

SONY®

HD ELECTRONIC VIEWFINDER

HDVF-EL75



電気製品は、安全のための注意事項を守らないと、
火災や人身事故になることがあります。

このオペレーションマニュアルには、事故を防ぐための重要な注意事項と製品の取り扱い方を示してあります。**このオペレーションマニュアルをよくお読みのうえ、製品を安全にお使いください。**お読みになったあとは、いつでも見られるところに必ず保管してください。

OPERATION MANUAL Japanese/English
1st Edition (Revised 2)



Before operating the unit, please read this manual thoroughly and retain it for future reference.

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.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

All interface cables used to connect peripherals must be shielded in order to comply with the limits for a digital device pursuant to 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.

For the customers in Canada

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

Pour les clients au Canada

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

For the customers in Europe

This product is intended for use in the following Electromagnetic Environments: E1 (residential), E2 (commercial and light industrial), E3 (urban outdoors), E4 (controlled EMC environment, ex. TV studio).

Pour les clients en Europe

Ce produit est prévu pour être utilisé dans les environnements électromagnétiques suivants : E1 (résidentiel), E2 (commercial et industrie légère), E3 (urbain extérieur) et E4 (environnement EMC contrôlé, ex. studio de télévision).

Für Kunden in Europa

Für die folgenden elektromagnetischen Umgebungen: E1 (Wohnbereich), E2 (kommerzieller und in beschränktem

Maße industrieller Bereich), E3 (Stadtbereich im Freien) und E4 (kontrollierter EMV-Bereich, z.B. Fernsehstudio).

Reduction in the Use of Hazardous Substances in Electrical & Electronic Equipment (Applicable in Republic of India)

This product and its components, consumables, parts or spares comply with the hazardous substances restriction of India's E-Waste (Management) Rules. The maximum allowable concentrations of the restricted substances are 0.1% by weight in homogenous materials for Lead, Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBB) and Polybrominated Diphenyl Ethers (PBDE), and 0.01% by weight in homogenous materials for Cadmium, except for the exemptions specified in Schedule II of the aforesaid Rules.

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Precautions

Handling the screen

- The panel fitted to this unit is manufactured with high precision technology, giving a functioning pixel ratio of at least 99.99%. Thus a very small proportion of pixels may be “stuck”, either always off (black), always on (red, green, or blue), or flashing. In addition, over a long period of use, because of the physical characteristics of the panel, such “stuck” pixels may appear spontaneously. These problems are not a malfunction. These phenomena have no effect on the camera’s output signals.
- Do not leave the screen facing the sun as it can damage the screen. Take care when you use the unit outdoors.
- Do not push or scratch the screen. Do not place a heavy object on the screen. This may cause the screen to lose uniformity.
- The screen and the cabinet become warm during operation. This is not a malfunction.
- Do not apply strong shock to the screen. This may damage the internal structure or deform the cabinet.

On burn-in

Due to the characteristics of the material used in the OLED panel for its high-precision images, permanent burn-in may occur if still images are displayed in the same position on the screen continuously, or repeatedly over extended periods.

Images that may cause burn-in

- Masked images with aspect ratios other than 16:9
- Color bars or images that remain static for a long time
- Character or message displays that indicate settings or the operating state
- On-screen displays such as center markers or safety zones

To reduce the risk of burn-in

- Display the image on the full screen. Set the mask display to OFF on the connected camera. For details, refer to the operation manual of the camera.
- Turn off the character and marker displays. Press the MENU switch to turn off the character displays. To turn off the character or marker displays of the connected equipment, operate the connected equipment accordingly. For details, refer to the operation manual of the connected equipment.
- Turn off the power when not in use. Turn off the power if the viewfinder is not to be used for a prolonged period of time.

On IBAC (Intelligent Brightness Ambient Control)

- This product has a built-in IBAC function to reduce burn-in. When a nearly still image is displayed for a specified period of time, the IBAC function is activated automatically and the brightness of the screen decreases.
- The time to start the IBAC function can be specified using the menu.
- The IBAC function can be cancelled by switching the camera image or displaying the status of this unit.

On a long period of use

Due to an OLED's panel structure and characteristics of materials in its design, displaying static images for extended periods, or using the unit repeatedly in a high temperature/high humidity environments may cause image smearing, burn-in, areas of which brightness is permanently changed, lines, or a decrease in overall brightness.

In particular, continued display of an image smaller than the screen, such as in a different aspect ratio, may shorten the life of the unit.

Avoid displaying a still image for an extended period, or using the unit repeatedly in a high temperature/high humidity environment such as an airtight room, or around the outlet of an air conditioner.

To prevent any of the above issues, we recommend reducing brightness slightly, and to turn off the power whenever the unit is not in use.

Handling and maintenance of the screen

The surface of the screen is specially coated to reduce image reflection. Make sure to observe the following points as improper maintenance procedures may impair the screen's performance. In addition, the screen is vulnerable to damage. Do not scratch or knock against it using a hard object.

- Be sure to turn off the power of the connected equipment before performing maintenance.
- The surface of the screen is specially coated. Do not attach adhesive objects, such as stickers, on it.
- The surface of the screen is specially coated. Do not touch the screen directly.
- Wipe the screen surface gently with the supplied cleaning cloth or a soft dry cloth to remove dirt.
- Stubborn stains may be removed with the supplied cleaning cloth, or a soft cloth slightly dampened with a mild detergent solution.
- The screen may become scratched if the cleaning cloth is dusty.
- Never use strong solvents such as alcohol, benzene, thinner, acidic or alkaline detergent, detergent with

abrasives, or chemical wipe as these may damage the screen.

- Use a blower to remove dust from the screen surface.

On installation

- Allow adequate air circulation to prevent internal heat build-up.
Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
- Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

On dew condensation

If the viewfinder is moved suddenly from a cold place to a warm place, or used in a room with high humidity, water droplets may form on the interior of the product.

This phenomenon is known as dew condensation.

This product does not come with a feature that warns users of dew condensation. If water droplets are found on the casing, turn off the power, and wait until the condensation disappears before using.

Disposal of the unit

Do not dispose of the unit with general waste.

Do not include the unit with household waste.

When you dispose of the unit, you must obey the law in the relative area or country.

Overview

The HDVF-EL75 HD Electronic Viewfinder is a 7.4-type color viewfinder for use with a Sony high-definition color camera.

This viewfinder has the following features:

Advantages of OLED panel technology

The OLED panel makes use of an organic material, which emits light when an electric current is applied. Being self-emitting, the strength of luminescence can be controlled by the amount of electric current. This brings about the following three features:

Quick motion picture response:

The luminescent state of the OLED panel can be changed instantaneously by changing the current flow in the organic material. This enables a quick motion picture response and production of images with minimal blurring and ghosting. Furthermore, performance for shooting on location is not influenced by changes in environmental temperature.

High contrast and wide dynamic range:

The OLED panel does not emit light when black signal is applied to the viewfinder, enabling a pure black screen to be displayed. Furthermore, thanks to high peak brightness the panel impressively displays brilliance and clarity of various sparkling images, such as stars in a night sky twinkling, night illuminations winking or glass glittering, etc.

Rich color reproduction:

An OLED panel's self-luminescence also allows for great color reproduction across the entire spectrum in practically any shade or brightness.

Sony's Super Top Emission OLED panel

The 7.4 type Quarter HD (960 × 540) OLED panel features Sony's Super Top Emission structure. Unlike the conventional bottom emission structure of TFT, Sony's Super Top Emission OLED panel can reproduce a crisper image due to high brightness.

Furthermore, a unique microcavity structure makes RGB primary colors purer and deeper by utilizing light resonance effects that magnify optimum light wave lengths and diminish undesired light wave lengths. Adding color filters allows even richer RGB reproduction.

The panel's 10-bit driver enables smooth gradation of color shading.

Color space function

The matrix switching function brings to you broadcast standard (ITU-R BT.709/EBU/SMPTE-C) color space settings.

Setting the matrix to OFF reproduces images in the original wide color space of OLED.

Proprietary feedback circuit

Automatic monitoring and feedback of emitted light and color variation enable stable, long-term color reproduction.

Focus Assist function

This viewfinder comes with original Focus Assist function to support accurate focusing.

- Image magnification function
A portion of the image can be magnified vertically and horizontally while displaying the image for composing the picture. The magnified image retains full HD resolution, as the input signal is not resized.
- Peaking Plus function
Edge enhancement can be performed on the object that is specified using a color, area selected, or both.

To switch to preset adjustment settings

Brightness, contrast, peaking, and chroma levels can be preset for selection through an assignable switch or a menu operation.

Assignable switch

Two assignable switches each are provided on the left and right handles for frequently used functions.

Tally indicators

The viewfinder comes with three tally indicators (red, green, and yellow), which light up in response to tally signals.

Check the connected camera to identify whether the use of the yellow tally indicator is supported.

Waveform Monitor function

The input signal waveform can be basically displayed in the sub display.

