

**SONY®**

LCD COLOR VIEWFINDER

**HDVF-L750**

**HDVF-L770**

OPERATION MANUAL English

1st Edition

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# Precautions

## Handling the screen

- The LCD 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 liquid crystal display, 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.
- An afterimage may appear when a still image is displayed continuously. Turn the viewfinder off when it is not used for a long time.
- When using the viewfinder in low temperature, the moving image resolution deteriorates right after the viewfinder is turned on.
- Do not apply strong shock to the screen. This may damage the internal structure or deform the cabinet.

## 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 a soft dry cloth to remove dirt.
- Stubborn stains may be removed with a soft cloth slightly dampened with a mild detergent solution.
- The screen may become scratched if a 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 unit is suddenly taken from a cold to a warm location, or if ambient temperature suddenly rises, moisture may form on the outer surface of the unit and/or inside of the unit. This is known as condensation. If condensation occurs, turn off the unit and wait until the condensation clears before operating the unit. Operating the unit while condensation is present may damage the unit.

## 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.

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# Overview

The HDVF-L750/HDVF-L770 is a 7.0-inch LCD viewfinder.

This viewfinder has the following features.

## High resolution and wide visual angle

The viewfinder uses a 7.0-inch Full-HD resolution LCD panel for a resolution of 1920 × 1080 and a wide visual angle.

## Focus Assist function

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

- Peaking function  
Edge enhancement can be performed in the horizontal/vertical direction on the entire of the screen. (Only in the horizontal direction for the previous HDVF.)
- Peaking Plus function  
Edge enhancement can be performed on the object that is specified using a color, area selected, or both.
- Image magnification function  
A portion of the image can be magnified vertically and horizontally while displaying the image for composing the picture.

## Easy return function

You can switch between the camera image from the supplied connecting cable and the SDI image from the external input by operating the assignable switch.

## Waveform Monitor function

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

## Guide frame displaying function

The guide marker for matching the horizontal/vertical line can be displayed.

## Switching to preset adjustment settings

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

## False color function

Display signal levels using different colors. When you use the false color function, image signals are displayed in black and white, and colors are added based on the signal levels.

## Assignable switch

Assignable switches are provided on the front (2 switches) and on the left and right handles (2 switches each, HDVF-L770 only) 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.

## Superior operation

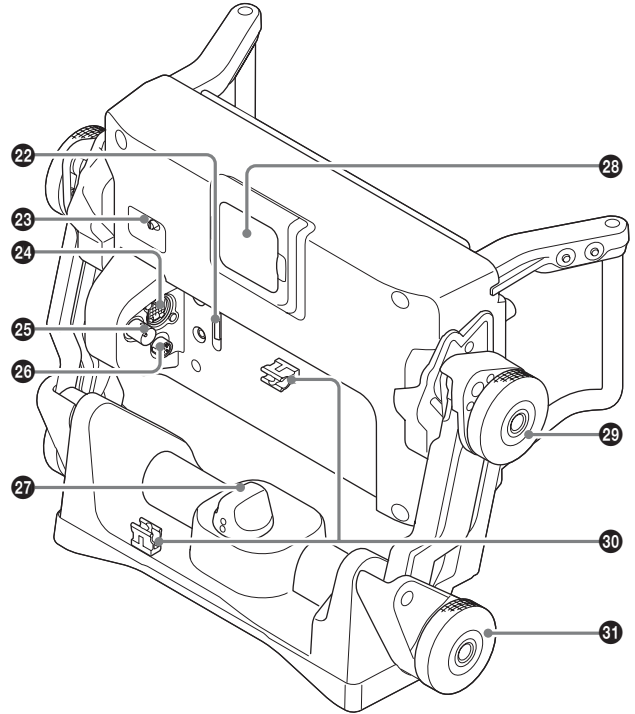
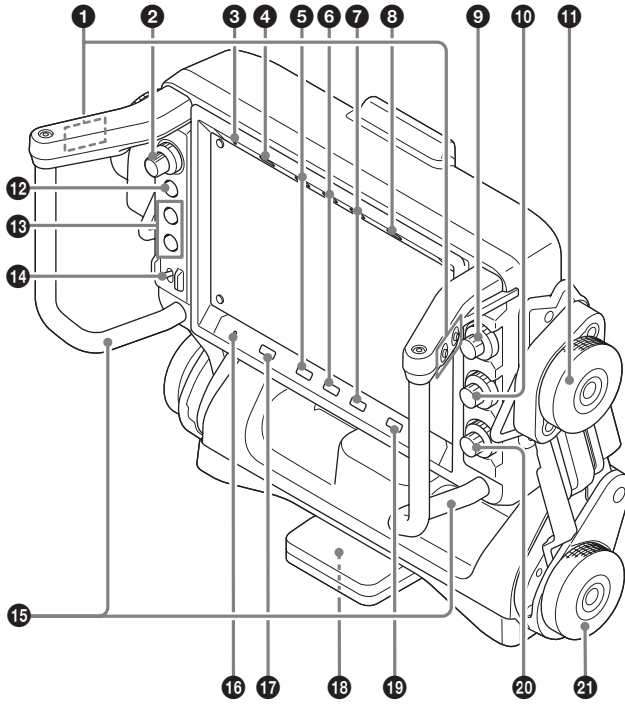
- Screen positioning mechanism  
HDVF-L770:  
Use of a counterbalance mechanism to optimize weight distribution of the panel and link arms allows immediate screen tilting and lifting with a light operational feeling.  
HDVF-L750:  
The lift mechanism is equipped while being light (approx. 1.7 kg). This mechanism can perform panning, tilting, and height adjustment.
- Large handles equipped with assignable switches (HDVF-L770 only)  
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

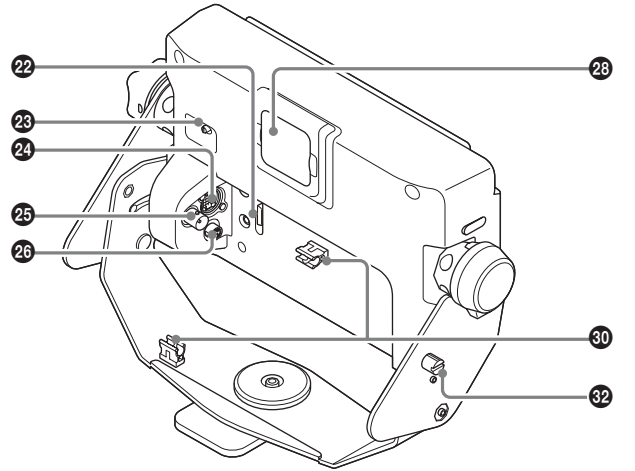
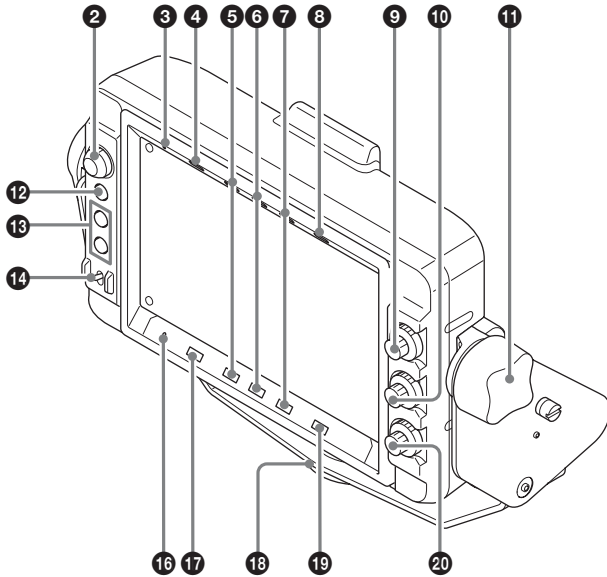
The indoor hood is supplied. The optional VFH-790 outdoor hood offers superior shading ability.

# Functions of Parts and Controls

**HDVF-L770**



**HDVF-L750**



**❶ ASSIGN. (assignable) L1/L2/R1/R2 switches (HDVF-L770 only)**

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.

**❷ 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 18.*

**❸ PEAKING PLUS indicator (blue)**

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

**❹ 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”).

**❺ G TALLY indicator (green)**

Lights up when the green tally signal is input.

**❻ R TALLY indicator (red)**

Lights up when the red tally signal is input.

**❼ Y TALLY indicator (yellow)**

Lights up when the yellow tally signal is input.

