User’s Manual

ColorEdge® CG2700S

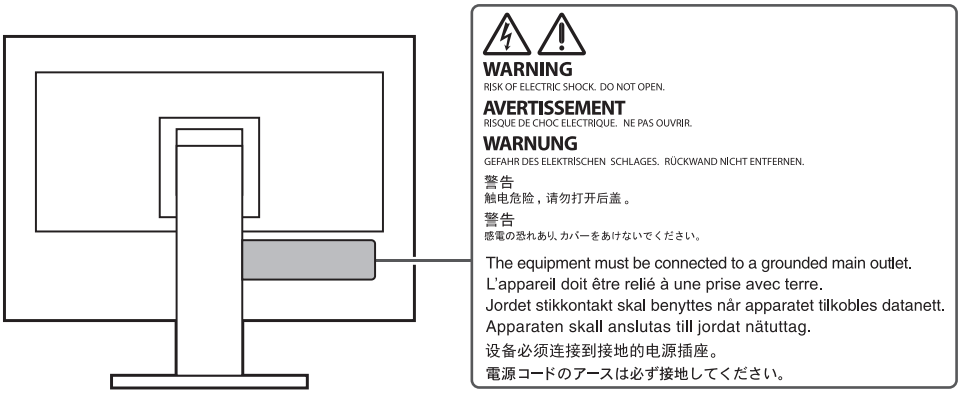
Color Management LCD Monitor

Important

Please read this "User’s Manual", and "PRECAUTIONS" (separate volume) carefully to familiarize yourself with safe and effective usage.

- See the Setup Guide for monitor installation and connection.
- For the latest product information including the "User’s Manual", refer to our web site:
  www.eizoglobal.com

Location of Caution Statement



This product has been adjusted specifically for use in the region to which it was originally shipped.
If operated outside this region, the product may not perform as stated in the specifications.

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Notice for This Product

About the Usage of This Product

- Aside from general purposes like creating documents and viewing multimedia content, this product is also suited to applications such as creating images and graphics, and digital photo processing, where accurate color reproduction is a priority.
- This product has been adjusted specifically for use in the region to which it was originally shipped. If the product is used outside the region, it may not operate as specified in the specifications.
- This product may not be covered by warranty for uses other than those described in this manual.
- The specifications noted in this manual are only applicable when the following are used:
  - Power cords provided with the product
  - Signal cables specified by us
- Only use optional products manufactured or specified by us with this product.

About the LCD Panel

- It takes about 3 minutes (under our measurement conditions) for the monitor display to stabilize. Please wait 3 minutes or more after the monitor power has been turned on, and then adjust the monitor.
- Monitors should be set to a lower brightness to prevent a loss in the screen quality caused by long-term use and to maintain stable use.
- When the screen image is changed after displaying the same image for extended periods of time, an afterimage may appear. Use the screensaver or power save function to avoid displaying the same image for extended periods of time. Depending on the image, an afterimage may appear even if it was displayed for a short period of time. To remove such a phenomenon, change the image or keep the power turned off for several hours.
- If the monitor displays continuously over a long period of time, smudges or burn-in may appear. To maximize the life of the monitor, we recommend the monitor be turned off periodically.
- The LCD panel is manufactured using high-precision technology. Although, missing pixels or lit pixels may appear on the LCD panel, this is not a malfunction. Percentage of effective dots: 99.9994 % or higher.
- The backlight of the LCD panel has a fixed lifetime. Depending on the usage pattern, such as usage for long continuous periods, the lifespan of the backlight may run out sooner, requiring replacement. When the screen becomes dark or begins to flicker, please contact your local EIZO representative.
- Do not press on the LCD panel surface or edge of the frame strongly, as this may result in display malfunctions, such as moiré patterns, etc. If pressure is continuously applied to the LCD panel surface, the liquid crystal may deteriorate or the LCD panel may be damaged. (If the pressure marks remain on the LCD panel, leave the monitor with a black or white screen. The symptom may disappear.)
- Do not scratch or press on the LCD panel with any sharp objects, at this may result in damage to the LCD panel. Do not attempt to brush with tissues as this may scratch the panel.

About the Installation

- If you place this product on a lacquer-coated desk, the color may adhere to the bottom of the stand due to the composition of the rubber. Check the desk surface before use.
- When the product is cold and brought into a room or the room temperature goes up quickly, dew condensation may occur on the interior and exterior surfaces of the product. In that case, do not turn the product on. Instead wait until the dew condensation disappears, otherwise it may cause some damage to the product.

Cleaning

Periodic cleaning is recommended to keep the product looking new and to prolong its operation lifetime.

The stains on the cabinet and LCD panel surface can be removed by using the provided ScreenCleaner.

Attention
• Chemicals such as alcohol and disinfectant may cause gloss variation, tarnishing, and fading of the cabinet or LCD panel surface, and also quality deterioration of the image. • Never use thinner, benzene, wax, or abrasive cleaner as they may damage the cabinet or LCD panel surface.

To Use the Monitor Comfortably

- An excessively dark or bright screen may affect your eyes. Adjust the brightness of the monitor according to the environmental conditions.
- Staring at the monitor for a long time tires your eyes. Take a 10-minute rest every hour.

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1 Introduction

This chapter describes the features of the monitor and the name of each control.

1.1 Features

1.1.1 Support for HDR (High Dynamic Range) video

- Complies with the international HDR standards for movies and broadcasts
  Supports both the HDR "PQ format" for streaming and movie production, and the HDR "Hybrid Log Gamma format" for broadcasts. The "PQ format" complies with the ITU-R BT.2100[*1] and SMPTE ST.2084[*2] international HDR standards, and the "Hybrid Log Gamma format" complies with the ITU-R BT.2100 international HDR standard. This makes it possible to use the monitor for the color grading of a wide range of HDR content, such as movies and broadcasts.

[*1] ITU-R is the International Telecommunication Union-Radio communication Sector.

[*2] SMPTE is the Society of Motion Picture and Television Engineers.