Superior operation

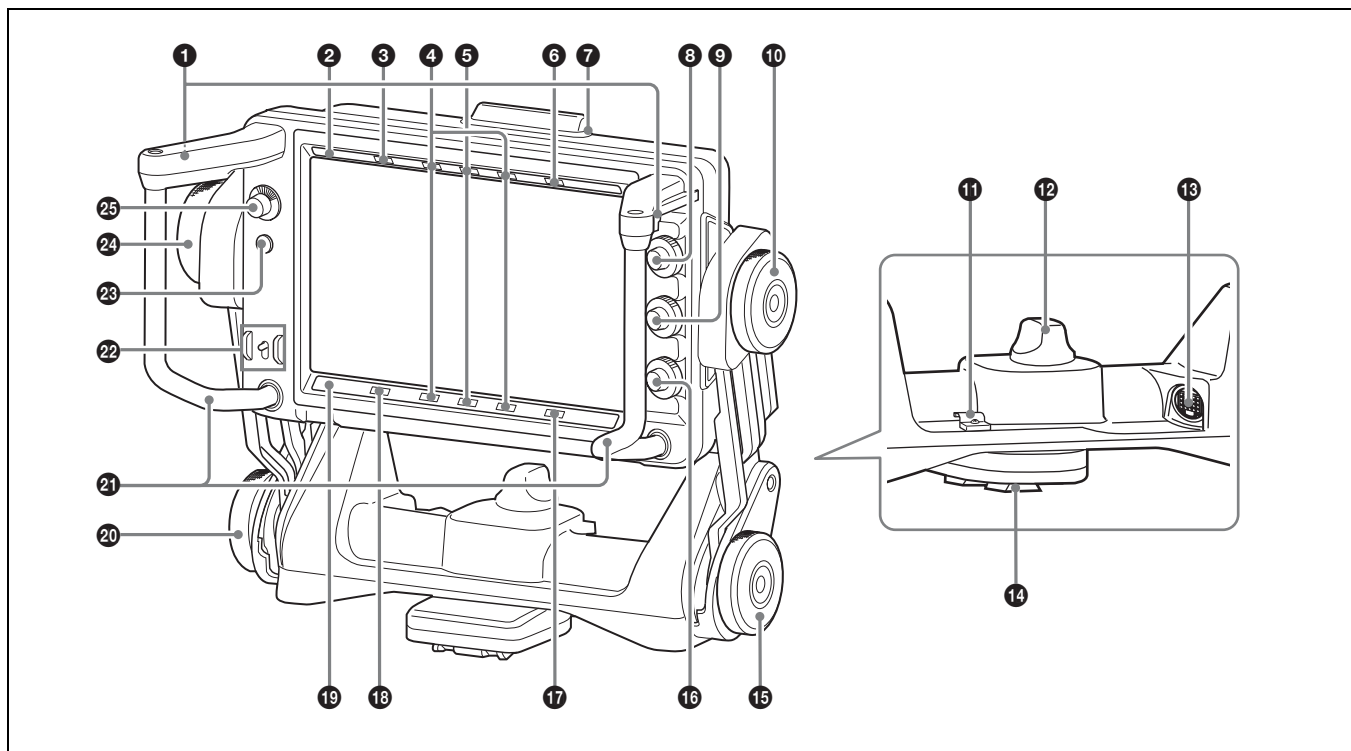
- New screen positioning mechanism
Use of a counterbalance mechanism to optimize weight distribution of the panel and link arms allows screen tilting and lifting at once with a light operational feeling.
- Large handles equipped with assignable switches
Large handles each equipped with two assignable

switches are provided for the left and right sides of the screen. These do not hinder the operator's view, and they offer comfortable operation.

Supplied indoor hood and optional VFH-790 outdoor hood

The indoor hood is supplied. The optional VFH-790 outdoor hood offers superior shading character.

Functions of Parts and Controls



1 ASSIGN. (assignable) switches

Can be used to store frequently used functions. The switches ASSIGN. L1 and ASSIGN. L2 are located on the left handle, and ASSIGN. R1 and ASSIGN. R2 are located on the right handle. Storing a function is performed using “ASSIGN. L1,” “ASSIGN. L2,” “ASSIGN. R1,” or “ASSIGN. R2” in the FUNCTION menu.

2 PEAKING PLUS indicator (blue)

Lights up when “PEAKING MODE” in the PEAKING menu is set to “PLUS.”

3 MAG (magnification) indicator (amber)

Lights up when the displayed image is magnified (when the ASSIGN. switch of the MAGNIFICATION function is set to “ON,” or “MAGNIFICATION” in the MAGNIFICATION menu is set to “ON”).

4 R TALLY indicator (red)

Lights up when the red tally signal is input.

5 G TALLY indicator (green)

Lights up when the green tally signal is input.

6 BATT (battery) indicator (red)

Lights up or flashes, to indicate the status of the battery attached to the camera as follows.

Lit: The battery is drained.

Flashing: The voltage of the battery has dropped below the threshold value.

To prevent camera from shutting down, change the battery as soon as possible after this indicator begins flashing.

The threshold battery voltage value at which this indicator begins flashing can be set by the camera. For details, refer to the manual for the camera.

7 Up-tally lamp (red)

The supplied number plate can be attached to this. The lamp lights up when the red tally signal is input.

8 BRIGHT control

Adjusts the brightness of the viewfinder image. This control does not affect the output signal of the camera.

9 CONTRAST control

Adjusts the contrast of the viewfinder image. This control does not affect the output signal of the camera.

10 Tilt-lock knob

Turn this knob in the direction of the arrow indicated on the knob to secure the tilting position of the viewfinder.

11 Cable clamp

Clamp the supplied connecting cable.

12 COUNTER BALANCE control

Adjust the counterbalance for the screen. Turning the control toward + increases counterbalance. If the control movement is too tight, lift the screen then turn the control.

13 Camera connector (round-type, 20-pin)

Connects to the camera's VF connector using the supplied connecting cable.

CAUTION

When you connect the network cable of the unit to peripheral device, use the supplied cable to prevent malfunction due to radiation noise.

14 Mounting wedge

To attach the viewfinder to the camera, mount the viewfinder in the V-wedge shoe attachment attached on top of the camera.

For attachment, see "Attaching to the Camera" on page 34.

15 Lift-lock knob

Turn this knob in the direction of the arrow indicated on the knob to fix the height of the viewfinder.

16 PEAKING control


Adjusts the sharpness of the viewfinder image. Turn the control clockwise to make the edges sharper. This control does not affect the output signal of the camera.

17 Y TALLY indicator (yellow)

Lights up when the yellow tally signal is input.

18 (attention) indicator (amber)

Lights up when the camera detects certain conditions. The conditions under which the indicator lights up are specified on the camera.

For details on how to set up and verify the conditions under which the  indicator lights up, refer to the operation manual of the camera in use.

19 STATUS indicator (amber)

Shows the current status of the viewfinder.

Blinking in intervals of 0.5 seconds for two times, followed by going off for 2 seconds: Rise in internal temperature.

Turn off the power temporarily, or move the viewfinder to a cool place.

Blinking in intervals of 2 seconds: Screen saver is currently active.

To stop the screen saver, operate the camera or viewfinder so that the image changes.

Lights up: Fan has been forced to stop.

The indicator goes out and the fan switches to automatic control about five minutes after it is forced to stop.

For details on how to force the fan to stop, see "List of Menu Items" on page 45.

Blinking in intervals of 0.5 seconds: A problem is detected during self-diagnosis.

An error message (see page 51) may be displayed at the same time. Turn off the power and contact your Sony service representative.

20 Lift friction adjustment knob

Adjusts the friction in the lift mechanism.

Turning the knob toward + increases the friction, and toward – decreases the friction.

21 Handles

Use the handles to move the viewfinder's screen.

22 POWER switch

Turns off the power of the OLED panel and goes into a power-saving mode when SAVE is selected.

23 MENU switch

Displays the menu. Use with the MENU control to set various functions.

When the menu is not displayed and this switch is pressed and held for three seconds or more, "VR LOCK" appears. This locks the BRIGHT, CONTRAST, and PEAKING controls at their current settings, preventing accidental operation. To unlock the controls, press this switch for three seconds or more again so that "VR UNLOCK" appears.

For details on operations, see "Using the Menu" on page 43.

24 Tilt friction adjustment knob

Adjusts the friction in the tilting mechanism. Turning the knob toward + increases the friction, and toward – decreases the friction.

25 MENU control

Turn the control to select a menu item, and then press the control to confirm the selection. Use with the MENU switch to set various functions.

When the menu is not displayed, pressing this control shows the status information of the viewfinder on the screen.

For details on operations, see “Using the Menu” on page 43.

Attaching to the Camera

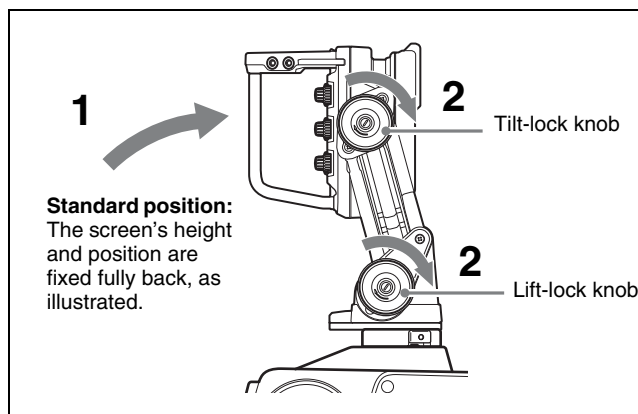
Attach the V-wedge shoe attachment to the camera and attach the viewfinder to the V-wedge shoe attachment.