**❽ 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.*

**❾ BRIGHT control**

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

**❿ CONTRAST control**

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

**⓫ Tilt-lock knob**

**HDVF-L770:**

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

**HDVF-L750:**

Turn this knob clockwise to secure the tilting position of the viewfinder.

**⓬ 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 18.*

**⓭ ASSIGN. (assignable) 1/2 switches**

Can be used to store frequently used functions. Storing a function is performed using “ASSIGN.1” and “ASSIGN.2” in the FUNCTION menu.

**⓮ POWER switch**

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

**⓯ Handles (HDVF-L770 only)**


Use the handles to move the viewfinder’s screen.

**⓰ STATUS indicator (amber)**


Shows the current status of the viewfinder.

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

An error message (see page 26) may be displayed at the same time. Turn off the power and contact your Sony service representative.

**17**  (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.*

**18** 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 8.*

**19** Auxiliary indicator

Is not currently used.

**20** 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.

**21** Lift-lock knob (HDVF-L770 only)

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

**22** CAM connector (26-pin rectangular type)

Connect this to the VF connector on the camera using the supplied connecting cable (26-pin).

**23** INPUT switch

Switches the input signal.

**CAM:** Inputs signals from the CAM connector.

**SDI:** Inputs signals from the SDI IN connector (monitor mode).

**24** CAM connector (round-type, 20-pin)

Connects to the camera’s VF connector using the supplied connecting cable (20-pin).

**CAUTION**

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

**Note**

Use a round-type 20-pin connector when connecting to the CA4000.

**25** SDI IN connector (BNC type)

When using monitor mode, connect this to the SDI OUT connector on the camera or external device using a BNC cable.

*For details on supported formats, see “Specifications” on page 26.*

**26** DC IN connector

When power cannot be supplied via CAM connector, connect to an external power supply (DC 10.5 V to 17.0 V). In this case, contact your Sony service representative.

**27** COUNTER BALANCE control (HDVF-L770 only)

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.

**28** Up-tally lamp (red)

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

**29** Tilt friction adjustment knob (HDVF-L770 only)

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

**30** Cable clamp

Clamps the supplied connecting cable.

**31** Lift friction adjustment knob (HDVF-L770 only)

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

**32** Lift fixing screw (HDVF-L750 only)

Adjusts the height of the viewfinder in two levels.

# Attaching to the Camera

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

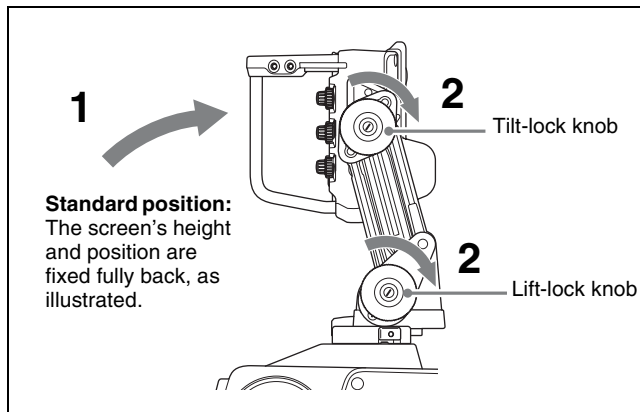
## Notes

- 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.
- When attaching the viewfinder to the HXC-D70 or PMW-320/350/400/500, use the shoe conversion bracket (supplied) (see page 9). (HDVF-L750 only)

For how to change the position of the viewfinder attached to the camera, see “Adjusting the Viewfinder Position” on page 10.

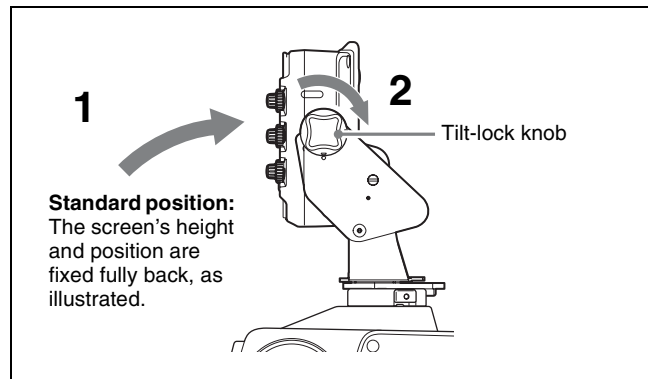
**1** Reset the viewfinder to the standard position.

**2 HDVF-L770:**  
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).

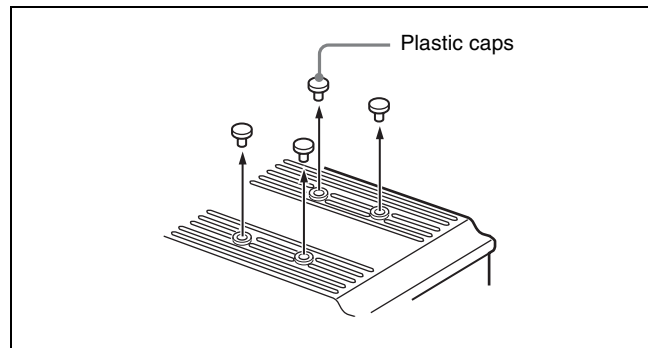


## HDVF-L750:

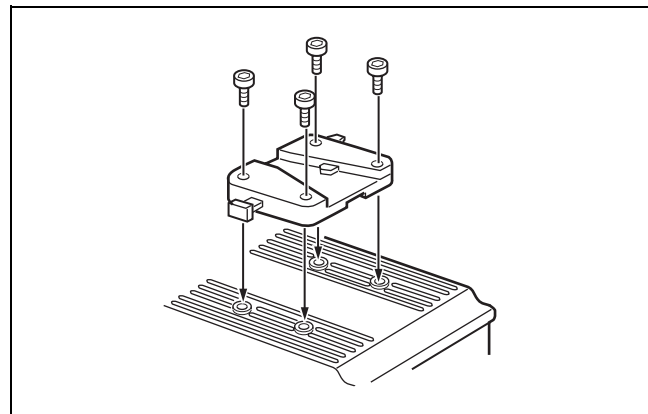
Adjust the height of the viewfinder to the position of the illustration below, then fix the viewfinder screen in the standard position by turning the tilt-lock knob.



**3** Remove the four plastic caps from the camera.



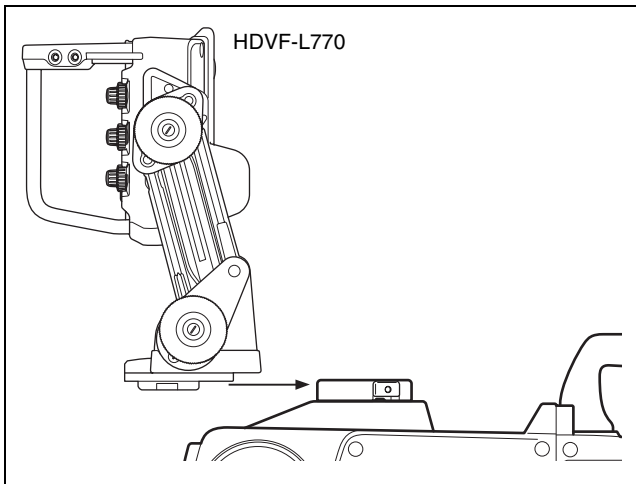
**4** Attach the supplied V-wedge shoe attachment to the camera using the supplied hexagonal wrench and four socket head cap screws (4 x12).





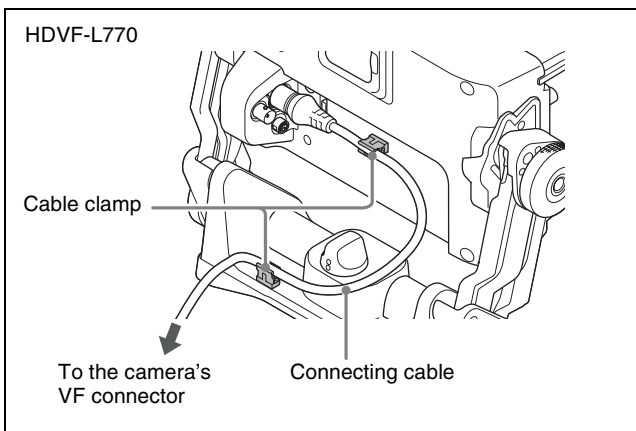
- 5** Mount this viewfinder firmly in the V-wedge shoe attachment.

