

OLED VIEWFINDER

Operating Instructions

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

HDVF-EL780

HDVF-EL760

HDVF-EL740

Table of Contents

Overview	3
Functions of Parts and Controls	4
HDVF-EL780	4
HDVF-EL760	4
HDVF-EL740	4
Attaching to the Camera.....	7
HDVF-EL780	7
When carrying the camera with the viewfinder attached.....	8
HDVF-EL760	8
To attach the viewfinder to the camera with the slide rails	8
To attach the viewfinder to the camera without the slide rails.....	10
To attach the viewfinder to the camera with the V-wedge shoe attachment.....	11
To adjust the front-back position of the viewfinder.....	11
When carrying the camera with the viewfinder attached.....	11
HDVF-EL740	12
When carrying the camera with the viewfinder attached.....	12
To attach the shoe conversion bracket.....	12
When using the slide mechanism of a camera with slide rails.....	13
Turning on the Viewfinder.....	13
Adjusting the Viewfinder Position.....	14
HDVF-EL780	14
Adjusting the Height/Angle	14
Adjusting the Front-Back Position	14
HDVF-EL760	15
Adjusting the Height/Angle	15
HDVF-EL740	17
Adjusting the Height/Angle	17
Adjusting the Screen	18
Attaching Accessories.....	18
Attaching a Hood	18
Indoor hood (supplied).....	18
Outdoor hood (sold separately).....	19
Attaching a Number Plate.....	19
Detaching the Arm (HDVF-EL740)	19
Using the Menu	20
Basic operations of the viewfinder menu.....	20
Basic operations of the camera menu.....	21
Menu item list.....	22
Error Messages.....	27
Appendix.....	27
Precautions	27
Specifications	29
HDVF-EL780	29
HDVF-EL760	30
HDVF-EL740	31

About this manual

This manual explains the following products:

- HDVF-EL780
- HDVF-EL760
- HDVF-EL740

Differences in explanations or operations between the products are separately mentioned where needed.

Furthermore, figures of HDVF-EL760 are used for the explanations except for when there are differences in the explanations or operations.

Overview

The HDVF-EL780, HDVF-EL760, and HDVF-EL740 are 7.4-type OLED viewfinders.

These viewfinders have the following features:

High Resolution OLED panel

By adopting the high-precision 7.4-type Full HD OLED panel, high resolution (1920×1080) is achieved.

Superior video responsiveness enables the reproduction of images with less blurring and afterimages.

BBM (Boosted Brightness Mode) is provided to improve the visibility outdoors.

The viewfinder provides stable performance even when shooting outdoors since it is not easily affected by the environmental temperature.

Digital compatibility (CAM connector)

Digital transmission of camera images is available when used in combination with a camera with the D-VF label attached. The high resolution of the OLED panel makes it easier to focus.

Flicker suppression function (FLICKER FREE)

The viewfinder has a function that reduces the flicker which occurs in low vertical frequency input signals (24PsF, 50i, etc.).

Color temperature adjustment function (COLOR TEMP)

You can set the color temperature (3200 K to 9500 K, in 100K increments).

Camera number display (HDVF-EL780/HDVF-EL760)

You can have the camera number turned on according to the menu setting.

Magnification display function (MAG)

This function enables you to magnify a part of the image while displaying the entire original image.

Waveform Monitor function

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

Superior operability

HDVF-EL780

Use of a counterbalance mechanism to adjust the weight of the screen part and link arms allows screen tilting and lifting at once with a light operational feeling.

By adjusting the height, the screen can be lowered near the optical axis.

With the slide mechanism that allows you to move the unit forward or backward, you can move the screen up to 130 mm (5 1/8 in) as required.

Large handles, each equipped with two assignable switches, are provided on the left and right sides of the screen.

These do not hinder the operator's view, and they offer comfortable operation.

HDVF-EL760

Use of a counterbalance mechanism to adjust the weight of the screen part and link arms allows screen tilting and lifting at once with a light operational feeling.

You can lower the viewfinder near the optical axis by the mechanism which can switch between four lift positions. When the unit is attached to the camera which has the slide rail mechanism, you can move the unit forward or backward.

Large handles, each equipped with two assignable switches, are provided on the left and right sides of the screen.

These do not hinder the operator's view, and they offer comfortable operation.

HDVF-EL740

The lift mechanism is equipped to the unit while being light (approx. 1.7 kg (3 lb 12 oz)).

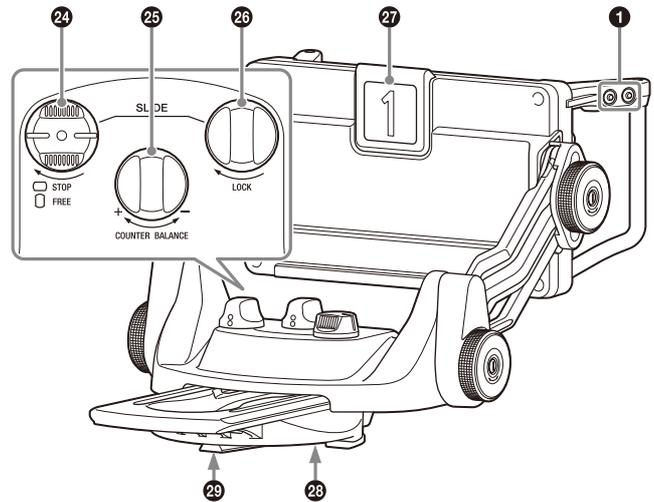
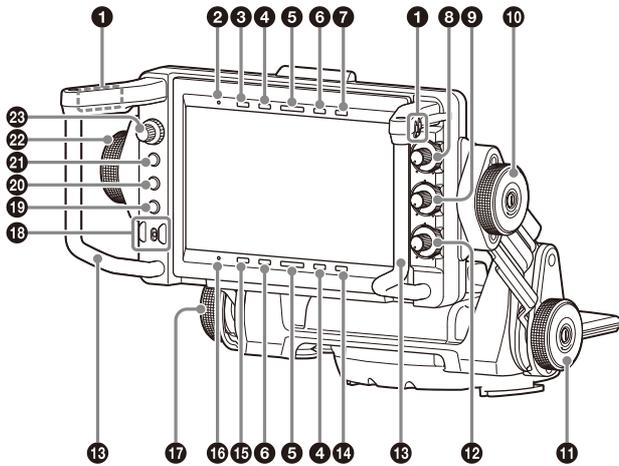
This mechanism can perform panning, tilting, and height adjustment.

Indoor hood (supplied) and VFH-790 outdoor hood (sold separately)

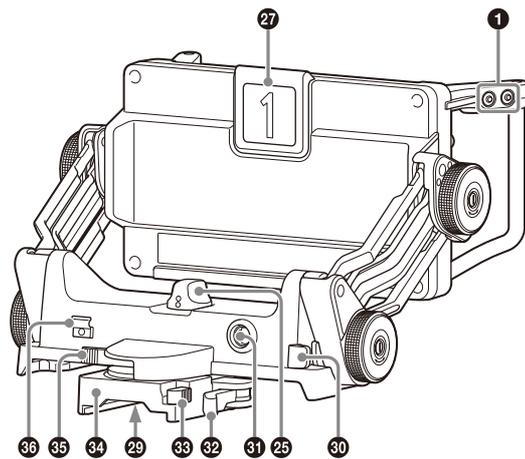
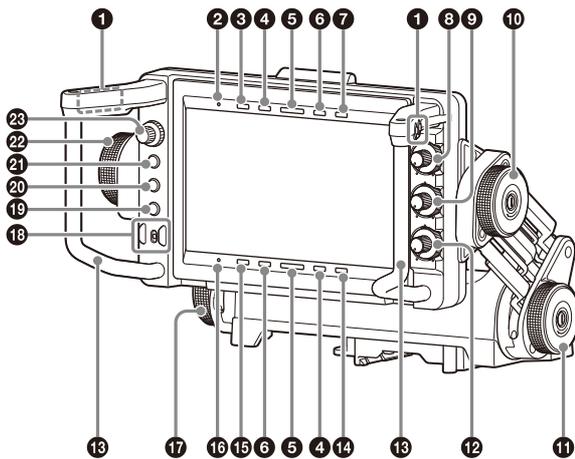
The indoor hood is supplied. The VFH-790 outdoor hood (sold separately) offers superior shading.

