Canon

Video Display

DP-V2420

Instruction Manual

- 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.

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Introduction

Thank you for purchasing the Video Display DP-V2420.

The On Screen Display (thereafter referred to OSD) default language setting is English. To change the OSD menu language setting, please refer to p. 69.

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.

i 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

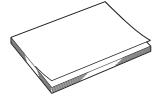
The following items are supplied with this product. Please check before using.



AC Power Cord HT-21



AC Power Cord clamp HC-01



DP-V2420 Instruction Manual (this document)

Important Usage Instructions

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 use the video display in the following places.

Doing so can cause fire, electric shock or malfunction.

- Next to a window when it is raining or snowing.
- Places subject to high humidity and dusty places.
- Places exposed to water drops or moisture such as bathrooms or watering places.
- Places directly exposed to soot, 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 from the power outlet.

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 from the power outlet.

Failing to do so can cause 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 from the power outlet.

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

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

Continued use can cause fire or electric shock.

• 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.
- 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.

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.

• Keep all packaging material out of the reach of children.

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



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 (\square 17). 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 (415).

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.

When using headphones, set the volume at a safe level.

Listening through headphones at a high volume can harm your hearing.

• Do not look at the screen for long periods of time.

Doing so can cause conditions such as eye strain or decreased vision. When looking at the screen for long periods of time, rest periodically. If you feel discomfort after continued usage, stop using the video display immediately and rest. If you continue to feel discomfort, consult a physician.

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.
- Depending on the environment where the video display is used, the internal temperature of the display may rise, resulting in becoming hot to touch. Please take care when handling the video display.
- Viewing the display for prolonged periods of time may lead to eye strain or decreased vision. Please ensure to take rest periodically to avoid these symptoms.
- Refer to Recommendation ITU-R BT.1702 "Guidance for the reduction of photosensitive epileptic seizures caused by television" and related guidelines.

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 from the wall outlet.
- 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.

Features

Video Display DP-V2420 is an HDR reference display capable of supporting various work flows from shooting through to editing in video production for both digital cinema and broadcasting.

Image quality and functions

- Equipped with a panel with 4096x2160 resolution and backlight system.
- High luminance and high contrast matched to HDR content is achieved.
- Equipped with the HDR display function. (SMPTE ST 2084 and Hybrid Log-Gamma are supported)
- High uniformity is provided by minimizing any variation due to temperature changes and aging.
- Supports wide DCI-P3 color gamut.
- Displays ITU-R BT.2020 color gamut at the optimum level and supports "Constant Luminance".
- Supports ACESproxy.
- Equipped with functions to assist shooting and video checking, including Wave Form Monitor, Vector Scope, Screen Capture, Zoom, and False Color.
- Supports gamma equivalent to CRT standardized by ITU-R BT.1886.
- A color grading controller (Element-Tk made by Tangent Wave Ltd), external sensor, or USB memory can be connected to the USB port.
- Separately-sold Display Controller CL-01 can be connected to the LAN terminal.
- Supports "Square Division" and "2 Sample Interleave" video signal transport methods.
- Includes a multi-display function (4 or 2 screens)
- HDR and SDR content can be displayed for comparison.
- Equipped with a HDMI input terminal.

Link with digital cinema cameras (made by Canon/ARRI)

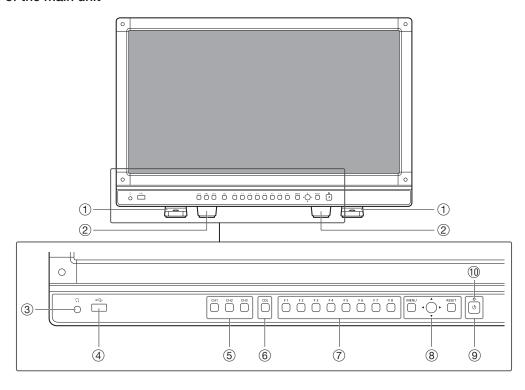
- Supports 4K RAW. Establishes 4K RAW workflow on ACES2065-1.
- Equipped with functions to display a camera's shooting information, switch image quality modes and switch the size of the area marker* by using meta information from the camera. (* only cinema cameras made by ARRI)
- Equipped with Fan Stop function, interlocked with camera's REC signal.
- Supports log gamma (Canon Log, Canon Log 2, Canon Log 3) of CINEMA EOS cameras.
- Supports Looks of ARRI cinema cameras.

Rigidity and flexible installation

- High durability achieved by a metal outer covering.
- The side carrying handle on the main unit is convenient for installation and transporting. The handle and adjustable two position stand provides flexible installation and high portability.

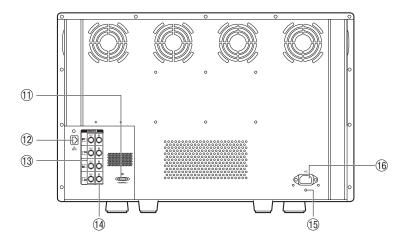
Nomenclature

■ Front face of the main unit



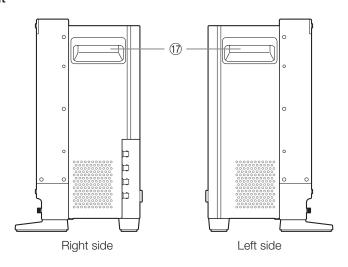
1	Front stand	There are two mounting positions.	1 16
2	Rear stand	This can be detached.	
3	Headphone terminal	Connection for headphone set.	
4	USB port	Connection for an external sensor for calibration (26), USB memory, HUB, or color grading controller (Element-Tk made by Tangent Wave Ltd).	
(5)	CH1 to 3 buttons	Changes channel.	
6	CDL button	Switches between normal and CDL mode.	
7	F1 to F8 buttons	Execute the defined function. You can assign different functions on F buttons in the normal and CDL modes respectively.	
8	MENU button	Opens/closes the OSD menu, or moves up one level in a menu.	
	Jog dial	Moves the selection frame within the OSD menu, changes the settings (up/down, left/right, rotation) and determines (press) the selection.	
	RESET button	Resets the items to be adjusted using the slider and entered characters.	2 2
9	(Power) button	Turns power On/Off.	2 1
10	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)" (70). Even when the power indicator is "Off", it will flash during firmware update, or when an error is detected. Off: when power supply is not connected Green lit: when a power supply is connected and the power of the video display is on Green flash: during calibration or firmware update Amber lit: during standby (a power supply is connected and the power of the video display is off) Amber flash: when error is detected	_

■ Back face of the main unit



(1)	HDMI input terminal	Used to input HDMI signals.	2 0
12)	LAN (10/100 BASE) terminal	Connection for a Display Controller CL-01 (separately sold) or other equipment.	-
13	3G/HD-SDI output terminal	Pass through output corresponding to 3G/HD-SDI input terminal.	_
14	3G/HD-SDI input terminal	Used to input SDI signals.	1 9
15	Cord clamp mounting hole	For installing the AC power cord clamp (Included)	<u></u> 21
16	AC power input terminal	Connection for the provided AC power supply cord.	2 1

■ Side face of the main unit



17)	Carrying handle	Used to install, connect, or carry the unit.	1 5	
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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.

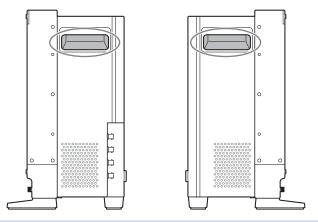
Note

- Both FAT16 and FAT32 USB memory devices are supported.
- Proper operation cannot be guaranteed for all USB memories.
- 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.

Installation/Connection

How to Carry the Main Unit

When lifting the video display, please use the carrying handles on the display's sides.



CAUTION

- When unpacking, carrying, installing, or connecting the main unit, please note that at least two people are required.
- When carrying the video display, handle it carefully not to touch or damage the screen.

Procedures to attach the protection panel

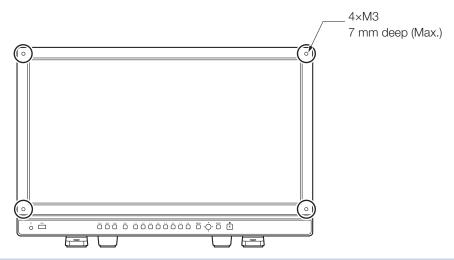
You can attach the protection panel to protect the screen when carrying the video display or when using it outdoors.

- 1. Unscrew the four screws on the front face.
 - Use a 1.5 mm hexagonal key.

Do not lose the removed screws. Do not use these screws for other purposes.

2. Place the protection panel by aligning its corners with the screw holes. (277).

Take care when attaching the panel in order to avoid damaging it.



CAUTION

• Avoid touching the screen during this step as it may damage it.

Procedures to attach/detach stands

The main unit comes with two stands which can be detached. The position where the front stand is attached can be changed.

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.

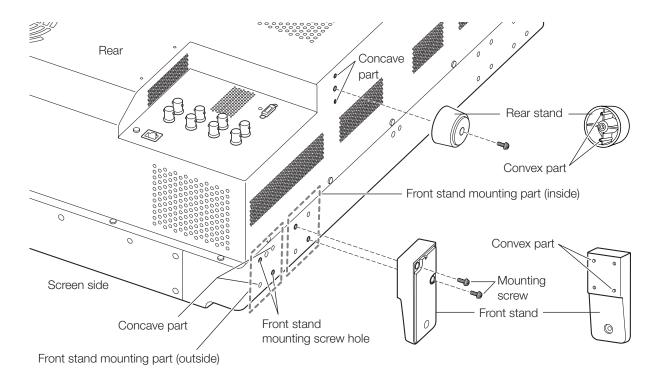
Detaching

- 1. Place the display with the screen facing down on a soft cloth or cushioning material that is larger than the display.
- 2. Front stand: Remove the mounting screws (two each) from the left and right stands. Rear stand: Remove the mounting screws (one each) 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.

 Alight the convex part of the stand and concave part of the video display.
- 3. Front stand: Fix the left and right stands using the mounting screws (two each). Rear stand: Fix the left and right stands using the mounting screws (one each).



Note

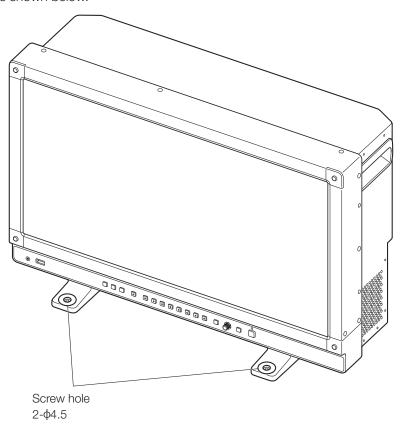
• It is recommended to mount both front stands in either the outside or inside positions.

Preventing from Tipping

Fixing the video display using screw holes on the stands can reduce the risk of the main unit tipping over or falling.

1. Use screws that fit the screw holes.

The screw hole size is shown below.



CAUTION

- When securing the main unit to a table or desk, please ensure a 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.

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 (116).

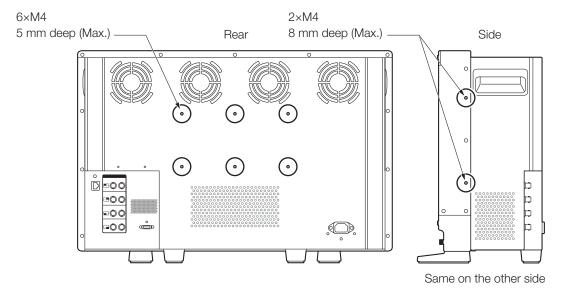
* Commercially available.

CAUTION

- For safety, make sure to perform this step with at least two people.
- 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 a space of at least 1U (4.4 cm) above and below and at least 4 cm (1.6 in.) space from its back. Make a 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.
- Avoid touching the screen during this step as it may damage it.
- Make sure that the main unit does not fall during installation/removal.

1. Attach a commercially available stand or wall mount bracket using the screw holes on the back or side face of the main unit (277).

The screw hole size is shown below.



Connecting the Main Unit to Input Devices

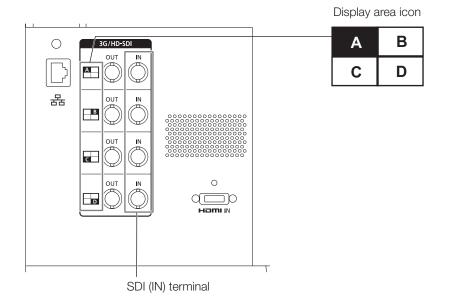
The video display has 3G/HD-SDI and HDMI input terminals to connect input devices.

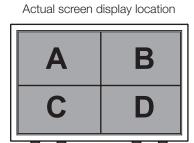
CAUTION

• Check that the power of the video display and input devices is switched off before connecting.

■ SDI input signals

Refer to the 3G/HD-SDI input terminals diagram when connecting to the desired input signal. (A, B, C, D)





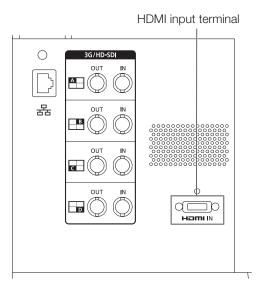
		Input signal	Input terminal	
Quad Link	3G-SDI	Top left, Mapping signal	Input A	
(Square Division)		Top right, Mapping signal	Input B	
		Bottom left, Mapping signal	Input C	
		Bottom right, Mapping signal	Input D	Cincila insult avatana
Quad Link*		Link 1	Input A	Single input system
(2 Sample Interleave)		Link 2	Input B	
		Link 3	Input C	
		Link 4	Input D	
Quad Link	HD-SDI	Link 1	Input A	Ois de instala
		Link 2	Input B	
		Link 3	Input C	Single input system
		Link 4	Input D	
Dual Link*	3G-SDI	Link 1	Input A	
(2 Sample Interleave, Dual Link 3G-SDI)		Link 2	Input B	Max. two input
		Link 1	Input C	systems
		Link 2	Input D	
Single Link	3G/HD/SD-SDI	_	Input A/Input B/ Input C/Input D	Max. four input systems

^{*} The signals are automatically switched when "Image Division" is set to "Automatic".

i Reference

- The connection is tested using Canare Corp. BNC cable (multi) 4VS03A-5C.
- When 3G-SDI RAW signal frequency exceeds 30.00P, it becomes a dual connection.
- Each terminal is compatible with 3G-SDI RAW through output. Even during full-screen display, when a signal is input from SDI terminal A's IN terminal, you can connect the cable to SDI terminal A's OUT terminal.

