric value when you select [Variable] (0.01:1 increments). The grayed out slider becomes active and can be used to set the aspect ratio.</p>
Line	On , Off	When [Mask]  [Black] or [Half] Switches lines on mask On, Off.
Line Width	Thick Normal Thin	Sets the thickness of the aspect marker line.

Sub Menu	Setting Options (Bold: factory default)	
Line Color	White , Red, Green, Blue, Yellow, Cyan, Magenta	Sets the color of the aspect marker line.
Line Brightness	High Low	Sets the brightness of the aspect marker line.
H Position	-65 to 65 (0)	Changes horizontal position without changing the aspect.
V Position	-35 to 35 (0)	Changes vertical position without changing the aspect.
Safety Zone Marker 1, 2 ¹	<p>There are two types of [Safety Zone Marker]: 1 and 2, which share the same settings. A safety zone marker is used to set the safe zone of the image (actual displayed area) to check the image.</p> 	
Enable	On, Off	Switches the safety zone marker On, Off.
Aspect Ratio ²	16:9 , 15:9, 14:9, 13:9, 4:3, 2.39:1, 2.35:1, 1.896:1, 1.85:1, 1.66:1, Variable <ul style="list-style-type: none"> When Variable is selected 1.00:1 to 3.00:1 (1.78:1) 	<p>Sets the aspect ratio of the safety zone marker.</p> <p>[Variable]: The aspect ratio can be entered as a numeric value (0.01:1 increments). The grayed out slider becomes active and can be used to set the aspect ratio.</p>
Area Size	80% , 88%, 90%, 93%, Variable (%), Variable (dot)	<p>Sets the safety zone marker area size.</p> <p>[Variable (%)] : The grayed out [Rate (%)] becomes active. [Variable (dot)] : The grayed out [Width (dot)] and [Height (dot)] become active.</p>
Rate (%)	50 to 100 (80)	<p>When [Area Size] ➤ [Variable (%)]</p> <p>Move the slider to set the displayed marker area size without changing the aspect ratio in 1 % increments.</p>
Width (dot)	360 to 4096 (3276)	<p>When [Area Size] ➤ [Variable (dot)]</p> <p>Move the slider to set the area width in 2 dot increment.</p>
Height (dot)	240 to 2160 (1728)	<p>When [Area Size] ➤ [Variable (dot)]</p> <p>Move the slider to set the area height in 2 dot increment.</p>

Sub Menu	Setting Options (Bold: factory default)	
Shape	Box Brackets Enclosure	Sets the area shape of the safety zone marker. [Box]:  [Brackets]:  [Enclosure]: 
Line Width	Thick Normal Thin	Sets the width of the safety zone marker line.
Line Color	White , Red, Green, Blue, Yellow, Cyan, Magenta	Sets the color of the safety zone marker line.
Line Brightness	High Low	Sets the brightness of the safety zone marker line.
H Position	-65 to 65 (0)	Adjusts the marker horizontal position with the set aspect and size.
V Position	-35 to 35 (0)	Adjusts the marker vertical position with the set aspect and size.
Area Marker ¹	[Area Marker] is used to check a specific area using a rectangular box. 	
Enable	On, Off	Switches the area marker On, Off.
H Position	0 to 4086 (240)	Sets the start position (x-coordinate) to draw the rectangle. (in increments of 2)
V Position	0 to 2150 (120)	Sets the start position (y-coordinate) to draw the rectangle. (in increments of 2)
Width (dot)	10 to 4096 (240)	Sets the width of the rectangle. (in increments of 2)

Sub Menu	Setting Options (Bold: factory default)	
Height (dot)	10 to 2160 (120)	Sets the height of the rectangle. (in increments of 2)
Mask	Black Half Off	Switches the mask color (in the marker).
Line	On , Off	When [Mask] ► [Black] or [Half] Turns On/Off the outlines of the rectangular box.
Line Width	Thick Normal Thin	Sets the width of the area marker line.
Line Color	White , Red, Green, Blue, Yellow, Cyan, Magenta	Sets the color of the area marker line.
Line Brightness	High Low	Sets the brightness of the area marker line.
Center Marker ³	[Center Marker] shows the center of the image. 	
Enable	On, Off	Switches the center marker On, Off.
Size	Large Small	Sets the size of the center marker.
Line Width	Thick Normal Thin	Sets the width of the center marker line.
Line Color	White , Red, Green, Blue, Yellow, Cyan, Magenta	Sets the color of the center marker line.
Line Brightness	High Low	Sets the brightness of the center marker line.
Grid Marker ³	[Grid Marker] is marker used to check the horizontal and vertical position. 	
Enable	On, Off	Switches the grid marker On, Off.
Distance	160 dots 240 dots 320 dots	Sets the horizontal and vertical line distance.

Sub Menu	Setting Options (Bold: factory default)	
Line Width	Thick Normal Thin	Sets the width of the grid marker line.
Line Color	White , Red, Green, Blue, Yellow, Cyan, Magenta	Sets the color of the grid marker line.
Line Brightness	High Low	Sets the brightness of the grid marker line.

¹ The marker is not displayed in the following cases:

- When there is no signal, unsupported signal, or a channel with [Input Configuration] not set is selected
- When an enlarged image is displayed
- During the execution of [Playback File] under [Screen Capture]
- When a [Test Pattern] is displayed

² When [Area Size] is set to [Variable (dot)], you cannot select [Aspect Ratio].


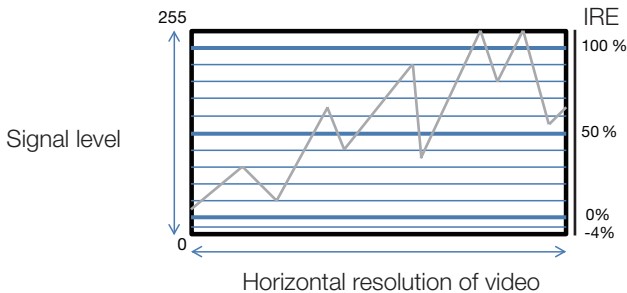
³ The marker is not displayed in the following cases:

- When an enlarged image is displayed


Function Settings










This menu is used to set functions to link with Cinema EOS cameras and video assistance functions.

Sub Menu	Setting Options (Bold: factory default)	
Peaking ¹	The outline is displayed in a color, used to check the focus. Customizes peakings which are assigned to Peaking 1 or Peaking 2.	
Enable	Peaking 1 Peaking 2 Off	Switches the peaking display mode and also sets peaking to Off. Configures detailed settings for [Peaking 1] or [Peaking 2].
Monochrome	When [Peaking 1] On , Off When [Peaking 2] On, Off	Displays video in monochrome.
Frequency	When [Peaking 1] Low Middle High When [Peaking 2] Low Middle High	Sets the central frequency of contour enhancement signals.
Range	-3 ~ +3 (0)	Sets the width of the range to be colored.
Color	White, Red , Green, Blue, Yellow, Cyan, Magenta	Sets the color to be used.
False Color ²	Displays different colors for the video's brightness levels to make it easier to check the exposure and brightness distribution.	
Enable	False Color 1 False Color 2 Off	Switches between False Color display mode and non-display. Sets [False Color 1] or [False Color 2].
Type	Automatic IRE SMPTE ST 2084 (PQ) Hybrid Log-Gamma	Sets the tint color display method. [Automatic]: Sets in accordance with the [Gamma] settings.
HDR Range	When [False Color 1] On, Off When [False Color 2] On , Off	Other colors can be displayed only on those areas that exceed the value set in [HDR Range].

Sub Menu	Setting Options (Bold: factory default)	
Time Code ³	Display the time code superimposed on the signal. 	
Enable	On, Off	Switches the time code display On, Off.
Type ⁴	VITC LTC	Selects the type.
Size	Large Small	Selects the size.
Position ⁵	Top Left Top Right Bottom Left Bottom Right	Selects the display position.
Wave Form Monitor ⁶	Configures various settings for the wave form monitor. On the wave form monitor, the horizontal axis shows the horizontal resolution of the video and the vertical line shows the signal level. To the right of the wave form monitor, [Color Range] and [HDR Range] information (vertical line) is displayed. 	
Enable	On, Off	Switches the wave form monitor On, Off.
Select Signal	Y , Cb, Cr, R, G, B	Sets the waveform to be displayed.
Display Type	All Line	Sets the display type. [Line]: The data for one line is displayed.
Select Line	1 to 2160	Selects the line to be displayed when [Line] is selected.
Position ⁵	Bottom Left Bottom Right	Selects the display position.
Scale	Automatic IRE Canon Log Canon Log 2 Canon Log 3 ST 2084 (PQ) Full ST 2084 (PQ) Limited Hybrid Log-Gamma	Sets the scale of the wave form monitor. [Automatic]: Sets in accordance with the [Gamma] and [Color Range] settings.
Reference Line	4 to 1023	A guide is displayed at the specified position. [Reference Line] is not displayed when [1023] is selected.

Sub Menu	Setting Options (Bold: factory default)		
Reference Level High	760 to 1023	Sets the reference display level (high). [Reference Level High] is not displayed when [1023] is selected.	
Reference Level Low	0 to 256	Sets the reference display level (low). [Reference Level Low] is not displayed when [0] is selected.	
Color	Sets the signals to be displayed and the color of signals exceeding the reference level.		
Y	White	[Y], [Cb], [Cr], [R], [G], [B]: Selects the color of the selected signal. Default value of each signal is shown below. Y (White), Cb (White), Cr (White), R (Red), G (Green), B (Blue) [Reference Level High], [Reference Level Low]: Selects the color of the signal of the selected reference level. Default value of each reference level is shown below. Reference Level High (Magenta), Reference Level Low (Cyan)	
Cb	Red		
Cr	Green		
R	Blue		
G	Yellow		
B	Cyan		
Reference Level High	Magenta		
Reference Level Low			
Vector Scope ⁷	Configures various settings for the vector scope. Vector scope displays the intensity of color signals and hue with the horizontal axis showing the color difference signal Cb and the vertical line showing Cr.		
Enable	On, Off	Switches the vector scope On, Off.	
Target	75% 100%	Sets the target.	
Position ⁵	Bottom Left Bottom Right	Selects the display position.	
Audio Level Meter ⁸	Configures various settings for the audio level meter. Displays the audio level of the selected channel number.		
Enable	On, Off	Switches the audio level meter On, Off.	
Channel Number (SDI)	2CH 4CH 6CH 8CH	Sets the number of channels displayed when SDI signal is input. Options change according to the setting for [SDI Group] under [Audio Settings]. When [SDI Group] ► [CH1-CH8] [2CH]: CH1 to CH2 [4CH]: CH1 to CH4 [6CH]: CH1 to CH6 [8CH]: CH1 to CH8 When [SDI Group] ► [CH9-CH16] [2CH]: CH9 to CH10 [4CH]: CH9 to CH12 [6CH]: CH9 to CH14 [8CH]: CH9 to CH16	