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



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

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



#### Notes

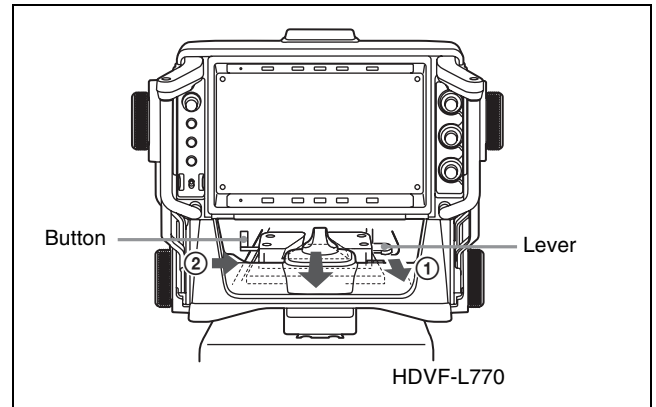
- Fix the connecting cable while adjusting the cable length so that the connecting cable is not caught when adjusting height, tilting, or panning.
- When gathering the cables together, use the supplied spiral tube.
- When using the connecting cable (26-pin), make sure not to tighten the two cable fixing screws too tightly.

#### When moving the viewfinder attached to the camera

Reset the viewfinder screen to the standard position and fix it in place.

#### To detach the viewfinder from the camera

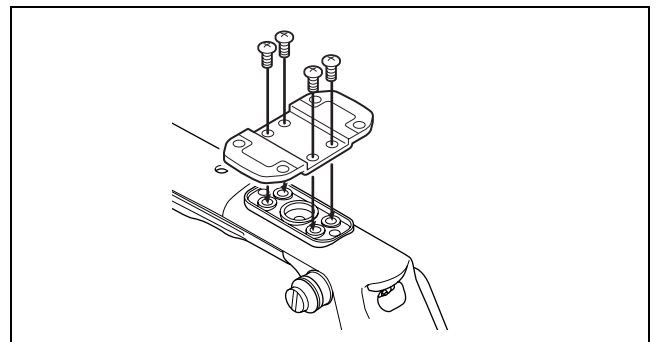
Pull the lever and push down the button while pulling the viewfinder toward you, as shown in the figure below.



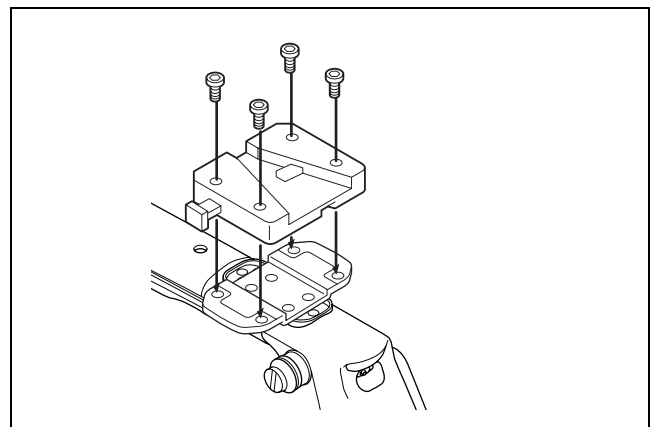
#### Attaching the shoe conversion bracket (HDVF-L750 only)

When attaching the viewfinder to the HXC-D70 or PMW-320/350/400/500, use the shoe conversion bracket (supplied).

- 1** Remove the cover on the handle of the camera, then attach the shoe conversion bracket (supplied) to the camera by using the screws (3×10 screws (4), supplied).



- 2** Attach the V-wedge shoe attachment to the shoe conversion bracket by using the hexagonal wrench and socket head cap screws (4×12 screws (4)).



## 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.

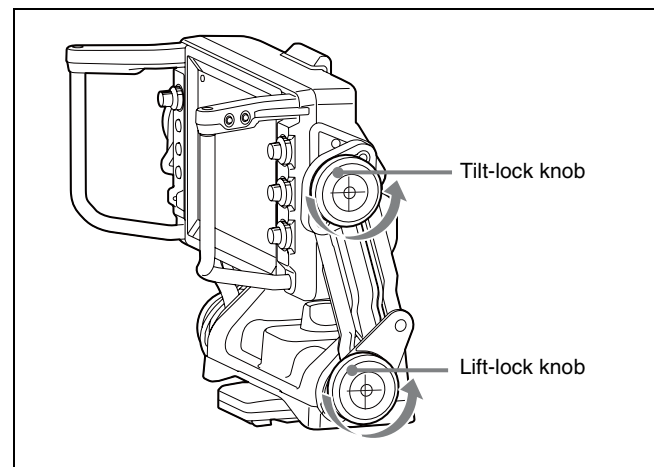
## Adjusting the Viewfinder Position

### Adjusting the Height and Tilting/Panning

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

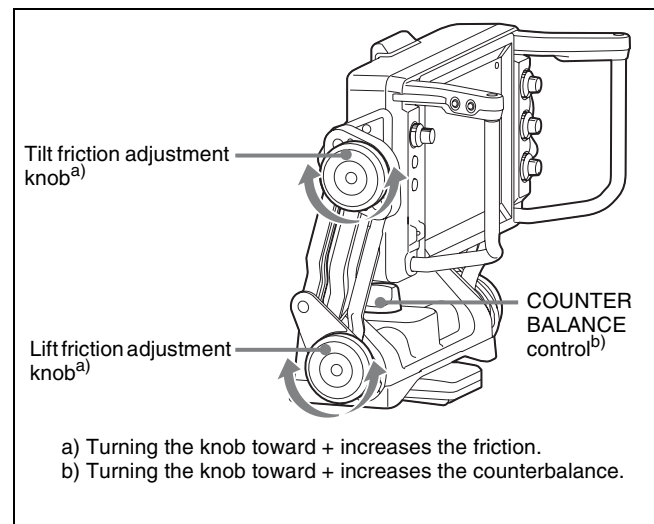
#### HDVF-L770

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



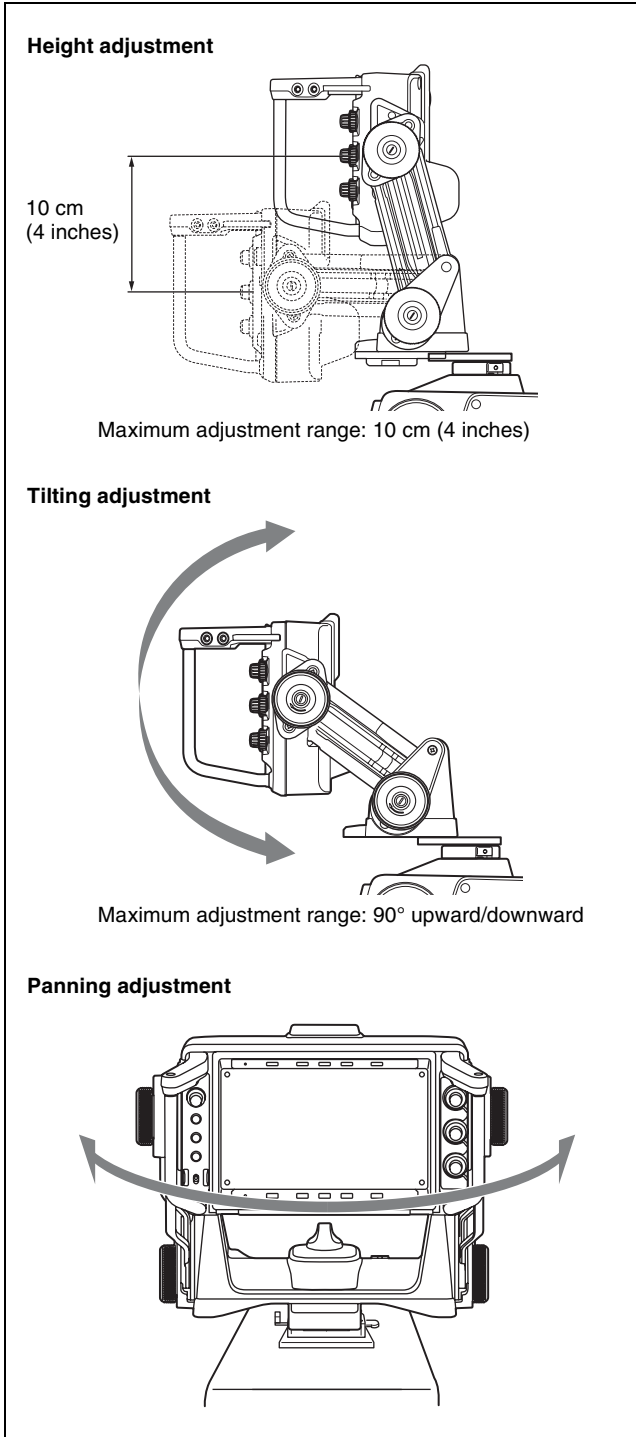
- 2 Turn the tilt friction adjustment knob and lift friction adjustment knob in the direction of the arrow shown below to adjust the friction.