■ 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 a video becomes choppy or nothing is displayed.

Turning on the Power

This section describes how to turn on the power of the main unit.

Turning on the Power of the Main Unit

- 1. 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.
- 2. Press the power supply button 1 at the front.

The power indicator lights green.

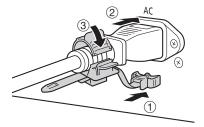


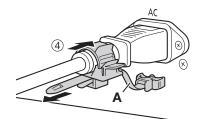
 Warming-up is necessary to stabilize the brightness of the video display. Wait at least 10 minutes after turning on the power before using.

Installing the AC power cord clamp HC-01 (Included)

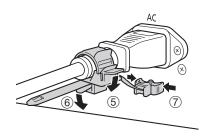
Install the AC power cord clamp before connecting the AC power cord to the main unit.

- 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).
- **4.** Press the holder against the main unit (④). Make sure that there is no slack (**A**).





- To remove the AC power cord clamp from the AC power cord: Pull the holder lever (5).
- To adjust the length: Push the holder lock lever down (6).
- To remove the AC power cord clamp from the main unit: Press the knobs on the left and right and pull out the clamp (⑦).

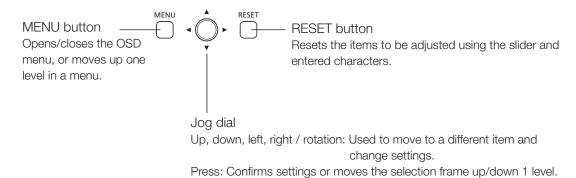


Operating the Video Display

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 the frequently used functions to the CH and F buttons.

Operating the jog dial

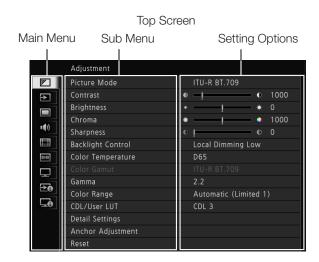
The procedures to operate the jog dial are described below.



Basic operations to use the OSD menu

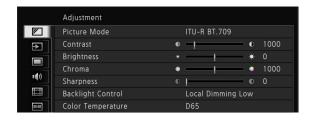
This section describes basic operations to use the OSD menu.

1. Press the MENU button to open the OSD menu.



2. Select an item using the jog dial and press it to determine the selection.

The selection frame moves to sub menu.



3. Select an item using the jog dial and press it to determine the selection.

The selection frame moves to setting options.

4. Select the setting using the jog dial.

Settings change according to the operation of the jog dial.

5. Press the jog dial to determine the selection.

The selection frame returns to sub menu.

6. Exit menu.

When you press the MENU button, the selection frame moves up one menu level. Move the selection frame all the way to the main menu on the top screen and then press the MENU button to exit the menu.

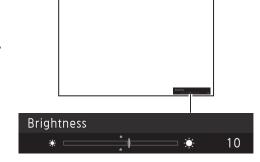
Note

- Press the RESET button to return "Contrast", "Brightness", "Chroma", "Sharpness", "Power", "Saturation", "Offset", and "Slope" to the factory default during adjustment. In "User 1-7" mode where you are performing calibration, the setting returns to the value after calibration instead of the factory default.
- 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 using.
- 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.

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.

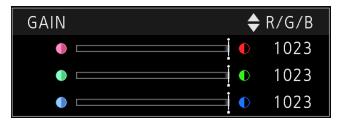


■ Adjusting "Gain R/G/B, Bias R/G/B" under "Color Temperature"

You can adjust RGB all at once or individually when the slider for adjusting "Gain R/G/B" and "Bias R/G/B" are displayed.

- 1. 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".
- 2. When adjustments are completed, press the jog dial.

The screen returns to the original OSD menu.

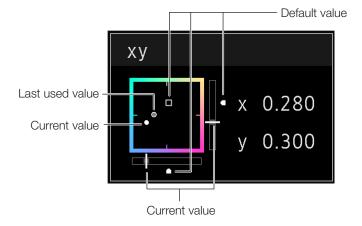


■ Adjusting "x, y" under "Color Temperature"

You can adjust "x, y" in "Color Temperature" on the color map.

- Adjust "x" with the ◀▶ and "y" with ▲▼.
 The adjusted value is indicated by the "○" mark on the color map.
- 2. When adjustments are completed, press the jog dial.

The screen returns to the original OSD menu.

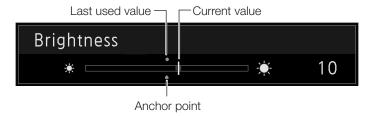


Temporarily Saving Parameters (Anchor Point Setting)

You can temporarily save parameters for "Contrast", "Brightness", "Chroma", and "Sharpness" and recover the values. See 44 for setting anchor points during CDL adjustment.

- 1. Press the MENU button to open the OSD menu.
- 2. Select "Adjustment" using the jog dial and press the dial to determine the selection. The selection frame moves to sub menu.
- 3. Select "Anchor Adjustment" using the jog dial and press the dial to determine the selection.

 When the confirmation screen appears, select "OK". The parameter is saved and sets anchor point.
- **4.** Adjust the image quality again and press the RESET button on the video display. Press the RESET button to return to each saved anchor point.



Note

- Executing "Reset" under "Adjustment" or "Reset All Settings" under "System Settings" resets saved anchor points and the settings return to their factory default values.
- When calibration is performed in "User 1-7" under "Picture Mode", the values are saved as anchor points.

Enlarging the display (Zoom function) (1153)

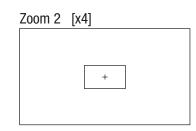
The zoom display position can be adjusted, and the zoom magnification (2x, 4x, 8x) can be selected.

- 1. Press the MENU button to open the OSD menu.
- 2. Select "Display Settings" → "Zoom" using the jog dial.
- 3. Select "Zoom Preset" using the jog dial. Select a preset zoom display.
- 4. 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.
- 5. When adjustments are completed, press the jog dial.

The screen returns to the original OSD menu.



Note

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

Adjusting image quality for each screen in two screen display (49)

In Multi View (Dual) display, image quality settings can be changed on both displayed screens.

- 1. Press the MENU button to open the OSD menu.
- 2. Select "Channel Settings" \rightarrow "Select Input Signal" using the jog dial.

Select "Dual Input A,B" or "Dual Input C,D", and then press the jog dial to confirm the setting.



- 3. Select "Channel Settings" → "Image Division" using the jog dial.
 - Select "Multi View (Dual)", and then press the jog dial to confirm the setting. The screen changes to two screen display.
 - When selecting "Adjustment" menu, the currently selected screen is identified by L or R (Left or Right) being displayed on the OSD menu screen.
 - Select the screen for setting "Picture Mode". ("Channel Settings" → "Picture Mode" or "Picture Mode R" ☐ 50)
 Select "Picture Mode" in the screen on the left: Picture Mode
 Select "Picture Mode" in the screen on the right: Picture Mode R
- 4. Adjusting the image quality.
- 5. When adjustments are completed, press the jog dial.

The screen returns to the original OSD menu.

Switching the target screen

- When the OSD menu is open:
 - In the "Adjustment" main menu, press the jog dial's ◀ button.
 - In the "Adjustment" main or sub menu, press the CH1 button.
- When the OSD menu is not being displayed: Move the jog dial (◀▶).



• In the "Multi View (Dual)" display, the HDR (High Dynamic Range) and SDR (Standard Dynamic Range) displays can be tested side by side. ("Adjustment" → "Detail Settings" → "HDR/SDR View" □ 46)

Calibration without a PC (446)

When "User 1-7" under "Picture Mode" is selected, you can perform calibration using an external sensor, without using the computer.

The supported external sensors are Konika 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. Open the OSD menu and select "Adjustment" → "Detail Settings" → "Calibration". Set each target value.

3. Press the jog dial and select "Start".

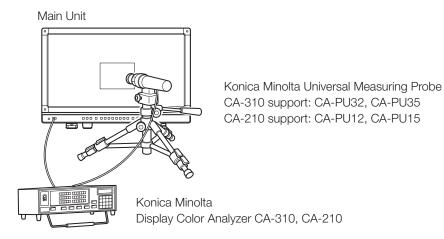
Please follow the information indicated on the screen.

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. (

 95)
- To cancel calibration

 Press the jog dial during calibration and select "Cancel". The main unit returns to the state before calibration.

Note

- Due to the characteristic of LCD panel and individual difference of CA-310 and CA-210, the calibration results may differ.
- 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 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.

Export/Import

You can export/import LUT and CDL parameters as well as main menu settings. Insert a USB memory stick into the USB port of the main unit.

■ LUT Import (□ 45)

LUT can be imported except when "ACESproxy" is selected for "Picture Mode" or "ACESproxy" is selected for "Color Gamut".

- 1. Press the MENU button to open the OSD menu.
- 2. Select "Adjustment" → "Detail Settings" → "LUT Import" using the jog dial.
- 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.

Selects User LUT 1-8/Gamma LUT 1-8/Gamut LUT 1-8.

6. Select the standard color gamut using the jog dial.

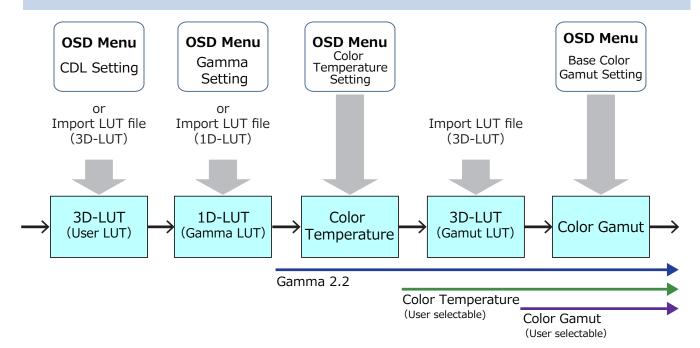
Select the color gamut used when creating the LUT (when "Gamut LUT" under "LUT Type" is selected).

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.
- Up to 1000 LUT import files are recognized.
- You can delete the imported LUT. You can specify the name of LUT (45).



Concept Drawing of Display Image Processing and LUT

- Export/Import Main Menu Settings (□ 71)
- 1. Press the MENU button to open the OSD menu.
- 2. Select "System Settings" → "Export/Import".
- 3. Select "Export" or "Import" using the jog dial.

Exporting

- Select "Target" from "USB" or "User 1-3".

Export "USB" to the USB memory and "User 1-3" to the built-in memory of the main unit.

- Select "Filename".

Factory default is "dinfo_dpv2420.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.

- Select "Execute".

When the confirmation screen appears, select "OK". Export starts.

Importing

- Select "Target" from "USB" or "User 1-3".

Specify the destination to save the file to be imported.

- Select "Filename".
- In "Settings", select "All" or Main Menu name.
- Select "Execute".

When the confirmation screen appears, select "OK". Import starts.

Note

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

- Exporting/Importing CDL Parameters (□ 44)
- 1. Press the MENU button to open the OSD menu.
- 2. Select "Adjustment" \rightarrow "CDL/User LUT" \rightarrow "Type" using the jog dial. Select "CDL".
- 3. Select "Detail Settings" → "CDL Export" or "CDL Import".

Exporting

- Select "CDL Preset".
- Select a file format ".ccc" or ".cdl".
- Select "Execute".

When the confirmation screen appears, select "OK". Export starts.

Importing

- Select "Filename".
- Select "CDL Preset".
- Select "Execute".

When the confirmation screen appears, select "OK". 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 (69)

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

- 1. Press the MENU button to open the OSD menu.
- 2. Select "System Settings"→"Date/Time".

A screen to input the Date/Time appears.

3. 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.

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.

i 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.

🖵 Display Name

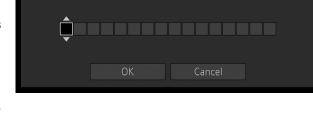
- 1. Press the MENU button to open the OSD menu.
- 2. The character input screen appears automatically when character input is required.

Move the selection frame to the location to enter characters using the jog dial $(\blacktriangleleft \blacktriangleright)$.

3. 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.

- 4. Repeat steps 2 and 3 until the desired text has been inputted.
- 5. Press the jog dial when you are finished.

The selection frame moves to "OK".

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

i 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 the 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.

- 1. Press the MENU button to open the OSD menu.
- 2. Select "System Settings" → "Function/Channel Button" → "Display Function" or "Display Function (CDL)" and press the jog dial to determine the selection.

A new window opens and displays button names F1 to F8.

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

The selection frame moves to next OSD menu level.

4. Select the function to assign using the jog dial.

See "Display Function" or "Display Function (CDL)" (69, 72) for the available functions.

5. Press the jog dial to determine the selection.

The setting is confirmed.

i Reference

• Select "Function Settings" → "Various Function" and set "Function Guide" to "On". Then, you can check the list of functions assigned to F buttons on the video display by pressing the jog dial while OSD is not displayed (☐ 66).

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. Press the MENU button to open the OSD menu.
- 2. Select "System Settings" \rightarrow "Function/Channel Button" \rightarrow "Display Channel" and press the jog dial to determine the selection.

A new window opens and displays button names CH1 to CH3.

3. Select the name of the button using the jog dial and press the jog dial to determine the selection. The selection frame moves to next OSD menu level.

4. Select the channel to assign using the jog dial.

See "Channel Settings" (449) for the configurable settings.

5. Press the jog dial to determine the selection.

The setting is confirmed.