- Built-in color mode function
  Reproduces a color temperature, gamma, and color gamut compliant with ITU-R BT.2100 and other standards.
  See Color Mode [19].

1.1.2 Built-in mode for automatically switching to the optimal color settings

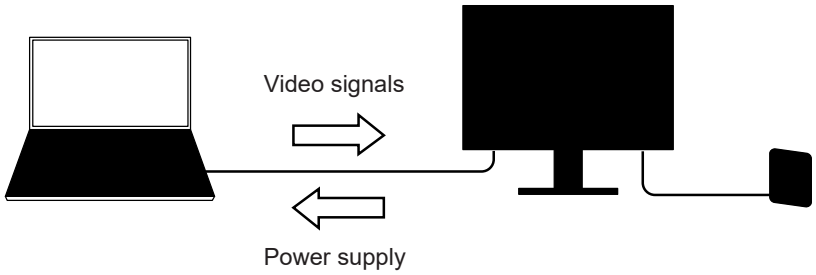
- Color Mode "SYNC_SIGNAL"
  This monitor is equipped with a color mode (SYNC_SIGNAL) so you can automatically set the optimal values for the color settings of the monitor according to the input signal. If you use this mode, the color settings of the monitor automatically switch to the optimal color settings for HDR when the input signal is switched from SDR to HDR, so setting the colors manually is not necessary.

1.1.3 Various functions that support color grading work

- Dedicated video production functions, such as a Gamut Warning function and a Luminance Warning function
  See Advanced Adjustments/Settings [16].
- User-defined custom key function
  Work efficiency can be improved by assigning frequently used functions to the buttons on the front of the monitor.
  See Custom Key Settings [39].
- Displays HDCP (High Bandwidth Digital Protection) protected content
- Monitor hood included as standard
  Includes a monitor hood that effectively prevents reflections from external light, such as the reflected glare of a light. The monitor hood uses magnets for easy attachment and removal.
- SelfCalibration function
  The built-in calibration sensor enables the monitor to calibrate itself by using SelfCalibration.
  See SelfCalibration [34].

1.1.4 Support for DisplayPort Alt Mode/USB Power Delivery

- Includes USB Type-C® (hereinafter USB-C®) connector
  Supports the transmission of video signals (DisplayPort Alt Mode) as well as the charging of USB devices (USB Power Delivery).
  It supplies a maximum of 92 W of power to a connected notebook PC when used as an external monitor.

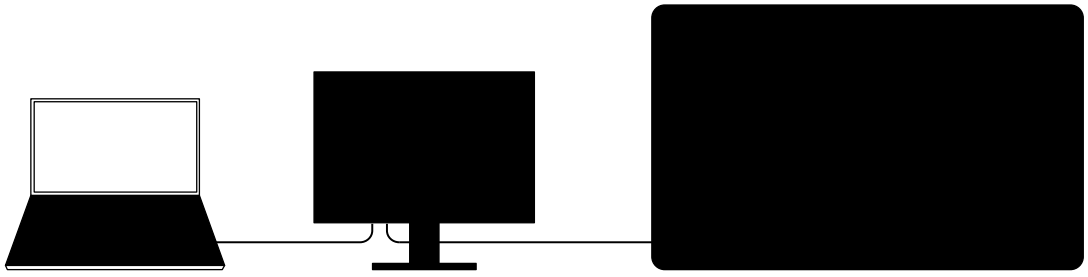


Note

- To display video signals, the connected device must support transmission of video signals (DisplayPort Alt Mode).
- To use the charging function, the connected device must support device charging by using USB Power Delivery.
- Only when the following USB cables are used, a maximum of 92 W of power can be supplied:
  - CC200SS-5A (Included)
  - CC100 (Optional accessory)
- Connected devices can be charged even when the monitor is in power saving mode.

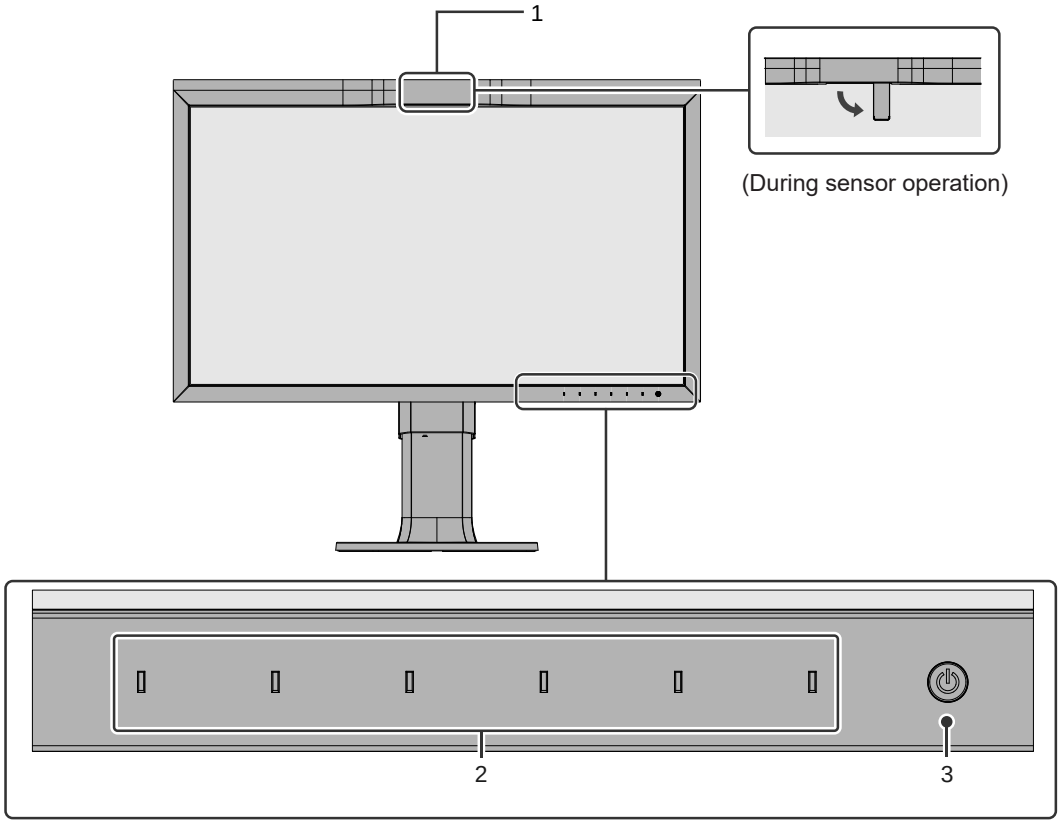
1.1.5 Includes Docking Station Function

- Includes LAN port and USB hub
  Connecting via USB-C allows you to use a stable network environment even with laptops or tablets that lack LAN ports. In addition, peripheral devices that support USB can be used, and smartphones can be charged.
  See Using the Docking Station Function [66].