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



- a) Turning the knob toward + increases the friction.  
b) Turning the knob toward + increases the counterbalance.

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



**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 (HDVF-L770 only)” on page 12.

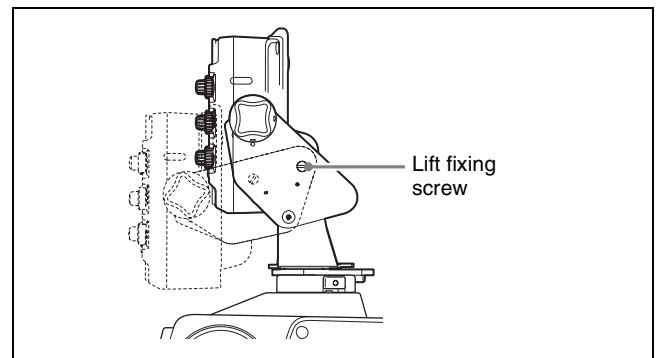
- Depending on the shape of the connected camera, panning of the viewfinder may hinder use of the camera’s handle. If the position of the camera’s handle is fixed, adjust the position of the mounting wedge and/or plates. (See page 12).

- 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.

**HDVF-L750**

- 1 Adjust the height of the viewfinder by loosening the lift fixing screw, then fix it by fastening.

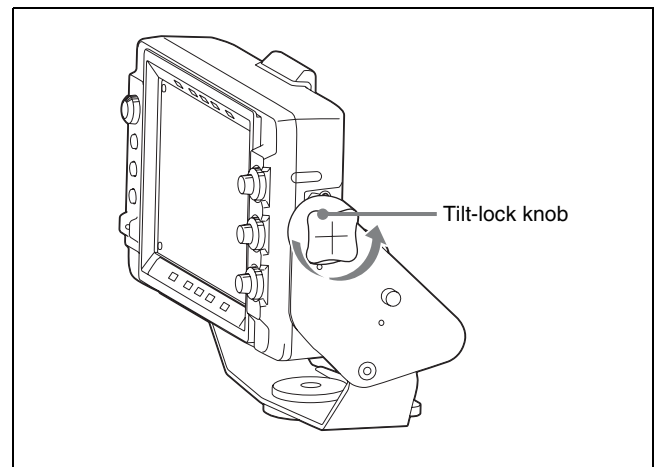
The height of the viewfinder can be adjusted in 2 levels.



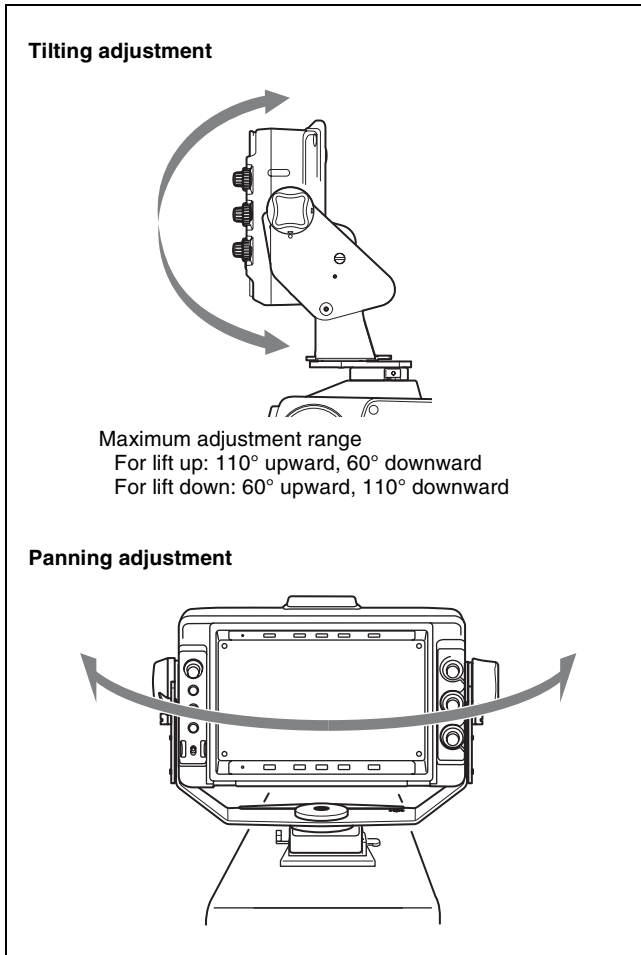
**Notes**

- Loosen the lift fixing screw while holding the viewfinder securely with your hand.
- Fasten the lift fixing screws on both sides tightly after adjusting.

- 2 Turn the tilt-lock knob in the direction of the arrow shown below to unlock.



### 3 Adjust the viewfinder angle.



#### Note

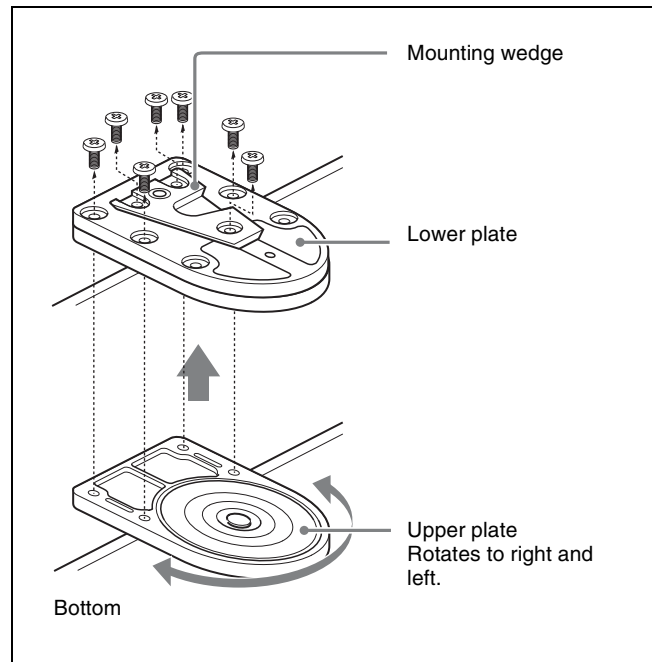
Depending on the shape of the connected camera, panning of the viewfinder may hinder use of the camera's handle. If the position of the camera's handle is fixed, adjust the height of the viewfinder.

### 4 Turn the tilt-lock knob clockwise to secure the position of the viewfinder.

## Adjusting the Front-Back Position (HDVF-L770 only)

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.

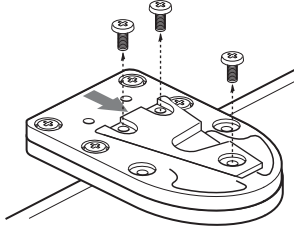
### 1 Holding the viewfinder firmly, remove the seven screws from the mounting wedge and the lower plate.



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

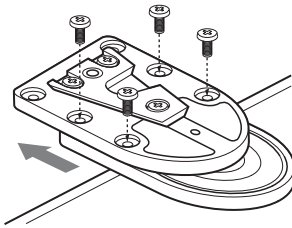
**When the mounting wedge is slid forward:**

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



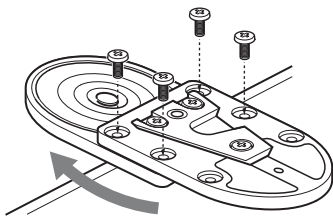
**When the lower plate is slid backward:**

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.