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

СН	CH1	CH2	CH3
Input Configuration	3G/HD-SDI	HDMI	3G-SDI RAW
Select Input Signal	Automatic	Automatic	Automatic
Image Division	Automatic	Automatic	Automatic
Format	Automatic	Automatic	Automatic
Internal Sync	Off	Off	Off
Channel Name	(Blank)	(Blank)	(Blank)
Picture Mode	ITU-R BT.709	ITU-R BT.709	Canon Log
Picture Mode R	ITU-R BT.709	ITU-R BT.709	Canon Log
Audio Input	Input A	Input A	Input A
Marker/TC/WFM/VEC Input	Input A	Input A	Input A
Picture Function Target	Left and Right	Left and Right	Left and Right
Separator	Off	Off	Off

Checking Signal Information and Status of the Main Unit

The video display is equipped with a banner function which displays signal information or the status of the main unit.

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

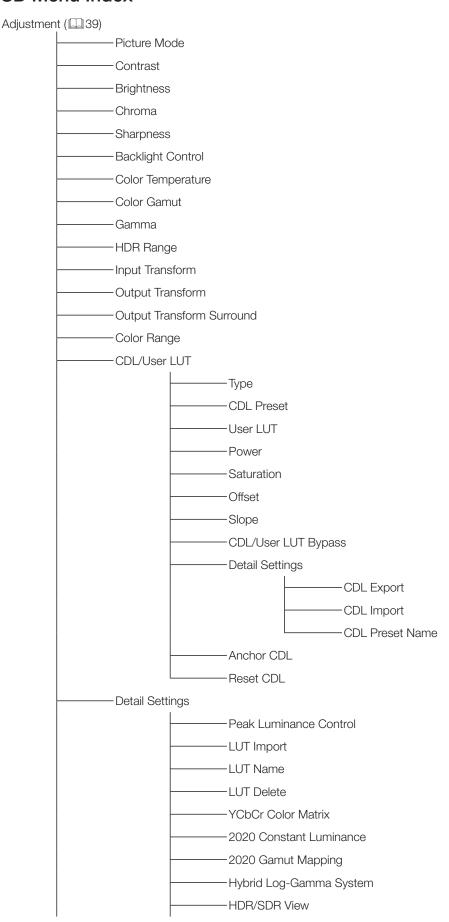
The channel name, signal information, and status of the main unit will be displayed in the banner. It will automatically disappear after 6 seconds.

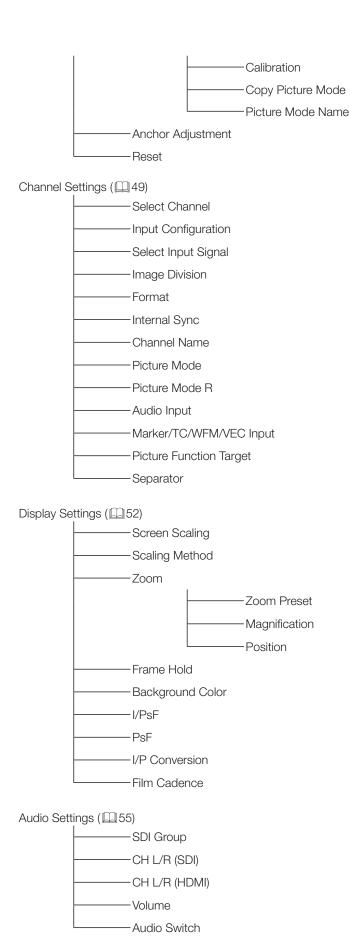


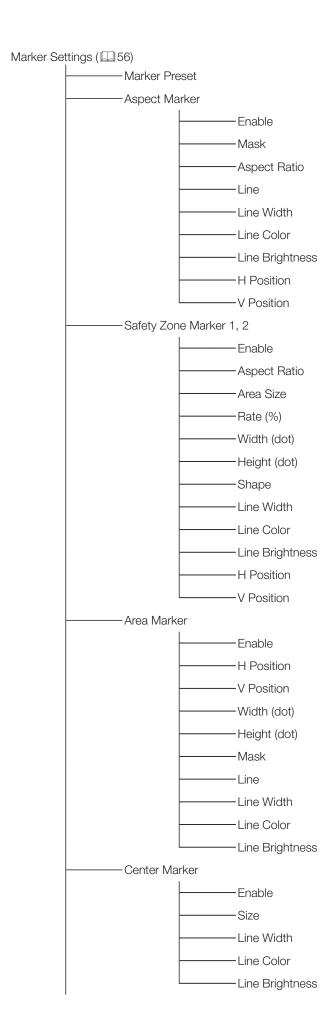
- The "Detecting sync." banner will continue to appear until the input signal is synchronized.

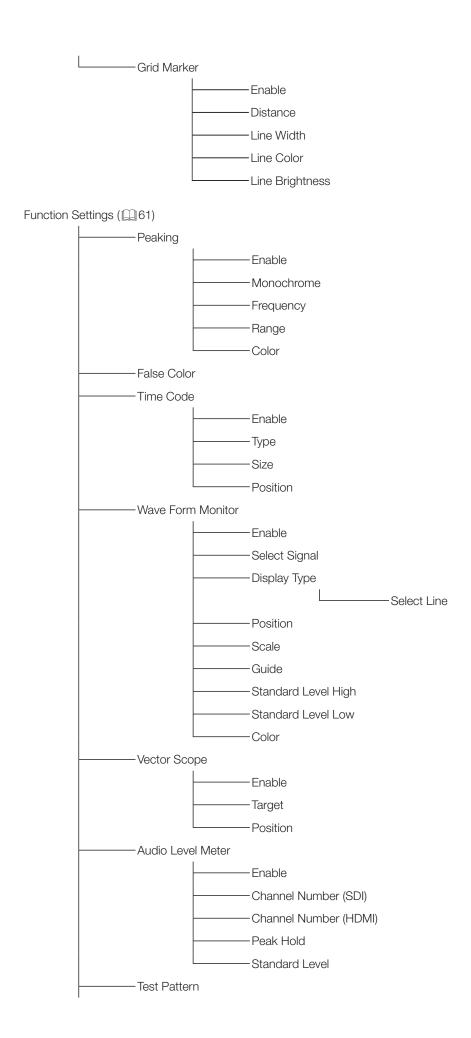
OSD Menu

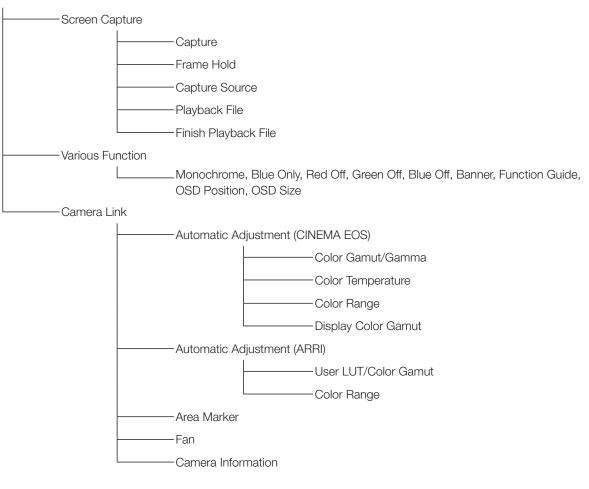
OSD Menu Index



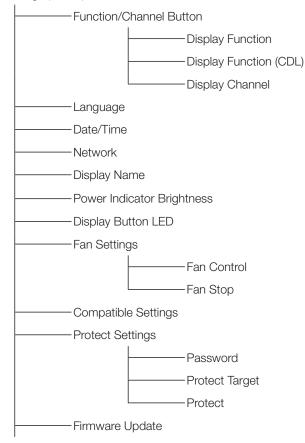


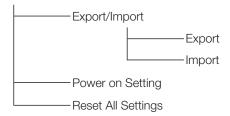






System Settings (49)





Signal Information (74)

System Information (74)

Adjustment

This menu is used to adjust the image quality and perform calibration without a PC.

Item	Setting Options (underline indicates factory default)
Picture Mode	Select a preset mode. See 47, 48 for each setting. 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: Custom modes. Set each item of "Adjustment". You can change the mode name within 16 one-byte characters including alphabetical characters, numbers, and symbols. Canon Log: Canon Log is ideal when viewing image captured with CINEMA EOS camera/video camera. Displays Canon Log video without having to import Viewing LUT. ACESproxy: A mode to display ACESproxy videos in optimum gamma and color gamut.
Contrast	Adjusts the white level of the image. (Increments of 1) 0 to 6000 ❖ When "Peak Luminance Control" in "Detail Settings" is set to "On", the settable range is shown below. When "Peak Luminance Control" is "On", "Contrast [Peak Control]" is displayed. 0 to 12000 Note • In Multi View (Dual) display, when right screen is selected as the target screen, it is not possible
	to adjust the Contrast after selecting Picture Mode. The Contrast value is same on both screens.
Brightness	Adjusts the black level of the image. (Increments of 1) -500 to 500
Chroma	Adjusts the color saturation of the image (color depth). (Increments of 1) 0 to 2000 Note • You cannot adjust when "User LUT" in "CDL/User LUT" is selected.
Sharpness	Adjusts the sharpness of the image. (Increments of 1) 0 to 100
Backlight Control	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. Off: No backlight dimming is applied.
	 Note When "Peak Luminance Control" is set to "On", you cannot select "Backlight Control". In Multi View (Dual) display, when right screen is selected as the target screen, it is not possible to set Backlight control after selecting Picture Mode. The Backlight control setting is same on both screens.

Item	Setting Options (unde	rline indicates factory default)			
Color Temperature	Sets the color temperature. D93, D65, D61, D60, D56, D50, DCI-P3: Select from preset color temperatures. Gain R/G/B, Bias R/G/B: Can be adjusted in increments of 1 when a preset color temperature is selected. Gain R/G/B: 0 to 1023 Bias R/G/B: -500 to 500 Custom (xy): You can adjust CIE x, y in increments of 0.001. x: 0.260 to 0.360 y: 0.260 to 0.360 Off: Color temperature is not set.				
	Note				
	"Custom (xy)" and "Gain R/G/B" or "Bias F	R/G/B" cannot be selected at the same time.			
	When "Gain R/G/B" or "Bias R/G/B" value temperature preset mode.	is adjusted, an asterisk "*" is displayed by color			
	The displayed color coordinates (x, y) are j	ust a guide and not guaranteed absolute values.			
	Color gamut can be selected when "User 1-7" or "Canon Log" is selected for "Picture Mode". SMPTE-C, EBU, ITU-R BT.709, ITU-R BT.2020, Adobe RGB, DCI-P3: Color gamut compliar 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, DCI-P3 to 709, ITU-R BT.2020 to 709: Modes where the color gamut is converted to monitor Cinema Gamut, DCI-P3+, BT.2020, and DCI-P3 videos recorded by the CINEMA EOS C500/C500PL and C300 Mark II. ACESproxy: Displays the color gamut of ACESproxy (when "Canon Log" is selected). Gamut LUT 1 to Gamut LUT 8: Selects an external LUT. Note • For checking the video captured with Cinema EOS cameras, please refer to the "Parameter Cinema EOS cameras and DP-V2420 (67)" in "Adjustment". • When "ITU-R BT.2020", "Cinema Gamut to 709", "Cinema Gamut to 2020", "Cinema Gamut to DCI", "DCI-P3+ to 709", "DCI-P3+ to DCI", "DCI-P3 to 709", or "ITU-R BT.2020 to 709" is selected, the DP-V2420 displays images after converting the color gamut as shown below. Data outside of the color gamut after conversion is also displayed at the optimum level.				
	Input video color gamut	Color gamut after conversion			
		on the DP-V2420 Native			
	Cinema Gamut to 709	ITU-R BT.709			
	-				
	Cinema Gamut to 2020	Native			
	Cinema Gamut to DCI	DCI-P3			
	DCI-P3+ to 709	ITU-R BT.709			
	DCI-P3+ to DCI	DCI-P3			
	DCI-P3 to 709	ITU-R BT.709			
	ITU-R BT.2020 to 709	ITU-R BT.709			
	 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" and is fixed to "ITU-R BT.2020". 				

Item	Setting Options (underline indicates factory default)
Gamma	Sets the Gamma. 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, Hybrid Log-Gamma Y, Hybrid Log-Gamma RGB: Select the gamma for HDR display. Gamma LUT 1 to Gamma LUT 8: Selects an external LUT. Off: Gamma is not set.
	Note
	 For checking the captured video with Cinema EOS cameras and ARRI cinema cameras, please refer to "Camera Link" → "Automatic Adjustment" (☐67).