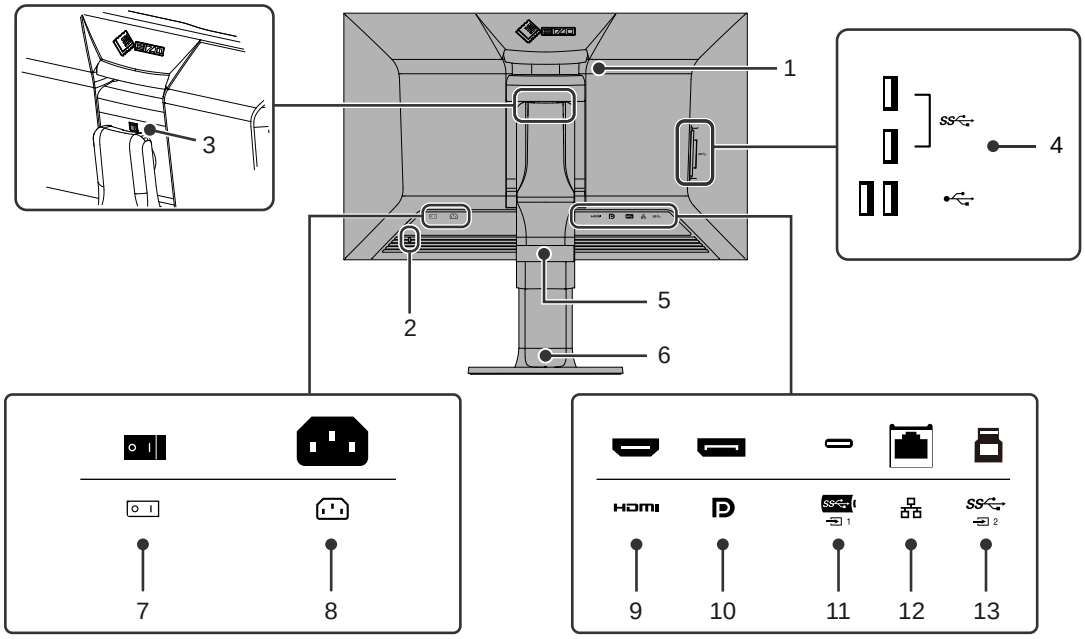
1.2 Controls and Functions

1.2.1 Front



1. Built-in calibration sensor	This sensor is used to perform monitor calibration. When SelfCalibration is executed, the calibration sensor automatically operates and regularly calibrates the monitor. (see SelfCalibration [34]).
2. Operation switches	Displays menus. Operate the switches according to the operation guide (see Basic Operation of the Setting Menu [16]).
3. Power switch	Turns the power on or off. Touching the switch turns on the power. The switch indicator lights up when you turn the power on. The indicator color differs depending on the monitor's operation status. White: Normal operation mode Orange: Power saving mode OFF: Main power/power off

1.2.2 Rear



1. Handle	This handle is used for transportation.
2. Security lock slot	Complies with Kensington's MicroSaver security system.
3. Lock button	Use this button to remove the monitor from the stand.
4. USB-A connector (downstream)	Connects to a peripheral USB device (see Using the Docking Station Function [66]).
5. Cable holder	Holds the monitor cables.
6. Stand[*1]	Adjusts the height and angle (tilt and swivel) of the monitor. The monitor can also be rotated vertically.
7. Main power switch	Turns the main power on or off. | : On, ◯: Off
8. Power connector	Connects the power cord.
9. HDMI connector	Connects to an external device with HDMI output.
10. DisplayPort connector	Connects to an external device with DisplayPort output.
11. USB-C connector (upstream)	Connects to an external device with USB-C output. This also transmits the USB signal that is necessary for using software that requires a USB connection or the Docking Station Function (see Using the Docking Station Function [66]).
12. LAN port (RJ-45)	When using the network connection of the Docking Station Function, connect the modem or router using a LAN cable (see Using the Docking Station Function [66]). A USB-C connection is required for network connection.
13. USB-B connector (upstream)	Connect using USB cable when using software that requires a USB connection. The blue connector.

[*1] An optional arm (or optional stand) can be attached by removing the stand section.

2 Basic Adjustments/Settings

This chapter describes the basic functions that can be set by pressing the buttons on the front of the monitor.

For advanced adjustment and setting procedures using the Setting menu, see Advanced Adjustments/Settings [16].

2.1 Switch Operation Method

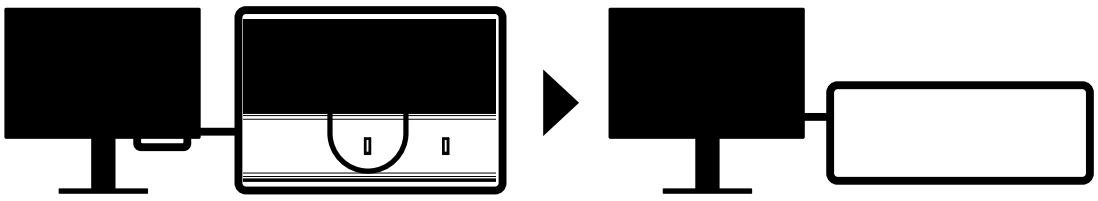
1. Touch any switch (except).
   The operation guide appears on the screen.