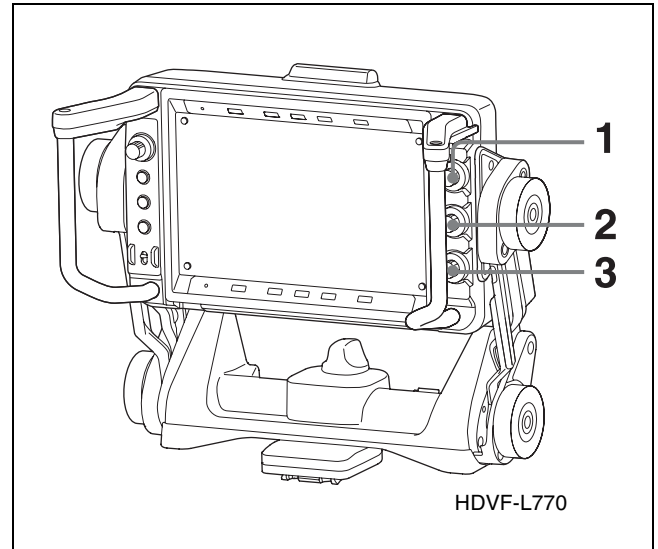
## Adjusting the Screen

**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 18.*



- 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.

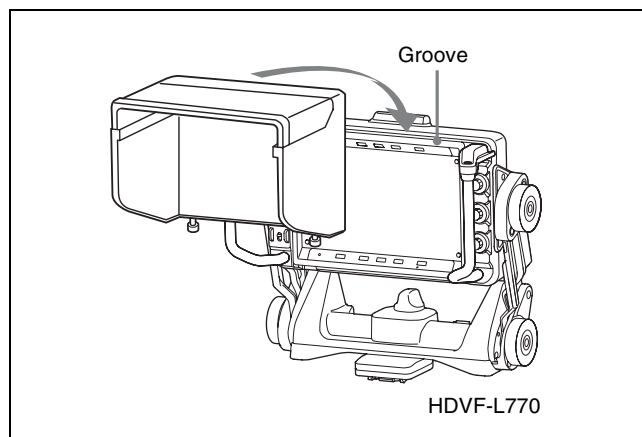
# Attaching Accessories

## Attaching a Hood

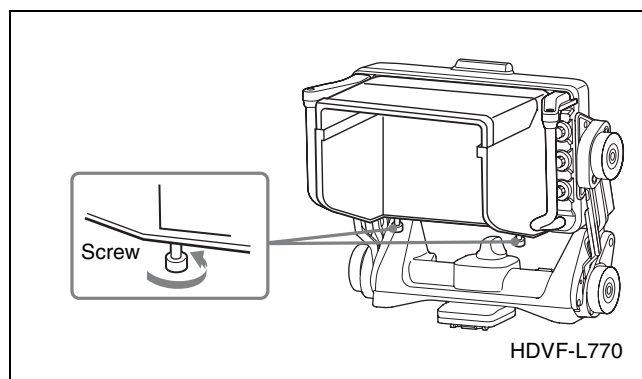
You can attach the optional VFH-790 outdoor hood in the same way as the supplied indoor hood.

This section describes the procedure of attaching the indoor hood.

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

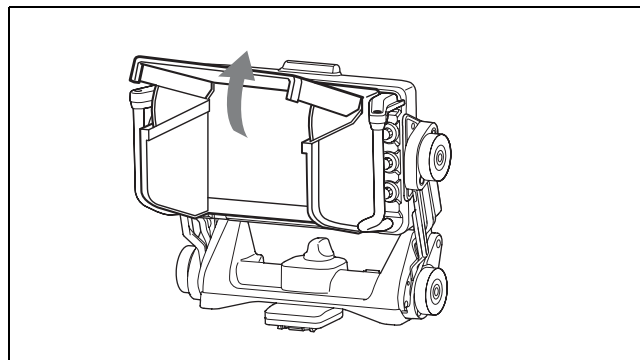


- 2 Tighten the screw to fix the viewfinder.



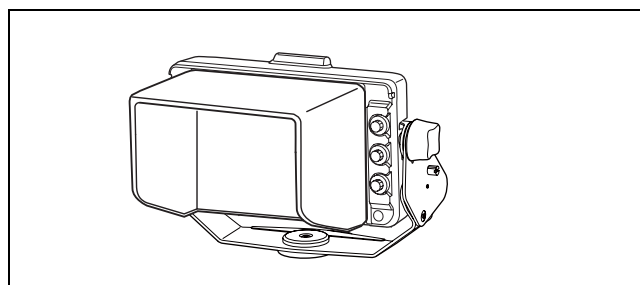
## Indoor hood (supplied)

### HDVF-L770

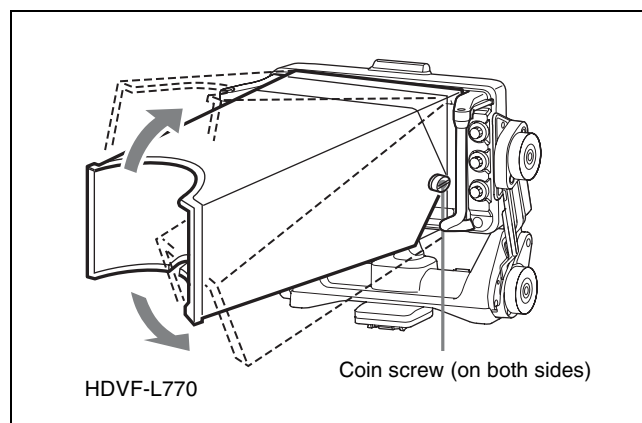


The angle of the hood can be changed up to 45° upward.

### HDVF-L750



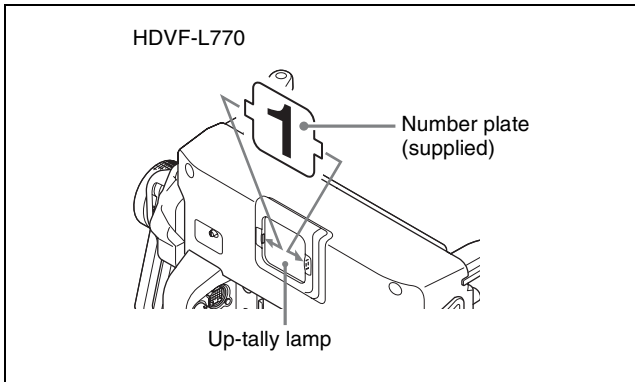
## Outdoor hood (optional)



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 18.

### 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.

#### Note

The PEAKING PLUS function is invalid when connecting the connecting cable (26-pin).

### 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 menu (*see page 21*).
- 2 Select “COLOR” under “COLOR/AREA SEL” of the PEAKING 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.

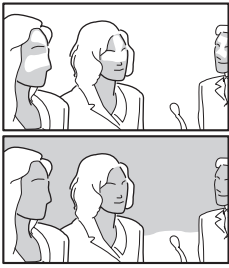
The color that is to be corrected will be detected.



■ : Effective edge enhancement area

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

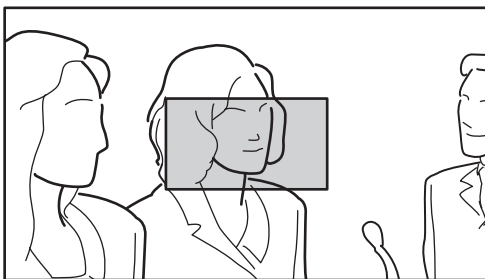
### To sharpen edges by specifying the display area

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

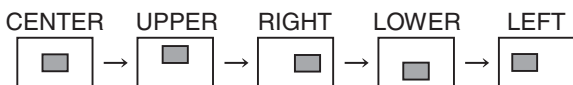
The PEAKING PLUS indicator lights up. You can also set to this mode using “PEAKING MODE” from the PEAKING menu (see page 21).

**2** Select “AREA” under “COLOR/AREA SEL” of the PEAKING menu.

**3** Select an area under “POSITION” of the PEAKING 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.

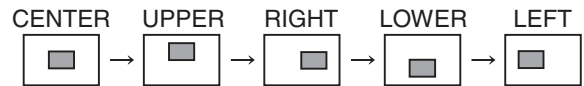
### To specify both color and area

**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 menu (see page 21).

**2** Select “BOTH” under “COLOR/AREA SEL” of the PEAKING menu.

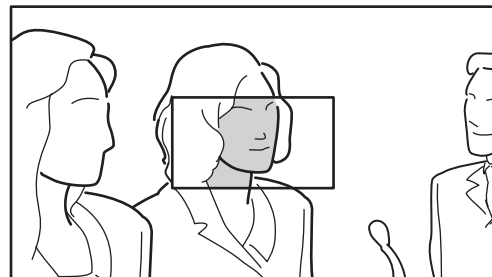
**3** Select an area under “POSITION” of the PEAKING menu.