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, 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, Gamma LUT 1 to Gamma LUT 8
ITU-R BT.709,		Off, 1.0, <u>2.2</u> , 2.35, 2.4, 2.6, ITU-R BT.1886, Canon Log, Canon Log (HDR), Canon
ITU-R BT.2020		Log 2, Canon Log 2 (HDR), Canon Log 3, Canon Log 3 (HDR), SMPTE ST 2084, Hybrid Log-Gamma Y, Hybrid Log-Gamma RGB, 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, Gamma LUT 1 to Gamma LUT 8
Canon Log,	SMPTE-C	Off, 1.0, <u>2.2</u> , 2.35, 2.4, 2.6, ITU-R BT.1886, Canon Log, Canon Log (HDR),
User 1-7		SMPTE ST 2084, 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, Gamma LUT 1 to Gamma LUT 8
	ITU-R BT.709,	Off, 1.0, <u>2.2</u> , 2.35, 2.4, 2.6, ITU-R BT.1886, Canon Log, Canon Log (HDR), Canon
	ITU-R BT.2020	Log 2, Canon Log 2 (HDR), Canon Log 3, Canon Log 3 (HDR), SMPTE ST 2084,
		Hybrid Log-Gamma Y, Hybrid Log-Gamma RGB, Gamma LUT 1 to Gamma LUT 8
	Adobe RGB	Off, 1.0, 2.2, 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, 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, Gamma LUT 1 to Gamma LUT 8
	Cinema Gamut to 709,	Canon Log, Canon Log (HDR), Canon Log 2, Canon Log 2 (HDR), Canon Log 3,
	Cinema Gamut to DCI	Canon Log 3 (HDR)
	Cinema Gamut to 2020	Canon Log, Canon Log (HDR), <u>Canon Log 2</u> , Canon Log 2 (HDR), Canon Log 3, Canon Log 3 (HDR)
	DCI-P3 to 709,	Canon Log 2, Canon Log 3
	ITU-R BT.2020 to 709	
	DCI-P3+ to 709,	Canon Log, Canon Log (HDR)
	DCI-P3+ to DCI	
	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

Item	Setting Options (underline indicates factory default)
HDR Range	Sets the display method when Gamma for HDR display is selected. Canon Log (HDR): Sets the "Canon Log" dynamic range to be displayed, from 0 to 800%. (in 100 increments)
	100 to 800 Canon Log 2 (HDR): Sets the "Canon Log 2" dynamic range to be displayed, from 0 to 1600%. (in 100 increments)
	100 to 1600 Canon Log 3 (HDR): Sets the "Canon Log 3" dynamic range to be displayed, from 0 to 1600%. (in 100 increments)
	100 to 1600 SMPTE ST 2084: Sets the "SMPTE ST 2084" dynamic range to be displayed, from 0.005 to 10,000 nit. (in 100 increments)
	100 to 10000 (1000)
	Hybrid Log-Gamma Y/RGB: Sets how far to display the "Hybrid Log-Gamma" dynamic range. (100 to 1000 in increments of 100)
	The upper limit value will change to match the settings of "Hybrid Log-Gamma System". (445) Hybrid Log-Gamma Y: 100 to 1000/2000/4000
	Hybrid Log-Gamma RGB: 100 to 1000/2000
	❖ Setting procedures The procedures below use Canon Log 2 (HDR) as an example. When the maximum value (1600) is specified, the 1600% dynamic range of Canon Log 2 is assigned to the dynamic range of the video display. Although the brightness in appearance lowers, you can check the dynamic range included in video signals. When "1200" is specified, the part exceeding 1200% of Canon Log 2 is clipped (gradation is saturated) and the part up to 1200% is assigned to the dynamic range of the video display. The brightness of the video display corresponds to the value set for Contrast.
	Conon Log 2 16000/, pignal
	Canon Log 2 1600% signal (Contrast: "12000")
	Canon Log 2 (HDR): Set to "1600" Canon Log 2 (HDR): Set to "1200"
	Canon Log 2 DP-V2420 Canon Log 2 DP-V2420 range range range
	Gradation is reproduced by assigning the range to the range of the DP-V2420 (which lowers the brightness). Clip (Saturates gradation.) 1200% Brightness value corresponding to the contrast setting

Item	Setting (Options (underline indicates facto	ory default)		
Input Transform	Mode" is set to "Canon Log" and is selected for "Picture Mode".	Automatic: Applied automatically.			
Output Transform	and "ACESproxy" is selected for Mode".	This is displayed instead of Gamma and Color Gamut when "Picture Mode" is set to "Canon Log" and "ACESproxy" is selected for "Color Gamut" or when "ACESproxy" is selected for "Picture Mode". ITU-R BT.709, ITU-R BT.2020, DCI-P3: ACESproxy is converted into respective mode.			
Output Transform Surround	Log" and "ACESproxy" is selected Mode". Dim Surround: Enables Dim Su	This is displayed instead of "Gamma" and "Color Gamut" when "Picture Mode" is set to "Canon Log" and "ACESproxy" is selected for "Color Gamut" or when "ACESproxy" is selected for "Picture Mode". Dim Surround: Enables Dim Surround process specified by ACESproxy. Dark Surround: Enables Dark Surround process specified by ACESproxy.			
Color Range	Full (0-255): Sets to Black level: Limited 1 (16-235): Limits the believel: White level: White level: White level: White level: White level: White level: Whote Setting is disabled when "Additional selected for "Color Gamut". Operations when "Automati - When HDMI is selected," on HDMI signal informational selected.	Sets the quantization range. Automatic: Sets the range based on signal information automatically. Full (0-255): Sets to Black level: 0; White level: 1023 (10-bit)/4095 (12-bit). Limited 1 (16-235): Limits the black and white range. Black level: 64 (10-bit)/256 (12-bit) White level: 940 (10-bit)/3760 (12-bit) Limited 2 (16-255): Limits the black range. Black level: 64 (10-bit)/256 (12-bit) White level: 1023 (10-bit)/4095 (12-bit) Note Setting is disabled when "ACESproxy" is selected for "Picture Mode" or "ACESproxy" is			
		Setting Options	Color Range to be Set		
	Picture Mode	DCI-P3			
	Color Gamut	DCI-P3, Cinema Gamut to DCI, DCI-P3+ to DCI	Full (0-255)		
	Gamma	Canon Log (HDR), Canon Log 2 (HDR), Canon Log 3 (HDR), SMPTE ST 2084	. 3 (0 200)		
		Canon Log, Canon Log 2, Canon Log 3	Limited 2 (16-255)		
	Other than the above		Limited 1 (16-235)		

Item	Setting Options (underline indicates factory default)
CDL/User LUT	Configures settings for CDL or User LUT.
	Type (CDL, User LUT, Off): Select the type.
	■ When "CDL" is selected
	CDL Preset: Select "CDL Preset."
	CDL 1 to CDL 15
	Power: Adjusts the Gamma of the image. (0.01 increments)
	0.50 to 4.00 (1.00)
	Saturation: Adjusts the color saturation of the image. (0.001 increments) 0.000 to 2.000 (1.000)
	Offset: Adjusts the black level of the image. (0.001 increments)
	-1.000 to 1.000 (<u>0.000</u>)
	Slope: Adjusts the white level of the image. (0.001 increments)
	0.000 to 2.000 (<u>1.000</u>)
	CDL/User LUT Bypass: When set to "On", you can temporarily disable the CDL adjustment result
	and return to previously set image quality. On, Off
	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 "User LUT" is selected
	User LUT: Sets preset of the User LUT or the LUT for ARRI cinema cameras.
	User LUT 1 to User LUT 8, ARRI LUT 709, ARRI LUT 2020
	CDL/User LUT Bypass: When set to "On", you can return to the image quality before user LUT
	was applied.
	On, <u>Off</u>
	Note
	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 to User 7".
	• "ARRI LUT 2020" can be selected when "Picture Mode" is set to "ITU-R BT.2020" or "User 1 to User 7".

Item	Setting Options (underline indicates factory default)
ail Settings	Sets details for Picture Mode.
Peak Luminance Control	Controls the display luminance according to the brightness of the input image. On, Off
	When this is set to "On", the F button assigned with the "Peak Luminance Control" function flashes when display luminance is restricted.
	In Multi View (Dual) display, when right screen is selected as the target screen, it is not possible to adjust the Peak Luminance Control after selecting Picture Mode. The Peak Luminance Control value is same on both screens.
LUT Import	LUT can be imported except when "ACESproxy" is selected for "Picture Mode" or "ACESproxy" is selected for "Color Gamut". 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: Selects User LUT 1-8/Gamma LUT 1-8/Gamut LUT 1-8.
	Base Color Gamut (SMPTE-C, EBU, <u>ITU-R BT.709</u> , Adobe RGB, DCI-P3, Native): Selects the color gamut used when creating the LUT (when "Gamut LUT" under "LUT Type" is selected). 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: Selects 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: Selects User LUT 1-8/Gamma LUT 1-8/Gamut LUT 1-8. Delete: Deletes LUT.
YCbCr Color Matrix	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	Sets the color matrix conversion method to be used when "ITU-R BT.2020" is selected for "Picture Mode". 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.
	SD-SDI is fixed to "Non-constant Luminance".
2020 Gamut Mapping	Set this item when "ITU-R BT.2020" is selected for "Picture Mode" or when "User 1-7" or "Canon Log" is selected for "Picture Mode" and also "ITU-R BT.2020" is selected for "Color Gamut". 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	Sets the peak brightness when selecting "Hybrid Log-Gamma Y" or "Hybrid Log-Gamma RGB" in "Gamma".
	The maximum value for each setting becomes the upper limit value of "HDR Range".
	When "Hybrid Log-Gamma Y" is selected
	<u>γ1.2 - 1000 cd/m²</u> , γ1.325 - 2000 cd/m², γ1.45 - 4000 cd/m²
	When "Hybrid Log-Gamma RGB" is selected
	<u>γ1.2 - 1000 cd/m²</u> , γ1.2 - 2000 cd/m²

	Item	Setting Options (underline indicates factory default)
	HDR/SDR View	In the "Multi View (Dual)" display, 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.
		Note
		 You cannot set this when the "Picture Mode" or "Peak Luminance Control" for the right screen is set to "On".
		 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.
	Calibration	Performs calibration based on set target values when "User 1-7" is selected for "Picture Mode". Can be run in the picture mode of the left screen in the "Multi View (Dual)" display. Luminance : Sets the target luminance. 48 to 500 (100) cd/m ²
		Color Temperature: Sets the target color temperature. D93, D65, D61, D60, D56, D50, DCI-P3: Select from preset color temperatures. Custom (xy): You can adjust CIE x, y in increments of 0.001. x: 0.260 to 0.360 (0.313)/y: 0.260 to 0.360 (0.329)
		Color Gamut: Sets the color gamut. SMPTE-C, EBU, ITU-R BT.709, ITU-R BT.2020, Adobe RGB, DCI-P3
		Gamma: Sets the target gamma. 2.2, 2.35, 2.4, 2.6, ITU-R BT.1886 Start: Performes calibration.
		Note
		 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.
		Cannot be run in the picture mode of the right screen in the "Multi View (Dual)" display.
	Copy Picture Mode	When "User 1-7" is selected for "Picture Mode", the content of the selected picture mode is copied. The following modes can be selected: Picture Mode: SMPTE-C, EBU, ITU-R BT.709, ITU-R BT.2020, Adobe RGB, DCI-P3, User 1-7 (other than the currently set parameter) Execute: Performs copy.
		 In a picture mode other than "User 1-7", the results of calibration performed at the factory are copied.
	Picture Mode Name	You can change the name of "User 1-7" within 16 characters including alphabetical characters, numbers, and symbols.
Anchor	Adjustment	Temporarily saves parameters for adjusting "Contrast", "Brightness", "Chroma", and "Sharpness" and recover the values (anchor point setting). OK: Performs anchor point setting. Cancel: Returns to the previous screen without setting anchor point.
Reset		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.

The factory default settings for each "Picture Mode" is as follows:

Item		SMPTE-C	EBU	ITU-R BT. 709	ITU-R BT.2020	Adobe RGB
Contrast		1000	1000	1000	1000	1000
Brightness		0	0	0	0	0
Chroma		1000	1000	1000	1000	1000
Sharpness		0	0	0	0	0
Local Dimmin	ng	Low	Low	Low	Low	Low
Color	Preset	D65	D65	D65	D65	D65
Temperature	×	0.313	0.313	0.313	0.313	0.313
	у	0.329	0.329	0.329	0.329	0.329
	Gain R/G/B	1023	1023	1023	1023	1023
	Bias R/G/B	0	0	0	0	0
Gamma		2.2	2.35	2.2	2.2	2.2
Color Gamut		SMPTE-C	EBU	ITU-R BT.709	ITU-R BT.2020	Adobe RGB
Color Range		Automatic	Automatic	Automatic	Automatic	Automatic
Input Transfor	rm	-	-	-	-	-
Output Transf	form	_	_	_	_	_
Output Transform Surround		_	_	_	-	-
CDL Preset		CDL 1	CDL 2	CDL 3	CDL 4	CDL 5
User LUT		User LUT 1				
Peak Lumina	nce Control	Off	Off	Off	Off	Off
YCbCr Color Matrix		Automatic	Automatic	Automatic	Automatic	Automatic
2020 Constant Luminance		Non-constant Luminance	Non-constant Luminance	Non-constant Luminance	Non-constant Luminance	Non-constant Luminance
2020 Gamut Mapping		Gamut Mapping				
Hybrid Log-Gamma System		γ1.2 - 1000 cd/m²				
HDR/SDR View		Off	Off	Off	Off	Off

Item		DCI-P3	User 1-7	Canon Log	ACESproxy
Contrast		480	1000	1000	480
Brightness		0	0	0	0
Chroma		1000	1000	1000	1000
Sharpness		0	0	0	0
Local Dimmin	g	Low	Low	Low	Low
Color	Preset	DCI-P3	D65	D65	D60
Temperature	×	0.314	0.313	0.313	0.322
	У	0.351	0.329	0.329	0.338
	Gain R/G/B	1023	1023	1023	1023
	Bias R/G/B	0	0	0	0
Gamma		2.6	2.2	Canon Log	-
Color Gamut		DCI-P3	ITU-R BT.709	ITU-R BT.709	ACESproxy
Color Range		Automatic	Automatic	Automatic	Automatic
Input Transform		_	_	Automatic	Automatic
Output Transf	orm	_	_	DCI-P3	DCI-P3
Output Transf	orm Surround	_	-	Dark Surround	Dark Surround
CDL Preset		CDL 6	CDL 7-13	CDL 14	CDL 15
User LUT		User LUT 1	User LUT 1	User LUT 1	User LUT 1
Peak Luminar	nce Control	Off	Off	Off	Off
YCbCr Color Matrix		Automatic	Automatic	Automatic	Automatic
2020 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
Hybrid Log-Gamma System		γ1.2 - 1000 cd/m²	γ1.2 - 1000 cd/m²	γ1.2 - 1000 cd/m²	γ1.2 - 1000 cd/m²
HDR/SDR View		Off	Off	Off	Off

Channel Settings

This menu is used for input related settings. Select the "Select Channel" and choose a channel number from CH1 to CH30. Finally define the parameter of each of the "Channel Settings".