Functions of Parts and Controls

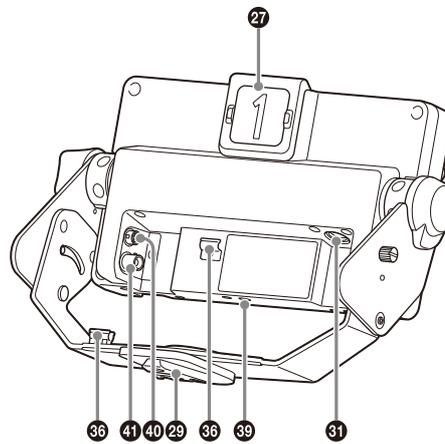
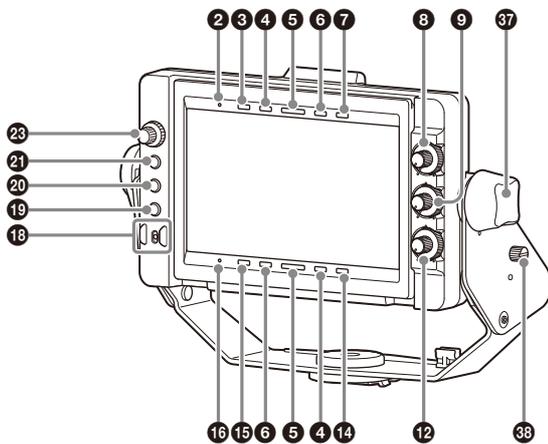
HDVF-EL780



HDVF-EL760



HDVF-EL740



1 ASSIGN.L1/L2/R1/R2 (assignable L1/L2/R1/R2) switch (HDVF-EL780/HDVF-EL760)

Can be used to store frequently used functions. The left handle has ASSIGN.L1 and ASSIGN.L2 switches, and the right handle has ASSIGN.R1 and ASSIGN.R2 switches. Function assignment is performed using "ASSIGN.L1," "ASSIGN.L2," "ASSIGN.R1," or "ASSIGN.R2" in the menu.

2 BBM indicator (blue)

Lights up when BBM (Boosted Brightness Mode) is turned on in the menu.

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 G TALLY indicator (green)

Lights up when the green tally signal is input.

5 R TALLY indicator (red)

Lights up when the red tally signal is input.

6 Y TALLY indicator (yellow)

Lights up when the yellow tally signal is input.

7 ALARM indicator (red)

Lights or flashes to indicate an alarm condition such as for a battery connected to the camera. For details, refer to the operation manual of the camera.

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 (HDVF-EL780/HDVF-EL760)

Turn clockwise to lock the tilting position.

11 Lift-lock knob (HDVF-EL780/HDVF-EL760)

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

12 PEAKING control

Adjusts the sharpness of the viewfinder image. Turn the control clockwise to make the edges sharper.

13 Handles

Use the handles to move the screen part of the viewfinder.

14 Spare indicator

Not in use.

15  (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.

16 STATUS indicator (amber)

Shows the current status of the viewfinder.

Lit: The ABL (Automatic Brightness Limiter) protection function of the OLED panel is running due to the high average brightness of the image.

Blinking twice in intervals of 0.5 seconds, turning off for 2 seconds: The internal temperature is increasing.

Turn off the power once or move to a cooler place.

Blinking in intervals of 2 seconds: IBAC (screen saver) is currently active.

Blinking in intervals of 0.5 seconds: A problem was detected by self-diagnosis.

At the same time, an error message (see page 27) may be displayed. Turn off the power and contact your Sony service representative.

17 Lift friction adjustment knob (HDVF-EL780/HDVF-EL760)

Adjusts the friction in the lift mechanism.

Turning the knob toward (+) increases the friction, and toward (-) decreases the friction.

18 POWER switch

When set to ON, the power is turned on and the OLED panel lights up. Turns off the power of the EL panel and goes into a power-saving mode when set to STANDBY.

19 ASSIGN2 (assignable 2) switch

Can be used to store frequently used functions. Function assignment is performed using "ASSIGN.2" in the menu.

20 ASSIGN1 (assignable 1) switch

Can be used to store frequently used functions. Function assignment is performed using "ASSIGN.1" in the menu.

21 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 menu operations, see "Using the Menu" on page 20.

22 Tilt friction adjustment knob (HDVF-EL780/HDVF-EL760)

Adjusts the friction in the tilting mechanism.

Turning the knob toward (+) increases the friction, and toward (-) decreases the friction.

23 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.

For details on menu operations, see "Using the Menu" on page 20.

24 Slide position knob (HDVF-EL780)

Used to adjust the front-back position of the viewfinder.
 FREE: Slide the viewfinder back and forth to adjust the position.
 STOP: Lock the front-back positions in four places.

25 COUNTER BALANCE control (HDVF-EL780/HDVF-EL760)

Adjust the counterbalance for the screen part.
Turning the control toward (+) increases counterbalance, and turning the control toward (-) decreases the counterbalance.
If the control movement is too tight to turn toward (+), lift the screen then turn the control.

26 Slide-lock knob (HDVF-EL780)

Used to adjust the front-back position of the screen part.
Turn the knob in the direction of the LOCK arrow to lock the slide at any position.
It can also be used when you are concerned about looseness after turning the slide position knob to STOP.

27 Up-tally lamp (red) and camera number (amber) (HDVF-EL780/HDVF-EL760)

The camera number can be turned on according to the menu setting.
When a red tally signal is input, the camera number is displayed in reverse.
The number plate (supplied) can also be attached.

Up-tally lamp (red) (HDVF-EL740)

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

28 CAM (camera) connector (D-sub, 25-pin) (HDVF-EL780)

Connects to the camera's VF connector.

29 Mounting wedge

Used to attach the viewfinder to the camera.
For attachment, see "Attaching to the Camera" on page 7.

30 Lift-lock lever (HDVF-EL760)

Lock the viewfinder position after adjusting the height in 4 steps.

31 CAM (camera) connector (round type, 20-pin) (HDVF-EL760/HDVF-EL740)

Connects to the camera's VF connector using the connection cable (supplied).

Note

When using the connection cable, be sure to use the supplied cable to prevent malfunction due to radiation noise.

32 Slide-lock lever (HDVF-EL760)

Lock the VF slide base at any slide position.

33 Slide latch button (HDVF-EL760)

The latch is released while the button is pressed.
Use when sliding the viewfinder to the other latch positions or removing the viewfinder.

34 VF slide unit (HDVF-EL760)

Used to attach the viewfinder to the camera.
For attachment, see "Attaching to the Camera" on page 7.

35 Pan brake lever (HDVF-EL760)

Lock at any panning position.

36 Cable clamp (HDVF-EL760/HDVF-EL740)

Secure the connected cable.