Note
• Do not directly touch the operation guide that appears on the screen. There are switches below the operation guide that can be touched to perform adjustment/setting.

2. Touch a switch for adjustment/setting.
   The Adjustment/Setting menu appears.
   (A sub menu may also be displayed. In this case, select the item for adjustment/setting using and select .)
3. Perform adjustment/setting with the switches and select to accept the changes.
4. Select to exit the menu.

2.2 Switching Input Signals

When a monitor has multiple signal inputs, the signal to display on-screen can be changed.



2.3 Switching the Display Mode (color mode)

This function allows easy selection of a display mode according to monitor application.

2.3.1 Display Modes

Standard Mode

Adjust color using the monitor's Setting menu.

Color Mode	Purpose
User	See Color Mode Setting Values [14] for detailed setting values for each color mode.
BT.2020	
BT.709	
DCI-P3	
PQ_DCI-P3	
HLG_BT.2100	
Adobe®RGB	
sRGB	
SYNC_SIGNAL	

Note

- If you switch between SDR color modes ("BT.2020", "BT.709", and "DCI-P3") and HDR color modes ("PQ_DCI-P3" and "HLG_BT.2100"), wait 30 minutes or more after switching the color modes, and then adjust the monitor.

Advanced Mode

Adjust the monitor’s display using the monitor’s SelfCalibration function or color management software "ColorNavigator 7".

Color Mode	Purpose
CAL	Displays the screen adjusted by SelfCalibration or ColorNavigator 7.

2.3.2 Color Mode Setting Values

Item				Color Mode									
				User	BT.2020	BT.709	DCI-P3	PQ_DCI-P3	HLG_BT.2100	Adobe ®RGB	sRGB	CAL	SYNC_SIGNAL
Brightness (cd/)				100	100	100	48	300	300	100	100	-	100[*1]
Temperature				6500K	D65	D65	D65	D65	D65	D65	D65	-	D65
Gamma (EOTF)				2.2	2.4	2.4	2.6	PQ	HLG	2.2	sRGB	-	2.4[*1]
PQ Option				-	-	-	-	1000cd / Emulation	-	-	-	-	-
HLG Option				-	-	-	-	-	Off	-	-	-	-
HLG System Gamma				-	-	-	-	-	1.2	-	-	-	-
Color Gamut				Native	BT.2020	BT.709	DCI-P3	DCI-P3	BT.2020	Adobe ®RGB	sRGB	-	BT.709[*1]
Advanced Settings	Hue			0	0	0	0	0	0	0	0	-	0
	Saturation			0	0	0	0	0	0	0	0	-	0
	Gamut Clipping			On	On	On	On	On	On	Off	Off	-	On
	XYZ Format			-	-	-	Off	Off	-	-	-	-	-
	Gain	Red		Calculated from color temperature								-	Calculated from color temperature
		Green										-	
		Blue										-	
	Black Level	All		0	0	0	0	0	0	0	0	-	0
		Red		0	0	0	0	0	0	0	0	-	0
		Green		0	0	0	0	0	0	0	0	-	0
		Blue		0	0	0	0	0	0	0	0	-	0
	6 Colors	Magenta	Hue	0	0	0	0	0	0	0	0	-	0
			Saturation	0	0	0	0	0	0	0	0	-	0
			Lightness	0	0	0	0	0	0	0	0	-	0
		Red	Hue	0	0	0	0	0	0	0	0	-	0
			Saturation	0	0	0	0	0	0	0	0	-	0
			Lightness	0	0	0	0	0	0	0	0	-	0
		Yellow	Hue	0	0	0	0	0	0	0	0	-	0
			Saturation	0	0	0	0	0	0	0	0	-	0
			Lightness	0	0	0	0	0	0	0	0	-	0

Item				Color Mode									
				User	BT.2020	BT.709	DCI-P3	PQ_DCI-P3	HLG_BT.2100	Adobe®RGB	sRGB	CAL	SYNC_SIGNAL
		Green	Hue	0	0	0	0	0	0	0	0	-	0
			Saturation	0	0	0	0	0	0	0	0	-	0
			Lightness	0	0	0	0	0	0	0	0	-	0
		Cyan	Hue	0	0	0	0	0	0	0	0	-	0
			Saturation	0	0	0	0	0	0	0	0	-	0
			Lightness	0	0	0	0	0	0	0	0	-	0
		Blue	Hue	0	0	0	0	0	0	0	0	-	0
			Saturation	0	0	0	0	0	0	0	0	-	0
			Lightness	0	0	0	0	0	0	0	0	-	0

*1 This is set automatically according to the input signal. If the value cannot be retrieved from the input signal, the value shown in the table is set.

Note

- Use ColorNavigator 7 or SelfCalibration to set "CAL".
- A color mode can be set for each input signal.
- See Color [18] for details about each item.
- You can disable specific mode selections. For more information, see Mode Skip [31].

3 Advanced Adjustments/Settings

This chapter describes the advanced monitor adjustment and setting procedures using the Setting menu. For the basic setting functions using the buttons on the front of the monitor, see Basic Adjustments/Settings [12].

3.1 Basic Operation of the Setting Menu

1. Touch any switch (except).
   The operation guide appears.
2. Select .
   The Setting menu appears.

3. Select a menu to adjust/set with and select .
   The Sub menu appears.

4. Select a menu to adjust/set with and select .
   The Adjustment/Setting menu appears.

5. Perform adjustment/setting with or and select to accept the changes.
   The Sub menu appears.
   Selecting during adjustment/setting will cancel the adjustment/setting and restore the state prior to making changes.
6. Selecting several times will terminate the Setting menu.