Notes

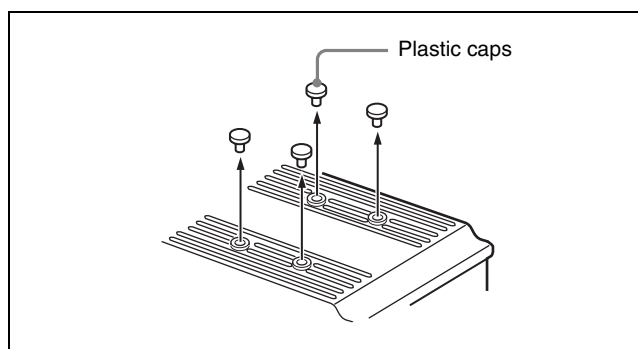
- When attaching the viewfinder to the camera or removing it from the camera, be sure to lock the viewfinder in its standard position.
- When removing the viewfinder from the camera, be sure to secure the tripod with its tilt-lock mechanism and hold the viewfinder firmly. Be careful not to fall or drop the viewfinder and camera.
- When attaching the V-wedge shoe attachment, be sure to use the supplied hexagonal screws.

For how to change the position of the viewfinder attached to the camera, see “Adjusting the Viewfinder Position” on page 36.

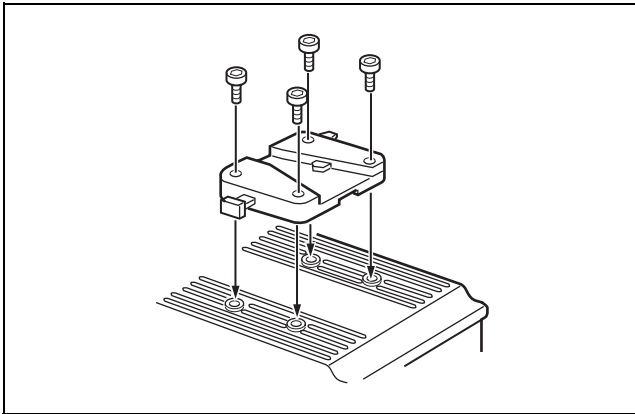
- 1 Reset the viewfinder to the standard position.
- 2 Fix the viewfinder screen in the standard position by turning the tilt-lock knob and lift-lock knob in the direction of the arrow indicated on each knob (toward the lock position).



- 3 Remove the four plastic caps from the camera.

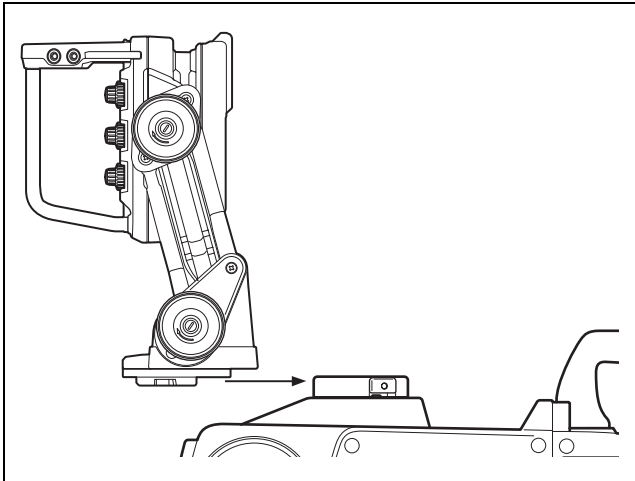


- 4** Attach the supplied V-wedge shoe attachment to the camera using the supplied hexagonal wrench and four hexagonal screws (4 ×12).



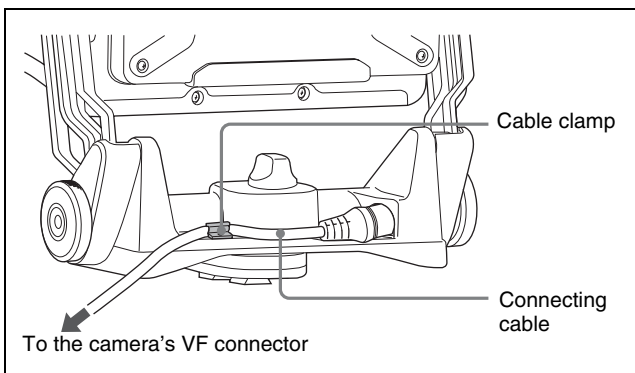
- 5** Mount this viewfinder firmly in the V-wedge shoe attachment.

There is an audible click when the viewfinder snaps into the attachment.



- 6** Connect the camera connector to the camera's VF connector.

Clamp the connecting cable with the cable clamp as shown in the following figure.

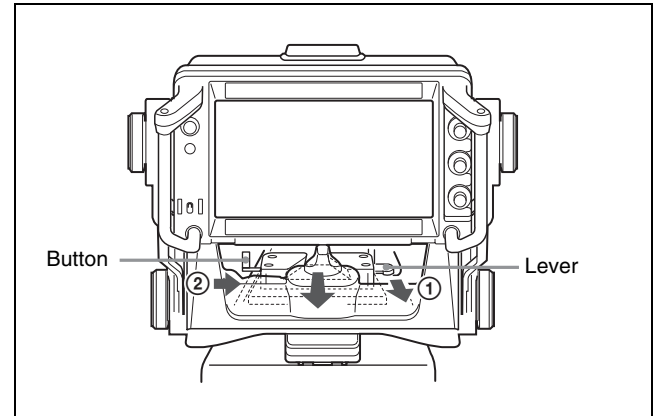


When moving the viewfinder attached to the camera

Reset the viewfinder screen to the standard position and fix it in place by turning the tilt-lock knob and lift-lock knob toward the lock position.

To detach the viewfinder from the camera

Pull the lever and push down the button while pulling the viewfinder toward you, as shown in the figure below.



Turning on the Viewfinder

When the camera is turned on and the POWER switch of the viewfinder is set to ON, power is supplied to the viewfinder.

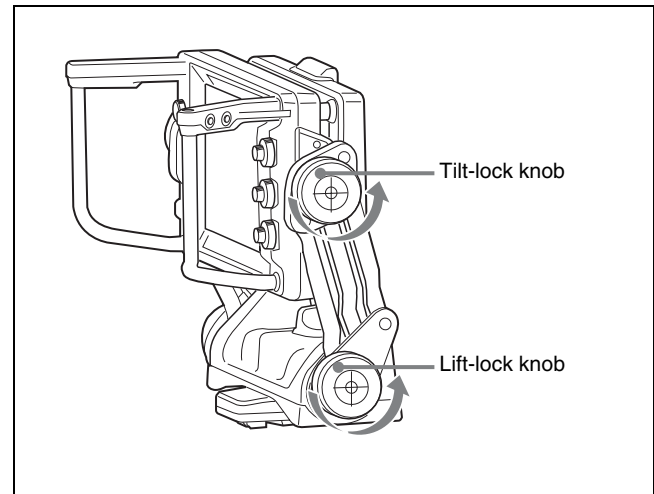
The image will be displayed several seconds after supplying power to the viewfinder.

Adjusting the Viewfinder Position

Adjusting the Height and Tilting/Panning

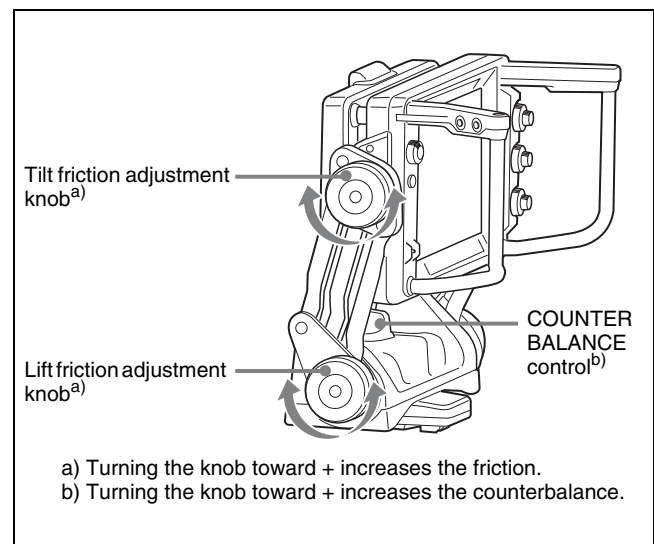
You can adjust the viewfinder height and tilt or pan the viewfinder.

- 1 Turn the tilt-lock knob and lift-lock knob in the direction of the arrow shown below to unlock.