Sub Menu	Setting Options (Bold: factory default)	
Channel Number (HDMI)	2CH 4CH 6CH 8CH	Sets the number of channels displayed when HDMI signal is input. [2CH]: CH1 to CH2 [4CH]: CH1 to CH4 [6CH]: CH1 to CH6 [8CH]: CH1 to CH8
Peak Hold	On , Off	One second of audio signal at the peak is kept.
Reference Level	-40 to 0 (-20)	Sets the reference level.
Test Pattern ⁹	White (1023), White (940), Gray, Black (64), Black (0), Ramp, Color Bars, PLUGE, Off	Sets the test pattern built into the main unit.
Screen Capture	Captures the screen.	
Capture		Captures the screen. The data is saved under the name "YYYYMMDD_hhmmss.bmp" in the root folder of the USB memory.
Frame Hold	On, Off	Pauses the video.
Capture Source	All Video	Selects the sources to capture. [All]: Everything is captured including video assistance functions such as markers and wave form monitor as well as OSD menu. [Video]: Only video signals are captured.
Playback File ¹⁰	Select File Execute	Plays back captured images. [Select File]: Selects a file. [Execute]: Plays back the image.
Finish Playback File		Finishes playback.
Various Function ¹¹	Displays the function list to execute functions.	
Monochrome	On, Off	
Blue Only	On, Off	
Red Off	On, Off	
Green Off	On, Off	
Blue Off	On, Off	
2020 Out of 709 Gamut View	On, Off	When [Picture Mode] or [Color Gamut]  [ITU-R BT.2020] Displays video in monochrome and the areas where the color gamut exceeds [ITU-R BT.709] are shown as tinted.

Sub Menu	Setting Options (Bold: factory default)	
Banner	Automatic , On, Off	You can set how the banner is displayed in cases such as when the display is turned on or the channel is changed. The banner displays the channel name, signal information and status of the main unit. When all OSD are hidden, you can display the banner by pressing the jog dial. However, when this setting is [Automatic] or [On], the banner will disappear after approximately 6 seconds. [Automatic]: After the banner is displayed, it will disappear after approximately 4 seconds. [On]: Displays the banner. [Off]: Does not display the banner.
Function Button Guide	On , Off	[On]: When all OSD are hidden, you can display the list of functions assigned to an F button on the video display by pressing the jog dial. [Off]: Function Button Guide is not displayed.
OSD Position	Mode 1 (4096x2160) Mode 2 (3840x2160)	[Mode 1 (4096x2160)]: OSD is displayed in a 4096x2160 area. [Mode 2 (3840x2160)]: OSD is displayed in a 3840x2160 area.
OSD Size	Large Small	The size of the OSD menu can be selected from [Large] and [Small].
Reduce Backlight Flash	On , Off	When [Adjustment]  [Backlight Control] is set to an option other than [Off], the screen may exhibit a flash in cases such as switching between scenes with a large difference in luminance. You can use [Reduce Backlight Flash] to reduce this phenomenon.
Camera Link 	Sets the functions to link with Cinema EOS cameras and ARRI cinema cameras.	
Automatic Adjustment (CINEMA EOS)	When [Picture Mode]  [CINEMA EOS SYSTEM], [Input Configuration]  [12-3G/HD-SDI] or [3G-SDI RAW] Sets whether or not to link to the camera's image quality setting.	
	On , Off	Refer to the Setting Values Correspondence Table when [Color Gamut/Gamma], [Color Temperature], and [Color Range] are all set to [On]. ( 73)
Color Gamut/Gamma	On , Off	The image quality of the display corresponds to the camera's settings.
Color Temperature	On , Off	
Color Range	On , Off	
Display Color Gamut	ITU-R BT.709 ITU-R BT.2020 DCI-P3	Sets the color gamut shown on the display when the camera's [Color Space] is set to [Cinema Gamut] or [DCI-P3+].
Automatic Adjustment (ARRI)	When [Picture Mode]  [User 6] to [User 7], [Input Configuration]  [12-3G/HD-SDI] Sets whether or not to link to the camera's image quality setting.	
	On , Off	When [CDL/User LUT]  [User LUT] Refer to the Setting Values Correspondence Table when [ARRI LUT] is selected. ( 74)
User LUT/Color Gamut/Gamma	On , Off	The image quality of the display corresponds to the camera's settings.
Color Range	On , Off	The image quality of the display corresponds to the camera's settings.

Sub Menu	Setting Options (Bold: factory default)	
Display Color Gamut/ Gamma	ITU-R BT.709 ITU-R BT.2020 ITU-R BT.2020 PQ 1K ITU-R BT.2020 PQ 2K	When [Automatic Adjustment (ARRI)] [On] Sets the color gamut and gamma shown in the display.
Anamorphic	On , Off	When a Canon camera is connected, displays in accordance with the settings when anamorphic lens display settings are included in the camera metadata.
Area Marker ¹²	ARRI Frame line 1A ARRI Frame line 1B Off	When an ARRI cinema camera is connected to this device, the [H Position], [V Position], [Width], and [Height] for the [Area Marker] change depending on the metadata.
Fan ¹³	On , Off	Allows you to link stopping the fan to the camera's recording operation (For Cinema EOS System cameras, Canon professional-use video cameras, or ARRI cinema cameras that are compatible with this video display). Set [System Settings] [Fan Control] to [On] to enable the fan to be stopped and then set [Fan] to [On] to stop the fan whenever the camera starts recording. At room temperature (25 °C), the fan remains off for approximately one minute (Max of about 6 minutes when using DC power). The fan operates at a faster speed than usual before and after the fan is stopped to lower the internal temperature.
Camera Information	Automatic On Off	Sets conditions to display camera information. [Automatic]: Camera information is displayed for 4 seconds when the information has changed. [On]: Camera information is always displayed. [Off]: Camera information is not displayed.

¹ • [Peaking] cannot be displayed during the execution of [Playback File] under [Screen Capture].

- [Enable] changes to [Off] when the power is turned on again.

² • [False Color] cannot be displayed during the execution of [Playback File] under [Screen Capture].

- [Enable] changes to [Off] when the power is turned on again.
- When [IRE] in [Type] is selected, [HDR Range] settings become invalid.

³ [Time Code] cannot be displayed in the following cases:

- When [Frame Hold] is [On]
- During the execution of [Playback File] under [Screen Capture]
- When the location selected for [Time Code] and [Audio Level Meter] to be displayed is the same
- When [Test Pattern] is displayed

⁴ This setting becomes invalid when HDMI signal is input and is fixed to [VITC].

⁵ This setting becomes invalid in the [Multi View (Dual)] display.

⁶ • [Wave Form Monitor] cannot be displayed in the following cases:

- When an enlarged image is displayed
- When [Frame Hold] (during interlace signal or PsF signal) is [On]
- When [Peaking] is set to [On]
- During execution of [Playback File] under [Screen Capture]
- While [Test Pattern] is displayed

- Only the signal set by [Marker/TC/WFM/VEC Input] is displayed in the [Multi View (Quad)] or [Multi View (Dual)] display.

- When [Wave Form Monitor] is set to [On], [Vector Scope] turns [Off].

- When [Scale] [Automatic] is selected: When a different [Picture Mode] is set for each side of the screen, the [Gamma] and [Color Range] scales for the left side will be displayed. When displayed as [Multi View (Quad)] or [Multi View (Dual)]: The scales for [Gamma] and [Color Range] for the terminal set in [Marker/TC/WFM/VEC Input] in [Channel Settings] will be displayed.

- ⁷
- [Vector Scope] can not be displayed in the following cases:
 - When an image is zoomed in.
 - When [Frame Hold] (for interlaced or PsF signals) is set to [On]
 - When [Peaking] is set to [On]
 - During the execution of [Playback File] under [Screen Capture]
 - When [Test Pattern] is displayed.
 - When displayed as [Multi View (Quad)] or [Multi View (Dual)], only the signal set in [Marker/TC/WFM/VEC Input] will be displayed.
 - When [Vector Scope] is set to [On], [Wave Form Monitor] is set to [Off].
- ⁸ [Audio Level Meter] cannot be displayed in the following cases:
- When [Frame Hold] is [On]
 - During the execution of [Playback File] under [Screen Capture]
 - When [Test Pattern] is displayed
- ⁹
- If the power is turned off once and then back on, the test pattern will not be displayed.
 - The test pattern will be erased in the following cases:
 - When calibration has been started
 - When the channel is changed using the CH button, F button assigned for Channel UP/Channel DOWN, or [Select Channel] under [Channel Settings]
 - When changing [Input Configuration] or [Select Input Signal] under [Channel Settings]
 - When [Reset All Settings] is executed
- ¹⁰ When playing back captured images on other DP-V2411 or PC, color may not be played back precisely.
- ¹¹
- When [CDL/User LUT] is set to [User LUT], [Blue Only] cannot be selected.
 - When power is resupplied, [Monochrome], [Blue Only], [Green Off], [Blue Off], and [2020 Out of 709 Gamut View] are set to [Off].
- ¹² This cannot be displayed when [Marker Preset] is [Off].
- ¹³
- If the temperature inside the main unit increases while the fan is off, the message [Fan will be rotated as the temperature is high.] is displayed and the fan starts rotating approximately ten seconds later. Since the temperature of the main unit has increased, the fan rotates faster than usual.
 - The video display's fan may start rotating earlier than the camera because the temperature inside the main unit has increased.
 - The fan may not stop in some conditions, for example when used at a high temperature.

■ Parameter of Cinema EOS cameras and DP-V2411

Cinema EOS cameras	DP-V2411		
Color Space	Color Gamut	Color Temperature	Color Range
BT.709	ITU-R BT.709	D65	Automatic
BT.2020	ITU-R BT.2020	D65	
DCI-P3	DCI-P3	DCI-P3	
DCI-P3+	DCI-P3+ to 709	D65	
	DCI-P3+ to DCI-P3	DCI-P3	
Cinema Gamut	Cinema Gamut to 709	D65	
	Cinema Gamut to 2020	D65	
	Cinema Gamut to DCI-P3	DCI-P3	
RAW Gamut	Cinema Gamut to 709	D65	
	Cinema Gamut to 2020	D65	
	Cinema Gamut to DCI-P3	DCI-P3	

Cinema EOS cameras	DP-V2411	
Gamma	Gamma	HDR Range
Canon Log	Canon Log (HDR)	—
Canon Log 2	Canon Log 2 (HDR)	
RAW Gamma		
Canon Log 3	Canon Log 3 (HDR)	
ST 2084, PQ	SMPTE ST 2084 (PQ)	1000
Normal (BT.709)	2.2	—
Wide DR		
EOS Std.		
DCI-P3		

■ Parameter of ARRI Cinema camera and DP-V2411



ARRI Cinema camera	DP-V2411					
Color Space	Display Color Gamut	CDL/ User LUT*	Color Gamut	Gamma	HDR Range	Color Range
REC 709	—	ARRI LUT 709	ITU-R BT.709	2.2	—	Automatic (Limited)
REC 2020	—	ARRI LUT 2020	ITU-R BT.2020	2.2	—	
Wide Gamut Log C	ITU-R BT.709	ARRI LUT 709	ITU-R BT.709	2.2	—	—
	ITU-R BT.2020	ARRI LUT 2020	ITU-R BT.2020	2.2	—	Automatic (Limited)
	ITU-R BT.2020 PQ 1K	ARRI LUT 2020 PQ 1K	ITU-R BT.2020	SMPTE ST 2084 (PQ)	1000	
	ITU-R BT.2020 PQ 2K	ARRI LUT 2020 PQ 2K	ITU-R BT.2020	SMPTE ST 2084 (PQ)	2000	

* Setting [CDL/User LUT Bypass] to [On] when [ARRI LUT] is selected will change [CDL/User LUT] to [Off].