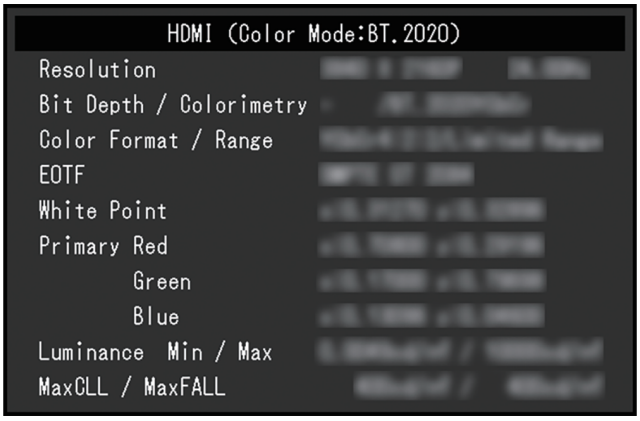
3.2 Setting Menu Functions

3.2.1 Signal

The signal settings are used to configure advanced settings for input signals, such as the color format and input range.

Signal Information

You can check the information for the input signal.



Input Color Format

Settings: "Auto" / "YUV 4:2:2[*1]" / "YUV 4:4:4[*1]" / "YUV[*2]" / "RGB"

[*1] Only enabled during HDMI input

[*2] Only valid for DisplayPort or USB-C input

The color space of the input signal can be specified.

Try changing this setting if colors are not displayed correctly. Normally, select "Auto".

YUV Color Matrix

Settings: "Auto" / "BT.601" / "BT.709" / "BT.2020"

Select the YUV format of the input signal. Use this setting for gradation collapse or other occurrences where the screen is displayed incorrectly because of a problem with the input signal.

Input Range

Settings: "Auto" / "Auto 109%" / "Full" / "Limited (109% White)" / "Limited" / "SDI Full"

Depending on the external device, the black and white levels in the video signal output to the monitor may be restricted. If the signal is displayed on the monitor in its restricted form, the blacks will be faint, the whites dull, and contrast will be reduced. The video range displayed on the monitor can be switched to make these signals the actual contrast ratio of the monitor.

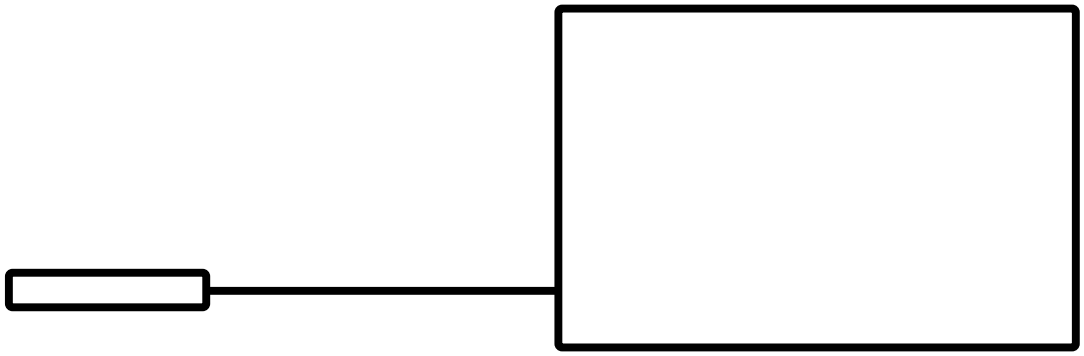
- "Auto"
  The monitor automatically recognizes the range of input signals and displays images appropriately.
  – If the input signals are the full range, it displays them as "Full".
  – If the input signals are a limited range, it displays them as "Limited".
- "Auto 109%"
  The monitor automatically recognizes the range of input signals and displays images appropriately.
  – If the input signals are the full range, it uses them as "Full".
  – If the input signals are a limited range, it uses them as "Limited (109% White)".
- "Full"
  The brightness range of the input signal is displayed as 0 – 255 (10 bits: 0 – 1023).
- "Limited (109% White)"
  If "Gamma (EOTF)" is from "1.6" to "2.7" then the brightness range of the input signal is displayed as 16 – 254 (10 bits: 64 to 1019). Otherwise, it is displayed as 16 – 235 (10 bits: 64 – 940).
- "Limited"
  The brightness range of the input signal is displayed as 16 – 235 (10 bits: 64 – 940).
- "SDI Full"
  The brightness range of the input signal is displayed as 1 – 254 (10 bits: 4 – 1019).

3.2.2 Color

The setting details differ depending on the color mode selected.

3.2.2.1 When Color Mode is Standard Mode (User / BT.2020 / BT.709 / DCI-P3 / PQ_DCI-P3 / HLG_BT.2100 / Adobe®RGB / sRGB / SYNC_SIGNAL)

Each color mode setting can be adjusted according to personal preference.



Attention

- The same image may be seen in different colors on multiple monitors due to differences between individual monitors. Make fine color adjustment visually when matching colors on multiple monitors.

Note

- If "Color Mode" is "SYNC_SIGNAL", the "Brightness", "Gamma (EOTF)", and "Color Gamut" are automatically set according to the input signal and cannot be changed.
- Use the values shown in "cd/ " and "K" as a guide only.

Color Mode

Settings: "User" / "BT.2020" / "BT.709" / "DCI-P3" / "PQ_DCI-P3" / "HLG_BT.2100" / "Adobe®RGB" / "sRGB" / "CAL" / "SYNC_SIGNAL"

Select the desired mode according to the monitor application.

Note

- For more information on how to switch modes, see Switching the Display Mode (color mode) [13].
- For "CAL", see When Color Mode is Advanced Mode (CAL) [23].

Brightness

Settings: "40 cd/ " – "450 cd/ "

The screen brightness is adjusted by changing the brightness of the backlight (light source from the LCD back panel).

Note

- If a value that cannot be set is selected, the value will appear in magenta. In such a case, change the value.

Temperature

Settings: "Native" / "4000 K" – "10000 K" / "D50" / "D65" / "DCI" / "User"

Adjusts the color temperature.

The color temperature is used to express the chromaticity of "White". The value is expressed in degrees "K" (Kelvin).

The screen becomes reddish at a low color temperature, and bluish at a high color temperature, like the temperature of a flame.