37 Tilt-lock knob (HDVF-EL740)

Turn clockwise to lock the tilting position.

38 Lift fixing screw (HDVF-EL740)

Adjusts the height of the viewfinder in two steps.

39 1/4 inch screw hole

Used to attach accessories such as an arm.

40 DC IN terminal (HDVF-EL740)

If power cannot be supplied through the CAM terminals, connect to an external power supply (10.5 V to 17.0 V DC). Please contact your Sony service representative before use.

41 SDI IN terminal (BNC-type) (HDVF-EL740)

Connect to the SDI OUT terminal of the camera or external device with a BNC cable.
When the CAM connector and SDI IN connector are connected at the same time, the camera image input from the CAM connector is displayed.
By operating the assignable switch, you can switch to the image input from the SDI IN connector.
For the supported format, see on page 31.

Attaching to the Camera

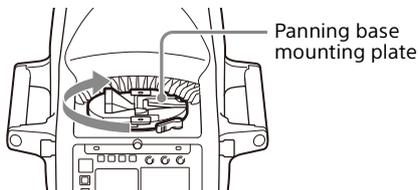
Notes

- When attaching the viewfinder to the camera/detaching the viewfinder from the camera, be sure to lock the viewfinder at the standard position (height/angle).
- When removing the viewfinder from the camera, be sure to apply the tilt lock of the tripod and firmly hold the viewfinder. Also, be careful not to fall or drop the viewfinder and camera.

For details on how to change the viewfinder position after attaching it to the camera, see "Adjusting the Viewfinder Position" (page 14).

HDVF-EL780

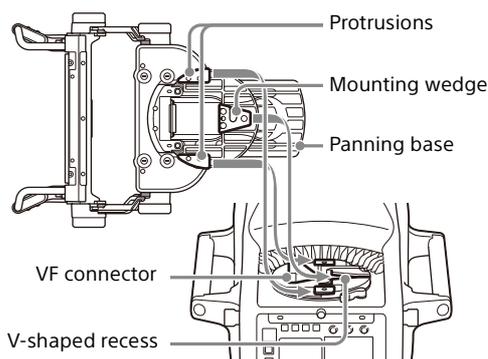
- 1 Turn the panning base mounting plate of the camera fully clockwise.



- 2 Place the viewfinder on the panning base mounting plate so that the orientation of the V-shaped recess on the panning base mounting plate and the mounting wedge on the viewfinder is aligned.

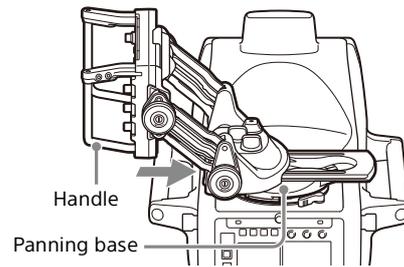
Place the viewfinder on the panning base mounting plate so that the protrusions of the panning base on the bottom of the viewfinder come in the positions shown in the figure.

Bottom of the viewfinder

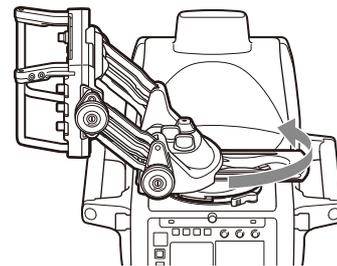


- 3 Press the panning base portion of the viewfinder to fully insert it into the panning base mounting plate of the camera.

Pull the handles to ensure that the viewfinder is securely locked.



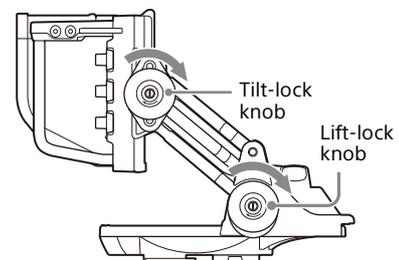
- 4 Turn the viewfinder to the desired position.



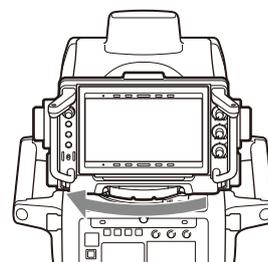
To detach the viewfinder from the camera

- 1 Set the viewfinder back to its standard position (height/angle), and lock the position by rotating the tilt-lock knob and lift-lock knob clockwise.

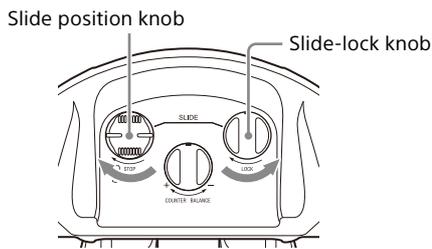
Standard position: the position where the viewfinder is raised up to the maximum.



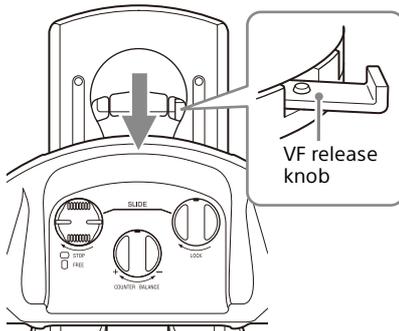
- 2 Turn the viewfinder fully clockwise.



- 3** Turn the slide position knob clockwise to the FREE position, and turn the slide-lock knob counterclockwise to release the lock.



- 4** Slide the viewfinder to the position where you can see the VF release knob from the cutout, and turn the slide position knob counterclockwise to the STOP position to lock the position.



- 5** While pressing the VF release knob, pull the handles of the viewfinder toward you, then lift it up to remove it.

When carrying the camera with the viewfinder attached

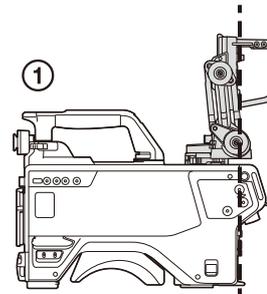
Set the viewfinder back to its standard position (height/angle), and lock the position by rotating the tilt-lock knob and lift-lock knob clockwise.

HDVF-EL760

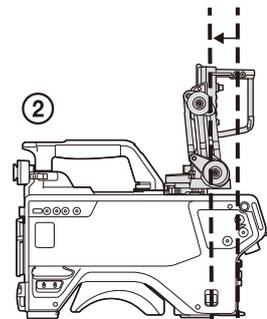
To attach the viewfinder to the camera with the slide rails

When the viewfinder is mounted on the camera¹⁾ with slide rails, the viewfinder can be slid within the following range.

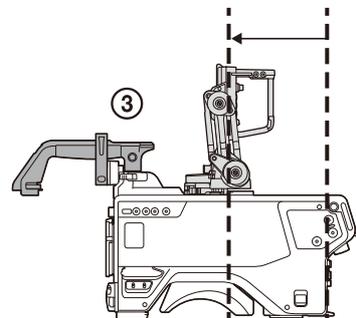
- 1) The HDC-F5500 is equipped with slide rails as standard equipment. The HDC5500/HDC3500 can be equipped with slide rails (sold separately). The slide rails have the latch positions (following ① to ③) for securing the viewfinder.



Initial position: This is the recommended limit position to the rear side. The viewfinder cannot be secured on the rear side from here.

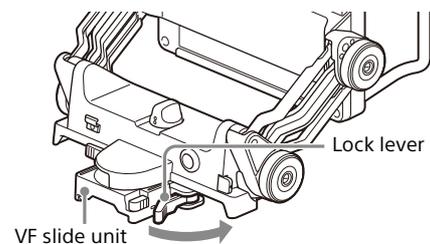


25 mm (1 in) position: The slide limit position of the viewfinder when used without interfering with the handle.