System Settings

This menu is used to configure system settings related to the video display.

Sub Menu	Setting Options (Bold: factory default)	
Function/Channel Button	Sets the function or channel to assign to the F buttons or CH button.	
Display Function	Sets the function to assign to the F buttons of the main unit (29). Select an F button and assign a function from the following list (80).	
Display Function (CDL)		
Display Channel	Sets the channel to assign to the CH button on the display.	
CH1	CH1 to CH20 (CH1)	Select a CH button and register a channel number. A list of settings under the menu [Channel Settings] (52) is displayed.
CH2	CH1 to CH20 (CH2)	
CH3	CH1 to CH20 (CH3)	
Language	English 日本語 简体中文	Sets the language of the OSD menu and messages.
Date/Time		Sets the year/month/date/hour/minute.
Network/IMD/Remote(GPI) Settings		
Network ¹	Configures network settings of the video display.	
Configure an IP Address	Automatic Manual	[Automatic]: Configures an IP address automatically with DHCP/Auto IP. [Manual]: Configure an IP address and subnet mask manually.
Display		192.168.0.1
Subnet Mask		255.255.255.0
In Monitor Display	The video display supports Television Systems Ltd.'s "TSL UMD Protocol Ver. 5.0". You can operate the video display using an external device connected to the LAN terminal and display characters and tally lights on the screen. You can input any characters you like directly from this video display. You can specify the characters using up to 16 alpha-numerical characters and symbols. (33)	
Control	TSL Ver. 5.00 Manual Off	Sets whether or not to receive the control signal from the connected device. [Manual]: Select to input the characters on this video display. Does not receive a control signal from the connected device.
Position	Top Bottom	This sets whether the characters and tally lights will be displayed at the top or the bottom.
Manual Display Type	Automatic Single Dual A,B Dual C,D Quad A,B,C,D	[Automatic]: Changes display in accordance with the Input Configuration. [Single]: Single-screen display. [Dual A,B], [Dual C,D]: Dual-screen display. [Quad A,B,C,D]: Quadruple-screen display.

Sub Menu	Setting Options (Bold: factory default)	
Manual String (Single)		When [Control]  [Manual] Sets the characters to display for the selected [Manual String]. You can input up to 16 alphanumeric characters.
Manual String (Dual/Quad A)		
Manual String (Dual/Quad B)		
Manual String (Dual/Quad C)		
Manual String (Dual/Quad D)		
Remote(GPI) ²	You can operate the video display using an external controller such as a switcher that has been connected to the REMOTE terminal. Operates while the GND (No. 8 Pin) is connected to No.s 1 to 7, shorting them.	
Pin1	SMPTE-C	Assigns functions in each GPI pin. ( 32) ❖ About [Tally] A tally appears at the top of the screen. Combining [Tally Green] and [Tally Red] makes [Tally Amber].
	EBU	
Pin2	ITU-R BT.709	
	ITU-R BT.2020	
	Adobe RGB	
	DCI-P3	
Pin3	User 1 (2020 PQ)	
	User 2 (2020 HLG)	
	User 3 (DCI PQ)	
	User 4 to User 7	
Pin4	CINEMA EOS SYSTEM	
	ACESproxy (Ver. 1.0.1)	
	CH1 to CH5	
Pin5	Aspect Marker ³	
	Safety Zone Marker 1/2 ³	
	Area Marker ³	
	Center Marker ³	
Pin6	Grid Marker ³	
	Time Code	
	Wave Form Monitor	
Pin7	Vector Scope	
	Audio Level Meter	
	Tally Green	
	Tally Red	
	Power On ⁴	
	— (Not set)	

Sub Menu	Setting Options (Bold: factory default)	
Display Name	Sets the name of the main unit. You can input up to 16 alphanumeric characters.	
Power Indicator/Button LED Settings		
Power Indicator Brightness	Off 1 to 5 (3)	Adjusts the brightness of the power indicator on the main unit. The greater the number, the higher the brightness.
Display Button LED	On , Off	Sets the F buttons and the lamp on the face.
Button Name Lighting Time (sec.)	60 , 30, 10, 5	Sets the time (sec) until the lamp on the face goes out, if no operation is performed.
Fan Settings		
Sets the operation of internal fan.		
Fan Control	On, Off	Fan noise can be eliminated when the main unit is used during shooting or when silent operation is needed. Set this in advance to stop the fan either manually or by linking it with the camera during photography (71). When this is set to [On], the mode changes so that the fan can be stopped.
Fan Stop ⁵	On, Off	If [Fan Stop] is set to [On] and when [Fan Control] is set to [On], the fan can be stopped. At room temperature (25 °C), the fan remains off for approximately one minute (Max of about 6 minutes when using DC power). The fan operates at a faster speed than usual before and after the fan is stopped to lower the internal temperature.
Compatible Settings		
Sets the connection compatibility with HDMI equipment.		
HDMI	Normal Compatible 1 Compatible 2	[Normal]: All formats are supported. [Compatible 1]: Set this option when video is not played correctly in [Normal]. HDR signals of a luminance higher than that of the display main unit are not supported. [Compatible 2]: Set this option when video is not played correctly in [Normal] or [Compatible 1]. [4K50.00P/60.00P] and HDR signals are not supported.
Protect Settings		
Locks the settings so they cannot be changed. When you press the MENU button, [Signal/System Information] appears, but other operations are grayed out because they are locked.		
Password		Set a password to protect settings. Use a four-digit number (0000 to 9999). The initial password is blank.
Protect Target		You can remove Picture Mode and Select Channel from the items to be protected.
Picture Mode	On , Off	[On]: Protects the [Picture Mode] settings. [Off]: Removes the [Picture Mode] settings from protect target.
Select Channel	On , Off	[On]: Protects the [Select Channel] settings. [Off]: Removes the [Select Channel] settings from protect target.
Function Settings	On , Off	[On]: Protects the [Function Settings] settings. [Off]: Removes the [Function Settings] settings from protect target.
Protect		Select [OK] to protect. When a password has been set, enter the password and select [OK]. ❖ Unlocking Protect Settings Move the selection frame to [Protect] and press the Jog dial for approximately 3 seconds. When a password has been set, enter the password and select [OK].

Sub Menu	Setting Options (Bold: factory default)	
Firmware Update	This function is used to update the video display firmware. Refer to the Canon website for detailed information.	
Export/Import ⁶	Sets the export/import main menu settings.	
Export		
Target	USB User 1 to User 3	Select the export destination. [USB]: Export to a USB memory. [User 1] to [User 3]: Export to the built-in memory of the main unit.
Filename		Factory default is "dinfo_dpv2411.dat". You can change the name of the file to be exported to the USB memory within 16 one-byte characters including alphabetical characters, numbers, and symbols.
Execute		Performs export.
Import		
Target	USB User 1 to User 3	Specify the save destination for the file to be imported.
Filename		Displays files with the extension ".dat" so you can select from among them.
Settings	All Adjustment Channel Settings Display Settings Audio Settings Marker Settings Function Settings System Settings	Select the settings to import.
Execute		Performs import.
Power on Setting	Last memory User 1 to User 3	You can select the state of the display when the power is turned on. [Last memory]: The video display starts up with the settings last used. [User 1] to [User 3]: It starts up with the settings saved in [User 1] to [User 3] under [Export].
Reset All Settings	OK Cancel	Returns all settings to factory default. When selected, the message [Reset all settings to factory defaults?] appears. [OK]: Performs reset. [Cancel]: Returns to the previous screen without resetting.

¹ Cannot be set when [Power on Setting] is [User 1] to [User 3].

² This function will not work correctly in the following cases.

- If the same function is assigned to multiple pins.
- If the changes to the [Remote (GPI)] setting and the pin assignments were made when the pins were shorted.

³ The marker cannot be displayed when [Marker Preset] is set to [Off].

⁴ Can only be registered to [Pin7].

- ⁵
- If the message [Invalid operation due to high temperature.] is displayed, the fan cannot be stopped even when [On] is selected for this item. Wait until the internal temperature lowers.
 - If the temperature inside the main unit increases while the fan is off, the message [Fan will be rotated as the temperature is high.] is displayed and the fan starts rotating approximately ten seconds later. Since the temperature of the main unit has increased, the fan rotates faster than usual.
 - Select [Off] to restart the fan. The fan rotates faster than usual.
 - The fan may not stop in some conditions, for example when used at a high temperature.
- ⁶
- The following settings cannot be exported or imported.

Adjustment	Target values of Calibration (including calibration results)
Display Settings	Zoom Preset, Frame Hold
Function Settings	Peaking (Enable), False Color (Enable), Test Pattern, Various Function (Monochrome, Blue Only, Red Off, Green Off, Blue Off, 2020 Out of 709 Gamut View)
System Settings	Date/Time, Fan Stop, Export/Import, Power on Setting

- User LUT data cannot be exported or imported to [User 1] to [User 3] under [Target].
- Data exported from this product may not be imported to products of which firmware version is earlier than the version of this product. To import data, update the firmware to the latest version.