Specify a color temperature in units of 100 K, or select a standard name.

Note

- Select "Native" to display the original colors of the LCD panel.
- "Gain" allows you to perform more advanced adjustment. When gain is changed, the color temperature is changed to "User".
- The gain preset values are set for each color temperature setting value.

Gamma (EOTF)

Settings: "1.6" – "2.7" / "sRGB" / "EBU(2.35)" / "PQ" / "HLG"

Adjust the gamma.

The brightness of the monitor varies depending on the input signal, however, the variation rate is not simply proportional to the input signal. The control performed to keep the balance between the input signal and the brightness of the monitor is called Gamma correction.

Set the gamma, or select a standard name.

Note

- If you select "HLG", you must set "HLG System Gamma".

PQ Option

Settings: "300cd/ Clipping" / "500cd/ Emulation" / "1000cd/ Emulation" / "4000cd/ Emulation" / "10000cd/ Emulation"

Areas with brightness equal to or greater than the value set here are displayed as clipping or emulation at this setting value for the PQ signal that is input to the monitor.

- "300cd/ Clipping"
  Setting used to check the display of monitor with maximum brightness of 300 cd/m^2. Input video level of 637 (10 bits) or more is clipped.
- "500cd/ Emulation"
  Setting with which the image is properly displayed when monitor brightness is set to 500 cd/m^2. This setting is used for a temporary check because this monitor cannot display 500 cd/m^2. All gradients are emulated.
- "1000cd/ Emulation"
  Setting with which the image is properly displayed when monitor brightness is set to 1000 cd/m^2. This setting is used for a temporary check because this monitor cannot display 1000 cd/m^2. All gradients are emulated.
- "4000cd/ Emulation"
  Setting with which the image is properly displayed when monitor brightness is set to 4000 cd/m^2. This setting is used for a temporary check because this monitor cannot display 4000 cd/m^2. All gradients are emulated.
- "10000cd/ Emulation"
  Setting with which the image is properly displayed when monitor brightness is set to 10000 cd/m^2. This setting is used for a temporary check because this monitor cannot display 10000 cd/m^2. All gradients are emulated.

Note

- This can be set when "PQ" is specified for "Gamma (EOTF)".
- You can check the areas where clipping or emulation occurs. For more information, see Luminance Warning [28].
- For relation between input and output for each setting, see Setting of PQ Option and Display [69].

HLG Option

Settings: "Off" / "HLG300"

When selecting "HLG300" with the brightness set to 300 cd/m^2 for the HLG signal input to the monitor, any areas exceeding 300 cd/m^2 will be clipped. Selecting "Off" will not clip these areas.

Note

- This can be set when "HLG" is specified for "Gamma (EOTF)".

HLG System Gamma

Settings: "1.0" – "1.5"

Adjust the system gamma value for the HLG signal that is input to the monitor.

Note

- This can be set when "HLG" is specified for "Gamma (EOTF)".

Color Gamut

Settings: "Native" / "Adobe®RGB" / "sRGB" / "EBU" / "BT.709" / "BT.2020" / "SMPTE-C" / "DCI-P3"

Set the color reproduction area (color gamut) of the monitor.

"Color Gamut" is the range of colors that can be represented. Multiple standards are defined.

Note

- Select "Native" to display the original color gamut of the LCD panel.
- The method of displaying colors outside the monitor's displayable range within the defined color gamut can be set. For more information, see Advanced Settings - Gamut Clipping [22].

Advanced Settings - Hue

Settings: "-100" – "100"

The hue can be adjusted.

Note

- Using this function may make some color gradations unavailable for display.

Advanced Settings - Saturation

Settings: "-100" – "100"

The saturation can be adjusted.

Note

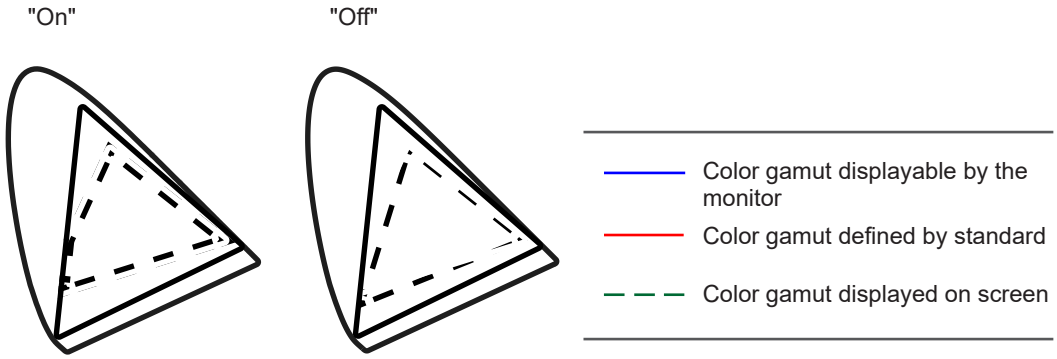
- Using this function may make some color gradations unavailable for display.
- The minimum value (-100) changes the screen to monochrome.

Advanced Settings - Gamut Clipping

Settings: "On" / "Off"

The method of displaying colors outside the monitor's displayable range within the color gamut specified in accordance with Color Gamut [21] can be set.

- "On"
  The range of colors that are displayable on the monitor will be accurately displayed in accordance with the standard. Colors outside the displayable range will be saturated.
- "Off"
  Displays colors with priority on the color gradation rather than the color accuracy. The vertices of the color gamut defined in the standard move to a range that can be displayed by the monitor. This allows the closest colors displayable by the monitor to be displayed.



Note

- The diagrams shown above are conceptual diagrams, and they do not display the actual color gamut of the monitor.
- This setting will be disabled if "Native" is selected at Color Gamut [21].

Advanced Settings - XYZ Format

Settings: "On" / "Off"

If this function is set to "On", the XYZ signal for digital cinema can be displayed on the monitor.

Note

- This can be set only when Color Gamut [21] is set to "DCI-P3".
- If you select "On", you cannot set "Color Gamut".