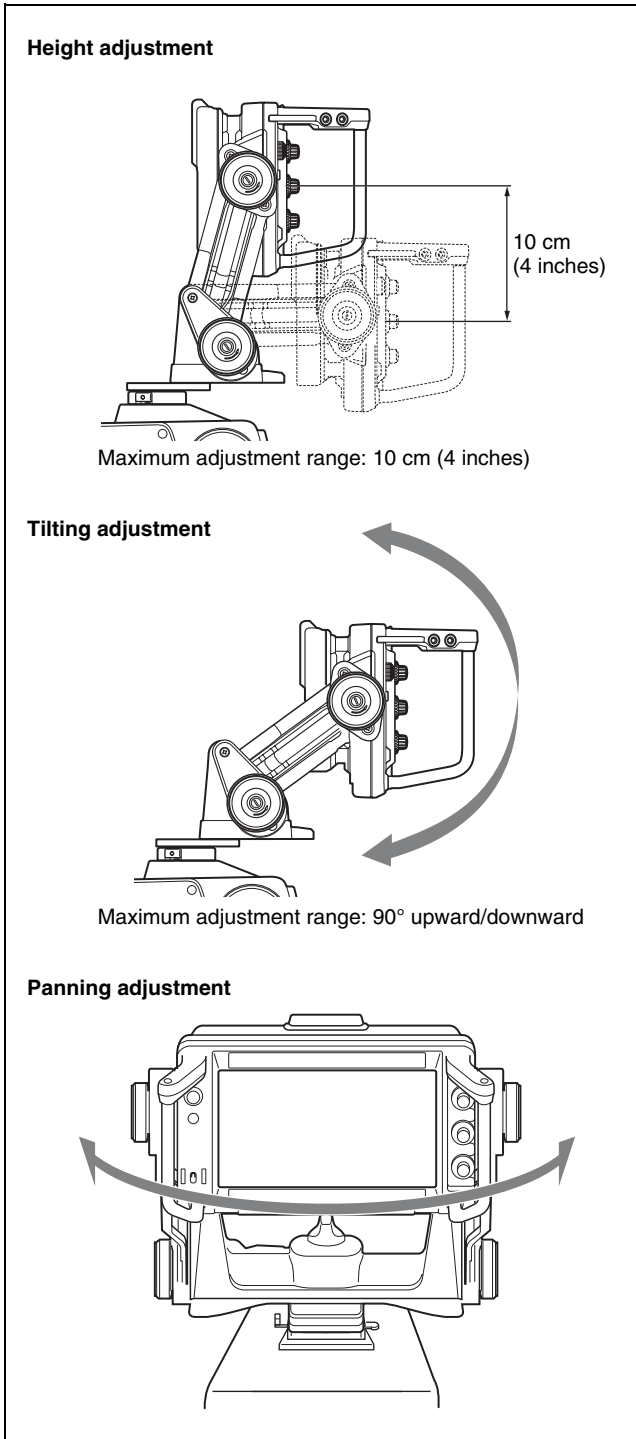


- 2 Turn the tilt friction adjustment knob and lift friction adjustment knob in the direction of the arrow shown below to adjust the friction.

Turn the COUNTER BALANCE control to adjust the counterbalance for the screen, if necessary.



- 3 Holding the handles, move the viewfinder to the desired height and position.



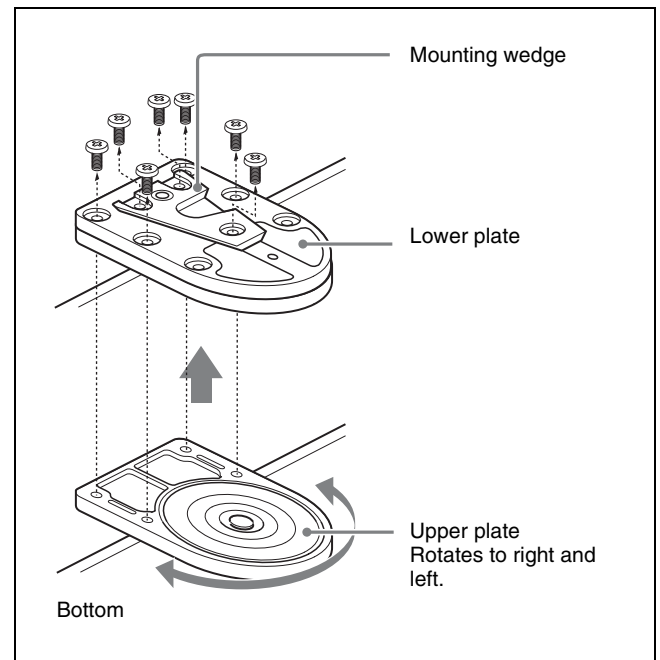
- Depending on the shape of the connected camera, panning of the viewfinder may hinder use of the camera's handle. If the position of the camera's handle is fixed, adjust the position of the mounting wedge and/or plates. (See page 37).

- 4 Turn the tilt-lock knob and lift-lock knob in the direction of the arrow indicated on each knob (toward the lock position) to secure the position of the viewfinder.

Adjusting the Front-Back Position

You can adjust the front-back position of the viewfinder by sliding or rotating the mounting position of the mounting wedge and upper and lower plates at the bottom of the viewfinder.

- 1 Holding the viewfinder firmly, remove the seven screws from the mounting wedge and the lower plate.



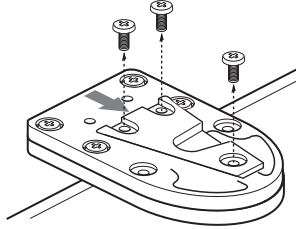
Notes

- The maximum adjustment ranges above are allowed when the viewfinder is positioned near the camera operator. To adjust the front-back position of the mounting wedge or plates, see "Adjusting the Front-Back Position" on page 37.

- 2** Slide or rotate the mounting wedge, lower plate, and/or upper plate as required, then tighten the screws.

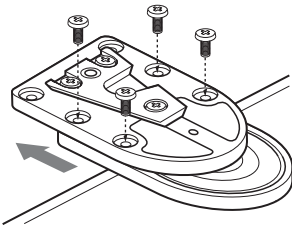
When the mounting wedge is slid forward:

The viewfinder moves 15 mm (19/32 inches) toward the camera operator from the factory default position.



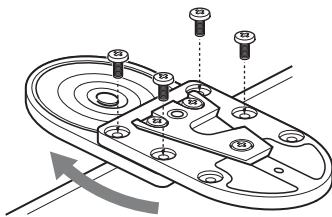
When the lower plate is slid backward:

The viewfinder moves 20 mm (13/16 inches) toward the camera lens from the factory default position.



When the upper plate is rotated 180°:

The viewfinder moves 64 mm (2 5/8 inches) toward the camera operator from the factory default position.



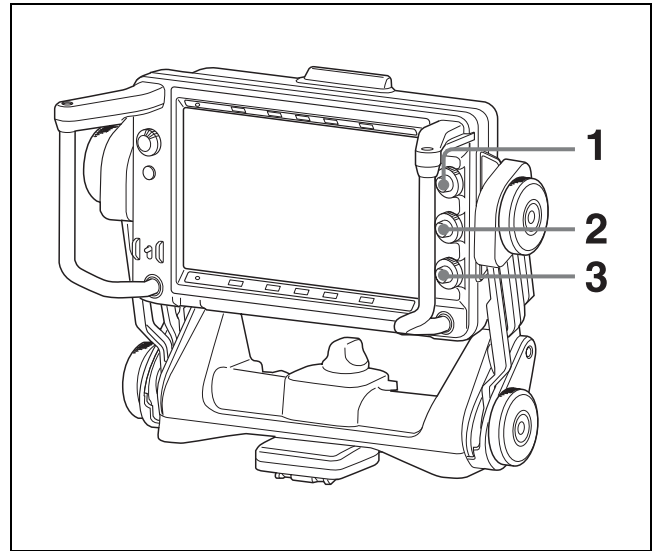
Adjusting the Screen

Note

Before operating, make sure that “PRESET” in the PRESET menu is set to “OFF.”

The BRIGHT, CONTRAST, and PEAKING controls do not operate when “PRESET” is set to “ON.”

For details on menu operations, see “Using the Menu” on page 43.



- 1** Turn the BRIGHT control to adjust the screen brightness.
To increase the brightness: Turn in a clockwise direction.
- 2** Turn the CONTRAST control to adjust the screen contrast.
To increase the contrast: Turn in a clockwise direction.
- 3** Turn the PEAKING control to adjust the peaking.
To sharpen the edges in the image: Turn in a clockwise direction.

To prevent accidental operation of the controls

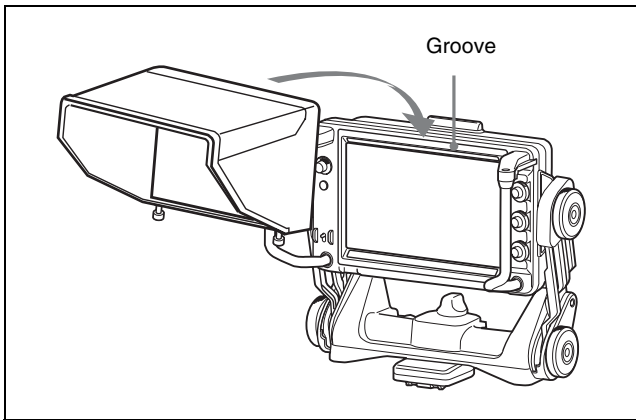
When the menu is not displayed, press and hold the MENU switch for three seconds or more so that “VR LOCK” appears. This locks the BRIGHT, CONTRAST, and PEAKING controls at their current settings, preventing accidental operation. To unlock the controls, press and hold the MENU switch for three seconds or more again so that “VR UNLOCK” appears. The lock is released whenever the power is turned on.