Item	Setting Options
Select Channel	Display the channel number. In addition, you can assign each content of "Channel Settings" to each channel (\$\subseteq\$51). CH1 to CH30 Note
	It may take 10 seconds when switching channels.
Input Configuration	Select the input. Factory default depend on the channel (\$\subseteq\$51). 3G/HD-SDI, 3G-SDI RAW, SD-SDI, HDMI, — (Not set)
Select Input Signal	Sets the signal display method (19). Automatic: The display method is automatically determined to match the input signal. Quad Input: Four input signals (Input A to Input D) 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.
	 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".
	- "Dual Input" can be set in the case of 3G/HD-SDI or 3G-SDI RAW.
Image Division	Sets the display method when "Input Configuration" is set to "3G/HD-SDI" and "Select Input Signal" is set to "Quad Input" or "Dual Input." Two division methods "Square Division" and "2 Sample Interleave" are supported for 4K video signals.
	■ "Quad Input"
	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): Displays the video of each of the four inputs in four screens.
	■ "Dual Input A,B" or "Dual Input C,D"
	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): Displays the video of each of the two inputs (Input A,B or Input C,D) in two screens.
	Select Input Signal: Quad Input, Image Division: Square Division

Item	Setting Options
Format	Sets the color format and gradation.
	■ 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, 4:4:4 XYZ 12-bit
	■ HDMI Signal
	Automatic, 4:4:4 XYZ 12/10-bit
	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 set to "Automatic" when receiving 3G-SDI, all signals without a payload format will be rendered in "4:4:4 RGB 10-bit". In addition, if there is one Payload or more of the four inputs, they are rendered in a Payload that is selected in the order of priority A → B → C → D in the display area.
	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.
Internal Sync	Sets whether to synchronize four inputs when "Square Division" is selected. 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	Sets the "Picture Mode".
Picture Mode R	Sets the picture mode for the right screen in the "Multi View (Dual)" display.
Audio Input	Sets the audio terminal. Terminals that can be selected differ according to the setting of "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
	When "Single" is selected, this is fixed to input signal terminal.
Marker/TC/WFM/VEC Input	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) 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
	This setting becomes invalid except for the "Multi View (Quad)" or "Multi View (Dual)" display.

Item	Setting Options
Picture Function Target	In the "Multi View (Dual)" display, sets the screen for enabling image quality setting functions in the function settings. Function Settings where displays change due to this function: "Peaking", "False Color", "Various Function (Monochrome, Blue Only, Red Off, Green Off, Blue Off)" Left and Right: Entire screen Left: Left screen only Right: Right screen only
Separator	In the "Multi View (Quad)" or "Multi View (Dual)" display, displays the border lines of the screen. On, Off

The factory default settings for each channel is shown in the following table.

СН	CH1	CH2	CH3	CH4 to CH30
Input Configuration	3G/HD-SDI	HDMI	3G-SDI RAW	_
Select Input Signal	Automatic	Automatic	Automatic	Automatic
Image Division	Automatic	Automatic	Automatic	Automatic
Format	Automatic	Automatic	Automatic	Automatic
Internal Sync	Off	Off	Off	Off
Channel Name	(Blank)	(Blank)	(Blank)	(Blank)
Picture Mode	ITU-R BT.709	ITU-R BT.709	Canon Log	ITU-R BT.709
Picture Mode R	ITU-R BT.709	ITU-R BT.709	Canon Log	ITU-R BT.709
Audio Input	Input A	Input A	Input A	Input A
Marker/TC/WFM/VEC Input	Input A	Input A	Input A	Input A
Picture Function Target	Left and Right	Left and Right	Left and Right	Left and Right
Separator	Off	Off	Off	Off

^{-:} not set

Display Settings

This menu is used to configure the display method.

Item	Setting Options (underline indicates factory default)
Screen Scaling	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
	 In the following cases, the maximum magnification is 200% even if "Automatic" is selected. When "Peaking" or "False Color" is "On" When "Multi View (Dual)" is selected
	1920x1080→3840x2160 Note In the following cases, the maximum magnification is 200% even if "Automatic" is selected

Item	Setting Options (underline indicates factory default)
Scaling Method	Sets the interpolation method when "Screen Scaling" is set to "200%" or "Automatic". Shape Trace: Canon original processing that produces smooth slopes with reduced jagged lines.
	Bicubic : General interpolation process that uses neighboring pixel information to create interpolated pixels.
	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.
Zoom	Enlarges part of the video image. The zoom function can be used when the resolution is "4096x2160", "3840x2160", "2048x1080" or "1920x1080". Zoom Preset: Sets the zoom display method. There are three presets. Zoom 1, Zoom 2, Zoom 3, Off Magnification: Sets the display scale of zoom. x2, x4, x8 Position: The zoom adjustment screen is displayed. Use the jog dial to adjust the display position.
	 Note 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 calibration has been started
	- When "Multi View (Quad)" or "Multi View (Dual)" is selected
	 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".

Item	Setting Options (underline indicates factory default)
Frame Hold	Pauses the video. On, Off
	 Note Setting is disabled when "Peaking" is set to "On" or "False Color" is set to "On".
Background Color	Sets the color of the black band to check the boundary of the black band and video image. White, Gray, Off
	Setting is disabled when "Multi View (Quad)" or "Multi View (Dual)" is selected.
I/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	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	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	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.
	 Note 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.

Item	Setting Options (underline indicates factory default)
SDI Group	Switches the audio group to be input during SDI audio input. CH1-CH8, CH9-CH16
CH L/R (SDI)	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. When "CH1-CH8" is selected for "SDI Group": CH1-CH8 When "CH9-CH16" is selected for "SDI Group": CH9-CH16
CH L/R (HDMI)	Sets the audio to be output from the two channels (L/R) of the headphone respectively. CH1-CH8
Volume	Sets the volume. (Increments of 1) 0 to 100 (30)
Audio Switch	Sets the stereo output. L R, L, R, MIX (L+R)

Marker Settings

This menu is used to configure various markers.

Item	Setting Options (underline indicates factory default)
Marker Preset	Customizes markers which are assigned to markers 1 to 5. Marker 1 to 5, Off
Aspect Marker	"Aspect Marker" displays a range in accordance with the specified aspect ratio.
	Note "Aspect 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.
	 When an enlarged image is displayed During the execution of "Playback File" under "Screen Capture"
	When a "Test Pattern" is displayed
Enable	Switches the aspect marker On, Off. On, Off
Mask	Switches the mask color. Mask is the blanking area outside the range of the marker. Black: Half (50% gray):
	Off: Turns mask off.
Aspect Ratio	Sets the aspect ratio of the aspect marker. 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 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. 1.00:1 to 3.00:1 (1.78:1)
Line	Active when "Black" or "Half" is selected for "Mask". Switches lines on mask On, Off. On, Off
Line Width	Sets the thickness of the aspect marker line. Thick, Normal, Thin

Item	Setting Options (underline indicates factory default)
Line Color	Sets the color of the aspect marker line. White, Red, Green, Blue, Yellow, Cyan, Magenta
Line Brightness	Sets the brightness of the aspect marker line. High, Low
H Position	Changes horizontal position without changing the aspect65 to 65 (0)
V Position	Changes vertical position without changing the aspect. -35 to 35 (0)
Safety Zone Marker 1, 2	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.
	Note "Safety Zone 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 Pettern" is displayed.
Enable	When a "Test Pattern" is displayed Switches the safety zone marker On, Off.
Lindole	On, Off
Aspect Ratio	Sets the aspect ratio of the safety zone marker. 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 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. 1.00:1 to 3.00:1 (1.78:1)
	When "Area Size" is set to "Variable (dot)", you cannot select "Aspect Ratio".
Area Size	Sets the safety zone marker area size. 80%, 88%, 90%, 93%, Variable (%), Variable (dot) When "Variable (%)" is selected, the grayed out "Rate (%)" becomes active. When "Variable (dot)" is selected, the grayed out "Width (dot)" and "Height (dot)" become active. This can be set by moving the slider.
Rate (%)	Becomes active when you select "Variable (%)" under the menu "Area Size". Move the slider to set the displayed marker area size without changing the aspect ratio in 1 % increments. 50 to 100 (80)
Width (dot)	Becomes active when you select "Variable (dot)" under the menu "Area Size". Move the slider to set the area width in 2 dot increment. 360 to 4096 (3276)
Height (dot)	Becomes active when you select "Variable (dot)" under the menu "Area Size". Move the slider to set the area height in 2 dot increment. 240 to 2160 (1728)

Item	Setting Options (underline indicates factory default)
Shape	Sets the area shape of the safety zone marker. Box: Bracket: C
Line Width	Sets the width of the safety zone marker line. Thick, Normal, Thin
Line Color	Sets the color of the safety zone marker line. White, Red, Green, Blue, Yellow, Cyan, Magenta
Line Brightness	Sets the brightness of the safety zone marker line. High, Low
H Position	Adjusts the marker horizontal position with the set aspect and size65 to 65 (0)
V Position	Adjusts the marker vertical position with the set aspect and size35 to 35 (0)

Item	Setting Options (underline indicates factory default)
Area Marker	"Area Marker" is used to check a specific area using a rectangular box.
	Note "Area 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
Enable	Switches the area marker On, Off. On, Off
H Position	Sets the start position (x-coordinate) to draw the rectangle (in increments of 2). 0 to 4086 (240)
V Position	Sets the start position (y-coordinate) to draw the rectangle (in increments of 2). 0 to 2150 (120)
Width (dot)	Sets the width of the rectangle (in increments of 2). 10 to 4096 (240)
Height (dot)	Sets the height of the rectangle (in increments of 2). 10 to 2160 (120)
Mask	Switches the mask color (in the marker). Black, Half, Off
Line	Turns On/Off the outlines of the rectangular box. On, Off
Line Width	Sets the width of the area marker line. Thick, Normal, Thin
Line Color	Sets the color of the area marker line. White, Red, Green, Blue, Yellow, Cyan, Magenta
Line Brightness	Sets the brightness of the area marker line. High, Low

	Item	Setting Options (underline indicates factory default)
Center Ma	arker	"Center Marker" shows the center of the image.
		Note
		"Center Marker" is not displayed when an enlarged image is displayed.
	Enable	Switches the center marker On, Off. On, Off
	Size	Sets the size of the center marker. Large, Small
	Line Width	Sets the width of the center marker line. Thick, Normal, Thin
	Line Color	Sets the color of the center marker line. White, Red, Green, Blue, Yellow, Cyan, Magenta
	Line Brightness	Sets the brightness of the center marker line. High, Low
Grid Mark	er	"Grid Marker" is marker used to check the horizontal and vertical position.
		 ✓ Note • "Grid Marker" is not displayed when an enlarged image is displayed.
	Enable	Switches the grid marker On, Off.
		On, Off
	Distance	Sets the horizontal and vertical line distance. 160 dots, 240 dots, 320 dots
	Line Width	Sets the width of the grid marker line. Thick, Normal, Thin
	Line Color	Sets the color of the grid marker line. White, Red, Green, Blue, Yellow, Cyan, Magenta
	Line Brightness	Sets the brightness of the grid marker line. High, Low

Function Settings

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

Item	Setting Options (underline indicates factory default)
Peaking	Customizes peakings which are assigned to Peaking 1 or Peaking 2. The outline is displayed in a color, used to check the focus.
	"Peaking" cannot be displayed during the execution of "Playback File" under "Screen Capture".
Enable	Switches the peaking display mode and also sets peaking to Off. Peaking 1, Peaking 2, Off
	Configures detailed settings for "Peaking 1" or "Peaking 2". Monochrome: Displays video in monochrome. On, Off Frequency: Sets the central frequency of contour enhancement signals. Peaking 1 (Low, Middle, High), Peaking 2 (Low, Middle, High) Range: Sets the width of the range to be colored. -3 ~ +3 (0) Color: Sets the color to be used. White, Red, Green, Blue, Yellow, Cyan, Magenta
False Color	When set to "On", different colors are displayed according to video's brightness level so that you can check the exposure condition easily. On, Off Below are details of the chart. Numbers indicate the level of Y-signals.
	941 ~ 1023 877 ~ 940 813 ~ 876 749 ~ 812 584 ~ 748 420 ~ 583 256 ~ 419 192 ~ 255 128 ~ 191 64 ~ 127 0 ~ 63 Red Orange Light orange Yellow Light gray Medium gray Dark gray Blue Blue Blue purple Light purple Light purple Purple
	"False Color" cannot be displayed during the execution of "Playback File" under "Screen Capture".

Item		Setting Options (underline indicates factory default)		
Time Coc	de	Display the time code superimposed on the signal.		
		VTC 012345.05		
		Note Not		
		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		
	Enable	Switches the time code display On, Off. On, Off		
	Туре	Selects the type. VITC, LTC		
		This setting becomes invalid when HDMI signal is input and is fixed to "VITC".		
	Size	Selects the size. Large, Small		
	Position	Selects the display position. Top Left, Top Right, Bottom Left, Bottom Right		
		Note		
		This setting becomes invalid in the "Multi View (Dual)" display.		
Mayo For	m Monitor	Configures various settings for the wave form monitor. On the wave form monitor, the horizontal axis		
Vvave i oi	TTT IVIOTIILOI	shows the horizontal resolution of the video and the vertical line shows the signal level.		
		Signal level Signal level Horizontal resolution of video		
		 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) or "False Color" is "On"		
		- When "Peaking 1" or "Peaking 2" is selected		
		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".		