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 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 menu.

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



- 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

- 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 menu (see page 21).

- 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.

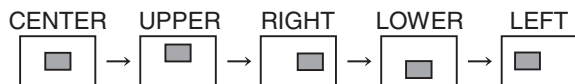
- Press the ASSIGN. switch that is assigned the MAGNIFICATION function.

The image is magnified. You can also set to this mode from the MAGNIFICATION menu (see page 22).

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

The magnified area changes in the following sequence.

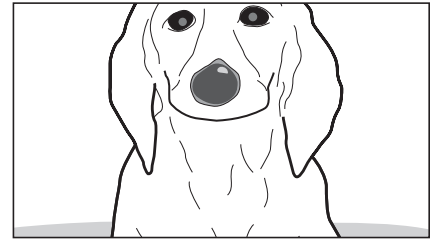
You can also select an area under “MAG POSITION” of the MAGNIFICATION menu (see page 22).



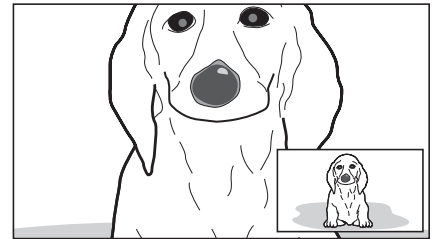
If the “MAG POSITION” setting is changed, the “POSITION” setting in the PEAKING menu will be changed too.

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

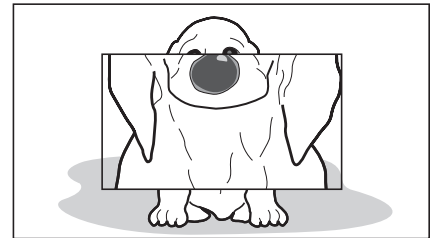
MODE1: Standard magnified display



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.

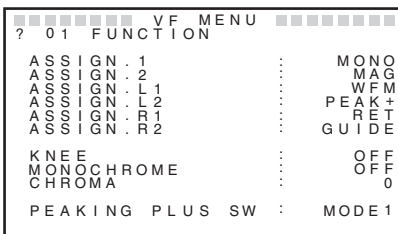
## Basic Menu Operations

### 1 Enter the menu.

Press the MENU switch.

A menu page appears in the viewfinder display.

#### Example

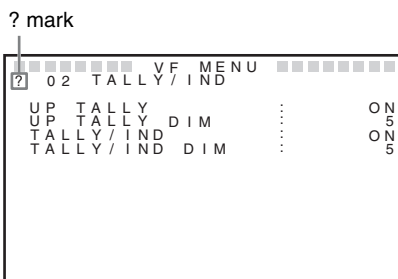


The viewfinder menu can be displayed at the same time a picture from the camera is being displayed. The camera picture or menu darkens so that it appears dimly behind the viewfinder menu.

### 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.



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

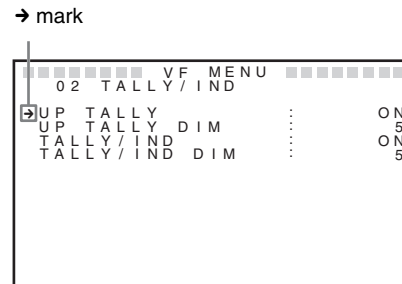
The → mark appears to the left of a menu item on the selected menu page (item select mode).

- 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 change

to item select mode. Press the MENU switch again to change 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.

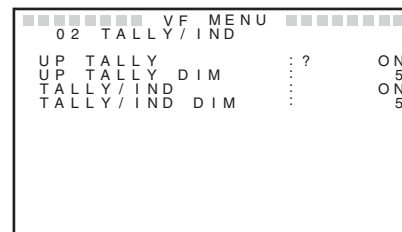


To move the → mark downward, turn the control clockwise. To move the → mark upward, turn the control counterclockwise.

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

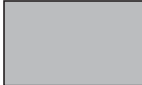
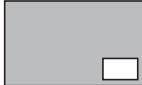

## Notes

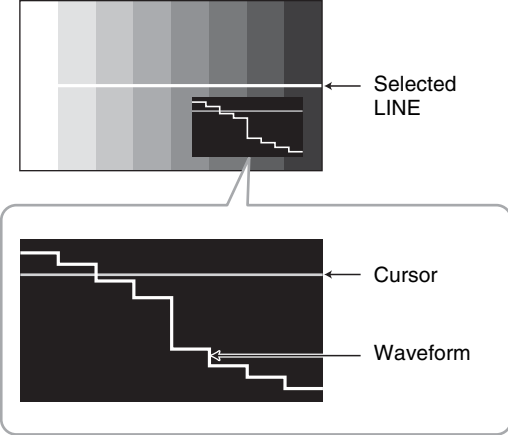
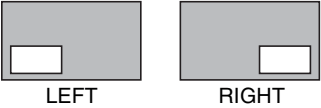
- Some settings cannot be selected unless the previous menu item is set to "ON."

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

Page	Menu	Item	Settings (default in <input type="checkbox"/> )	Function
01	FUNCTION	ASSIGN. 1	OFF/[MONO]/ MAG/WFM/ PEAK+/RET/ GUIDE/ZEBRA/ DISP/KNEE/ PRESET/UPTLY	For assigning a function to the ASSIGN. 1 switch. Detailed settings of the individual features can be specified on the respective menu pages. <b>OFF:</b> No function assigned. <b>MONO:</b> Toggles the black-and-white display between ON and OFF. <b>MAG:</b> Toggles the magnification function between ON and OFF (Press and hold for one second or more to select the area to magnify). <b>WFM:</b> Toggles WFM between ON and OFF. <b>PEAK+:</b> Toggles the peaking mode between STD and PLUS (Press and hold for one second or more to execute COLOR DETECT). <b>RET:</b> Displays the signal that is input to SDI IN while pressing the button (works only when the INPUT switch is set to CAM). <b>GUIDE:</b> Toggles GUIDE FRAME between ON and OFF. <b>ZEBRA:</b> Toggles ZEBRA/FALSE COLOR between ON and OFF. <b>DISP:</b> Toggles the display of the marker or character information between ON and OFF. <b>KNEE:</b> Toggles the KNEE correction circuit between ON and OFF. <b>PRESET:</b> Toggles PRESET between ON and OFF. <b>UPTLY:</b> Toggles UP TALLY between ON and OFF.
		ASSIGN. 2	OFF/MONO/ [MAG]/WFM/ PEAK+/RET/ GUIDE/ZEBRA/ DISP/KNEE/ PRESET/UPTLY	For assigning a function to the ASSIGN. 2 switch. The assignable functions are the same as those for ASSIGN. 1.
		ASSIGN. L1	OFF/MONO/ MAG/[WFM]/ PEAK+/RET/ GUIDE/ZEBRA/ DISP/KNEE/ PRESET/UPTLY	For assigning a function to the ASSIGN. L1 switch. (HDVF-L770 only) The assignable functions are the same as those for ASSIGN. 1.
		ASSIGN. L2	OFF/MONO/ MAG/WFM/ [PEAK+]/RET/ GUIDE/ZEBRA/ DISP/KNEE/ PRESET/UPTLY	For assigning a function to the ASSIGN. L2 switch. (HDVF-L770 only) The assignable functions are the same as those for ASSIGN. 1.
		ASSIGN. R1	OFF/MONO/ MAG/WFM/ PEAK+/[RET]/ GUIDE/ZEBRA/ DISP/KNEE/ PRESET/UPTLY	For assigning a function to the ASSIGN. R1 switch. (HDVF-L770 only) The assignable functions are the same as those for ASSIGN. 1.
		ASSIGN. R2	OFF/MONO/ MAG/WFM/ PEAK+/RET/ [GUIDE]/ZEBRA/ DISP/KNEE/ PRESET/UPTLY	For assigning a function to the ASSIGN. R2 switch. (HDVF-L770 only) The assignable functions are the same as those for ASSIGN. 1.