Attaching Accessories

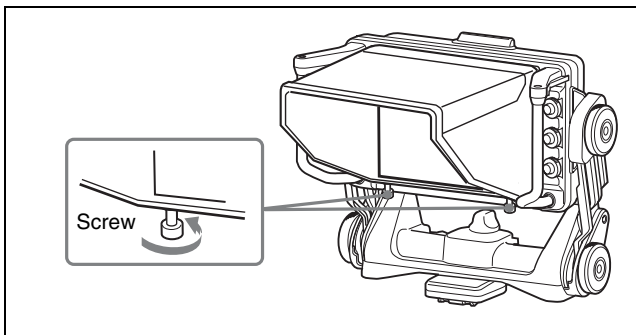
Attaching a Hood

You can attach the optional VFH-790 outdoor hood in the same way as the supplied indoor hood. This section describes the procedure of attaching the indoor hood.

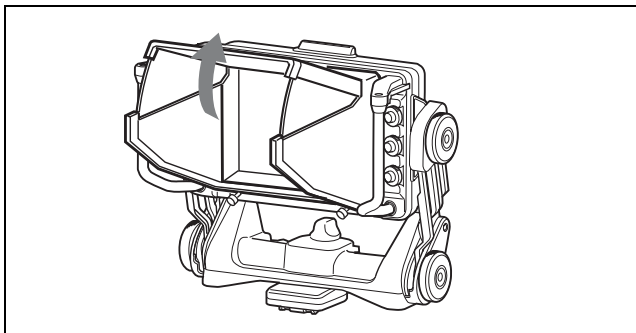
- 1 To attach the hood, hook the hood to the groove the viewfinder.



- 2 Tighten the screw to fix the viewfinder.

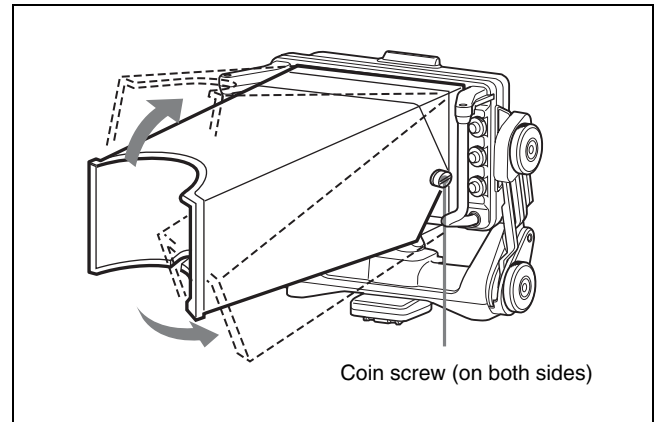


Indoor hood (supplied)



The angle of the hood can be changed up to 45° upward.

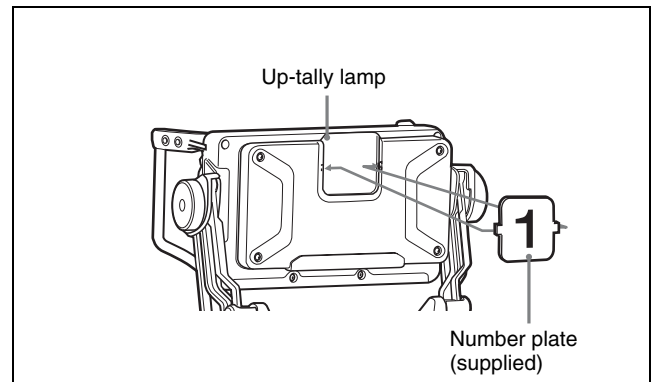
Outdoor hood (optional)



When the outdoor hood is too tight to move, or too loose to fix at a desired position, adjust the coin screws on both sides of the hood. Turn the screws clockwise to tighten, and counterclockwise to loosen.

Attaching a Number Plate

Insert the tabs on the sides of the number plate into each slit in the up-tally lamp.



Using the Focus Assist Function

For details on menu operations, see “Using the Menu” on page 43.

COLOR PEAKING Function

When the COLOR PEAKING function is set to “ON,” the peaking signal is displayed with the colors changed.

- 1 Set “COLOR PEAKING” to “ON” in the PEAKING menu.
- 2 Select the displaying color with “COLOR” in the PEAKING menu.
- 3 Adjust the chroma level of the video signal with “CHROMA” in the PEAKING menu.

When “ORIG” is selected in “COLOR,” the video signal is displayed in monochrome. The chroma level of the video signal cannot be adjusted.

Note

Color peaking is a function that extracts the high-frequency components of the video signal and applies color to those parts. This may be less effective when noise components are emphasized by VF DETAIL and MASTER GAIN settings on the camera side, because then color is applied to the whole screen.

If you plan to use the color peaking function, it is recommended that the VF DETAIL and MASTER GAIN settings on the camera side be set as follows.

- VF DETAIL: OFF, or set to a value that does not emphasize noise.
- MASTER GAIN: Set to a value near 0 dB.

PEAKING PLUS Function

This function can be used to sharpen the edges of an image that is specified using the color, area selected, or both. You can also enhance the edges of the entire image. This function has no effect on the camera’s video output signals.

To sharpen edges by specifying the color

- 1 Press the ASSIGN switch that is assigned the PEAKING PLUS function to switch to the PEAKING PLUS mode.

The PEAKING PLUS indicator lights up.

You can also set to this mode using “PEAKING MODE” from the PEAKING PLUS menu (see page 47).

- 2 Select “COLOR” under “COLOR/AREA SEL” of the PEAKING PLUS menu.
- 3 Press and hold the ASSIGN switch that is assigned the PEAKING PLUS function for one second or more (the detection area marker appears in the center of the screen), align the color to be corrected in the detection area marker, and then release the switch.

The color that is to be corrected will be detected.



□ : Effective edge enhancement area

- 4 Adjust the effective edge enhancement area of the color using the following menus in the PEAKING PLUS menu.

- HUE PHASE: Hue center position
- HUE WIDTH: Hue range
- SAT WIDTH: Saturation range



– direction:
Narrows the effective range

+ direction:
Widens the effective range

- 5 Adjust the amount of correction with the PEAKING control.

Only the edges of the object that coincides with the color detected in step 3 will be sharpened. Turn the control clockwise to make the edges sharper.

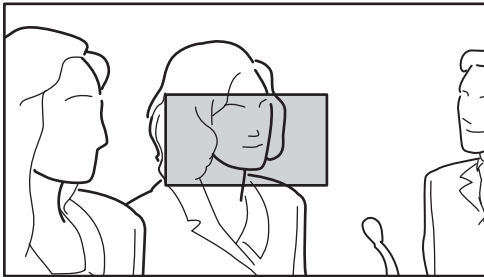
To sharpen edges by specifying the display area

- 1 Press the ASSIGN switch that is assigned the PEAKING PLUS function to switch to the PEAKING PLUS mode.

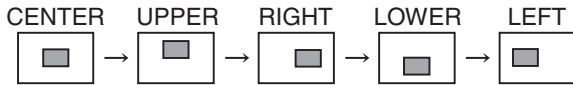
The PEAKING PLUS indicator lights up.

You can also set to this mode using “PEAKING MODE” from the PEAKING PLUS menu (*see page 47*).

- 2** Select “AREA” under “COLOR/AREA SEL” of the PEAKING PLUS menu.
- 3** Select an area under “POSITION” of the PEAKING PLUS menu.



■ : Effective edge enhancement area



If the “POSITION” setting is changed, the “MAG POSITION” setting in the MAGNIFICATION menu will be changed too.

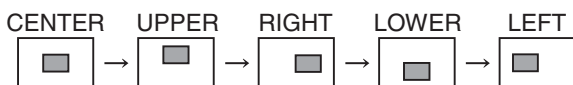
- 4** Adjust the amount of correction with the PEAKING control.

Only the edges of the object within the area selected in step **3** will be sharpened.
Turn the control clockwise to make the edges sharper.

To specify both color and area

- 1** Press the ASSIGN switch that is assigned the PEAKING PLUS function to switch to the PEAKING PLUS mode.

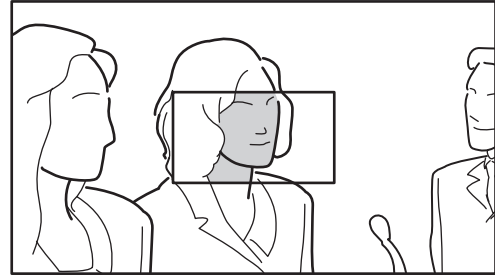
The PEAKING PLUS indicator lights up.
You can also set to this mode using “PEAKING MODE” from the PEAKING PLUS menu (*see page 47*).
- 2** Select “BOTH” under “COLOR/AREA SEL” of the PEAKING PLUS menu.
- 3** Select an area under “POSITION” of the PEAKING PLUS menu.



If the “POSITION” setting is changed, the “MAG POSITION” setting in the MAGNIFICATION menu will be changed too.

- 4** Press and hold the ASSIGN switch that is assigned the PEAKING PLUS function for one second or more (the detection area marker appears in the center of the screen), align the color to be corrected in the center of the detection area marker, and then release the switch.

The color that is to be corrected will be detected.



■ : Effective edge enhancement area

- 5** Adjust the effective edge enhancement area of the color using the following menus in the PEAKING PLUS menu.

- HUE PHASE: Hue center position
- HUE WIDTH: Hue range
- SAT WIDTH: Saturation range

- 6** Adjust the amount of correction with the PEAKING control.