Item	Setting Options (underline indicates factory default)
Enable	Switches the wave form monitor On, Off. On, Off
Select Signal	Sets the waveform to be displayed. Y, Cb, Cr, R, G, B
Display Type	Sets the display type. When "Line" is selected, data for one line is displayed. All, Line Selects the line to be displayed when "Line" is selected. Select Line: 1 to 2160
Position	Selects the display position. Bottom Left, Bottom Right Note This setting becomes invalid in the "Multi View (Dual)" display.
Scale	Sets the scale of the wave form monitor. Automatic: Sets the scale of the wave form monitor according to the Gamma setting. IRE, Canon Log, Canon Log 2, Canon Log 3, SMPTE ST 2084: Select the scale.
Guide	A guide is displayed at the specified position. "Guide" is not displayed when "255" is selected. 1 to 255
Standard Leve High	Sets the standard display level (high). "Standard Level High" is not displayed when "255" is selected. 190 to 255
Standard Leve Low	Sets the standard display level (low). "Standard Level Low" is not displayed when "0" is selected. <u>0</u> to 64
Color	Sets the signals to be displayed and the color of signals exceeding the standard level. Y, Cb, Cr, R, G, B: Selects the signal. Selects the color of the selected signal. White, Red, Green, Blue, Yellow, Cyan, Magenta Default value of each signal is shown below. Y (White), Cb (White), Cr (White), R (Red), G (Green), B (Blue) Standard Level High, Standard Level Low: Selects the standard level. White, Red, Green, Blue, Yellow, Cyan, Magenta Default value of each standard level is shown below. Standard Level High (Magenta), Standard Level Low (Cyan)

Item	Setting Options (underline indicates factory default)		
Vector Scope	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.		
	(Cb, Cr) = (255, 255)		
	Cr Red Magenta Cr Sellow + Blue		
	Cyan		
	(Cb, Cr) = (0, 0)		
	Note		
	Vector scope cannot be displayed in the following cases:When an enlarged image is displayed		
	- When "Frame Hold" (during interlace signal or PsF signal) or "False Color" is "On"		
	When "Peaking 1" or "Peaking 2" is selectedDuring 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 "Vector Scope" is set to "On", "Wave Form Monitor" turns "Off".		
Enable	Switches the vector scope On, Off. On, Off		
Target	Sets the target. 75% , 100%		
Position	Selects the display position. Bottom Left, Bottom Right		
	This setting becomes invalid in the "Multi View (Dual)" display.		

Item		Setting Options (underline indicates factory default)		
Audio Level Meter		Configures various settings for the audio level meter. Displays the audio level of the selected channel number. Note		
		"Audio Level Meter" cannot be displayed when "Frame Hold" is "On", during the execution of "Playback File" under "Screen Capture", or when "Test Pattern" is displayed.		
	Enable	Switches the audio level meter On, Off. On, Off		
Channel Number (SDI) Sets the number of channels displayed when SDI signal is input. Options change according setting for "SDI Group" under "Audio Settings". When "CH1-CH8" is selected for "SDI Group": 2CH (CH1-CH2), 4CH (CH1-CH4), 6CH (CH1-CH6), 8CH (CH1-CH8) When "CH9-CH16" is selected for "SDI Group": 2CH (CH9-CH10), 4CH (CH9-CH12),		When "CH1-CH8" is selected for "SDI Group": 2CH (CH1-CH2), 4CH (CH1-CH4), 6CH (CH1-CH6), 8CH (CH1-CH8)		
Channel Number (HDMI) Sets the number of channels displayed when HDMI signal is input. 2CH (CH1-CH2), 4CH (CH1-CH4), 6CH (CH1-CH6), 8CH (CH1-CH8)				
	Peak Hold	When set to "On", one second of audio signal at the peak is kept. On, Off		
	Standard Level	Sets the standard level40 to 0 (-20)		
Test Patter	า	Sets the test pattern built into the main unit. White, Gray (20%), Black, Red, Green, Blue, Ramp, 5 Step, Color Bars, PLUGE, Off Note		
		 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 		

	Item	Setting Options (underline indicates factory default)
Screen Ca	pture	Captures the screen.
		Setting is disabled when "Multi View (Quad)" or "Multi View (Dual)" is selected.
	Capture	Captures the screen. The data is saved under the name "YYYYMMDD_hhmmss.bmp" in the root folder of the USB memory.
	Frame Hold	Pauses the video. On, Off
	Capture Source	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	Plays back captured images. Select File: Selects a file. Execute: Plays back the image.
		 Note When playing back captured images on other DP-V2420 or PC, color may not be played back precisely.
	Finish Playback File	Finishes playback.
Various Fu	nction	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), Banner (On, Off)* ¹ , Function Guide (On, Off)* ² , OSD Position (Mode 1, Mode 2)* ³ , OSD Size (Large, Small)* ⁴
		*1 Banner : When "Banner" is set to "Off", the banner is displayed only when you press the jog dial while OSD is closed.
		 *2 Function Guide On: You can display the list of functions assigned to an F button on the video display by pressing the jog dial while OSD is closed. Off: Function guide is not displayed.
		*3 OSD Position Mode 1 (4096x2160): OSD is displayed in a 4096x2160 area. Mode 2 (3840x2160): OSD is displayed in a 3840x2160 area. *4 OSD Size: The size of the OSD menu can be selected from "Large" and "Small".
		When "CDL/User LUT" is set to "User LUT", "Blue Only" cannot be selected.

	Item		Setting Options (underline indicates factory default)				
Camera Lin	Camera Link		Sets the functions to link with Cinema EOS cameras and ARRI cinema cameras.				
	Automatic Adjustment (CINEMA EOS)	Sets whether or not to link to the camera's image quality setting when "Canon Log" is selected for "Picture Mode" (when "SG-SDI RAW" is selected for "Input Configuration" only). On, Off When "Color Gamut/Gamma", "Color Temperature", and "Color Range" are all set to "On", the following settings are configured.					
		Parameter o	of Cinema F	EOS cameras and DP-V2420			
		Cinema EO		VZ 120	DP-V2420		
		Color Space	Gamma	Color Gamut	Gamma	Color Temperature	Color Range
		BT.709	Canon	ITU-R BT.709	Canon Log	D65	Automatic
		BT.2020	Log	ITU-R BT.2020		D65	
		Cinema		Cinema Gamut to 709		D65	
		Gamut		Cinema Gamut to 2020		D65	
				Cinema Gamut to DCI-P3		DCI-P3	
		DCI-P3+		DCI-P3+ to 709		D65	
				DCI-P3+ to DCI-P3		DCI-P3	
		BT.2020	Canon	ITU-R BT.2020	Canon Log 2	D65	
		Cinema	Log 2	Cinema Gamut to 709		D65	
		Gamut		Cinema Gamut to 2020		D65	
				Cinema Gamut to DCI-P3		DCI-P3	
		Color Temp	perature: 7 ((ge: The ima (On, Off	a: The image quality of the disgamut of the camera. On, Off The image quality of the displacamera. On, Off age quality of the display correct: Sets the color gamut shown Space" is set to "Cinema GITU-R BT.709, ITU-R BT.2	ay corresponds t esponds to the ra n on the display v amut" or "DCI-P:	o the color temp ange of the came	erature of the era.
	Automatic Adjustment (ARRI)	"Picture Mo On, Off When "User following se	de". ⁻ LUT" unde ttings are c	link to the camera's image q er "CDL/User LUT" is set to " onfigured. ema camera and DP-V2420	, ,		
		ARRI C	inema cam	era	DP-V24	20	
		Со	lor Space	User LUT	Color Ga	mut Co	olor Range
		F	REC 709	ARRI LUT 709	ITU-R BT.		Automatic
		REC 2020 ARRI LUT 2020 ITU-R BT.2020 (Limited 1)					
			ge : The ima	and color gamut of the cand color gamut of the cand color gamut of the cand of the display correct.	amera.		
			On, Off	l			

Item	Setting Options (underline indicates factory default)		
Area Marker	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 meta information. ARRI Frame line 1A, ARRI Frame line 1B, Off		
	This cannot be set when "Marker Preset" is "Off".		
Fan	Sets whether or not to stop the fan by linking with the camera's REC signal. When "Fan Control" under "System Settings" is set to "On", the mode changes so that the fan can be stopped, and when "Fan" is set to "On", the fan can be stopped by linking with the camera's REC signal. At room temperature (25 °C), the fan remains off for approximately one minute. The fan operates at a faster speed than usual before and after the fan is stopped to lower the internal temperature. On, Off		
	Note		
	This can be operated in "On" with REC signals supported by this function (Cinema EOS cameras, Canon professional-use video cameras, ARRI cinema cameras).		
	• 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.		
Camera Information	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.		

System Settings

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

Item	Setting Options (underline indicates factory default)
Function/Channel Button	Sets the function or channel to assign to the F buttons or CH button.
Display Function/Display Function (CDL)	Sets the function to assign to the F buttons of the main unit. Select an F button and assign a function from the following list (☐ 72). The factory defaults for the main unit F buttons is as follow: Normal mode F1: Contrast F2: Brightness F3: Time Code F4: WFM/VEC F5: Audio Level Meter F6: Zoom Preset F7: Hide OSD F8: Peak Luminance Control CDL mode F1: CDL R F2: CDL G F3: CDL B F4: CDL Power F5: CDL Offset F6: CDL Slope F7: CDL Saturation F8: CDL/User LUT Bypass
	 Note When changing channels with "Channel UP/DOWN", the channels with "Input Configuration"
	 When the "Backlight Control" setting is switched using an F button, the information is applied to "Backlight Control" in "Picture Mode". Likewise, when any marker settings are changed, those changes will be applied to "Enable" under the currently selected "Marker Preset". "Hide OSD" is a function to hide all OSD. When "On" is selected, OSD, "Background Color" and "Separator" are hidden but the menu can be used.
Display Channel	Sets the channel to assign to the CH button on the display. Select a CH button and register a channel number. A list of settings under the menu "Channel Settings" (449) is displayed.
Language	Sets the language of the OSD menu and messages. English, 日本語, 簡体中文
Date/Time	Sets the year/month/date/hour/minute.

	Item	Setting Options (underline indicates factory default)
Network		Configures settings for the network of the video display.
		Note
		Setting is disabled when "Power on Setting" is set to "User 1-3".
	Configure an IP Address	Automatic: Configures an IP address automatically with DHCP/Automatic IP. Manual: Configure an IP address and subnet mask manually.
	Display	192.168.0.1
	Subnet Mask	255.255.255.0
Display N	lame	Sets the name of the main unit. You can input up to 16 alphanumeric characters.
Power In	dicator Brightness	Adjusts the brightness of the power indicator on the main unit. The greater the number is, the greater the brightness. Off, 1 to 5 (3)
Display E	Button LED	Sets the F buttons and the lamp on the face. On, Off
Fan Setti	ngs	Sets the operation of internal fan.
	Fan Control	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 manually or to stop the fan (468) by linking with the camera's REC signal. When this is set to "On", the mode changes so that the fan can be stopped. On, Off
	Fan Stop	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. The fan operates at a faster speed than usual before and after the fan is stopped to lower the internal temperature. On, Off
		 Note 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.
Compatik	ole Settings	Sets the connection compatibility with HDMI equipment.
·	HDMI	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 S	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.

	Item Setting Options (underline indicates factory default)			
	Protect Target	You can remove Picture Mode and Select Channel from the items to be protected. Picture Mode: Select "On" to protect or "Off" to exclude settings for "Picture Mode". On, Off Select Channel: Select "On" to protect or "Off" to exclude settings for "Select Channel". On, Off		
	Protect	Select "OK" to protect. V	When a password has been set, enter the password and select "OK".	
			ings eto "Protect" and press the Jog dial for approximately 3 seconds. When a enter the password and select "OK".	
Firmware	Update	This function is used to use information.	update the video display firmware. Refer to the Canon website for detailed	
Export/In	nport	Sets the export/import m Note The following setting	nain menu settings. gs cannot be exported or imported.	
		Adjustment	Target values of Calibration (including calibration results)	
		Display Settings	Zoom Preset, Frame Hold	
		Function Settings	Test Pattern, Various Function (Monochrome, Blue Only, Red Off, Green Off, Blue Off)	
		System Settings	Date/Time, Fan Stop, Export/Import, Power on Setting	
		Data exported from	ot be exported or imported to "User 1 to 3" under "Target". this product may not be imported to products of which firmware version rsion of this product. To import data, update the firmware to the latest	
Export Target: Select the export destination. USB: Export to a USB memory. User 1-3: Export to the built-in memory of the main unit. Filename: Factory default is "dinfo_dpv2420.dat". You can change the name of the file exported to the USB memory within 16 one-byte characters including alpha characters, numbers, and symbols. Execute: Performs export.		a USB memory. It to the built-in memory of the main unit. Ilt is "dinfo_dpv2420.dat". You can change the name of the file to be ne USB memory within 16 one-byte characters including alphabetical umbers, and symbols.		
	Import	Target: Specify the destination to save the file to be imported. USB, User 1-3 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 or	n Setting	Last memory : The video	of the display when the power is turned on. o display starts up with the settings last used. th the settings saved in "User 1-3" under "Export".	
Reset All Settings 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.		defaults?" appears. OK : Performs reset.		

The following functions can also be assigned to an F button (69).