■ Function to allow registration for the display F buttons (📖75)

Item	Options
Adjustment	Picture Mode
	Contrast
	Brightness
	Chroma
	Chroma up
	Sharpness
	Backlight Control
	Gamma
	HDR
	HDR Range
	Boost Contrast
	HDR/SDR View
	Gain
	Bias
	xy
Picture Mode	SMPTE-C
	EBU
	ITU-R BT.709
	ITU-R BT.2020
	Adobe RGB
	DCI-P3
	User 1 (2020 PQ)
	User 2 (2020 HLG)
	User 3 (DCI PQ)
	User 4 to User 7
	CINEMA EOS SYSTEM
ACESproxy (Ver. 1.0.1)	
CDL/User LUT	CDL Preset
	User LUT
	CDL R
	CDL G
	CDL B
	CDL Slope
	CDL Offset
	CDL Power
	CDL Saturation
	CDL SOP/SAT
	CDL/User LUT Bypass
	CDL Export/Import

Item	Options
Channel Settings	Channel UP ¹
	Channel DOWN ¹
	Select Input Signal
	Audio Input
	CH1 to CH20
Display Settings	Screen Scaling
	Anamorphic
	Scaling Method
	Zoom Preset
	Zoom 1
	Zoom 2
	Zoom 3
Audio Settings	Frame Hold
	Background Color
	SDI Group
	CH L
	CH R
Marker Settings ²	Volume
	Audio Switch
	Marker Preset
	Marker 1
	Marker 2
	Marker 3
	Marker 4
	Marker 5
	Aspect Marker
	Safety Zoon Marker 1
	Safety Zoon Marker 2
Area Marker	
Center Marker	
Grid Marker	

Item	Options
Function Settings	Peaking
	Peaking 1
	Peaking 2
	False Color
	False Color 1
	False Color 2
	Time Code
	WFM/VEC
	Wave Form Monitor
	WFM Select Signal
	Vector Scope
	Audio Level Meter
	Capture
	Monochrome
	Blue Only
	Red Off
	Green Off
	Blue Off
	2020 Out of 709 Gamut View
	Camera Information
System Settings	Hide OSD ³
	Fan Stop

¹ When changing channels with [Channel UP/DOWN], the channels with [Input Configuration] (📺 52) set to [-] are skipped.

² When any marker settings are changed using an F button, those changes will be applied to [Enable] under the currently selected [Marker Preset].

³ [Hide OSD] is a function to hide all OSD. When [On] is selected, OSD, [Separator] and [Background Color] are hidden but the menu can be used.

Signal Information

Shows the signal information. When [Select Input Signal] is [Quad Input], information for the entire signal and each input is displayed. Select a signal with the jog dial according to the guide at top right corner of the menu. When signal information has been obtained although it is not displayed on the screen, the content of the information is grayed out.

SDI Signal		HDMI Signal	
Item	Display Example	Item	Display Example
Channel	CH1	Channel	CH4
Input Configuration	12-3G/HD-SDI (3G Level A)	Input Configuration	HDMI
Select Input Signal	Quad Input	Format	Automatic
Image Division	Automatic	Resolution	4096x2160
Format	Automatic	Picture Rate, I/P/PsF	60.00P
Resolution	4096x2160	Pixel Encoding, Color Depth	4:2:2 YCbCr 10-bit
Picture Rate, I/P/PsF*	24.00P	Matrix	ITU-R BT.709
SDI Payload ID	89 C3 46 01	Range	Full
Video Standard	3G-SDI	EOTF	SMPTE ST 2084 (PQ)
Sampling Structure	4:4:4:4 GBRA	Max Luminance (Peak/Avg.)	1000 / 500 cd/m ²
Bit Depth	10-bit	Display Luminance (Max/Min)	1000 - 0.005 cd/m ²
Picture Rate	24.00	White Point	x=0.313, y=0.329
Scanning Method	Progressive/Progressive (Transport/Picture)	Primary Color Red	x=0.640, y=0.330
Link Number	Single/Link_1	Primary Color Green	x=0.300, y=0.600
		Primary Color Blue	x=0.150, y=0.060

* When content is grayed out, an asterisk [*] may be displayed indicating low [Picture Rate] accuracy such as [24.00P *].

System Information

Shows the video display status and network information.

Item	Display Example
Display	DP-V2411
Serial No.	000000000000
Firmware Ver.	1.0
Usage Time*	5 h
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
MAC Address	FF:FF:FF:FF:FF:FF

* The [Usage Time] is not always [0] when you purchase the display due to factory inspection.

Main specifications/Performance

Panel		
Panel Type	IPS LCD panel	
Screen Size	24 inch (61.1 cm)	
Aspect Ratio	17:9	
Resolution	4096x2160 (8.8 megapixels)	
Active Display Area	Approximately 540.7 x 285.1 mm	
Pixel Pitch	132 μm/193 ppi	
Image quality		
Brightness*	Standard	100 cd/m ²
	Peak, Full screen white	600 cd/m ² (When "Boost On" is selected: 1000 cd/m ²)
View Angle (Up, Down, Left, Right)	89° (contrast ratio 10 : 1 or higher)	
Surface Treatment	Anti-glare coating	
General		
Backlight Type	LED, direct down type	
Power	Rated Voltage: 100 – 240 V AC Rated Frequency: 50/60 Hz 24 V DC Max. 10 A, XLR terminal	
Power consumption	At maximum load (including change in brightness through aging): Approximately 230 W At factory shipment: Approximately 130 W	
Environmental Conditions	Operating	Temperature and humidity: 0 – 40 °C (32 – 104 °F), 20 – 85 %RH (no condensation) Recommended range of temperature and humidity: 15 – 30 °C (59 – 86 °F) (20 to 80% RH, no condensation) Pressure: 700 – 1060 hPa
	Storage/Transporting	Temperature and humidity: -20 – 40 °C (-4 – 104 °F), 20 – 85 %RH (no condensation) 41 – 60 °C (105 – 140 °F), 20 – 30 %RH (no condensation) Pressure: 700 – 1060 hPa
Dimensions (width x height x depth)	Including stands and handle: Approx. 576x438x180 mm (22.7x17.2x7.1 in.) Main unit only, excluding protrusions: Approx. 576x387x105 mm (22.7x15.2x4.1 in.)	
Weight	Approximately 12 kg (26.4 lb)	
Mounting Hole Pitch	VESA standard 100 x 100 mm (3.9 x 3.9 in.)	

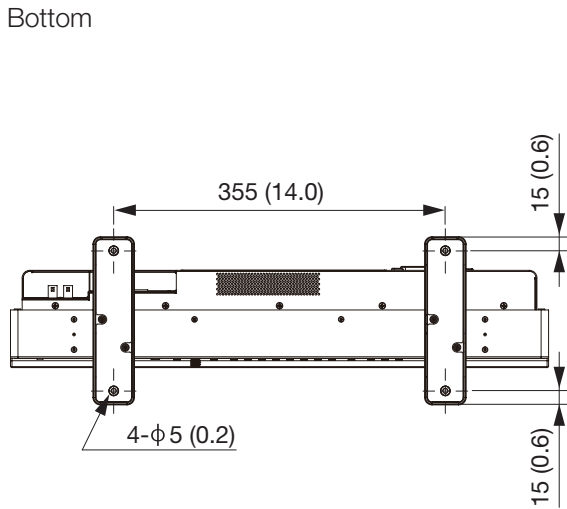
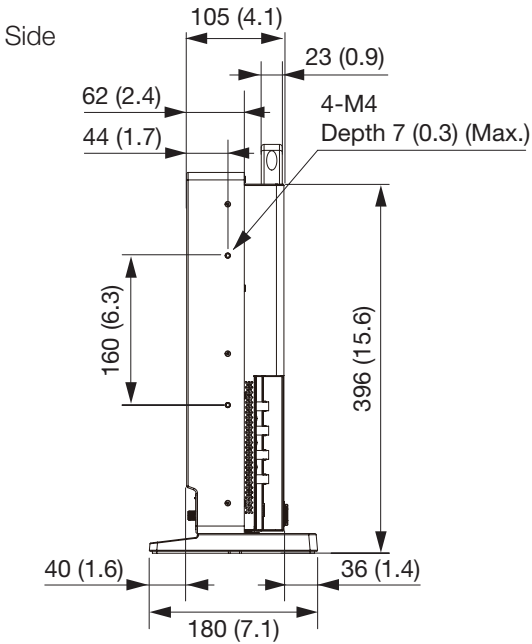
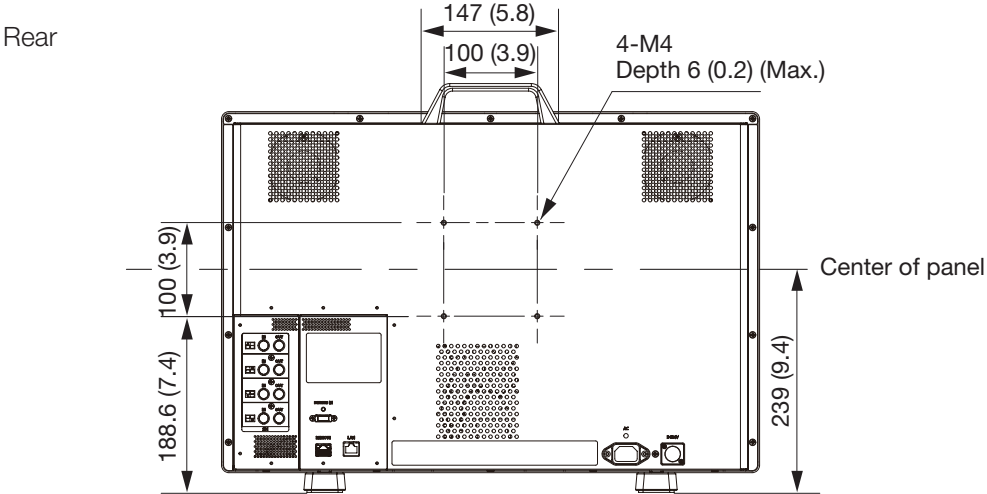
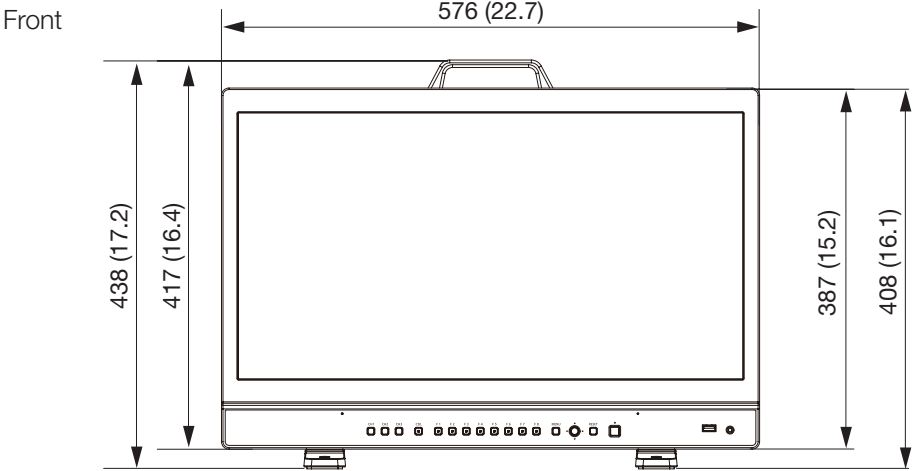
* Brightness values are standard values and not guaranteed values.
You can not use "Local Dimming High/Low" in "Backlight Control" menu with "Boost".