Page	Menu	Item	Settings (default in <input type="checkbox"/> )	Function
01	FUNCTION	KNEE	<input type="checkbox"/> /ON	For turning the KNEE correction circuit ON or OFF. (This setting does not affect the camera's output signals.)
		MONOCHROME	<input type="checkbox"/> /ON	For selecting color display (OFF) or black-and-white display (ON). (This setting does not affect the camera's output signals.)
		CHROMA	-99 to <input type="text"/> to 99	For setting the chroma level. (This setting does not affect the camera's output signals.) Lowering the value decreases the chroma level.
		PEAKING PLUS SW	<input type="checkbox"/> /MODE2	For selecting the operation mode upon pressing the ASSIGN. switch that is assigned the PEAKING PLUS function. <b>MODE1:</b> Toggles PEAKING MODE STD ↔ PLUS. <b>MODE2:</b> Toggles in the sequence of STD → COLOR → AREA → BOTH → STD.
02	TALLY/IND	UP TALLY	OFF/ <input type="checkbox"/>	For controlling the up-tally lamp. <b>ON:</b> Enables the up-tally lamp. <b>OFF:</b> Disables the up-tally lamp. (Does not light up even when receiving red tally signals from the camera.)
		UP TALLY DIM	1 to <input type="text"/> 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/ <input type="checkbox"/> / UPPER/LOWER	For controlling the indicators (including the tally indicators). <b>OFF:</b> Activates the BATT indicator and the STATUS indicator only. <b>ON:</b> Activates all indicators including the tally indicators. <b>UPPER:</b> Activates the indicators (including the upper tally indicators) except the lower tally indicators. <b>LOWER:</b> Activates the indicators (including the lower tally indicators) except the upper tally indicators.
		TALLY/IND DIM	1 to <input type="text"/> 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	PEAKING MODE	<input type="checkbox"/> /PLUS	For selecting a peaking mode. <b>STD:</b> Standard mode <b>PLUS:</b> PEAKING PLUS mode
		COLOR/AREA SEL	<input type="checkbox"/> /AREA/ BOTH	For selecting a peaking plus mode. <b>COLOR:</b> Sharpens the edges for the selected color only. <b>AREA:</b> Sharpens the edges for the selected area only. <b>BOTH:</b> Sharpens the edges for the selected color and area only.
		POSITION	<input type="checkbox"/> / 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. <b>CENTER:</b> Sharpens the edges of the center area. <b>UPPER:</b> Sharpens the edges of the upper area. <b>RIGHT:</b> Sharpens the edges of the right area. <b>LOWER:</b> Sharpens the edges of the lower area. <b>LEFT:</b> Sharpens the edges of the left area.
		PEAKING UP	<input type="checkbox"/> /ON	For selecting whether to increase the peaking level by +6 dB or not when "PLUS" is selected in "PEAKING MODE." <b>OFF:</b> RANGE setting <b>ON:</b> RANGE setting +6 dB
		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"/> to 359	For specifying the hue center position of which edge enhancement is to be performed.

Page	Menu	Item	Settings (default in <input type="text"/> )	Function
03	PEAKING	HUE WIDTH	-99 to <input type="text"/> to 99	For specifying the hue range of which edge enhancement is to be performed.
		SAT WIDTH	-99 to <input type="text"/> to 99	For specifying the saturation range of which edge enhancement is to be performed.
		FREQUENCY	L/ <input type="text"/> /MH/H	For specifying the center frequency of edge enhancement signals.
		RANGE	1 to <input type="text"/> to 3	For specifying the variability of edge enhancement level.
04	MAGNIFICATION	MAGNIFICATION	<input type="text"/> /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"/> /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 <sup>a)</sup>	<input type="text"/> / 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. <b>CENTER:</b> Magnifies the center area. <b>UPPER:</b> Magnifies the upper area. <b>RIGHT:</b> Magnifies the right area. <b>LOWER:</b> Magnifies the lower area. <b>LEFT:</b> Magnifies the left area.
		DISPLAY POSITION	LEFT/ <input type="text"/>	For selecting the magnified display (sub display) position When "MODE2" is selected in "MODE SEL." <b>LEFT:</b> Displays the sub display in the lower left of the screen. <b>RIGHT:</b> Displays the sub display in the lower right of the screen.
		AUTO RELEASE	<input type="text"/> /MANUAL	For specifying the manner in which the magnified display returns to normal display. <b>AUTO:</b> After the magnified display appears by pressing ASSIGN. switch, the display returns to normal automatically after the specified time. <b>MANUAL:</b> After the magnified display appears by pressing ASSIGN. switch, the display returns to normal when ASSIGN. switch is pressed again.
05	GUIDE FRAME	GUIDE FRAME	<input type="text"/> /ON	Toggles between the normal display (OFF) and the guide frame display (ON).
		PATTERN SEL	<input type="text"/> /5X5/9X9	Selects the cell display pattern for the guide frame.
		COLOR	<input type="text"/> /R/G/B/YL	Selects the display color for the guide frame.
		LEVEL	1 to <input type="text"/> to 10	Sets the display level of the guide frame. Raising the value increases the brightness.

Page	Menu	Item	Settings (default in <input type="text"/> )	Function
06	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><b>Note</b> The waveform monitor allows for easy checking of an image waveform.</p>		 <p>The diagram shows two views of the waveform monitor. The top view shows a grayscale bar with a white line labeled 'Selected LINE' pointing to a specific step in the waveform. The bottom view shows a black background with a white waveform and a white arrow labeled 'Cursor' pointing to a specific point on the waveform.</p>
		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. <b>LEFT:</b> Displays the waveform monitor display in the lower left of the screen. <b>RIGHT:</b> Displays the waveform monitor display in the lower right of the screen.
				 <p>The diagram shows two rectangular boxes representing the screen. The left box has a small white rectangle in the bottom-left corner, labeled 'LEFT'. The right box has a small white rectangle in the bottom-right corner, labeled 'RIGHT'.</p>
		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. <b>LINE:</b> Displays the video level at any point on the horizontal axis of the image. <b>FIELD:</b> 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
07	PRESET	PRESET	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. <b>OFF:</b> Enables the settings of the controls and the preset chroma level in the FUNCTION menu <b>ON:</b> 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.
08	STATUS DISPLAY	ASSIGN. 1	OFF/ <input type="checkbox"/> ON	For selecting whether the changes in the status of the function assigned to the ASSIGN. 1 switch is displayed (ON) or not (OFF).
		ASSIGN. 2	OFF/ <input type="checkbox"/> ON	For selecting whether the changes in the status of the function assigned to the ASSIGN. 2 switch is displayed (ON) or not (OFF).
		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). (HDVF-L770 only)
		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). (HDVF-L770 only)
		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). (HDVF-L770 only)
		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). (HDVF-L770 only)
		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).



Page	Menu	Item	Settings (default in <input type="text"/> )	Function
09	ZEBRA/FALSE	SELECT	<input type="text"/> ZEBRA/ <input type="text"/> FALSE	Switches the support function for setting exposure.
		ZEBRA/FALSE	<input type="text"/> OFF/ <input type="text"/> ON	Toggles between the normal display (OFF) and the ZEBRA/ FALSE COLOR display (ON).
		ZEBRA SELECT	<input type="text"/> 1/ <input type="text"/> 2/ <input type="text"/> BOTH	Sets the type of ZEBRA display (ZEBRA1, ZEBRA2, or both of them). (This function works only when the INPUT switch is set to SDI. When the INPUT switch is set to CAM, perform the ZEBRA setting on the menu of the camera.)
		ZEBRA1 LEVEL	50% to <input type="text"/> 70% <input type="text"/> to 107%	Sets the level that displays ZEBRA1. (This function works only when the INPUT switch is set to SDI. When the INPUT switch is set to CAM, perform the ZEBRA setting on the menu of the camera.)
		ZEBRA1 APERTURE LEVEL	1% to <input type="text"/> 10% <input type="text"/> to 20%	Sets the aperture level for ZEBRA1. (This function works only when the INPUT switch is set to SDI. When the INPUT switch is set to CAM, perform the ZEBRA setting on the menu of the camera.)
		ZEBRA2 LEVEL	52% to <input type="text"/> 100% <input type="text"/> to 109%	Sets the level that displays ZEBRA2. (This function works only when the INPUT switch is set to SDI. When the INPUT switch is set to CAM, perform the ZEBRA setting on the menu of the camera.)

a) If “ASSIGN. 1,” “ASSIGN. 2,” “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.