Item	Options
Adjustment	Picture Mode
	Contrast
	Brightness
	Chroma
	Chroma up
	Sharpness
	Backlight Control
	Gamma
	HDR
	HDR Range
	Peak Luminance Control
	HDR/SDR View
	Gain
	Bias
	ху
Picture Mode	SMPTE-C
	EBU
	ITU-R BT.709
	ITU-R BT.2020
	Adobe RGB
	DCI-P3
	User 1 to User 7
	Canon Log
	ACESproxy
Color Gamut	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
	DCI-P3 to 709
	ITU-R BT.2020 to 709
	ACESproxy

Item	Options
Gamma	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
	Hybrid Log-Gamma Y
	Hybrid Log-Gamma RGB
	Gamma LUT 1 to Gamma LUT 8
CDL	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
Channel Settings	Channel UP
	Channel DOWN
	Select Input Signal
	Audio Input
	CH1 to CH20

Item	Options
Display Settings	Screen Scalling
	Scaling Method
	Zoom Preset
	Zoom 1
	Zoom 2
	Zoom 3
	Frame Hold
	Background Color
Audio Settings	SDI Group
	CH L
	CH R
	Volume
	Audio Switch
Marker Settings	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
	Flase Color
	Capture
	Time Code
	WFM/VEC
	Wave Form Monitor
	WFM Select Signal
	Vector Scope
	Audio Level Meter
	Monochrome
	Blue Only
	Red Off
	Green Off
	Blue Off
	Camera Information
System Settings	Hide OSD
	Fan Stop

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		
ltem	Display Example	Item	Display Example	
Channel	CH1	Channel	CH4	
Input Configuration	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	
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	Primary Color Red	x=0.640, y=0.330	
	(Transport/Picture)	Primary Color Green	x=0.300, y=0.600	
Link Number	Single/Link_1	Primary Color Blue	x=0.150, y=0.060	

^{*} When a 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-V2420
Serial No.	00000000000
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

 $^{^{\}star}$ 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 Are	ea	Approximately 540.7 x 285.1 mm	
Pixel Pitch		132 µm/193 ppi	
Panel Driver		1024 gradations, 10-bit for each RGB color	
Image quality			
Brightness (Stand	ard)	100 cd/m ²	
View Angle (Up, E	own, Left, Right)	89° (contrast ratio 10 : 1 or higher)	
Surface Treatmen	t	Anti-glare coating	
General			
Backlight Type		RGB LED, direct down type	
Power		Rated Voltage: 100 – 240 V AC Rated Frequency: 50/60 Hz	
Power consumpti	on	At maximum load (including change in brightness through aging): Approximately 510 W At factory shipment: Approximately 180 W	
Environmental Conditions	Operating	Temperature and humidity: 0 – 40 °C (32 – 104 °F), 20 – 85 %RH (no condensation) recommended: 15 – 30 °C (59 – 86 °F) 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	n x height x depth)	Including stands: Approx. 594×399×235 mm (23.4×15.7×9.3 in.) Main unit only, excluding protrusions: Approx. 594×378×195 mm (23.4×14.9×7.7 in.)	
Weight		Approximately 19 kg (41.8 lb)	
Mounting Hole Pit	ch	VESA standard 200 x 100 mm (7.9 x 3.9 in.)	

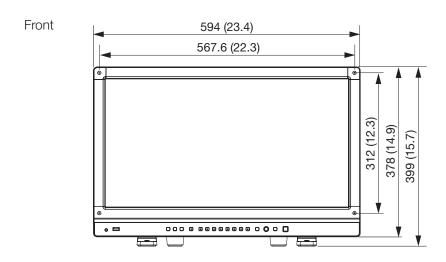
Interface			
Input	3G/HD/SD-SDI	4 (1 systems) BNC (75Ω) receptacle terminal 3G-SDI: Compliant with SMPTE 2048-2/274M/296/372/425-5/425-3/425-1/428-19/428-9 HD-SDI: Compliant with SMPTE 2048-2/274M/292-1/296/428-19/428-9 SD-SDI: Compliant with SMPTE 259M	
	HDMI	1 (1 system) type A terminal Contents protection standard: HDCP 2.2	
Output	3G/HD-SDI	4 (1 pass-thru systems)	
	Head phone	1 stereo mini jack, Supported impedance: 32 Ω to 64 Ω	
Control	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	

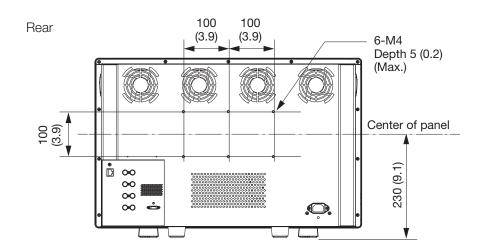
Weight and dimensions are approximate. Error and omissions excepted.

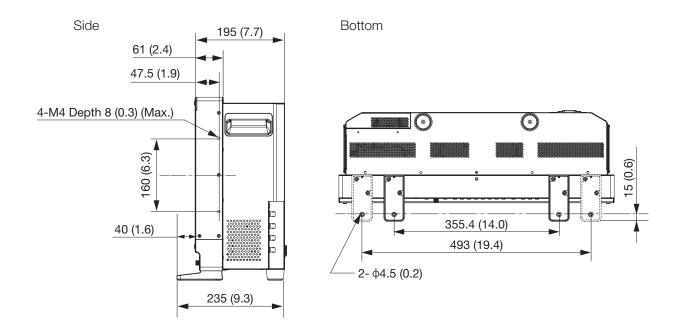
The information in this manual is verified as of August 2016. It is subject to change without notice.

Dimensions

■ Main Unit







Unit: mm (inch)

Appendix

Supported Signal Format

■ SDI

Formats with "*" support 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
	1280x720P 50.00 Hz*]		SMPTE 296
	1280x720P 29.97/30.00 Hz			
	1280x720P 25.00 Hz*			
	1280x720P 23.98/24.00 Hz*			
	1920x1080i 59.94/60.00 Hz*			SMPTE 292-1
	1920x1080i 50.00 Hz*			SMPTE 274M
	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*	-		
	1920x1080PsF 23.98/24.00 Hz*			
	2048x1080i 59.94/60.00 Hz			
	2048x1080i 50.00 Hz]		
	2048x1080P 29.97/30.00 Hz]		SMPTE 292-1 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
	2048x1080PsF 29.97/30.00 Hz]		
	2048x1080P 25.00 Hz			
	2048x1080PsF 25.00 Hz			
	2048x1080P 23.98/24.00 Hz	1		
	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	SMPTE 425-1 SMPTE 274M

Transmission method	Signal format	Color format	Color depth	Standards
3G-SDI (Level A)	1920x1080i 59.94/60.00 Hz	4:4:4 RGB* 4:4:4 YCbCr*	12-bit/10-bit	SMPTE 425-1 SMPTE 274M
		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*	10-bit	
			12-bit	
		4:4:4 YCbCr*	12-bit	
		4:4:4 YCbCr*	10-bit	SMPTE 425-1
		4:2:2 YCbCr	12-bit	SMPTE 274M
	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*	10-bit	
			12-bit	
		4:4:4 YCbCr*	12-bit	
		4:4:4 YCbCr*	10-bit	SMPTE 425-1
		4:2:2 YCbCr	12-bit	SMPTE 274M
	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	10-bit	
			12-bit	
		4:4:4 YCbCr	12-bit	
		4:4:4 YCbCr	10-bit	SMPTE 425-1
		4:2:2 YCbCr	12-bit	SMPTE 274M
	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 4:4:4 YCbCr	12-bit/10-bit	
		4:4:4 X'Y'Z'	12-bit	
		4:2:2 YCbCr		
	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 4:4:4 YCbCr	12-bit/10-bit	
		4:4:4 X'Y'Z'	12-bit	7
		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
		4:4:4 X'Y'Z'	12-bit	SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1
		4:2:2 YCbCr	12-bit	SMPTE 2048-2
	2048x1080PsF 29.97/30.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1
		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
		4:2:2 YCbCr	12-bit	SMPTE 2048-2
	2048x1080P 25.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1
		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
		4:2:2 YCbCr	12-bit	SMPTE 2048-2
	2048x1080PsF 25.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1
		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
		4:2:2 YCbCr	12-bit	SMPTE 2048-2
	2048x1080P 23.98/24.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1 SMPTE 428-9
		4:4:4 X'Y'Z'	12-bit	SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1
		4:2:2 YCbCr	12-bit	SMPTE 2048-2
	2048x1080PsF 23.98/24.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1
		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
		4:2:2 YCbCr	12-bit	SMPTE 2048-2

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
	1920x1080i 59.94/60.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	SMPTE 372 SMPTE 274M
		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
	2048x1080P 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
		4:2:2 YCbCr	12-bit	SMPTE 372 SMPTE 2048-2
	2048x1080PsF 29.97/30.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1
		4:4:4 X'Y'Z'	12-bit	SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1
		4:2:2 YCbCr	12-bit	SMPTE 372 SMPTE 2048-2
	2048x1080P 25.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1
		4:4:4 X'Y'Z'	12-bit	SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1
		4:2:2 YCbCr	12-bit	SMPTE 372 SMPTE 2048-2
	2048x1080PsF 25.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1
		4:4:4 X'Y'Z'	12-bit	SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1
		4:2:2 YCbCr	12-bit	SMPTE 372 SMPTE 2048-2
	2048x1080P 23.98/24.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1
		4:4:4 X'Y'Z'	12-bit	SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1
		4:2:2 YCbCr	12-bit	SMPTE 372 SMPTE 2048-2

Transmission method	Signal format	Color format	Color depth	Standards
3G-SDI	2048x1080PsF 23.98/24.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1
(Level B)		4:4:4 X'Y'Z'	12-bit	SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1
		4:2:2 YCbCr	12-bit	SMPTE 372 SMPTE 2048-2
Dual Link 3G-SDI (Level A)	1920x1080P 59.94/60 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-3 SMPTE 274M
		4:2:2 YCbCr	12-bit	7
	1920x1080P 50 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	2048x1080P 59.94/60 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-3 SMPTE 428-9
		4:4:4 X'Y'Z' 4:2:2 YCbCr	12-bit	SMPTE 428-19 SMPTE 2048-2
	2048x1080P 50 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 47.95/48 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	
Dual Link 3G-SDI (Level B)	1920x1080P 59.94/60 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-3 SMPTE 372
		4:2:2 YCbCr	12-bit	SMPTE 274M
	1920x1080P 50 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	2048x1080P 59.94/60 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-3 SMPTE 372
		4:4:4 X'Y'Z' 4:2:2 YCbCr	12-bit	SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
	2048x1080P 50 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	JIVIF 1E 2U40-2
		4:4:4 X'Y'Z' 4:2:2 YCbCr	12-bit	
	2048x1080P 47.95/48 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
Dual Link 3G-SDI	3840x2160P 29.97/30 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-3
Square Division (Level B)	3840x2160PsF 29.97/30 Hz			SMPTE 372 SMPTE 274M
(LCVGI D)	3840x2160P 25 Hz			OWN TE 27 HW
	3840x2160PsF 25 Hz			
	3840x2160P 23.98/24 Hz			
	3840x2160PsF 23.98/24 Hz			
	4096x2160P 29.97/30 Hz			SMPTE 425-3
	4096x2160PsF 29.97/30 Hz			SMPTE 372 SMPTE 2048-2
	4096x2160P 25 Hz			01111 12 20 10 2
	4096x2160PsF 25 Hz			
	4096x2160P 23.98/24 Hz			
	4096x2160PsF 23.98/24 Hz			
Dual Link 3G-SDI	3840x2160P 29.97/30 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-3
2 Sample Interleave (Level B)	3840x2160P 25 Hz			SMPTE 372 SMPTE 274M SMPTE 425-3 SMPTE 372
(LCVGI D)	3840x2160P 23.98/24 Hz			
	4096x2160P 29.97/30 Hz			
	4096x2160P 25 Hz			
	4096x2160P 23.98/24 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			
	4096x2160i 50.00 Hz			
	4096x2160P 29.97/30.00 Hz			SMPTE 292-1
	4096x2160PsF 29.97/30.00 Hz			SMPTE 428-9 SMPTE 428-19
	4096x2160P 25.00 Hz			SMPTE 2048-2
	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	3840x2160P 59.94/60.00 Hz	4:2:2 YCbCr*	10-bit	SMPTE 425-1
(Level A)	3840x2160i 59.94/60.00 Hz	4:4:4 RGB* 4:4:4 YCbCr*	12-bit/10-bit	SMPTE 274M
		4:2:2 YCbCr	12-bit	1
	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
		4:2:2 YCbCr	12-bit	SMPTE 274M
	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	SMPTE 425-1 SMPTE 274M
		4:4:4 YCbCr*	12-bit	
		4:4:4 YCbCr*	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	10-bit	
			12-bit	
		4:4:4 YCbCr	12-bit	
		4:4:4 YCbCr	10-bit	SMPTE 425-1
		4:2:2 YCbCr	12-bit	SMPTE 274M
	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
		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
		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
		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
		4:2:2 YCbCr	12-bit	SMPTE 2048-2
	4096x2160P 25.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1
		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
		4:2:2 YCbCr	12-bit	SMPTE 2048-2
	4096x2160PsF 25.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1
		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
		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
		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
		4:2:2 YCbCr	12-bit	SMPTE 2048-2
	4096x2160PsF 23.98/24.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1
		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
		4:2:2 YCbCr	12-bit	SMPTE 2048-2

Transmission method	Signal format	Color format	Color depth	Standards
Quad Link 3G-SDI	3840x2160P 59.94/60 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-5
2 Sample Interleave (Level A)	3840x2160P 50 Hz	4:2:2 YCbCr	10-bit	SMPTE 274M
	3840x2160P 29.97/30 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	3840x2160P 25 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	3840x2160P 23.98/24 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	4096x2160P 59.94/60 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-5
	4096x2160P 50 Hz	4:2:2 YCbCr	10-bit	SMPTE 428-9 SMPTE 428-19
	4096x2160P 47.95/48 Hz	4:2:2 YCbCr	10-bit	SMPTE 2048-2
	4096x2160P 29.97/30 Hz	4:4:4 RGB	12-bit/10-bit	
		4:4:4 X'Y'Z'	12-bit	
		4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	4096x2160P 25 Hz	4:4:4 RGB	12-bit/10-bit	
		4:4:4 X'Y'Z'	12-bit	
		4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	4096x2160P 23.98/24 Hz	4:4:4 RGB	12-bit/10-bit	
		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 (Level B)	3840x2160P 59.94/60.00 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-1
	3840x2160i 59.94/60.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	SMPTE 372 SMPTE 274M
		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
		4:2:2 YCbCr*	12-bit	SMPTE 274M
	3840x2160P 29.97/30.00 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	1
	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
		4:2:2 YCbCr	12-bit	SMPTE 372 SMPTE 2048-2
	4096x2160PsF 29.97/30.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1
		4:4:4 X'Y'Z'	12-bit	SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1
		4:2:2 YCbCr	12-bit	SMPTE 372 SMPTE 2048-2
	4096x2160P 25.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1
		4:4:4 X'Y'Z'	12-bit	SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1
		4:2:2 YCbCr	12-bit	SMPTE 372 SMPTE 2048-2
	4096x2160PsF 25.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1
		4:4:4 X'Y'Z'	12-bit	SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1
		4:2:2 YCbCr	12-bit	SMPTE 372 SMPTE 2048-2
	4096x2160P 23.98/24.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1
		4:4:4 X'Y'Z'	12-bit	SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1
		4:2:2 YCbCr	12-bit	SMPTE 372 SMPTE 2048-2
	4096x2160PsF 23.98/24.00 Hz	4:4:4 RGB	12-bit/10-bit	SMPTE 425-1
		4:4:4 X'Y'Z'	12-bit	SMPTE 372 SMPTE 428-9 SMPTE 428-19 SMPTE 2048-2
		4:4:4 YCbCr	12-bit/10-bit	SMPTE 425-1
		4:2:2 YCbCr	12-bit	SMPTE 372 SMPTE 2048-2