The edges of the object that coincides with the color detected in step **4** are sharpened within the area selected in step **3**.
Turn the control clockwise to make the edges sharper.

To enhance the edges of the entire image

- 1** Press the ASSIGN switch that is assigned the PEAKING PLUS function to switch to the STD (standard) mode.

The PEAKING PLUS indicator is turned off.
You can also set to this mode using “PEAKING MODE” from the PEAKING PLUS menu (*see page 47*).
- 2** Adjust the amount of correction with the PEAKING control.

Turn the control clockwise to make the edges sharper.

MAGNIFICATION Function

This function enables you to display both images for picture composition and for focusing at the same time.

- 1 Press the ASSIGN. switch that is assigned the MAGNIFICATION function.

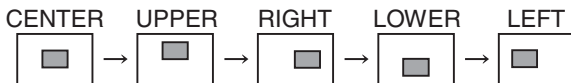
The image is magnified.

You can also set to this mode from the MAGNIFICATION menu (*see page 47*).

- 2 Press and hold the ASSIGN. switch that is assigned the MAGNIFICATION function.

The magnified area changes in the following sequence.

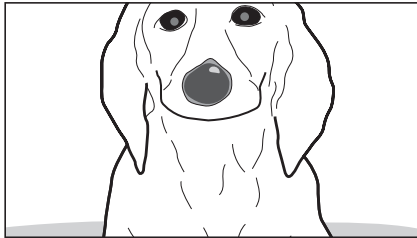
You can also select an area under “MAG POSITION” of the MAGNIFICATION menu (*see page 47*).



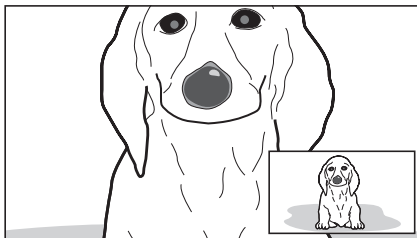
If the “MAG POSITION” setting is changed, the “POSITION” setting in the PEAKING menu will be changed too.

- 3 Select one of the display modes (MODE1 to MODE3) under “MODE SEL” of the MAGNIFICATION menu.

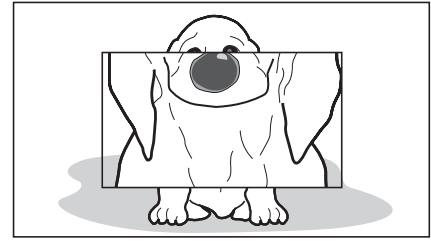
MODE1: Standard magnified display



MODE2: Displays the original image at the bottom right corner of the magnified image



MODE3: Displays the magnified image at the center of the original image



To return to normal display

The two manners of returning to the normal display, under “AUTO RELEASE” settings in the MAGNIFICATION menu, are as follows.

“AUTO”: Returns to the normal display automatically in a specified time after magnifying the image using the ASSIGN. switch.

“MANUAL”: Press the ASSIGN. switch again to return to the normal display.

Using the Menu

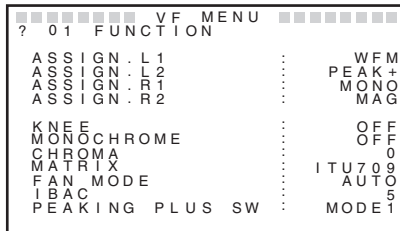
Many of the viewfinder's functions can be set by a menu operation.

Basic Menu Operations

1 Enter the menu.

Press the MENU switch.

A menu page appears in the viewfinder display.



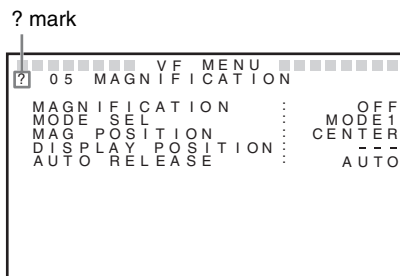
The viewfinder menu can be displayed at the same time a picture from the camera is being displayed. The camera picture or menu darkens so that it appears dimly behind the viewfinder menu.

2 Select a menu page.

While the ? mark appears to the left of the page number (page select mode), turn the MENU control.

The menu changes to another page.

Page select mode



When the desired menu page appears, press the MENU control.

The → mark appears to the left of a menu item on the selected menu page (item select mode).

- To select another menu page, press the MENU switch to return to the page select mode.
- If the ? mark appears to the left of the setting (value setting mode), press the MENU switch to return to

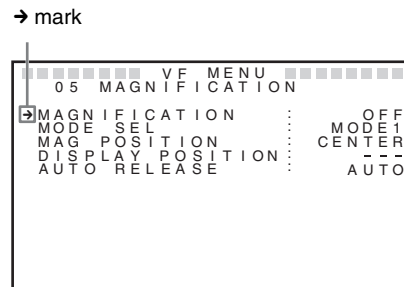
item select mode. Press the MENU switch again to return to page select mode.

3 Select menu items.

With the → mark positioned to the left of a menu item on the selected menu page (item select mode), turn the MENU control to move the → mark to the desired menu item.

To move the → mark downward, turn the control clockwise. To move the → mark upward, turn the control counterclockwise.

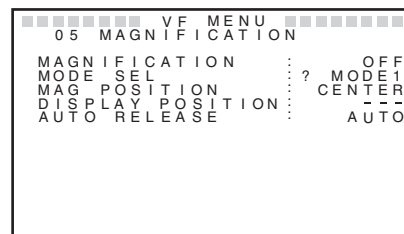
Item select mode



Position the → mark to the left of the desired menu item, and then press the MENU control.

A ? mark appears to the left of the setting and the settings screen is activated (value setting mode).

Value setting mode



To select another menu item, press the MENU switch to return to item select mode.

4 Change the value of a setting.

With the ? mark positioned to the left of the setting (value setting mode), turn the MENU control to change the value.

If the setting is a numerical value, turn the MENU control clockwise to increase the value, and counterclockwise to decrease the value.

Turning the control quickly changes the value rapidly, and turning it slowly allows you to make fine adjustments.

5 Enter the setting.

Press the MENU control.

The setting is entered and the menu returns to item select mode.

If you press the MENU switch before pressing the MENU control, the setting returns to the value that was previously set and then the menu returns to item select mode.

6 Set other menu items.

Repeat steps **2** to **5** to set other menu items.

7 End menu operations.

Press the MENU switch repeatedly until the menu page disappears from the display.

To restore a setting to its factory default value

Position the → mark to the left of the desired menu item, or while the ? mark appears to the left of the menu item to be restored, press the MENU control for two seconds or more.

List of Menu Items




Notes

- Some settings cannot be selected unless the previous menu item is set to "ON."

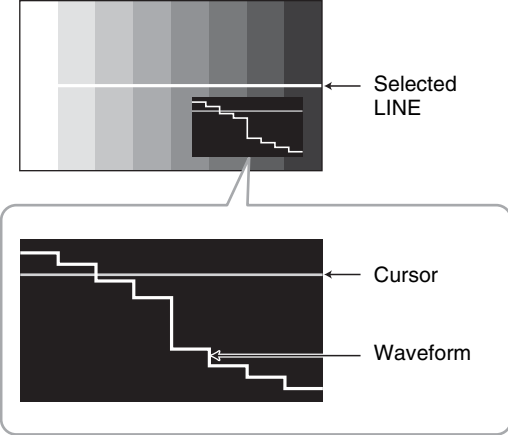
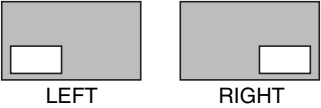
- "---" appears to the left of settings that cannot be selected.

Page	Menu	Item	Settings (default in <input type="checkbox"/>)	Function
01	FUNCTION	ASSIGN. L1	OFF/MONO/ MAG/WFM/ PEAK+/KNEE/ PRESET/UPTLY/ FAN	For assigning a function to the ASSIGN. L1 switch. Detailed settings of the individual features can be specified on the respective menu pages. OFF: No function assigned. MONO: Toggles the black-and-white display between ON and OFF. MAG: Toggles the magnification function between ON and OFF (Press and hold for one second or more to select the area to magnify). WFM: Toggles WFM between ON and OFF. PEAK+: Toggles the peaking mode between STD and PLUS (Press and hold for one second or more to execute COLOR DETECT). KNEE: Toggles the KNEE correction circuit between ON and OFF. PRESET: Toggles PRESET between ON and OFF. UPTLY: Toggles UP TALLY between ON and OFF. FAN: Sets FAN MODE to STOP. (Press and hold for one second or more to return it to AUTO.)
		ASSIGN. L2	OFF/MONO/ MAG/WFM/ PEAK+/KNEE/ PRESET/UPTLY/ FAN	For assigning a function to the ASSIGN. L2 switch. The assignable functions are the same as those for ASSIGN. L1.
		ASSIGN. R1	OFF/MONO/ MAG/WFM/ PEAK+/KNEE/ PRESET/UPTLY/ FAN	For assigning a function to the ASSIGN. R1 switch. The assignable functions are the same as those for ASSIGN. L1.
		ASSIGN. R2	OFF/MONO/ MAG/WFM/ PEAK+/KNEE/ PRESET/UPTLY/ FAN	For assigning a function to the ASSIGN. R2 switch. The assignable functions are the same as those for ASSIGN. L1.
		KNEE	OFF/ON	For turning the KNEE correction circuit ON or OFF.
		MONOCHROME	OFF/ON	For selecting color display (OFF) or black-and-white display (ON).
		CHROMA	-99 to 0 to 99	For setting the chroma level. Lowering the value decreases the chroma level.
		MATRIX	OFF/ITU709/ EBU/SMPTE	For selecting the color space conversion matrix. OFF: FULL ITU709: Equivalent to ITU-709 EBU: Equivalent to EBU SMPTE: Equivalent to SMPTE-C
		FAN MODE	AUTO/STOP	For selecting the operation mode settings of the fan. "AUTO" is selected whenever the power is turned on. AUTO: Auto fan control STOP: Forced fan stoppage for about five minutes Note Do not stop the fan for too long as it will cause a rise in the internal temperature of this unit and possibly shorten its lifetime.