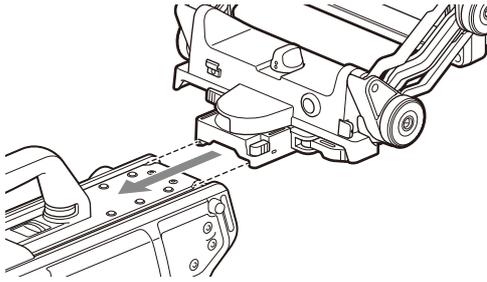


140 mm (5⁵/₈ in) position: The slide limit position of the viewfinder when used with the handle rotated 180°.

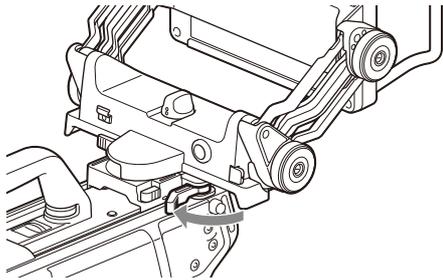
- 1** Set the lock lever on the VF slide unit to the release position.



- 2** Insert the VF slide unit into the slide rails of the camera.



- 3** At the initial position, set the lock lever on the VF slide unit to the lock position, and secure the viewfinder.

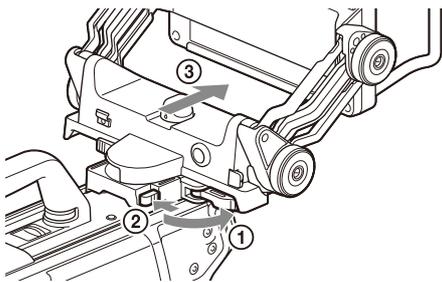


To slide the viewfinder

When sliding the viewfinder from the current latch position, set the slide-lock lever to the release position, and slide the viewfinder while pressing the slide latch button. Release the slide latch button after sliding the viewfinder to the desired latch position, set the slide-lock lever to the locked position, and secure the viewfinder.

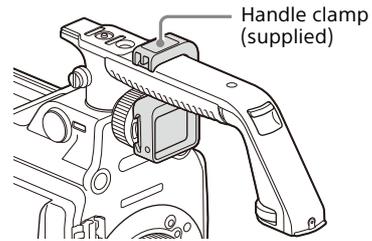
To detach the viewfinder from the camera

Set the lock lever on the VF slide unit to the release position, and pull the viewfinder toward you while pressing the slide latch button to remove it.

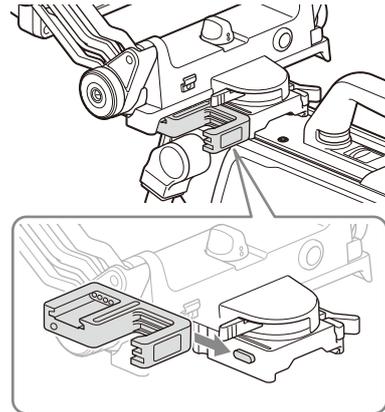


About the handle clamp

Use the handle clamp (supplied) to secure the rotated handle to the camera.

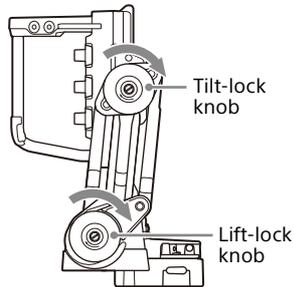


When the camera handle is not rotated, the handle clamp can be attached to the VF slide unit for storage.

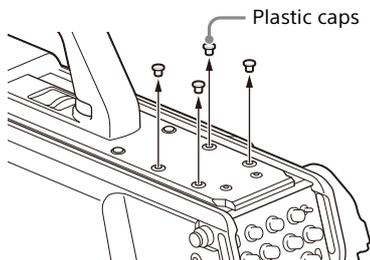


To attach the viewfinder to the camera without the slide rails

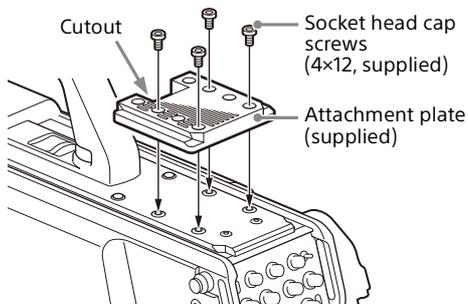
- 1** Set the viewfinder back to its standard position (height/angle), and lock the position by rotating the tilt-lock knob and lift-lock knob clockwise. Standard position: the position where the viewfinder is raised up to the maximum.



- 2** Remove the plastic caps (4 pcs) from the camera.



- 3** Attach the attachment plate (supplied) to the camera with the socket head cap screws (4x12, 4 pcs, supplied) using the hexagonal wrench (supplied). Attach the attachment plate with the cutout side facing the camera lens side.

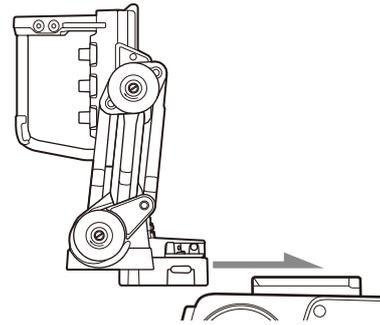


Depending on the screw holes on the attachment plate to use, the attachment position (front/rear) of the viewfinder can be selected. Also, depending on the camera to be mounted, the attachment position (front/rear) of the attachment plate may be selected.

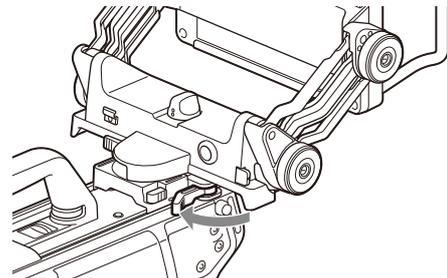
Note

Be sure to use the socket head cap screws (supplied).

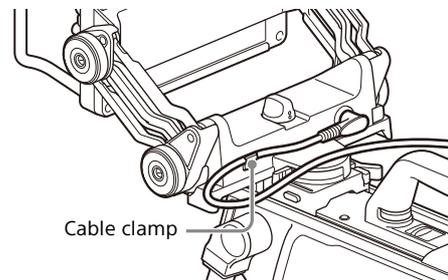
- 4** Insert the viewfinder firmly into the attachment plate of the camera. The viewfinder is temporarily secured with a click.



- 5** Set the lock lever on the VF slide unit to the lock position, and secure the viewfinder.



- 6** Connect the CAM connector on the viewfinder and the VF connector on the camera with the connection cable (supplied). Secure the connection cable with the cable clamp.

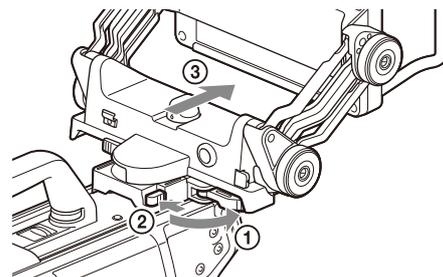


Note

Secure the connection cable (supplied) with its length adjusted so as not to get your fingers caught when adjusting the height, tilt, and pan.