Interface		
Input	12G/6G/3G/HD/SD-SDI	4 BNC (75Ω) receptacle terminal 12G-SDI: Compliant with SMPTE 2082 6G-SDI: Compliant with SMPTE 2081 3G-SDI: Compliant with SMPTE 2048-2/274M/296/372/425-5/425-3/425-1/428-19/428-9 HD-SDI: Compliant with SMPTE 2048-2/274M/292-1/296/428-19/428-9 SD-SDI: Compliant with SMPTE 259M
	HDMI	1 type A terminal Contents protection standard: HDCP 2.2
Output	12G/6G/3G/HD-SDI	4 (pass-thru)
	Head phone	1 stereo mini jack, Supported impedance: 32 Ω to 64 Ω
Others	USB	1 USB A receptacle terminal Universal Serial Bus Specification Revision 2.0 compliant LS (Low Speed)/FS (Full Speed)/HS (High Speed) mode compatible Compliant with Enhanced Host Controller Interface Specification for Universal Serial Bus Revision 1.0
	LAN	1 RJ-45 terminal Compliant with IEEE802.3 10BASE-TX/IEEE802.3u 100BASE-TX
	REMOTE	1 RJ-45 terminal, GPI 8 pins

Weight and dimensions are approximate. Error and omissions excepted.

The information in this manual is verified as of September 2017. It is subject to change without notice.

Dimensions



Unit: mm (inch)

86 Supported Signal Format

SDI

* Formats not supporting audio signals.

Transmission method	Signal format	Color format	Color depth	Standards
SD-SDI	720x487i 59.94/60.00 Hz*	4:2:2 YCbCr	10-bit	SMPTE-259M
	720x576i 50.00 Hz*			
HD-SDI	1280x720P 59.94/60.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 292-1 SMPTE 296
	1280x720P 50.00 Hz			
	1280x720P 29.97/30.00 Hz			
	1280x720P 25.00 Hz			
	1280x720P 23.98/24.00 Hz			
	1920x1080i 59.94/60.00 Hz			
	1920x1080i 50.00 Hz			
	1920x1080P 29.97/30.00 Hz			
	1920x1080PsF 29.97/30.00 Hz			
	1920x1080P 25.00 Hz			
	1920x1080PsF 25.00 Hz			
	1920x1080P 23.98/24.00 Hz			SMPTE 292-1 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
	1920x1080PsF 23.98/24.00 Hz			
	2048x1080i 59.94/60.00 Hz			
	2048x1080i 50.00 Hz			
	2048x1080P 29.97/30.00 Hz			
	2048x1080PsF 29.97/30.00 Hz			
	2048x1080P 25.00 Hz			
	2048x1080PsF 25.00 Hz			
	2048x1080P 23.98/24.00 Hz			
2048x1080PsF 23.98/24.00 Hz				
3G-SDI (Level A)	1280x720P 59.94/60.00 Hz	4:4:4 RGB 4:4:4 YCbCr	10-bit	SMPTE 425-1 SMPTE 296
	1280x720P 50.00 Hz	4:4:4 RGB 4:4:4 YCbCr	10-bit	
	1280x720P 29.97/30.00 Hz	4:4:4 RGB 4:4:4 YCbCr	10-bit	
	1280x720P 25.00 Hz	4:4:4 RGB 4:4:4 YCbCr	10-bit	
	1280x720P 23.98/24.00 Hz	4:4:4 RGB 4:4:4 YCbCr	10-bit	
	1920x1080P 59.94/60.00 Hz	4:2:2 YCbCr	10-bit	

Transmission method	Signal format	Color format	Color depth	Standards
3G-SDI (Level A)	1920x1080i 59.94/60.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 274M
		4:4:4 YCbCr		
		4:2:2 YCbCr	12-bit	
	1920x1080P 50.00 Hz	4:2:2 YCbCr	10-bit	
	1920x1080i 50.00 Hz	4:4:4 RGB	12-bit/10-bit	
		4:4:4 YCbCr		
	1920x1080P 29.97/30.00 Hz	4:2:2 YCbCr	12-bit	
		4:4:4 RGB	12-bit/10-bit	
	1920x1080P 29.97/30.00 Hz	4:4:4 YCbCr		
		4:2:2 YCbCr	12-bit	
	1920x1080PsF 29.97/30.00 Hz	4:4:4 RGB	10-bit	
			12-bit	
		4:4:4 YCbCr	12-bit	
		4:2:2 YCbCr	10-bit	
	1920x1080P 25.00 Hz	4:4:4 YCbCr	12-bit	SMPTE 425-1 SMPTE 274M
		4:2:2 YCbCr	12-bit	
	1920x1080P 25.00 Hz	4:4:4 RGB	12-bit/10-bit	
		4:4:4 YCbCr		
	1920x1080PsF 25.00 Hz	4:2:2 YCbCr	12-bit	
			10-bit	
4:4:4 RGB		10-bit		
4:4:4 YCbCr		12-bit		
1920x1080P 23.98/24.00 Hz	4:4:4 YCbCr	10-bit	SMPTE 425-1 SMPTE 274M	
	4:2:2 YCbCr	12-bit		
1920x1080PsF 23.98/24.00 Hz	4:4:4 RGB	12-bit/10-bit		
	4:4:4 YCbCr			
1920x1080P 23.98/24.00 Hz	4:2:2 YCbCr	12-bit		
	4:4:4 RGB	10-bit		
1920x1080PsF 23.98/24.00 Hz	4:4:4 YCbCr	12-bit	SMPTE 425-1 SMPTE 274M	
		10-bit		
	4:2:2 YCbCr	12-bit		
	4:4:4 RGB	10-bit		
2048x1080P 59.94/60.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-1 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2	
2048x1080i 59.94/60.00 Hz	4:4:4 RGB	12-bit/10-bit		
	4:4:4 YCbCr			
	4:4:4 X'Y'Z'	12-bit		
2048x1080P 50.00 Hz	4:2:2 YCbCr	12-bit		
	4:2:2 YCbCr	10-bit		
2048x1080P 50.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-1 SMPTE 2048-2	

Transmission method	Signal format	Color format	Color depth	Standards	
3G-SDI (Level A)	2048x1080i 50.00 Hz	4:4:4 RGB	12-bit/10-bit		
		4:4:4 YCbCr	12-bit		
		4:4:4 X'Y'Z'			
		4:2:2 YCbCr			
		2048x1080P 47.95/48.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-1 SMPTE 2048-2
		2048x1080P 29.97/30.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
	4:4:4 X'Y'Z'		12-bit		
	4:4:4 YCbCr		12-bit/10-bit	SMPTE 425-1 SMPTE 2048-2	
	4:2:2 YCbCr		12-bit		
		2048x1080PsF 29.97/30.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
	4:4:4 X'Y'Z'		12-bit		
	4:4:4 YCbCr		12-bit/10-bit	SMPTE 425-1 SMPTE 2048-2	
	4:2:2 YCbCr		12-bit		
		2048x1080P 25.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
	4:4:4 X'Y'Z'		12-bit		
	4:4:4 YCbCr		12-bit/10-bit	SMPTE 425-1 SMPTE 2048-2	
	4:2:2 YCbCr		12-bit		
		2048x1080PsF 25.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
	4:4:4 X'Y'Z'		12-bit		
	4:4:4 YCbCr		12-bit/10-bit	SMPTE 425-1 SMPTE 2048-2	
4:2:2 YCbCr	12-bit				
	2048x1080P 23.98/24.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2	
4:4:4 X'Y'Z'		12-bit			
4:4:4 YCbCr		12-bit/10-bit	SMPTE 425-1 SMPTE 2048-2		
4:2:2 YCbCr		12-bit			
	2048x1080PsF 23.98/24.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2	
4:4:4 X'Y'Z'		12-bit			
4:4:4 YCbCr		12-bit/10-bit	SMPTE 425-1 SMPTE 2048-2		
4:2:2 YCbCr		12-bit			

Transmission method	Signal format	Color format	Color depth	Standards
3G-SDI (Level B)	1920x1080P 59.94/60.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-1 SMPTE 372 SMPTE 274M
	1920x1080i 59.94/60.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	1920x1080P 50.00 Hz	4:2:2 YCbCr	10-bit	
	1920x1080i 50.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	1920x1080P 29.97/30.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	1920x1080PsF 29.97/30.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	1920x1080P 25.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	1920x1080PsF 25.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	1920x1080P 23.98/24.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	1920x1080PsF 23.98/24.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	2048x1080P 59.94/60.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-1 SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
	2048x1080i 59.94/60.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:4:4 X'Y'Z' 4:2:2 YCbCr	12-bit	
2048x1080P 50.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-1 SMPTE 372 SMPTE 2048-2	
2048x1080i 50.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit		
	4:4:4 X'Y'Z' 4:2:2 YCbCr	12-bit		

Transmission method	Signal format	Color format	Color depth	Standards
3G-SDI (Level B)	2048x1080P 47.95/48.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-1 SMPTE 372 SMPTE 2048-2
		4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
	2048x1080P 29.97/30.00 Hz	4:4:4 X'Y'Z'	12-bit	SMPTE 425-1 SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1 SMPTE 372 SMPTE 2048-2
		4:2:2 YCbCr	12-bit	SMPTE 425-1 SMPTE 372 SMPTE 2048-2
		4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
	2048x1080PsF 29.97/30.00 Hz	4:4:4 X'Y'Z'	12-bit	SMPTE 425-1 SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1 SMPTE 372 SMPTE 2048-2
		4:2:2 YCbCr	12-bit	SMPTE 425-1 SMPTE 372 SMPTE 2048-2
		4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
	2048x1080P 25.00 Hz	4:4:4 X'Y'Z'	12-bit	SMPTE 425-1 SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1 SMPTE 372 SMPTE 2048-2
		4:2:2 YCbCr	12-bit	SMPTE 425-1 SMPTE 372 SMPTE 2048-2
		4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
	2048x1080PsF 25.00 Hz	4:4:4 X'Y'Z'	12-bit	SMPTE 425-1 SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1 SMPTE 372 SMPTE 2048-2
		4:2:2 YCbCr	12-bit	SMPTE 425-1 SMPTE 372 SMPTE 2048-2
		4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
	2048x1080P 23.98/24.00 Hz	4:4:4 X'Y'Z'	12-bit	SMPTE 425-1 SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1 SMPTE 372 SMPTE 2048-2
4:2:2 YCbCr		12-bit	SMPTE 425-1 SMPTE 372 SMPTE 2048-2	
4:4:4 RGB		12-bit/10-bit	SMPTE 425-1 SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2	