Page	Menu	Item	Settings (default in <input type="text"/>)	Function
01	FUNCTION	IBAC	OFF/[5]/15/30	For setting the time (minutes) after which the IBAC (Intelligent Brightness Ambient Control) function is activated. For the IBAC function, see “On IBAC (Intelligent Brightness Ambient Control)” on page 29.
		PEAKING PLUS SW	[MODE1]/MODE2	For selecting the operation mode upon pressing the ASSIGN. switch that is assigned the PEAKING PLUS function. MODE1: Toggles PEAKING MODE STD ⇔ PLUS. MODE2: Toggles in the sequence of STD → COLOR → AREA → BOTH → STD.
02	TALLY/IND	UP TALLY	OFF/[ON]	For controlling the up-tally lamp. ON: Enables the up-tally lamp. OFF: Disables the up-tally lamp. (Does not light up even when the camera receives red tally signals.)
		UP TALLY DIM	1 to [5] to 10	For setting the brightness of the up-tally lamp. Raising the value increases the brightness; lowering the value decreases the brightness.
		TALLY/IND	OFF/[ON]/UPPER/LOWER	For controlling the indicators (including the tally indicators). OFF: Activates the BATT indicator and the STATUS indicator only. ON: Activates all indicators including the tally indicators. UPPER: Activates the indicators (including the upper tally indicators) except the lower tally indicators. LOWER: Activates the indicators (including the lower tally indicators) except the upper tally indicators.
		TALLY/IND DIM	1 to [5] to 10	For setting the brightness of the indicators (including the tally indicators). Raising the value increases the brightness; lowering the value decreases the brightness.
03	PEAKING	FREQUENCY	L/[M]/MH/H	Set the center frequency of edge enhancement signals.
		RANGE	1/[2]/3/4	Set the variable range of the level of edge enhancement signals.
		COLOR PEAKING	[OFF]/ON	The edge enhancement signals are displayed converted to the color. OFF: Enhance the edge in white. ON: Enhance the edge in the color specified in “COLOR.”
		COLOR	[BLUE]/RED/YELLOW/GREEN/ORIG	When “ON” is set in “COLOR PEAKING,” select the color of the edge enhance signals. BLUE: Enhance the edge in blue. RED: Enhance the edge in red. YELLOW: Enhance the edge in yellow. GREEN: Enhance the edge in green. ORIG: Displays in monochrome and enhances the edge in the original color.
		CHROMA	-99 to [0] to 99	Set the chroma level. (This does not affect to the camera’s outputting level.) The smaller the number, the less the amount of chroma. The setting is linked to the “CHROMA” setting of the FUNCTION menu.

Page	Menu	Item	Settings (default in <input type="text"/>)	Function
04	PEAKING PLUS	PEAKING MODE	<input type="text"/> STD)/PLUS	For selecting a peaking mode. STD: Standard mode PLUS: PEAKING PLUS mode
		COLOR/AREA SEL	<input type="text"/> COLOR)/AREA/ BOTH	For selecting a PEAKING PLUS mode. COLOR: Sharpens the edges for the selected color only. AREA: Sharpens the edges for the selected area only. BOTH: Sharpens the edges for the selected color and area only.
		POSITION	<input type="text"/> CENTER)/ UPPER/RIGHT/ LOWER/LEFT	For selecting the effective PEAKING area when "AREA" or "BOTH" is selected in "COLOR/AREA SEL." The setting is linked to the "MAG POSITION" setting of the MAGNIFICATION menu. CENTER: Sharpens the edges of the center area. UPPER: Sharpens the edges of the upper area. RIGHT: Sharpens the edges of the right area. LOWER: Sharpens the edges of the lower area. LEFT: Sharpens the edges of the left area.
		COLOR DETECT	EXEC	For detecting the color of which its edges are to be enhanced. This feature is enabled only when "COLOR" or "BOTH" is selected in "COLOR/AREA SEL."
		HUE PHASE	<input type="text"/> 0) to 359	For specifying the hue center position of which edge enhancement is to be performed.
		HUE WIDTH	1 to <input type="text"/> 45) to 360	For specifying the hue range of which edge enhancement is to be performed.
		SAT WIDTH	-99 to <input type="text"/> 0) to 99	For specifying the saturation range of which edge enhancement is to be performed.
05	MAGNIFICATION	MAGNIFICATION	<input type="text"/> OFF)/ON	For selecting normal display (OFF) or magnified display (ON). Normal display (OFF) is selected whenever the power is turned on.
		MODE SEL	<input type="text"/> MODE1)/MODE2/ MODE3	For selecting a magnification mode. <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">1 </div> <div style="text-align: center;">2 </div> <div style="text-align: center;">3 </div> </div>
		MAG POSITION ^{a)}	<input type="text"/> CENTER)/ UPPER/RIGHT/ LOWER/LEFT	For selecting the area to magnify when the magnification mode is enabled. The "MAG POSITION" setting is linked to the "POSITION" setting of the PEAKING menu. CENTER: Magnifies the center area. UPPER: Magnifies the upper area. RIGHT: Magnifies the right area. LOWER: Magnifies the lower area. LEFT: Magnifies the left area.
		DISPLAY POSITION	LEFT)/ <input type="text"/> RIGHT)	For selecting the magnified display (sub display) position When "MODE2" is selected in "MODE SEL." LEFT: Displays the sub display in the lower left of the screen. RIGHT: Displays the sub display in the lower right of the screen.
		AUTO RELEASE	<input type="text"/> AUTO)/MANUAL	For specifying the manner in which the magnified display returns to normal display. AUTO: After the magnified display appears by pressing ASSIGN. switch, the display returns to normal automatically after the specified time. MANUAL: After the magnified display appears by pressing ASSIGN. switch, the display returns to normal when ASSIGN. switch is pressed again.

Page	Menu	Item	Settings (default in <input type="checkbox"/>)	Function
06	PRESET	PRESET	<input type="checkbox"/> OFF/ <input type="checkbox"/> ON	For selecting whether to enable the settings of the BRIGHT, CONTRAST, PEAKING controls and the chroma level in the FUNCTION menu, or to enable the preset “PRST BRIGHT,” “PRST CONTRAST,” “PRST PEAKING,” and “PRST CHROMA” values in the PRESET menu. OFF: Enables the settings of the controls and the preset chroma level in the FUNCTION menu ON: Enables the PRESET menu settings
		PRST BRIGHT	-99 to <input type="checkbox"/> to 99	For setting the image brightness when “ON” is selected in “PRESET.” Raising the value increases the brightness of the image.
		PRST CONTRAST	-99 to <input type="checkbox"/> to 99	For setting the image contrast when “ON” is selected in “PRESET.” Raising the value increases the contrast of the image.
		PRST PEAKING	<input type="checkbox"/> to 100	For setting the peaking level when “ON” is selected in “PRESET.” Raising the value increases the amount of correction.
		PRST CHROMA	-99 to <input type="checkbox"/> to 99	For setting the chroma level when “ON” is selected in “PRESET.” Raising the value increases the chroma level.

Page	Menu	Item	Settings (default in <input type="text"/>)	Function
07	WAVEFORM	<p>Displays a simplified input signal waveform as a sub display. The right illustration is an example of the waveform monitor when a color bar signal is input.</p> <p>Notes</p> <ul style="list-style-type: none"> Adjust the output level of camera under the LEVEL ADJUST menu before using the WAVEFORM menu (waveform monitor display). The waveform monitor allows for easy checking of an image waveform. 		
		WAVEFORM	<input type="checkbox"/> OFF/ <input type="checkbox"/> ON	For selecting normal display (OFF) or waveform monitor display (ON).
		INTENSITY	1 to <input type="text" value="5"/> to 10	For setting the brightness of the waveform monitor display. Increasing the value brightens the waveform monitor display.
		POSITION	<input type="checkbox"/> RIGHT/ <input type="checkbox"/> LEFT	For selecting the position of the waveform monitor display. LEFT: Displays the waveform monitor display in the lower left of the screen. RIGHT: Displays the waveform monitor display in the lower right of the screen.
				