To detach the viewfinder from the camera

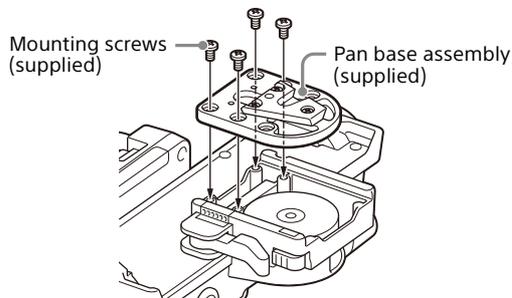
Set the lock lever on the VF slide unit to the release position, and pull the viewfinder toward you while pressing the slide latch button to remove it.



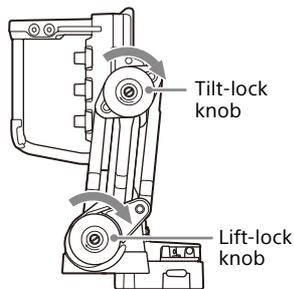
To attach the viewfinder to the camera with the V-wedge shoe attachment

When attaching the viewfinder to the camera with the V-wedge shoe attachment, use the pan base assembly (supplied).

- 1 Attach the pan base assembly (supplied) to the bottom of the viewfinder with the mounting screws (supplied) (Position ①).**

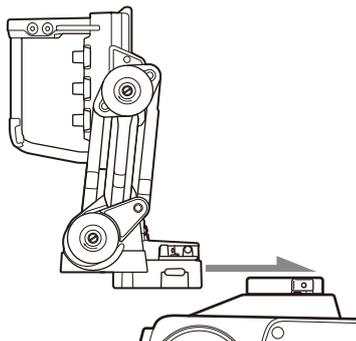


- 2 Set the viewfinder back to its standard position (height/angle), and lock the position by rotating the tilt-lock knob and lift-lock knob clockwise.**



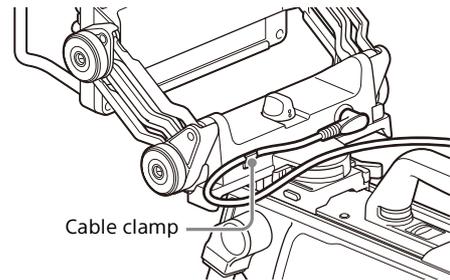
- 3 Insert the viewfinder firmly into the V-wedge shoe attachment of the camera.**

The viewfinder is secured with a click.



- 4 Connect the CAM connector on the viewfinder and the VF connector on the camera with the connection cable (supplied).**

Secure the connection cable with the cable clamp.



Note

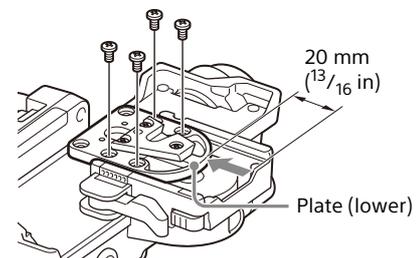
Secure the connection cable (supplied) with its length adjusted so as not to get your fingers caught when adjusting the height, tilt, and pan.

To adjust the front-back position of the viewfinder

You can adjust the front-back position of the viewfinder by changing the mounting position of the mounting wedge and lower plates on the bottom of the viewfinder.

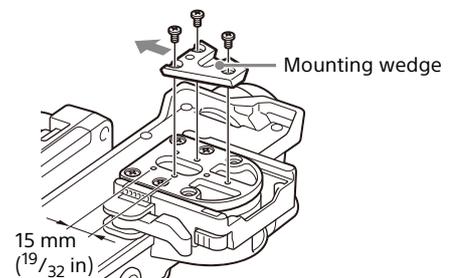
When the lower plate is slid backward (toward the camera lens side)

The viewfinder can be slid 20 mm ($\frac{13}{16}$ in) toward the camera lens from the attached position of the pan base assembly (supplied) (cf. Position ①).



When the mounting wedge is slid backward (toward the camera lens side)

The viewfinder can be slid 15 mm ($\frac{19}{32}$ in) toward the camera lens from the factory default position.



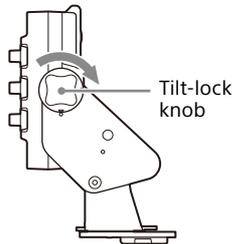
When carrying the camera with the viewfinder attached

Set the viewfinder back to its standard position (height/angle), and lock the position by rotating the tilt-lock knob and lift-lock knob clockwise.

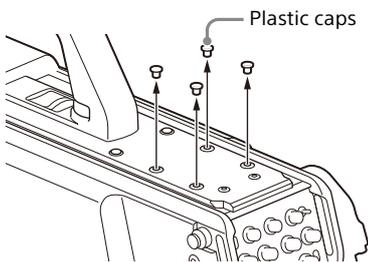
HDVF-EL740

- 1 Set the viewfinder back to its standard position (height/angle), and lock the position by rotating the tilt-lock knob clockwise.**

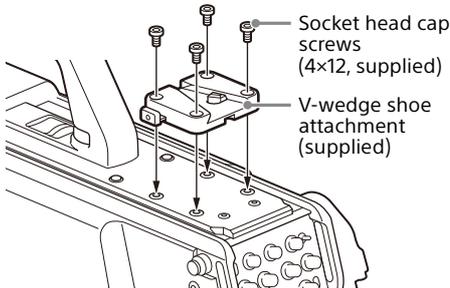
Standard position: the position where the viewfinder is raised up to the maximum.



- 2 Remove the plastic caps (4 pcs) from the camera.**



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



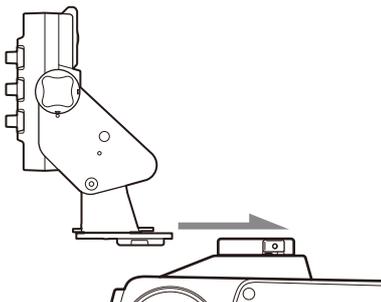
Depending on the camera to be mounted, the attachment position (front/rear) may be selectable.

Note

Be sure to use the socket head cap screws (supplied).

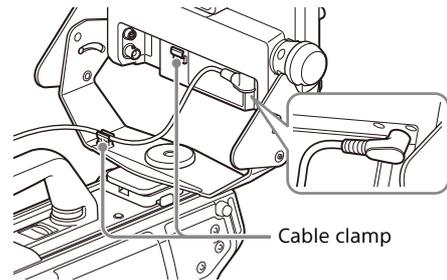
- 4 Insert the viewfinder firmly into the V-wedge shoe attachment of the camera.**

The viewfinder is secured with a click.



- 5 Connect the CAM connector on the viewfinder and the VF connector on the camera with the connection cable (supplied).**

Secure the connection cable with the cable clamp.

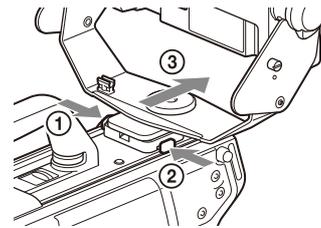


Notes

- Secure the connection cable (supplied) with its length adjusted so as not to get your fingers caught when adjusting the height, tilt, and pan.
- When bundling the connection cables, use the spiral tube (supplied) to route the cables so that they are not pinched.

To detach the viewfinder from the camera

Press the button while pulling the lever of the VF slide unit, and pull the viewfinder toward you to remove it.



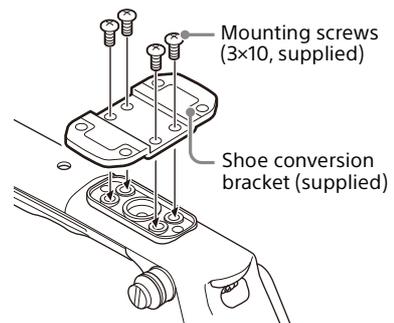
When carrying the camera with the viewfinder attached

Set the viewfinder back to its standard position (height/angle), and lock the position by rotating the tilt-lock knob clockwise.