Advanced Settings - Gain

Settings: "0" – "2000"

The brightness of each color component red, green, and blue is called Gain. The chromaticity of "white" can be changed by adjusting the gain.

Note

- Using this function may make some color gradations unavailable for display.
- The gain value changes according to the color temperature.
- When gain is changed, the color temperature is changed to "User".

Advanced Settings - Black Level

Settings: "0" – "1500"

You can adjust the brightness and chromaticity for black by adjusting the levels of red, green, and blue, or by adjusting all of the black levels. Display the black test pattern or the background and adjust the black level.

Advanced Settings - 6 Colors

Settings: "-100" – "100"

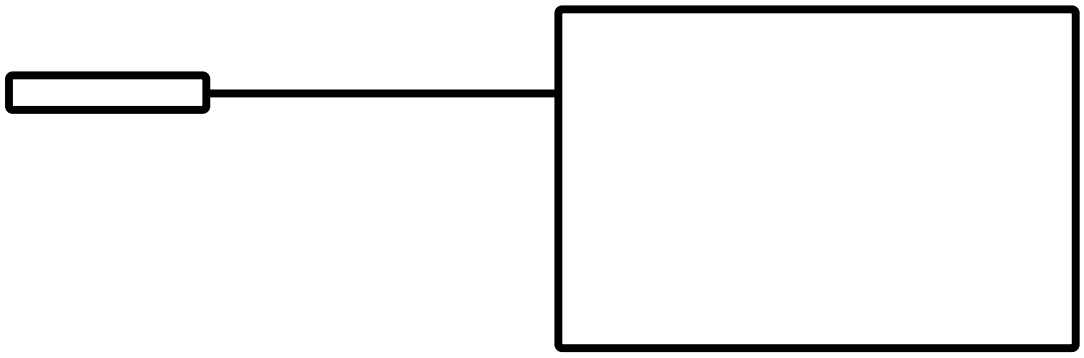
The hue, saturation and lightness (brightness) can each be adjusted for the colors Magenta, Red, Yellow, Green, Cyan, and Blue.

Reset

Resets any color adjustments for the currently selected color mode back to the default settings.

3.2.2.2 When Color Mode is Advanced Mode (CAL)

You can set targets for SelfCalibration and execute calibration.



Color Mode

Settings: "User" / "BT.2020" / "BT.709" / "DCI-P3" / "PQ_DCI-P3" / "HLG_BT.2100" / "Adobe®RGB" / "sRGB" / "CAL" / "SYNC_SIGNAL"

Select the desired mode according to the monitor application.

Note

- For more information on how to switch modes, see Switching the Display Mode (color mode) [13].
- Regarding "User / BT.2020 / BT.709 / DCI-P3 / PQ_DCI-P3 / HLG_BT.2100 / Adobe®RGB / sRGB / SYNC_SIGNAL", see When Color Mode is Standard Mode (User / BT.2020 / BT.709 / DCI-P3 / PQ_DCI-P3 / HLG_BT.2100 / Adobe®RGB / sRGB / SYNC_SIGNAL) [18].

Target Settings - Brightness

Settings: "Min" / "40 cd/ " – "450 cd/ " / "Max"

Set the brightness that will be used as a calibration target for SelfCalibration.

Target Settings - Black Level

Settings: "Min" / "0.2" – "3.5"

Set the black level that will be used as a calibration target for SelfCalibration.

Target Settings - White Point - Temperature

Settings: "4000 K" – "10000 K" / "User" / "D50" / "D65" / "DCI"

Set the White Point that will be used as a calibration target for SelfCalibration.

Set the White Point using the color coordinates (White(x) / White(y)) or color temperature.

When specifying color coordinates, set the values for "White(x)" and "White(y)", respectively.

When specifying the color temperature, set the color temperature in units of 100 K or select a color temperature according to each standard.

Note

- When color coordinates are specified, the color temperature is changed to "User".

Target Settings - White Point - White(x) / White(y)

Settings: "0.2400" – "0.4500"

For more information, see Target Settings - White Point - Temperature [24].

Target Settings - Gamma (EOTF) - Gamma (EOTF)

Settings: "1.00" – "2.70" / "sRGB" / "EBU(2.35)" / "L*" / "PQ" / "HLG" / "User" / "Fixed"

Set the gamma that will be used as the calibration target for SelfCalibration.

Set the gamma, or select the gamma curve defined by each standard.

Target Settings - Gamma (EOTF) - Gamma Policy

Settings: "Standard" / "Gray Balance" / "Fixed Gamma"

Select the gamma adjustment method for SelfCalibration.

- "Standard"
  Adjust the gray balance while retaining the contrast.
- "Gray Balance"
  Adjust the monitor so that the chromaticity of the middle tone area equals the white point.
- "Fixed Gamma"
  Select to use specific gamma settings.

Attention

- If "HLG" is specified for "Gamma (EOTF)", "Fixed Gamma" is selected and this setting cannot be changed.
- With "Gray Balance", all points of the grayscale are adjusted toward the target white point. Select this to prioritize whiteness when correcting the middle tone area. However, the following restrictions apply when "Gray Balance" is selected:
  - The contrast may decrease.
  - The color gamut may be narrower than when adjusting with "Fixed Gamma".

Target Settings - Gamma (EOTF) - PQ Option

Settings: "300cd/ Clipping" / "500cd/ Emulation" / "1000cd/ Emulation" / "4000cd/ Emulation" / "10000cd/ Emulation"

Set the PQ option that will be used as the calibration target for SelfCalibration.

Note
• This can be set when "PQ" is specified for "Gamma (EOTF)".

Target Settings - Gamma (EOTF) - HLG Option

Settings: "Off" / "HLG300"

Set the HLG option that will be used as the calibration target for SelfCalibration.

Note
• This can be set when "HLG" is specified for "Gamma (EOTF)".

Target Settings - Gamma (EOTF) - HLG System Gamma

Settings: "1.0" – "1.5"

Set the HLG system gamma that will be used as a calibration target for SelfCalibration.