		HALF TONE	<input type="checkbox"/> OFF/ <input type="checkbox"/> ON	For selecting black for the background of the waveform monitor display (OFF), or the halftone (transparent) display (ON).
		SWEEP	<input type="checkbox"/> LINE/ <input type="checkbox"/> FIELD	For selecting the display mode of waveform monitor. LINE: Displays the video level at any point on the horizontal axis of the image. FIELD: Displays the video level at any point on the vertical axis of the image.
		LINE SELECT	<input type="checkbox"/> OFF/ <input type="checkbox"/> ON	For selecting the waveform monitor display for all lines (OFF), or for the selected LINE (ON) when "LINE" is selected in "SWEEP"
		LINE	0 to <input type="text" value="50"/> to 100	For setting the position of selected LINE when "ON" is selected in "LINE SELECT." Increasing the value shifts the selected LINE lower, and decreasing the value shifts it upwards.
		COLOR	<input type="checkbox"/> W/ <input type="checkbox"/> R/ <input type="checkbox"/> G/ <input type="checkbox"/> B/ <input type="checkbox"/> YL	For selecting the color of selected LINE: white (W), red (R), green (G), blue (B) or yellow (YL).
		INTENSITY	1 to <input type="text" value="5"/> to 10	For setting the brightness of selected LINE. Increasing the value brightens the selected LINE display.
		CURSOR	0 to <input type="text" value="50"/> to 100	For setting the cursor position in waveform monitor display. Increasing the value shifts the cursor up, and decreasing the value shifts it lower.
		COLOR	<input type="checkbox"/> W/ <input type="checkbox"/> R/ <input type="checkbox"/> G/ <input type="checkbox"/> B/ <input type="checkbox"/> YL	For selecting the cursor display color in the waveform monitor display: white (W), red (R), green (G), blue (B) or yellow (YL).

Page	Menu	Item	Settings (default in <input type="checkbox"/>)	Function
08	STATUS DISPLAY	ASSIGN. L1	OFF/ <input type="checkbox"/> ON	For selecting whether the changes in the status of the function assigned to the ASSIGN. L1 switch is displayed (ON) or not (OFF).
		ASSIGN. L2	OFF/ <input type="checkbox"/> ON	For selecting whether the changes in the status of the function assigned to the ASSIGN. L2 switch is displayed (ON) or not (OFF).
		ASSIGN. R1	OFF/ <input type="checkbox"/> ON	For selecting whether the changes in the status of the function assigned to the ASSIGN. R1 switch is displayed (ON) or not (OFF).
		ASSIGN. R2	OFF/ <input type="checkbox"/> ON	For selecting whether the changes in the status of the function assigned to the ASSIGN. R2 switch is displayed (ON) or not (OFF).
		BRIGHT	OFF/ <input type="checkbox"/> ON	For selecting whether the setting of the BRIGHT control is displayed (ON) or not (OFF).
		CONTRAST	OFF/ <input type="checkbox"/> ON	For selecting whether the setting of the CONTRAST control is displayed (ON) or not (OFF).
		PEAKING	OFF/ <input type="checkbox"/> ON	For selecting whether the setting of the PEAKING control is displayed (ON) or not (OFF).

a) If “ASSIGN. L1,” “ASSIGN. L2,” “ASSIGN. R1” or “ASSIGN. R2” in the FUNCTION menu is set to “MAG,” the magnified section changes in the sequence CENTER → UPPER → RIGHT → LOWER → LEFT when the respective switch is held down during a magnified display.

Error Message

Display	Description
ERROR	Failure in "COLOR DETECT" in PEAKING PLUS mode
BACKUP ERROR	Checksums of the EEPROM backup data are not consistent
VF TEMP HIGH	Temperature error
DEVICE ERROR	Other device errors

Specifications

General

Power supply 10.5 V to 17.0 V DC (supplied by the camera)

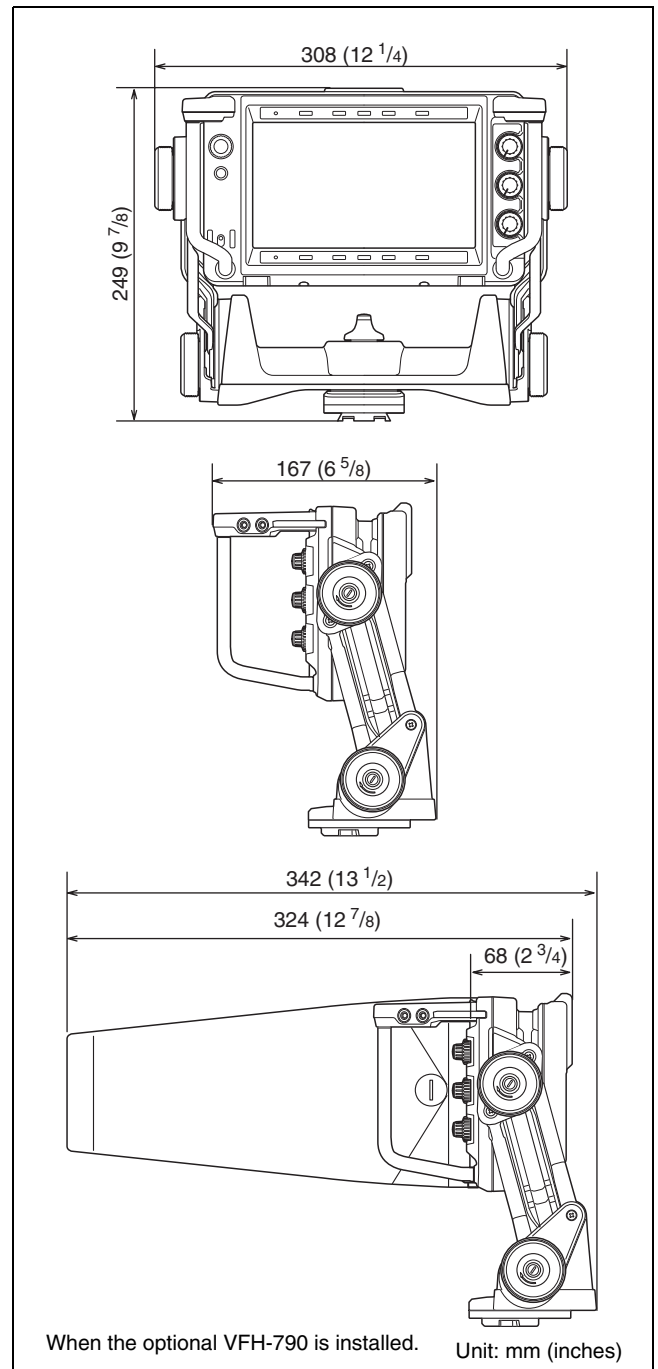
Power consumption 19.5 W

Operating temperature -20°C to $+45^{\circ}\text{C}$ (-4°F to $+113^{\circ}\text{F}$)

Storage temperature -20°C to $+60^{\circ}\text{C}$ (-4°F to $+140^{\circ}\text{F}$)

Mass (not including hood) 3.5 kg (7 lb 11 oz)

External dimensions



Display unit

7.4-type color OLED panel

Effective screen size

164 × 92 mm (H/V, 16:9 aspect ratio)
(6 1/2 × 3 5/8 inches)

Effective pixels 960 (horizontal) × 540 (vertical) × 3 (RGB)

Performance

Brightness 350 cd/m² (peak brightness, typical)

Resolution 500 or more lines

Supported formats

Effective scanning lines	Format	Horizontal scanning frequency (kHz)	Vertical scanning frequency (Hz)
1080	23.98PsF	26.97	47.95
	24PsF	27	48
	25PsF	28.13	50
	29.97PsF	33.72	59.94
	30PsF	33.75	60
	50i	28.13	50
	59.94i	33.72	59.94
	60i	33.75	60
720	50P	36.00	50
	59.74P	44.96	59.94
	60P	45.00	60

Color temperature

D65

Input signals

Y 1.0 V_{p-p}, synchronous, 75 ohm terminated

Pb, Pr 0.7 V_{p-p}, asynchronous, 75 ohm terminated

Connectors

Camera connector

Round type 20-pin

Accessories

Indoor hood (1)

Number plate (1)

V-wedge shoe attachment (1)

Hexagonal wrench (1)

Socket head cap screws (4)

Cleaning cloth (1)

Connecting cable (1)

Operation manual (1)

Optional accessory

VFH-790 Outdoor Hood

Related products

Color Camera HDC4800/4300

HD Color Camera

HDC2500/2570/2400/1700 series

HSC300RF/300R/100RF/100R

Designs and specifications are subject to change without notice.

Note

Always verify that the unit is operating properly before use. SONY WILL NOT BE LIABLE FOR DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION OR REIMBURSEMENT ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS DUE TO FAILURE OF THIS UNIT, EITHER DURING THE WARRANTY PERIOD OR AFTER EXPIRATION OF THE WARRANTY, OR FOR ANY OTHER REASON WHATSOEVER.



产品中有害物质的名称及含有的信息表

部件名称	电路板组件 / 金属结构件	
有害物质	Pb	×
	Hg	○
	Cd	○
	Cr (VI)	○
	PBBs	○
	PBDEs	○
	DBP	○
	DIBP	○
	BBP	○
	DEHP	○

注 1: ○: 表示该有害物质在该部件所有均质材料中的含量均不超出电器电子产品有害物质限制使用国家标准要求。

×: 表示该有害物质至少在该部件的某一均质材料中的含量超出电器电子产品有害物质限制使用国家标准要求。

注 2: 以上未列出的部件, 表明其有害物质含量均不超出电器电子产品有害物质限制使用国家标准要求。

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