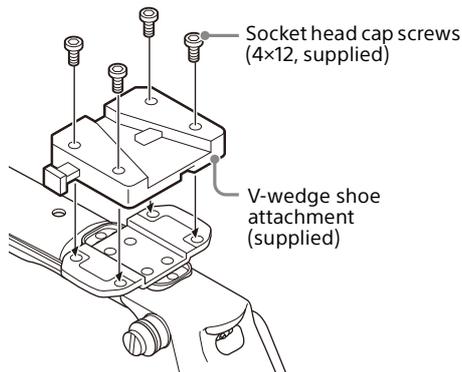
To attach the shoe conversion bracket

Use the shoe conversion bracket (supplied) when attaching the viewfinder to PXW-X320/PXW-X400/PXW-Z450/PXW-Z750 or PDW-850.

- 1 Remove the cover on the camera handle, then attach the shoe conversion bracket (supplied) to the camera with the mounting screws (3x10, 4 pcs, supplied).**



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



Note

Be sure to use the socket head cap screws (supplied).

When using the slide mechanism of a camera¹⁾ with slide rails

When the VF slide unit (X-5002-379-1, sold separately) is attached to the viewfinder, the viewfinder can be slid out.

1) The HDC-F5500 is equipped with slide rails as standard equipment. The HDC5500/HDC3500 can be equipped with slide rails (sold separately). Please contact your Sony service representative or sales representative for more information.

Turning on the Viewfinder

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

A few seconds after the power is turned on, the image of the signal being input will be displayed.

Adjusting the Viewfinder Position

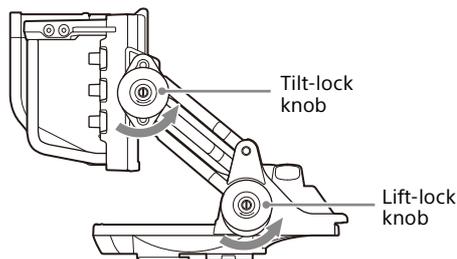
HDVF-EL780

You can adjust the viewfinder to any height, angle, and front-back position.

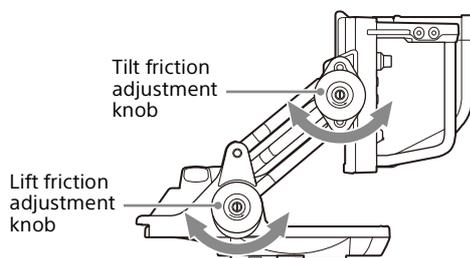
Adjusting the height/angle

You can adjust the viewfinder to any height and angle.

- 1 Turn the tilt-lock knob and lift-lock knob counterclockwise to release the lock.

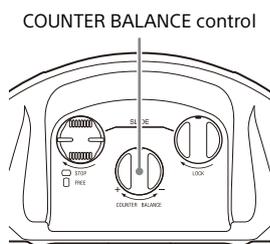


- 2 Turn the tilt friction adjustment knob and lift friction adjustment knob to adjust the frictions. Turning the knob toward (+) increases the friction and (-) decreases the friction.



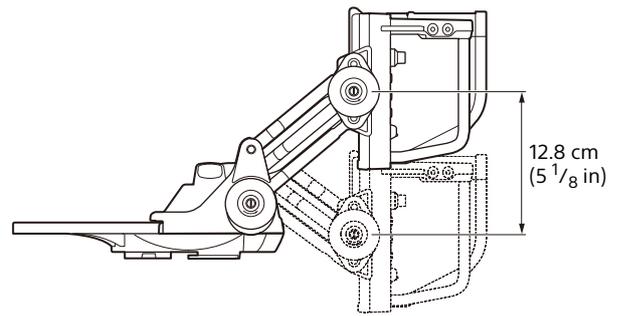
- 3 If necessary, turn the COUNTER BALANCE control to adjust the balance to support the weight of the screen part.

Turning the control toward (+) increases counterbalance, and turning the control toward (-) decreases the counterbalance. If the control movement is too tight to turn toward (+), turn the control while lifting the screen part.



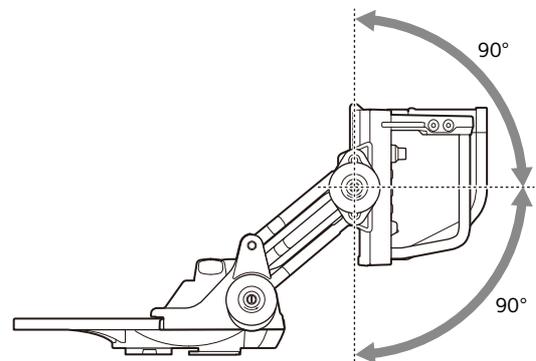
- 4 Hold the handle to adjust the height of the viewfinder.

Maximum adjustment range: 12.8 cm (5 1/8 in)

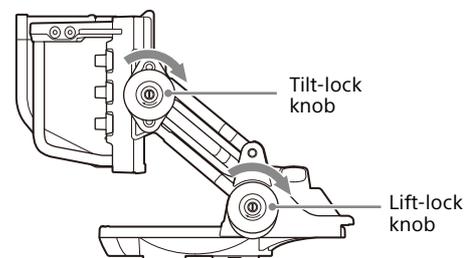


- 5 Hold the handle to adjust the angle (tilting) of the viewfinder.

Maximum adjustment range: 90° upward/downward



- 6 Turn the tilt-lock knob and lift-lock knob clockwise to lock the position.



Note

When using the viewfinder with its angle adjusted to the maximum adjustment position, slide the position of the VF slide unit toward you. For details, see "Adjusting the front-back position" (page 14).

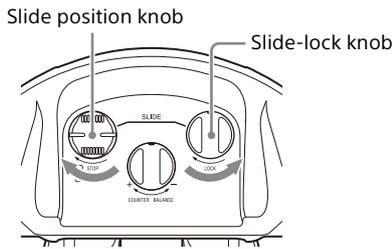
Adjusting the front-back position

You can slide the viewfinder back and forth to adjust it to any position.

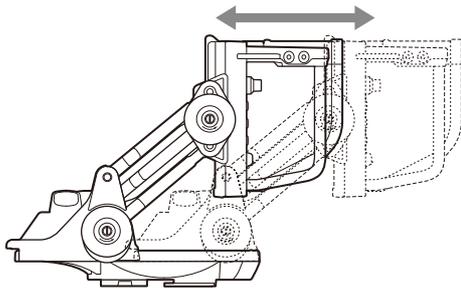
Note

When the viewfinder is used at low temperatures, the internal wire may become hard, and the sliding motion may become heavy. In this case, do not force the sliding motion.

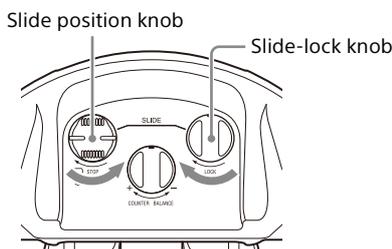
- 1 Turn the slide position knob clockwise to the FREE position, and turn the slide-lock knob counterclockwise to release the lock.



- 2 Slide the viewfinder back and forth to adjust the position.



- 3 Turn the slide position knob counterclockwise to the STOP position to lock the position. If there is looseness, turn the slide-lock knob clockwise to lock the position.