Transmission method	Signal format	Color format	Color depth	Standards
3G-SDI (Level B)	2048x1080PsF 23.98/24.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 X'Y'Z'	12-bit	
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1 SMPTE 372 SMPTE 2048-2
		4:2:2 YCbCr	12-bit	
Dual Link 3G-SDI (Level A)	1920x1080P 59.94/60.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-3 SMPTE 274M
		4:4:4 YCbCr		
		4:2:2 YCbCr	12-bit	
	1920x1080P 50.00 Hz	4:4:4 RGB	12-bit/10-bit	
		4:4:4 YCbCr		
		4:2:2 YCbCr	12-bit	
	2048x1080P 59.94/60.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-3 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr		
		4:4:4 X'Y'Z'	12-bit	
	4:2:2 YCbCr			
	2048x1080P 50.00 Hz	4:4:4 RGB		
		4:4:4 YCbCr		
4:4:4 X'Y'Z'		12-bit		
4:2:2 YCbCr				
2048x1080P 47.95/48.00 Hz	4:4:4 RGB	12-bit/10-bit		
	4:4:4 YCbCr			
	4:4:4 X'Y'Z'	12-bit		
4:2:2 YCbCr				
Dual Link 3G-SDI (Level B)	1920x1080P 59.94/60.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-3 SMPTE 372 SMPTE 274M
		4:4:4 YCbCr		
		4:2:2 YCbCr	12-bit	
	1920x1080P 50.00 Hz	4:4:4 RGB	12-bit/10-bit	
		4:4:4 YCbCr		
		4:2:2 YCbCr	12-bit	
	2048x1080P 59.94/60.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-3 SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr		
		4:4:4 X'Y'Z'	12-bit	
	4:2:2 YCbCr			
	2048x1080P 50.00 Hz	4:4:4 RGB		
		4:4:4 YCbCr		
4:4:4 X'Y'Z'		12-bit		
4:2:2 YCbCr				
2048x1080P 47.95/48.00 Hz	4:4:4 RGB	12-bit/10-bit		
	4:4:4 YCbCr			
	4:4:4 X'Y'Z'	12-bit		
4:2:2 YCbCr				

Transmission method	Signal format	Color format	Color depth	Standards
Dual Link 3G-SDI Square Division (Level B)	3840x2160P 29.97/30.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-3 SMPTE 372 SMPTE 274M
	3840x2160PsF 29.97/30.00 Hz			
	3840x2160P 25.00 Hz			
	3840x2160PsF 25.00 Hz			
	3840x2160P 23.98/24.00 Hz			
	3840x2160PsF 23.98/24.00 Hz			
	4096x2160P 29.97/30.00 Hz			SMPTE 425-3 SMPTE 372 SMPTE 2048-2
	4096x2160PsF 29.97/30.00 Hz			
	4096x2160P 25.00 Hz			
	4096x2160PsF 25.00 Hz			
	4096x2160P 23.98/24.00 Hz			
	4096x2160PsF 23.98/24.00 Hz			
Dual Link 3G-SDI 2 Sample Interleave (Level B)	3840x2160P 29.97/30.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-3 SMPTE 372 SMPTE 274M
	3840x2160P 25.00 Hz			
	3840x2160P 23.98/24.00 Hz			
	4096x2160P 29.97/30.00 Hz			SMPTE 425-3 SMPTE 372 SMPTE 2048-2
	4096x2160P 25.00 Hz			
	4096x2160P 23.98/24.00 Hz			
Quad Link HD-SDI	3840x2160i 59.94/60.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 292-1 SMPTE 274M
	3840x2160i 50.00 Hz			
	3840x2160P 29.97/30.00 Hz			
	3840x2160PsF 29.97/30.00 Hz			
	3840x2160P 25.00 Hz			
	3840x2160PsF 25.00 Hz			
	3840x2160P 23.98/24.00 Hz			
	3840x2160PsF 23.98/24.00 Hz			
	4096x2160i 59.94/60.00 Hz			SMPTE 292-1 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
	4096x2160i 50.00 Hz			
	4096x2160P 29.97/30.00 Hz			
	4096x2160PsF 29.97/30.00 Hz			
	4096x2160P 25.00 Hz			
	4096x2160PsF 25.00 Hz			
	4096x2160P 23.98/24.00 Hz			
	4096x2160PsF 23.98/24.00 Hz			

Transmission method	Signal format	Color format	Color depth	Standards
Quad Link 3G-SDI (Level A)	3840x2160P 59.94/60.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-1 SMPTE 274M
	3840x2160i 59.94/60.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	3840x2160P 50.00 Hz	4:2:2 YCbCr	12-bit	
	3840x2160i 50.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	3840x2160P 29.97/30.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	3840x2160PsF 29.97/30.00 Hz	4:4:4 RGB	10-bit	
			12-bit	
		4:4:4 YCbCr	12-bit	
		4:4:4 YCbCr	10-bit	SMPTE 425-1 SMPTE 274M
	4:2:2 YCbCr	12-bit		
	3840x2160P 25.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	3840x2160PsF 25.00 Hz	4:4:4 RGB	10-bit	
			12-bit	
		4:4:4 YCbCr	12-bit	
		4:4:4 YCbCr	10-bit	SMPTE 425-1 SMPTE 274M
	4:2:2 YCbCr	12-bit		
3840x2160P 23.98/24.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit		
	4:2:2 YCbCr	12-bit		
3840x2160PsF 23.98/24.00 Hz	4:4:4 RGB	10-bit		
		12-bit		
	4:4:4 YCbCr	12-bit		
	4:4:4 YCbCr	10-bit	SMPTE 425-1 SMPTE 274M	
4:2:2 YCbCr	12-bit			
4096x2160P 59.94/60.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-1 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2	
4096x2160i 59.94/60.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit		
	4:4:4 X'Y'Z' 4:2:2 YCbCr	12-bit		

Transmission method	Signal format	Color format	Color depth	Standards
Quad Link 3G-SDI (Level A)	4096x2160P 50.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-1 SMPTE 2048-2
	4096x2160i 50.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:4:4 X'Y'Z' 4:2:2 YCbCr	12-bit	
	4096x2160P 47.95/48.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-1 SMPTE 2048-2
	4096x2160P 29.97/30.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 X'Y'Z'	12-bit	
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1 SMPTE 2048-2
		4:2:2 YCbCr	12-bit	
	4096x2160PsF 29.97/30.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 X'Y'Z'	12-bit	
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1 SMPTE 2048-2
		4:2:2 YCbCr	12-bit	
	4096x2160P 25.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 X'Y'Z'	12-bit	
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1 SMPTE 2048-2
		4:2:2 YCbCr	12-bit	
	4096x2160PsF 25.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 X'Y'Z'	12-bit	
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1 SMPTE 2048-2
		4:2:2 YCbCr	12-bit	
4096x2160P 23.98/24.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2	
	4:4:4 X'Y'Z'	12-bit		
	4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1 SMPTE 2048-2	
	4:2:2 YCbCr	12-bit		
4096x2160PsF 23.98/24.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2	
	4:4:4 X'Y'Z'	12-bit		
	4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1 SMPTE 2048-2	
	4:2:2 YCbCr	12-bit		

Transmission method	Signal format	Color format	Color depth	Standards
Quad Link 3G-SDI 2 Sample Interleave (Level A)	3840x2160P 59.94/60.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-5 SMPTE 274M
	3840x2160P 50.00 Hz	4:2:2 YCbCr	10-bit	
	3840x2160P 29.97/30.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	3840x2160P 25.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	3840x2160P 23.98/24.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	4096x2160P 59.94/60.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-5 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
	4096x2160P 50.00 Hz	4:2:2 YCbCr	10-bit	
	4096x2160P 47.95/48.00 Hz	4:2:2 YCbCr	10-bit	
	4096x2160P 29.97/30.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
4:4:4 X'Y'Z' 4:2:2 YCbCr		12-bit		
4096x2160P 25.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit		
	4:4:4 X'Y'Z' 4:2:2 YCbCr	12-bit		
4096x2160P 23.98/24.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit		
	4:4:4 X'Y'Z' 4:2:2 YCbCr	12-bit		
Quad Link 3G-SDI (Level B)	3840x2160P 59.94/60.00 Hz	4:2:2 YCbCr	10-bit	
	3840x2160i 59.94/60.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	3840x2160P 50.00 Hz	4:2:2 YCbCr	10-bit	

Transmission method	Signal format	Color format	Color depth	Standards	
Quad Link 3G-SDI (Level B)	3840x2160i 50.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1 SMPTE 372 SMPTE 274M	
		4:2:2 YCbCr	12-bit		
	3840x2160P 29.97/30.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit		
		4:2:2 YCbCr	12-bit		
	3840x2160PsF 29.97/30.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit		
		4:2:2 YCbCr	12-bit		
	3840x2160P 25.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit		
		4:2:2 YCbCr	12-bit		
	3840x2160PsF 25.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit		
		4:2:2 YCbCr	12-bit		
	3840x2160P 23.98/24.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit		
		4:2:2 YCbCr	12-bit		
	3840x2160PsF 23.98/24.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit		
		4:2:2 YCbCr	12-bit		
	4096x2160P 59.94/60.00 Hz	4:2:2 YCbCr	10-bit		SMPTE 425-1 SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
	4096x2160i 59.94/60.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit		
4:4:4 X'Y'Z' 4:2:2 YCbCr		12-bit			
4096x2160P 50.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-1 SMPTE 372 SMPTE 2048-2		
4096x2160i 50.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit			
	4:4:4 X'Y'Z' 4:2:2 YCbCr	12-bit			
4096x2160P 47.95/48.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-1 SMPTE 372 SMPTE 2048-2		

Transmission method	Signal format	Color format	Color depth	Standards
Quad Link 3G-SDI (Level B)	4096x2160P 29.97/30.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 372
		4:4:4 X'Y'Z'	12-bit	SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1 SMPTE 372
		4:2:2 YCbCr	12-bit	SMPTE 2048-2
	4096x2160PsF 29.97/30.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 372
		4:4:4 X'Y'Z'	12-bit	SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1 SMPTE 372
		4:2:2 YCbCr	12-bit	SMPTE 2048-2
	4096x2160P 25.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 372
		4:4:4 X'Y'Z'	12-bit	SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1 SMPTE 372
		4:2:2 YCbCr	12-bit	SMPTE 2048-2
4096x2160PsF 25.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 372	
	4:4:4 X'Y'Z'	12-bit	SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2	
	4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1 SMPTE 372	
	4:2:2 YCbCr	12-bit	SMPTE 2048-2	
4096x2160P 23.98/24.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 372	
	4:4:4 X'Y'Z'	12-bit	SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2	
	4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1 SMPTE 372	
	4:2:2 YCbCr	12-bit	SMPTE 2048-2	