Note
• This can be set when "HLG" is specified for "Gamma (EOTF)".

Target Settings - Color Gamut

Settings: "Native" / "Adobe®RGB" / "sRGB" / "EBU" / "BT.709" / "BT.2020" / "SMPTE-C" / "DCI-P3" / "User"

Set the color gamut that will be used as a calibration target for SelfCalibration.

In "Color Gamut", the color gamut defined by each standard can be selected.

To set a color gamut other than those specified by each standard, specify the color coordinates of each RGB color, and the display method ("Gamut Clipping") of colors outside the color gamut of the monitor.

Note
• When you select "Native" in "Color Gamut", the preset color gamut of the LCD panel is displayed. • When color coordinates are specified in the color gamut settings, the "Color Gamut" is changed to "User".

Target Settings - Color Gamut - Red(x) / Red(y) / Green(x) / Green(y) / Blue(x) / Blue(y)

Settings: "0.0000" – "1.0000"

For more information, see Target Settings - Color Gamut [25].

Target Settings - Gamut Clipping

Settings: "On" / "Off"

For more information, see Target Settings - Color Gamut [25].

Target Settings - Advanced Settings - Limited (109% White)

Settings: "On" / "Off"

If this function is set to "On" then, if "Gamma (EOTF)" is from "1.6" to "2.7", the brightness range of the input signal is displayed as 16 – 254 (10 bits: 64 – 1019). If "Gamma (EOTF)" is anything other than "1.6" to "2.7", it is displayed as 16 – 235 (10 bits: 64 – 940).

Note
• This can be set when "1.00 to 2.70" is specified for "Gamma (EOTF)".

Target Settings - Reset

Resets any calibration targets for the currently selected color mode back to the default settings.

Execute Calibration

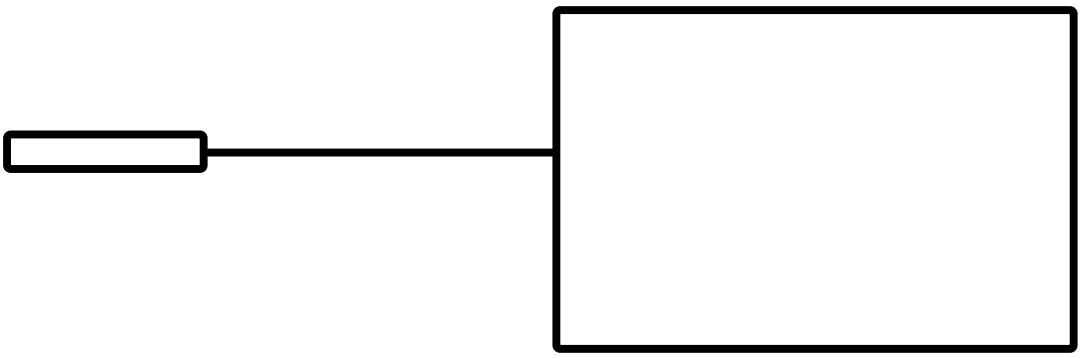
SelfCalibration can be executed manually regardless of the schedule.

3.2.3 SelfCalibration

See SelfCalibration Functions [35].

3.2.4 Screen

Set the details regarding input signal, such as the screen size and color format.



Picture Expansion

Settings: "Auto*1" / "Full Screen" / "Aspect Ratio" / "Dot by Dot"

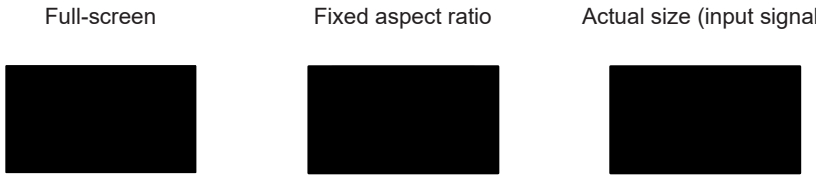
*1 Only enabled during HDMI input

The screen size of the monitor display can be changed.

- "Auto"
  The monitor automatically changes the screen size according to the resolution information and aspect ratio information from the input signal.
- "Full Screen"
  Images are stretched to full screen. However, as aspect ratios are not maintained, images may be distorted in some cases.
- "Aspect Ratio"
  Images are enlarged to full screen without changing the aspect ratio. Since aspect ratios are maintained, blank horizontal or vertical borders may appear.
- "Dot by Dot"
  Displays the image at the set resolution or size specified by the input signal.

Note

- Setting example

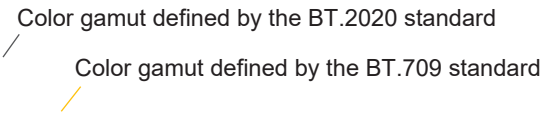


BT.709 Gamut Warning

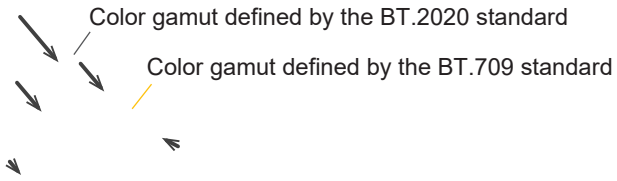
Settings: "Off" / "Clip" / "On"

If a signal that complies with the ITU-R BT.2020 standard is input, you can set the display method for colors that exceed the color gamut for the BT.709 standard.

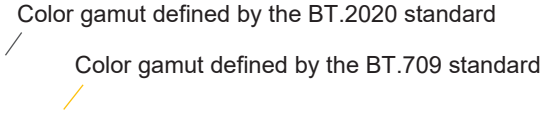
- "Off"
  Images are displayed according to the color gamut for BT.2020.
  (The actual color gamut that is displayed on the monitor will depend on the setting for Advanced Settings - Gamut Clipping [22].)



- "Clip"
  Colors that are outside of the color gamut for BT.709 are expressed within the color gamut for BT.709 (clipping occurs).



- "On"
  Colors that are outside of the color gamut for BT.709 are displayed in gray.



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* E*

% * 0 $

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