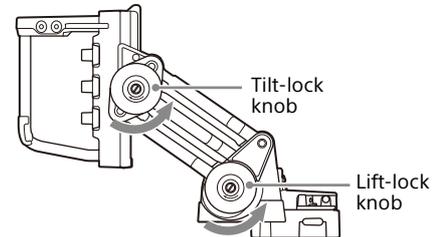


HDVF-EL760

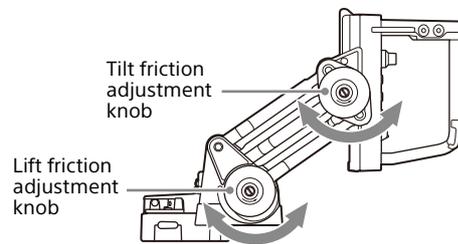
Adjusting the height/angle

You can adjust the viewfinder to any height and angle.

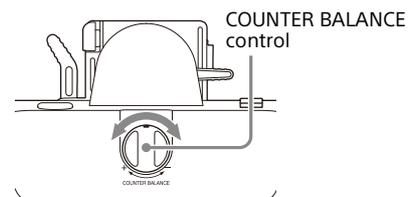
- 1 Turn the tilt-lock knob and lift-lock knob counterclockwise to release the lock.



- 2 Turn the tilt friction adjustment knob and lift friction adjustment knob to adjust the frictions. Turning the knob toward (+) increases the friction and (-) decreases the friction.

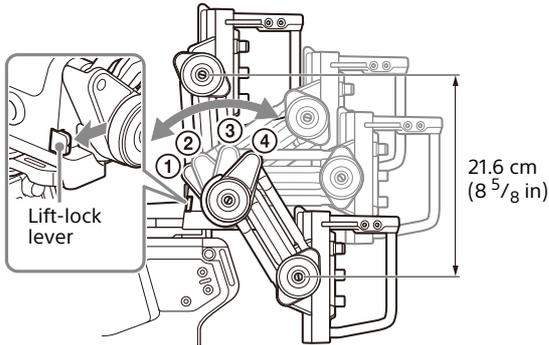


- 3 If necessary, turn the COUNTER BALANCE control to adjust the balance to support the weight of the screen part. Turning the control toward (+) increases counterbalance, and turning the control toward (-) decreases the counterbalance. If the control movement is too tight to turn toward (+), turn the control while lifting the screen part.



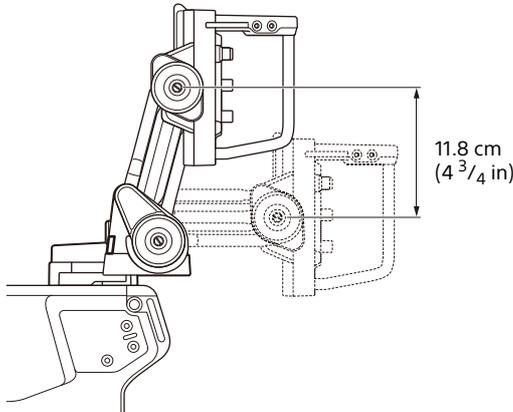
- 4** While pressing the lift-lock lever, hold the handle, and adjust the lift position (height).
The lift position (height) can be adjusted in four steps.

Maximum adjustment range: 21.6 cm (8⁵/₈ in)



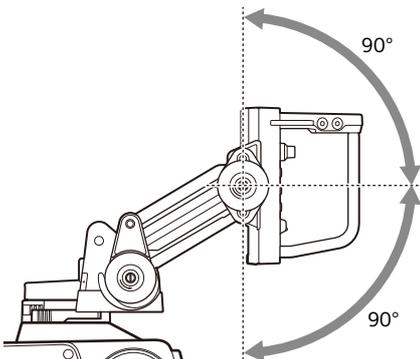
- 5** Hold the handle to adjust the height of the viewfinder.

Maximum adjustment range: 11.8 cm (4³/₄ in)

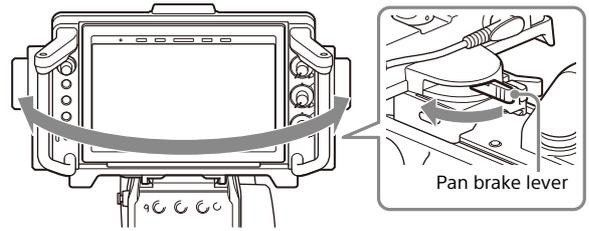


- 6** Hold the handle and adjust the angle (tilting).

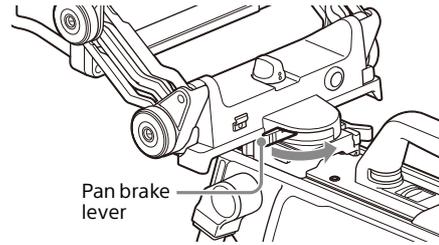
Maximum adjustment range:
90° upward/downward (at the position below)



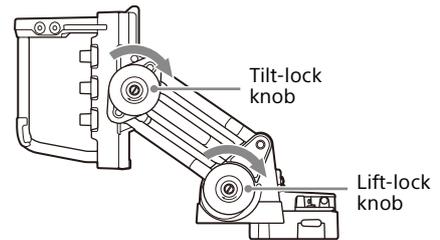
- 7** Turn the pan brake lever in the arrow direction to release the lock, hold the handle, and adjust the angle (panning).



- 8** Turn the pan brake lever in the arrow direction to lock the position.



- 9** Turn the tilt-lock knob and lift-lock knob clockwise to lock the position.



Notes

- When using the viewfinder with its angle adjusted to the maximum adjustment position, slide the position of the VF slide unit toward the camera operator side. For details, see "To adjust the front-back position of the viewfinder" on page 11.
- Depending on the shape of the connected camera, the viewfinder may interfere with the camera handle when panning. When the position of the camera handle cannot be changed, adjust the position of the mounting wedge and/or plates. For details, see "To adjust the front-back position of the viewfinder" on page 11.

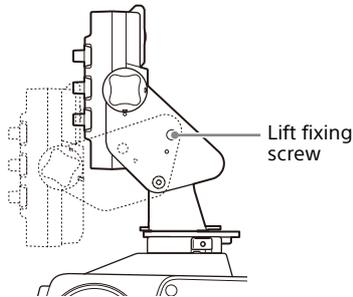
HDVF-EL740

Adjusting the height/angle

You can adjust the viewfinder to any height and angle.

- 1 Loosen the lift fixing screw, adjust the height of the viewfinder, and tighten the lift fixing screw to fix the position.**

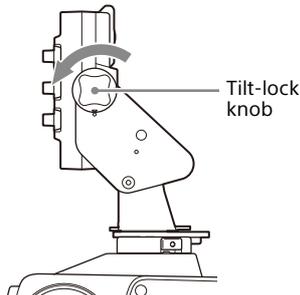
Two positions (up/down)



Notes

- When loosening the lift fixing screws, hold the viewfinder firmly with your hands.
- After adjustment, tighten the lift fixing screws on both sides firmly.