Transmission method	Signal format	Color format	Color depth	Standards
Quad Link 3G-SDI	3840x2160P 59.94/60 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-5
2 Sample Interleave (Level B)	3840x2160P 50 Hz	4:2:2 YCbCr	10-bit	SMPTE 372 SMPTE 274M
(Level D)	3840x2160P 29.97/30 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	OWN TE 27 HIVI
		4:2:2 YCbCr	12-bit	
	3840x2160P 25 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	3840x2160P 23.98/24 Hz	4:4:4 RGB 4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	4096x2160P 59.94/60 Hz	4:2:2 YCbCr	10-bit	SMPTE 425-5
	4096x2160P 50 Hz	4:2:2 YCbCr	10-bit	SMPTE 372 SMPTE 428-9
	4096x2160P 47.95/48 Hz	4:2:2 YCbCr	10-bit	SMPTE 428-19
	4096x2160P 29.97/30 Hz	4:4:4 RGB	12-bit/10-bit	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	
	4096x2160P 25 Hz	4:4:4 RGB	12-bit/10-bit	
		4:4:4 X'Y'Z'	12-bit	
		4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	
	4096x2160P 23.98/24 Hz	4:4:4 RGB	12-bit/10-bit	
		4:4:4 X'Y'Z'	12-bit	
		4:4:4 YCbCr	12-bit/10-bit	
		4:2:2 YCbCr	12-bit	

■ 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
720x576P 50.00 Hz	4:4:4 YCbCr 12-bit/10-bit/8-bit 4:2:2 YCbCr 12-bit
1280x720P 59.94/60.00 Hz	4.2.2 10001 12 01
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
3840x2160P 50.00 Hz	4:4:4 YCbCr 8-bit 4:2:2 YCbCr 12-bit 4:2:0 YCbCr 12-bit/10-bit/8-bit
3840x2160P 29.97/30.00 Hz	4:4:4 RGB 12-bit/10-bit/8-bit
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	4.2.2 10001 12 01
4096x2160P 59.94/60.00 Hz	4:4:4 RGB 8-bit
4096x2160P 50.00 Hz	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	4:4:4 RGB 12-bit/10-bit/8-bit
4096x2160P 25.00 Hz	4:4:4 YCbCr 12-bit/10-bit/8-bit 4:2:2 YCbCr 12-bit
4096x2160P 23.98/24.00 Hz	

Image/Frame Display

■ SDI

Signal system		Display M	lethod	
720x487	59.94/60.00	i	59.94/60.00	Р
720x576	50.00	i	50.00	Р
1280x720	23.98/24.00	Р	47.96/48.00	P*
	25.00	Р	50.00	P*
	29.97/30.00	Р	59.94/60.00	P*
	50.00	Р	50.00	Р
	59.94/60.00	Р	59.94/60.00	Р
1920x1080	50.00	i	50.00	Р
	59.94/60.00	i	59.94/60.00	Р
	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	Р	47.96/48.00	P*
	25.00	Р	50.00	P*
	29.97/30.00	Р	59.94/60.00	P*
	50.00	Р	50.00	Р
	59.94/60.00	Р	59.94/60.00	Р
2048x1080	50.00	i	50.00	Р
	59.94/60.00	i	59.94/60.00	Р
	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	Р	47.96/48.00	P*
	25.00	Р	50.00	P*
	29.97/30.00	Р	59.94/60.00	P*
	47.95/48.00	Р	47.95/48.00	Р
	50.00	Р	50.00	Р
	59.94/60.00	Р	59.94/60.00	Р
3840x2160	50.00	i	50.00	Р
	59.94/60.00	i	59.94/60.00	Р
	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	Р	47.96/48.00	P*
	25.00	Р	50.00	P*
	29.97/30.00	Р	59.94/60.00	P*
	50.00	Р	50.00	Р
	59.94/60.00	Р	59.94/60.00	Р

Signal system			Display Metho	d
4096x2160	50.00	i	50.00	Р
	59.94/60.00	i	59.94/60.00	Р
	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	Р	47.96/48.00	P*
	25.00	Р	50.00	P*
	29.97/30.00	Р	59.94/60.00	P*
	47.95/48.00	Р	47.95/48.00	Р
	50.00	Р	50.00	Р
	59.94/60.00	Р	59.94/60.00	Р

^{*:} Displaying same frame

■ HDMI

Signal system			Display Method	
640x480	59.94/60.00	Р	59.94/60.00	Р
800x600	60.00	Р	60.00	Р
720x480P	59.94/60.00	Р	59.94/60.00	Р
720x576	50.00	Р	50.00	Р
1024x768	60.00	Р	60.00	Р
1280x720	59.94/60.00	Р	59.94/60.00	Р
1280x720	50.00	Р	50.00	Р
1920x1080	59.94/60.00	Р	59.94/60.00	Р
1920x1080	59.94/60.00	i	59.94/60.00	Р
1920x1080	50.00	Р	50.00	Р
1920x1080	50.00	i	50.00	Р
1920x1080	59.94/60.00	i	59.94/60.00	Р
1920x1080	29.97/30.00	Р	59.94/60.00	P*
1920x1080	25.00	Р	50.00	P*
1920x1080	23.98/24.00	Р	47.96/48.00	P*
2048x1080	59.94/60.00	Р	59.94/60.00	Р
2048x1080	50.00	Р	50.00	Р
2048x1080	29.97/30.00	Р	59.94/60.00	P*
2048x1080	25.00	Р	50.00	P*
2048x1080	23.98/24.00	Р	47.96/48.00	P*
3840x2160	59.94/60.00	Р	59.94/60.00	Р
3840x2160	50.00	Р	50.00	Р
3840x2160	29.97/30.00	Р	59.94/60.00	P*
3840x2160	25.00	Р	50.00	P*
3840x2160	23.98/24.00	Р	47.96/48.00	P*
4096x2160	59.94/60.00	Р	59.94/60.00	Р
4096x2160	50.00	Р	50.00	Р
4096x2160	29.97/30.00	Р	59.94/60.00	P*
4096x2160	25.00	Р	50.00	P*
4096x2160	23.98/24.00	Р	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.	Check the installation and connection of the external sensor and retry (26).
		Perform matrix calibration of CA-310 and CA-210 (26).
	Calibration is completed. (Brightness setting is lower than target brightness.)	Set the "Luminance" in calibration again (46).
	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 1-3".
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.

	Message	Description and Action
Hardware error	Backlight error.	Disconnect the power cord, reconnect it, and then
	Fan error.	turn on the power. If the message persists, contact Canon Customer
	Panel error.	Center.
	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 (\$\square\$ 78).
	"Input Configuration" is different from Payload.	Check the "Input Configuration" (49) and "Signal Information" (74) settings. Reset any incorrect "Input Configuration" settings.
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.

Troubleshooting

Symptom	Cause and Action	
Power does not turn on.	Press the () button.	12
(Power indicator does not turn on.)	Check that the AC power cord is connected correctly.	21
	Brightness of the power indicator may be turned off. Turn it on and check once more.	70
The screen is dark.	When the power indicator does not turn on:	12
	Press the () button.	21
	Check that the AC power cord is connected correctly.	
	When the power indicator is lit orange: • Press the (b) button.	12
	When the power indicator is flashing orange: • Flashing once every 3 seconds: Contact Canon Customer Center.	12
	Flashing twice every 3 seconds:	
	- Turn on the power with the 🖰 button.	7.5
	- The temperature of the display rises (or falls) depend on operation environment. Check the environmental conditions (\$\omega\$75) and do not use	75
	in direct sunlight.	
	- If the power still does not turn on, contact Canon Customer Center.	
The image does not display.	Set each item in "Channel Settings" according to input signal.	49
There is a blank area when set to Quad Input/Dual Input.	There may be no input signal. Look at the display area icon in the interface area and check that the input area and signal cables are	19
	properly connected.	
	Signals with different resolution or frequency may be input from each terminal. Check the signal.	74
Screen is too bright/dark.	Adjust the "Contrast" on the OSD menu.	39
	There is a limit on the service life of LCD backlight. If the screen becomes dark or starts flickering, contact Canon Customer Center.	
Burn-in image appears.	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.	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.	The symptom may be resolved by displaying a white or black image on the entire screen.	_
OSD menu cannot be used.	Check that "Protect Settings" is not set.	70
The F button on the main unit is flashing.	When "Peak Luminance Control" is set to "On", the F button assigned with this function flashes when display luminance is restricted.	45
	When "Peak Luminance Control" is assigned to two or more F buttons, one of the buttons flashes.	

Symptom	Cause and Action	
"Aspect Marker", " Safety Zone Marker " or "Area Marker" does not appear.	A channel with no signal, unsupported signal, or with "Input Configuration" not set may be selected. Check the signal.	74
The fan starts to rotate even when "Fan" under "Camera Link" is set to "On" or "Fan Stop" is set to "On".	The fan operates to lower the temperature inside the main unit. The fan stops operating when the temperature inside has lowered.	68
	When "Fan" under "Camera Link" is set to "On", the down time may not match the camera.	70
The fan does not stop even when "Fan" under "Camera Link" is set to "On" or "Fan Stop" is set to "On".	The fan does not stop if the temperature inside the main unit is high. Configure settings after the internal temperature has lowered.	68
	 The fan may not stop in some conditions, for example when used at a high temperature. Use the video display at the operating temperature (\$\sum_{7}\$5) or lower. 	70
Loud fan noise	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".	70
	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.	
You forgot the password for "Protect Settings".	• 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.	12
The video display does not start up in the condition that the power was turned off last time.	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.	71
The image quality for the User mode in "Picture Mode" differs from the image quality of presets.	Select the preset mode by "Copy Picture Mode" and copy the settings.	46
In the "Multi View (Dual)" display, the image quality of the screens on the left	• Check the settings of "Picture Mode", "Picture Function Target" under "Channel Settings" or check the other settings for "Multi View (Dual)"	50 51
and right differ.	display.	υı

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CANON PROFESSIONAL DISPLAY LIMITED WARRANTY FOR PRODUCTS PURCHASED 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

as determined in the Canon USA's repair facility's 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, repairs will be made and the Equipment will be returned at your risk and expense. If you reject, the Equipment will be returned to you at no charge to you to an address within the United States.

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.

In order to obtain warranty service, please contact the authorized Canon retail dealer from whom you purchased the Equipment or contact the CANON INFORMATION CENTER AT **855-4K-CANON** (855-452-2666) or on the internet at **pro.usa.canon.com/support**. You will be directed to the nearest service facility for your Equipment.

Technical support program specifics subject to change without notice.

This Limited Warranty covers all defects encountered in normal use of the Equipment and does not apply in the following cases:

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- B. If the Equipment is defective as a result of sand, dirt or water damage;
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- F. Any maintenance of the Equipment, including any fees for such Maintenance;
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This Limited Warranty does not apply to Equipment purchased outside the United States. This Limited Warranty does not apply to accessories or consumables for the Equipment, which are sold "AS IS", without warranty of any kind by Canon USA. Please retain this warranty card and your Bill of Sale as a permanent record of your purchase. This card ensures that you are contacted promptly should there be a safety inspection, modification or product recall under applicable laws or regulations. This card ensures that you are contacted promptly should there be a safety inspection, modification or product recall under applicable laws or regulations.

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This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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CANON PROFESSIONAL DISPLAY LIMITED WARRANTY FOR PRODUCTS PURCHASED IN CANADA

The limited warranty set forth below is given by Canon Canada Inc. ('Canon Canada') with respect to Canon Professional Display Equipment (the 'Equipment') accompanying this limited warranty in the Equipment's original container, when purchased in Canada. This limited warranty is only effective upon presentation of your bill of sale or other proof of purchase.

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 prepay 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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CANON CANADA INC.

Canon

Canon Inc. 30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501, Japan

AUSTRALIA www.canon.com.au
Canon Australia Pty Ltd

(* 13-13-83 (within Australia only)

(° (61) 02-9805-2000

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CENTRO Y SURAMÉRICA
CANON LATIN AMERICA, INC.

http://www.cla.canon.com

EUROPE www.canon-europa.com

Canon Europa N.V. Bovenkerkerweg 59,

1185 XB Amstelveen, The Netherlands

MÉXICO

CANON MEXICANA, S DE RL DE CV

http://www.canon.com.mx **(***52 (55) 5249-4900

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(* 0800-222-666 (within New Zealand only)

(° (64) 09-489-0300

UNITED KINGDOM www.canon.co.uk

Canon UK Ltd

CCI Service Centre, Unit 130, Centennial Park, Borehamwood, Hertfordshire, WD6 3SE

(*0844-369-0100

USA

CANON U.S.A., INC.

http://pro.usa.canon.com

http://pro.usa.canon.com/support

(* (855) 4K-CANON (855-452-2666)

(USA only)

캐논코리아컨슈머이미징㈜

http://www.canon-ci.co.kr

서울특별시 강남구 테해란로607, 캐논빌딩 5층

대표전화+82(0)2-1588-8133

Canon Korea Consumer Imaging Inc.

http://www.canon-ci.co.kr

5F, Canon Bldg, 607, Teheran-ro, Gangnam-gu,

Seoul, Korea

(' +82(0)2-1588-8133

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