Transmission method	Signal format	Color format	Color depth	Standards	
Quad Link 3G-SDI (Level B)	4096x2160PsF 23.98/24.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2	
		4:4:4 X'Y'Z'	12-bit		
		4:4:4 YCbCr	12-bit/10-bit		
		4:2:2 YCbCr	12-bit		
Quad Link 3G-SDI 2 Sample Interleave (Level B)	3840x2160P 59.94/60.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-5 SMPTE 372 SMPTE 274M	
	3840x2160P 50.00 Hz	4:2:2 YCbCr	10-bit		
	3840x2160P 29.97/30.00 Hz	4:4:4 RGB	12-bit/10-bit		
		4:4:4 YCbCr	12-bit		
	3840x2160P 25.00 Hz	4:4:4 RGB	12-bit/10-bit		
		4:4:4 YCbCr	12-bit		
	3840x2160P 23.98/24.00 Hz	4:4:4 RGB	12-bit/10-bit		
		4:4:4 YCbCr	12-bit		
	4096x2160P 59.94/60.00 Hz	4:2:2 YCbCr	10-bit		SMPTE 425-5 SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
	4096x2160P 50.00 Hz	4:2:2 YCbCr	10-bit		
	4096x2160P 47.95/48.00 Hz	4:2:2 YCbCr	10-bit		
	4096x2160P 29.97/30.00 Hz	4:4:4 RGB	12-bit/10-bit		
		4:4:4 YCbCr	12-bit		
	4096x2160P 25.00 Hz	4:4:4 RGB	12-bit/10-bit		
		4:4:4 YCbCr	12-bit		
	4096x2160P 23.98/24.00 Hz	4:4:4 RGB	12-bit/10-bit		
4:4:4 YCbCr		12-bit			
6G-SDI	3840x2160P 29.97/30.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 2081-10	
	3840x2160P 25.00 Hz				
	3840x2160P 23.98/24.00 Hz				
	4096x2160P 25.00 Hz				
	4096x2160P 23.98/24.00 Hz				
Dual Link 6G-SDI Square Division, 2 Sample Interleave	3840x2160P 59.94/60.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 2081-11	
	3840x2160P 50.00 Hz				

Transmission method	Signal format	Color format	Color depth	Standards
12G-SDI	3840x2160P 29.97/30.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	SMPTE 2082-10
		4:2:2 YCbCr	12-bit	
	3840x2160P 25.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	3840x2160P 23.98/24.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	4096x2160P 25.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:4:4 X'Y'Z' 4:2:2 YCbCr	12-bit	
	4096x2160P 23.98/24.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:4:4 X'Y'Z' 4:2:2 YCbCr	12-bit	
	3840x2160P 59.94/60.00 Hz	4:2:2 YCbCr	10-bit	
	3840x2160P 50.00 Hz			
	4096x2160P 47.95/48.00 Hz			
	4096x2160P 59.94/60.00 Hz			
4096x2160P 50.00 Hz				

RAW

Signal format
3840x2160P 59.94 Hz, 50.00 Hz, 29.97 Hz, 25.00 Hz, 24.00 Hz, 23.98 Hz
4096x2160P 59.94 Hz, 50.00 Hz, 29.97 Hz, 25.00 Hz, 24.00 Hz, 23.98 Hz

HDMI

Signal format	Color format/Color depth
640x480P 59.94/60.00 Hz	4:4:4 RGB 8-bit
800x600P 60.00 Hz	
1024x768P 60.00 Hz	
720x480P 59.94/60.00 Hz	4:4:4 RGB 12-bit/10-bit/8-bit 4:4:4 YCbCr 12-bit/10-bit/8-bit 4:2:2 YCbCr 12-bit
720x576P 50.00 Hz	
1280x720P 59.94/60.00 Hz	
1280x720P 50.00 Hz	
1920x1080P 59.94/60.00 Hz	
1920x1080i 59.94/60.00 Hz	
1920x1080P 50.00 Hz	
1920x1080i 50.00 Hz	
1920x1080P 29.97/30.00 Hz	
1920x1080P 25.00 Hz	
1920x1080P 23.98/24.00 Hz	
2048x1080P 59.94/60.00 Hz	
2048x1080P 50.00 Hz	
2048x1080P 29.97/30.00 Hz	
2048x1080P 25.00 Hz	
2048x1080P 23.98/24.00 Hz	
3840x2160P 59.94/60.00 Hz	4:4:4 RGB 8-bit 4:4:4 YCbCr 8-bit 4:2:2 YCbCr 12-bit 4:2:0 YCbCr 12-bit/10-bit/8-bit
3840x2160P 50.00 Hz	
3840x2160P 29.97/30.00 Hz	
3840x2160P 25.00 Hz	4:4:4 YCbCr 12-bit/10-bit/8-bit 4:2:2 YCbCr 12-bit
3840x2160P 23.98/24.00 Hz	
4096x2160P 59.94/60.00 Hz	
4096x2160P 50.00 Hz	4:4:4 RGB 8-bit 4:4:4 YCbCr 8-bit 4:2:2 YCbCr 12-bit 4:2:0 YCbCr 12-bit/10-bit/8-bit
4096x2160P 29.97/30.00 Hz	
4096x2160P 25.00 Hz	
4096x2160P 23.98/24.00 Hz	4:4:4 RGB 12-bit/10-bit/8-bit 4:4:4 YCbCr 12-bit/10-bit/8-bit 4:2:2 YCbCr 12-bit

Image/Frame Display

SDI

Signal system			Display Method	
720x487	59.94/60.00	i	59.94/60.00	P
720x576	50.00	i	50.00	P
1280x720	23.98/24.00	P	47.96/48.00	P*
	25.00	P	50.00	P*
	29.97/30.00	P	59.94/60.00	P*
	50.00	P	50.00	P
	59.94/60.00	P	59.94/60.00	P
1920x1080	50.00	i	50.00	P
	59.94/60.00	i	59.94/60.00	P
	23.98/24.00	PsF	47.96/48.00	P*
	25.00	PsF	50.00	P*
	29.97/30.00	PsF	59.94/60.00	P*
	23.98/24.00	P	47.96/48.00	P*
	25.00	P	50.00	P*
	29.97/30.00	P	59.94/60.00	P*
	50.00	P	50.00	P
	59.94/60.00	P	59.94/60.00	P
2048x1080	50.00	i	50.00	P
	59.94/60.00	i	59.94/60.00	P
	23.98/24.00	PsF	47.96/48.00	P*
	25.00	PsF	50.00	P*
	29.97/30.00	PsF	59.94/60.00	P*
	23.98/24.00	P	47.96/48.00	P*
	25.00	P	50.00	P*
	29.97/30.00	P	59.94/60.00	P*
	47.95/48.00	P	47.95/48.00	P
	50.00	P	50.00	P
	59.94/60.00	P	59.94/60.00	P

Signal system			Display Method	
3840x2160	50.00	i	50.00	P
	59.94/60.00	i	59.94/60.00	P
	23.98/24.00	PsF	47.96/48.00	P*
	25.00	PsF	50.00	P*
	29.97/30.00	PsF	59.94/60.00	P*
	23.98/24.00	P	47.96/48.00	P*
	25.00	P	50.00	P*
	29.97/30.00	P	59.94/60.00	P*
	50.00	P	50.00	P
	59.94/60.00	P	59.94/60.00	P
4096x2160	50.00	i	50.00	P
	59.94/60.00	i	59.94/60.00	P
	23.98/24.00	PsF	47.96/48.00	P*
	25.00	PsF	50.00	P*
	29.97/30.00	PsF	59.94/60.00	P*
	23.98/24.00	P	47.96/48.00	P*
	25.00	P	50.00	P*
	29.97/30.00	P	59.94/60.00	P*
	47.95/48.00	P	47.95/48.00	P
	50.00	P	50.00	P
	59.94/60.00	P	59.94/60.00	P

* : Displaying same frame

HDMI

Signal system			Display Method	
640x480	59.94/60.00	P	59.94/60.00	P
800x600	60.00	P	60.00	P
720x480	59.94/60.00	P	59.94/60.00	P
720x576	50.00	P	50.00	P
1024x768	60.00	P	60.00	P
1280x720	59.94/60.00	P	59.94/60.00	P
1280x720	50.00	P	50.00	P
1920x1080	59.94/60.00	P	59.94/60.00	P
1920x1080	59.94/60.00	i	59.94/60.00	P
1920x1080	50.00	P	50.00	P
1920x1080	50.00	i	50.00	P
1920x1080	29.97/30.00	P	59.94/60.00	P*
1920x1080	25.00	P	50.00	P*
1920x1080	23.98/24.00	P	47.96/48.00	P*
2048x1080	59.94/60.00	P	59.94/60.00	P
2048x1080	50.00	P	50.00	P
2048x1080	29.97/30.00	P	59.94/60.00	P*
2048x1080	25.00	P	50.00	P*
2048x1080	23.98/24.00	P	47.96/48.00	P*
3840x2160	59.94/60.00	P	59.94/60.00	P
3840x2160	50.00	P	50.00	P
3840x2160	29.97/30.00	P	59.94/60.00	P*
3840x2160	25.00	P	50.00	P*
3840x2160	23.98/24.00	P	47.96/48.00	P*
4096x2160	59.94/60.00	P	59.94/60.00	P
4096x2160	50.00	P	50.00	P
4096x2160	29.97/30.00	P	59.94/60.00	P*
4096x2160	25.00	P	50.00	P*
4096x2160	23.98/24.00	P	47.96/48.00	P*

* : Displaying same frame

Error Messages






	Message	Description and Action
Calibration	Failed to initialize the external sensor.	See CA-310 and CA-210 instruction manual.
	Calibration error.	<ul style="list-style-type: none"> • Check the installation and connection of the external sensor and retry (📖25). • Perform matrix calibration of CA-310 and CA-210 (📖25).
	Calibration is completed. (Brightness setting is lower than target brightness.)	Set the [Luminance] in calibration again (📖45).
	Failed to detect the external sensor. Please check the connection with the sensor.	Correctly connect the external sensor to the USB port of this main unit.
Network	Communication error.	IP address may be in conflict or there may be a network communication error. Check the network environment.
	Invalid IP Address.	Enter the correct IP address.
	Invalid Subnet Mask.	Enter the correct subnet mask.
Various settings, CDL export	The USB memory is full.	Use another USB memory or delete the content of the memory.
	Failed to write file.	The USB memory may be defective or protected. Check the USB memory.
LUT, Various settings, CDL import	(LUT Import) "LUT Type" is different. (CDL Import) "File Type" is different.	Select the correct file format.
	Failed to read file.	The USB memory may be defective or protected. Check the USB memory.
	Failed to import.	There is an error in the file to be imported. Check the file.
	No import file.	Check and ensure that the file has been saved to the USB memory or imported to [User 1] to [User 3].