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## Error Message

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

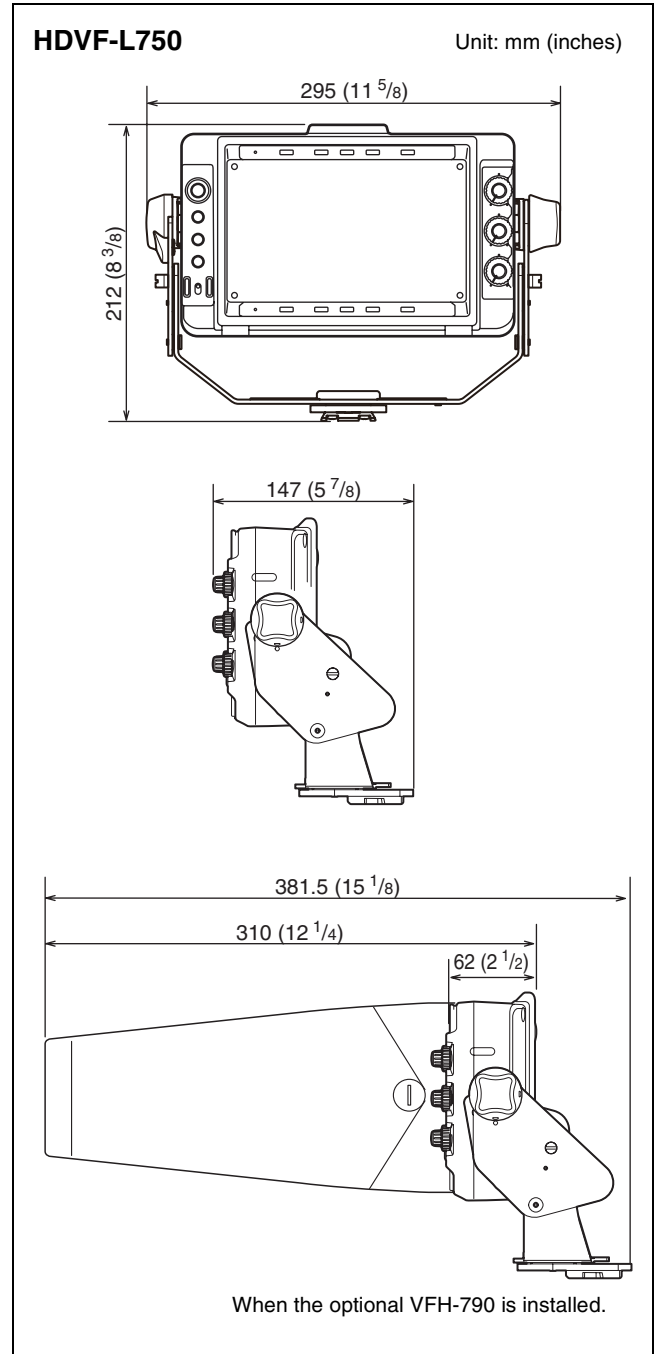
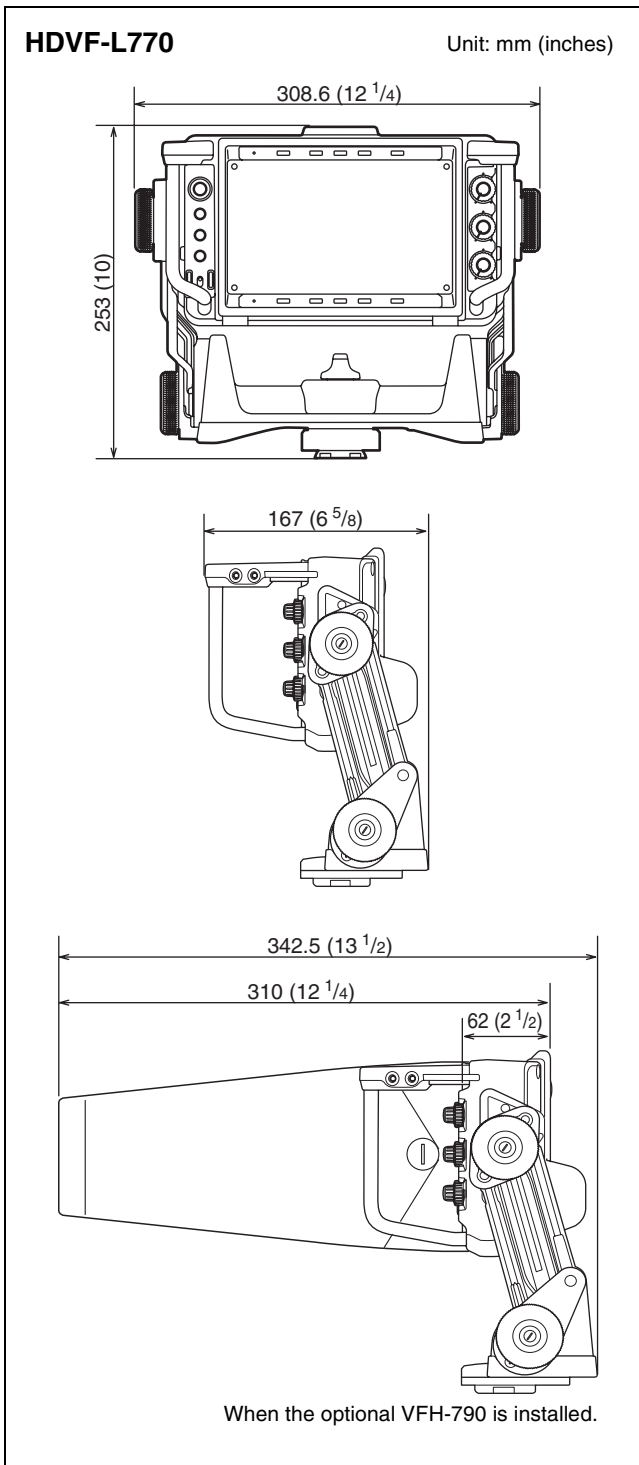
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## Specifications

### General

Power supply	10.5 V to 17.0 V DC
Power consumption	13 W
Operating temperature	0°C to 45°C (32°F to 113°F)
Storage temperature	-20°C to +60°C (-4°F to +140°F)
Mass	HDVF-L770: 3.0 kg (6 lb 9.8 oz) (not including hood)
	HDVF-L750: 1.7 kg (3 lb 12 oz) (not including hood)

External dimensions



**LCD**

7.0-inch color TFT transmissive LCD  
 Display area 155.5 × 87.5 mm (6 1/8 × 3 1/2 inches)  
 (H/V, 16:9 aspect ratio)

**Performance**

Brightness 300 cd/m<sup>2</sup> (typical)  
 Resolution 1920 × 1080  
 Color temperature D65

Supported formats (during HD-SDI connection)

Format	Frame rate
1080/59.94P	59.94
1080/50P	50
1080/29.97P	29.97
1080/25P	25
1080/24P	24
1080/23.98P	23.98
1080/59.94i	29.97
1080/50i	25
1080/29.97PsF	29.97
1080/25PsF	25
1080/24PsF	24
1080/23.98PsF	23.98
720/59.94P	59.94
720/50P	50

(Horizontal resolutions of 2048 are not supported.)

### Colors and signal levels displayed for false color (during S-Log2)

Color display	Signal level
Red	105.4% or higher
Yellow	102.4% to 105.4%
Pink	41.3% to 45.3%
Green	30.3% to 34.3%
Blue	2.5% to 4.0%
Purple	0% to 2.5%

### Input connectors

CAM	20-pin round type (1)
CAM	26-pin rectangular type (1)
SDI IN	BNC type (1)
DC IN	4-pin (1), 10.5 V to 17.0 V DC

### Accessories

- Operation guide (1)
- Operation manual (CD-ROM) (1)
- Connecting cable (20-pin) (1)
- Connecting cable (26-pin) (1) (HDVF-L750 only)
- Shoe conversion bracket (1) (HDVF-L750 only)
- Attaching screws (4) (HDVF-L750 only)
- Indoor hood (1)
- Number plate (1)
- V-wedge shoe attachment (1)
- Hexagonal wrench (1)
- Socket head cap screws (4)
- Spiral tube (1)

### Optional accessory

VFH-790 Outdoor Hood  
Connecting cable (26-pin) 1-848-062-2X

### Related products

HD Color Camera  
HDC2500 series  
HSC-300R/HSC-100R  
HXC-D70\*

Solid-State Memory Camcorder  
PMW-320/350/400/500\*

Camera System Adaptor  
CA4000

\* An optional connecting cable (26-pin) is needed for the HDVF-L770.

Designs and specifications are subject to change without notice.

#### Note

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HDVF-L750 (SY)  
HDVF-L770 (SY)  
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