	Message	Description and Action
Screen Capture	Failed to capture.	The USB memory may be defective or protected. Check the USB memory.
	Invalid Signal.	A screen displaying no video is being captured for example there is no signal or an unsupported signal is being input. Check the signal, input it again, and capture it.
	Copy protected signal.	The signal you tried to capture may be protected by HDCP 2.2 which is a copy prevention standard for HDMI. In this case, the signal cannot be captured. Check the HDMI signal.
	Failed to playback file.	The USB memory or the file may be defective or protected. Check the USB memory or the file.
	No capture file.	Check and ensure that the file has been saved to the USB memory.
Hardware error	Backlight error.	Disconnect the power cord, reconnect it, and then turn on the power. If the message persists, contact Canon Customer Center.
	Fan error.	
	Panel error.	
	I/F error.	
	System error.	
	Invalid operation due to high temperature.	The temperature inside the main unit is high. Turn off the power and wait until the fan stops.
Input signal	No Signal	Displayed when there is no video signal input.
	Unsupported	Unsupported video signal is input. Check the supported signal format (86).
Operation	Invalid operation.	Operation is disabled. Check the setting items.
	"Protect Settings" is on.	To use the OSD menu, move the selection frame to [Protect] and press the jog dial for approximately 3 seconds.
	"CDL/User LUT Bypass" is on.	When [CDL/User LUT Bypass] is turned [On], you cannot adjust [Power], [Saturation], [Offset], or [Slope].
	Invalid Password.	Enter the correct password.
USB memory	USB memory is not connected.	Correctly connect the USB memory to the USB port of this main unit.
	Unsupported USB memory.	Check the USB memory format and make sure it is not protected.

Error Messages

	Message	Description and Action
DC power supply	Low Voltage.	The battery charge level drops if using the battery. If you use another power source, check the input voltage of the DC power supply.
	Low Voltage, Turn off power.	The power has shut off as DC power voltage became insufficient for continued operation. There may not be enough energy left if you are using the battery. Connect a charged battery and turn the video display power on. If you use another power source, check the input voltage of the DC power supply.
	Invalid Voltage, Turn off power.	The power has shut off as the DC power input voltage exceeded the operational threshold. Check the input voltage of the DC power supply.

Troubleshooting

Symptom	Cause and Action	
Power does not turn on. (Power indicator does not turn on.)	• Press the  button.	10
	• Check that the AC power supply or DC power cord is connected correctly.	18
	• Brightness of the power indicator may be turned off. Turn it on and check once more.	77
The screen is dark.	When the power indicator does not turn on: • Press the  button.	10
	• Check that the AC power supply or DC power cord is connected correctly.	18
	When the power indicator is lit orange: • Press the  button.	18
	When the power indicator is flashing orange: • Flashing once every 3 seconds : Contact Canon Customer Center. • Flashing twice every 3 seconds : - Turn on the power with the  button. - The temperature of the display rises (or falls) depend on operation environment. Check the environmental conditions and do not use in direct sunlight. - If the power still does not turn on, contact Canon Customer Center.	18 83
The power suddenly goes off when a DC power supply is used.	• Depending on the model of DC power supply used, the output voltage may decrease suddenly and even turn off (0 V output) when a threshold value is reached. Before that, a warning message about low input voltage may be displayed only briefly or not at all. Connect a charged DC power supply or AC power supply.	—
The image does not display.	• Set each item in [Channel Settings] according to input signal.	52
The 3G-SDI RAW signal image does not display.	• At times the 3G-SDI RAW signal image may not display, depending on the type of the CINEMA EOS SYSTEM camera. Refer to the Canon website for a list of supported products.	—
There is a blank area when set to Quad Input/Dual Input.	• There may be no input signal. Check the signal.	16
	• Signals with different resolution or frequency may be input from each terminal. Check the signal.	82
The image appears to be delayed.	• When [Reduce Backlight Flash] is set to [On], the displayed image may be delayed depending on the scene. In such case, change the setting to [Off].	70
Screen is too bright/dark.	• Adjust the [Contrast] on the OSD menu.	38
	• Adjust the settings for [Boost Contrast] on the OSD menu.	44
	• There is a limit on the service life of LCD backlight. If the screen becomes dark or starts flickering, contact Canon Customer Center.	

Symptom	Cause and Action	
Burn-in image appears.	<ul style="list-style-type: none"> This is a characteristic of the LCD panel and you should avoid displaying stationary image for a long time. 	—
There is an unlit or red, blue, green, or white dot on screen.	<ul style="list-style-type: none"> LCD display is made of very high precision technology. It has effective pixels of 99.99% or more, but there may be black dots or red, blue, or green dots that may be always on. This is not a failure. 	—
There is an interference pattern or trace that remains when the LCD panel is pressed.	<ul style="list-style-type: none"> The symptom may be resolved by displaying a white or black image on the entire screen. 	—
OSD menu cannot be used.	<ul style="list-style-type: none"> Check that [Protect Settings] is not set. 	77
[Aspect Marker], [Safety Zone Marker] or [Area Marker] does not appear.	<ul style="list-style-type: none"> A channel with no signal, unsupported signal, or with [Input Configuration] not set may be selected. Check the signal. 	82
The fan starts to rotate even when [Fan] under [Camera Link] is set to [On] or [Fan Stop] is set to [On].	<ul style="list-style-type: none"> The fan stays off for approx. 1 minute when an AC power supply is used. To keep the fan off for a longer period, use a DC power supply. The fan operates to lower the temperature inside the main unit. The fan stops operating when the temperature inside has lowered. When [Fan] under [Camera Link] is set to [On], the down time may not match the camera. 	71 77
The fan does not stop even when [Fan] under [Camera Link] is set to [On] or [Fan Stop] is set to [On].	<ul style="list-style-type: none"> The fan does not stop if the temperature inside the main unit is high. Configure settings after the internal temperature has lowered. The fan may not stop in some conditions, for example when used at a high temperature. Use the video display at the operating temperature ( 83) or lower. 	71 77
Loud fan noise	<ul style="list-style-type: none"> The fan operates at a faster speed than usual to lower the internal temperature if [Fan Control] is set to [On] and when the temperature inside the main unit has increased. The fan operates at normal speed when [Fan Control] is set to [Off]. When high-luminance content is displayed continuously, the temperature inside the main unit rises even if the operating temperature is within the recommended range, and the fan operates at a faster speed than usual to lower the internal temperature. It is recommended to lower the brightness of the video display. 	77
You forgot the password for [Protect Settings].	<ul style="list-style-type: none"> Press the jog dial and the  button while the video display is in standby. The configuration will be reset to the state where no password is set. 	10
The video display does not start up in the condition that the power was turned off last time.	<ul style="list-style-type: none"> Check the [Power on Setting] on the OSD menu. Set [Last memory] to start up the video display in the condition that the power is turned off last time. 	78
The image quality for the User mode in [Picture Mode] differs from the image quality of presets.	<ul style="list-style-type: none"> Select the preset mode by [Copy Picture Mode] and copy the settings. 	46
Image quality on the left and right screens is different.	<ul style="list-style-type: none"> Check the [Channel Settings]  [Picture Mode R] settings. 	55
The same image is displayed in two screens.	<ul style="list-style-type: none"> Check the [Channel Settings]  [Single Input Dual View] settings. 	55

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IN THE UNITED STATES**

The limited warranty set forth below is given by Canon U.S.A., Inc. ('Canon USA') with respect to Canon Professional Display Equipment (the 'Equipment') accompanying this limited warranty in the Equipment's original container, when purchased in the United States. This limited warranty is only effective upon presentation of your Bill of Sale or other proof of purchase.

Canon USA warrants to the original end-user purchaser, when delivered in new condition in its original container, that the Equipment will be free from defects in materials and workmanship under normal use and service for a period of ONE-YEAR from the date of original purchase. When returning Equipment under this warranty, you must pre-pay the shipping charges, and you must enclose a copy of the Bill of Sale or other proof of purchase with a complete explanation of the problem. Equipment returned to a Canon USA factory service facility, and proven to be defective upon inspection, will be, without charge,:

- (a) repaired utilizing new or comparable refurbished parts, or
- (b) exchanged for refurbished or new Equipment

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This limited warranty only applies if the Equipment is used in conjunction with compatible computer equipment, compatible peripheral equipment and compatible software, as to which items Canon USA will have no responsibility. Canon USA shall have no responsibility under this limited warranty for use of the Equipment in conjunction with incompatible peripheral equipment and/or incompatible software. Non-Canon brand peripheral equipment and software which may be distributed with, or be factory loaded on, the Equipment, are sold 'AS IS' without warranty of any kind by Canon USA, including any implied warranty regarding merchantability or fitness for a particular purpose. The sole warranty with respect to such non-Canon brand items is given by the manufacturer or producer thereof. If the Equipment contains a hard disk drive, Canon USA recommends that data stored on that drive be duplicated or backed up to prevent its loss in the event of failure or other malfunction of such drive.

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- D. If defects or damages are caused by service other than Canon USA's factory service centers or authorized service facilities;
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- F. Any maintenance of the Equipment, including any fees for such Maintenance;
- G. If the Equipment has had its serial number or dating altered or removed.

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CANON U.S.A., INC

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Canon Canada warrants to the original end-user purchaser, when delivered in new condition in its original container, that the Equipment will be free from defects in materials and workmanship under normal use and service for a period of ONE YEAR from the date of original purchase. When returning Equipment under this limited warranty, you must pre-pay the shipping charges, and you must enclose a copy of the bill of sale or other proof of purchase with a complete explanation of the problem. Equipment returned to a Canon Canada factory service facility and proven to be defective upon inspection will be, without charge:

- (a) repaired utilizing new or comparable refurbished parts, or
- (b) exchanged for refurbished or new Equipment,

as determined by the Canon Canada factory service center, in its sole discretion. The repaired or exchanged Equipment will be shipped back free of charge. Warranty exchange or replacement does not extend the original warranty period of the Equipment. For repairs after the warranty period has expired, an estimate of the cost of repair and an opportunity to approve or reject the repair expense before it is incurred will be provided. If you approve the proposed repairs, repairs will be made and the Equipment will be returned at your risk and expense. If you reject the proposed repairs, the Equipment will be returned to you at no charge to you to an address within Canada.

This limited warranty only applies if the Equipment is used in conjunction with compatible computer equipment, compatible peripheral equipment and compatible software, as to which items Canon Canada will have no responsibility. Canon Canada shall have no responsibility under this limited warranty for use of the Equipment in conjunction with incompatible computer equipment, peripheral equipment and/or incompatible software. Non-Canon brand peripheral equipment and software which may be distributed with, or be factory loaded on, the Equipment, are sold 'AS IS' without warranty or condition of any kind by Canon Canada, including any implied warranty or condition regarding merchantability or fitness for a particular purpose. The sole warranty with respect to such non-Canon brand items is given by the manufacturer or producer thereof. If the Equipment contains a hard disk drive, Canon Canada recommends that data stored on that drive be duplicated or backed up to prevent its loss in the event of failure or other malfunction of such drive.

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- B. If the Equipment is defective as a result of sand, dirt or water damage;
- C. If defects or damages are caused by the use of parts or supplies (other than those sold by Canon Canada) that cause damage to the Equipment or that cause abnormally frequent service calls or service problems
- D. If defects or damages are caused by service other than Canon Canada's factory service centers or authorized service facilities;
- E. Any internal modification to product hardware or firmware;
- F. Any maintenance of the Equipment, including any fees for such maintenance; or
- G. If the Equipment has had its serial number or dating altered or removed.

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