- 2 Turn the tilt-lock knob counterclockwise to release the lock.**

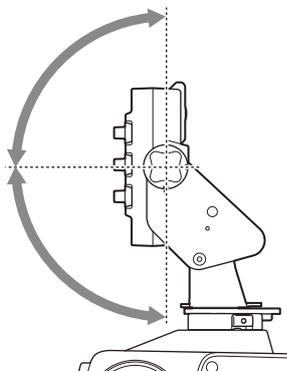


- 3 Adjust the angle (tilting) of the viewfinder.**

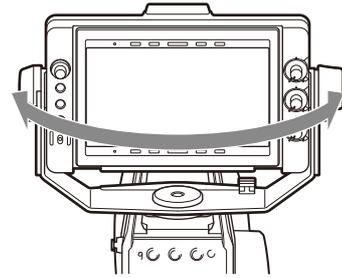
Maximum adjustment range

When lifted up: Upward 110°/Downward 60°

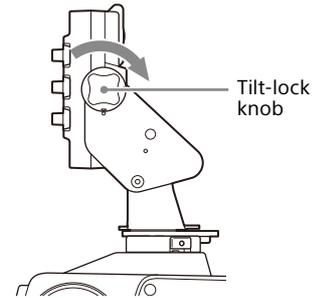
When lifted down: Upward 60°/Downward 110°



- 4 Adjust the angle (panning) of the viewfinder.**



- 5 Turn the tilt-lock knob clockwise to lock the position.**



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.

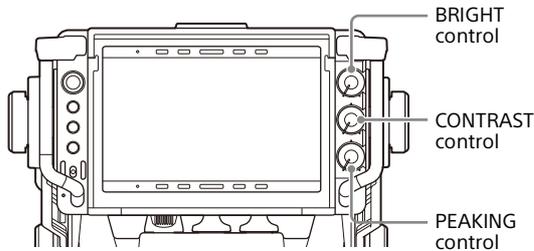
Adjusting the Screen

Note

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

When "PRESET" is set to "ON", operations of the BRIGHT, CONTRAST, and PEAKING controls are disabled.

For details on menu operations, see "Using the Menu" on page 20.



1 Turn the BRIGHT control to adjust the screen brightness.

Turn clockwise to increase the brightness and counterclockwise to decrease the brightness.

2 Turn the CONTRAST control to adjust the screen contrast.

Turn clockwise to increase the contrast and counterclockwise to decrease the contrast.

3 Turn the PEAKING control to adjust the peaking.¹⁾

Turn clockwise to sharpen the contours.

1) For cameras with the D-VF label attached among the HDC-F5500, HDC3000 series, and HDC5000 series, the VF Detail level of the camera will be adjusted.

To prevent accidental operation of the controls

Press and hold the MENU switch for three seconds or more while the menu is not displayed, "VR LOCK" appears, and the BRIGHT knob, CONTRAST knob, and PEAKING knob are locked to prevent accidental operation. To unlock the controls, press and hold the MENU switch for three seconds or more again until "VR UNLOCK" appears. The lock will be released after the power is turned on.

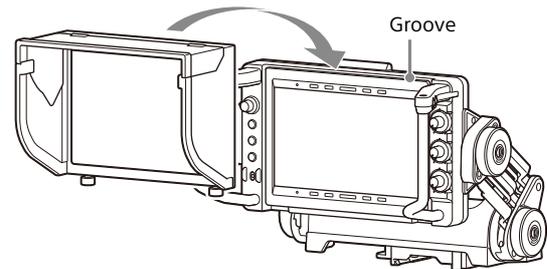
Attaching Accessories

Attaching a hood

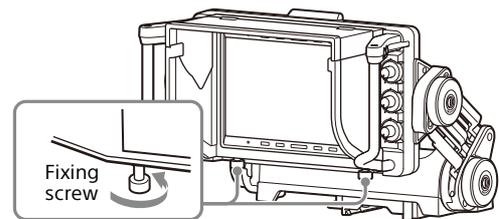
You can attach the VFH-790 outdoor hood (sold separately) in the same way as the indoor hood (supplied).

This section describes the procedure of attaching the indoor hood (supplied).

1 Hook the hood to the groove of the viewfinder to attach the hood.

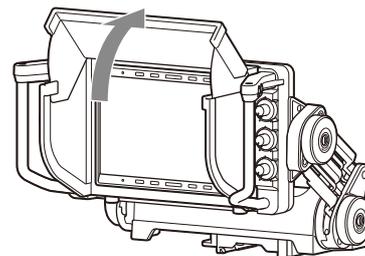


2 Tighten the fixing screws to fix to the viewfinder.



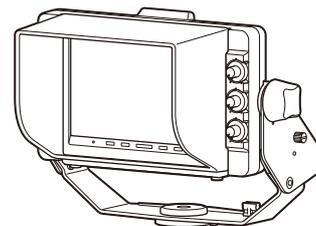
Indoor hood (supplied)

HDVF-EL780/HDVF-EL760

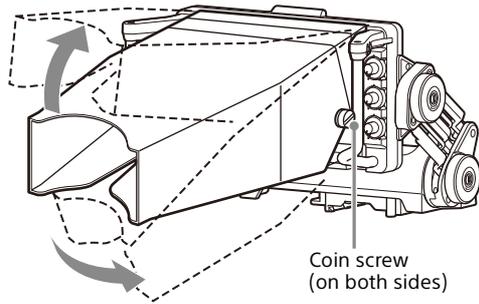


The angle of the hood can be changed up to 45° upward.

HDVF-EL740



Outdoor hood (sold separately)

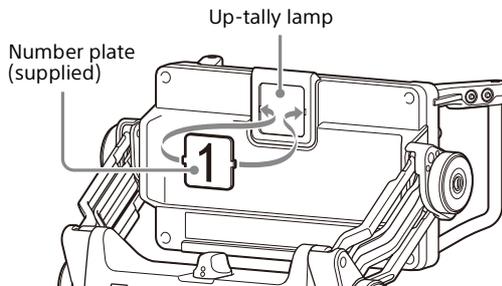


When the outdoor hood is too tight to move or too loose to fix at a desired position, adjust with the coin screws on both sides of the hood.

Turn the screws clockwise to tighten and counterclockwise to loosen.

Attaching a number plate

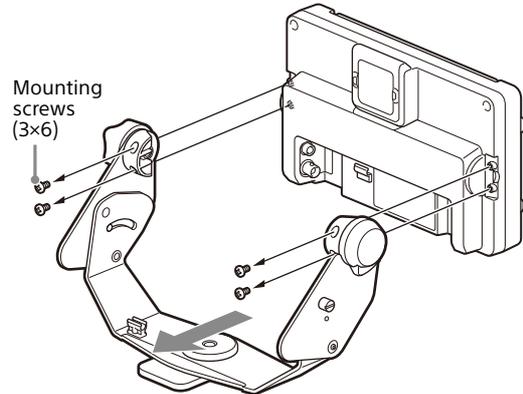
Insert the tabs on the sides of the number plate (supplied) into each slit in the up-tally lamp.



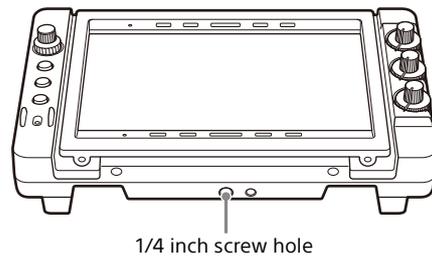
Detaching the Arm (HDVF-EL740)

The arm can be removed by removing the mounting screws on both sides of the viewfinder.

- 1 Remove the mounting screws (3×6, 4 pcs), then remove the arm.**



When attaching accessories such as an arm (sold separately), use the 1/4 inch screw hole on the bottom of the screen part.



Using the Menu

Many functions and settings of the viewfinder can be set in the menu.

For cameras with the D-VF label attached among the HDC-F5500, HDC3000 series, and HDC5000 series, use the camera menu to make general operation settings.¹⁾

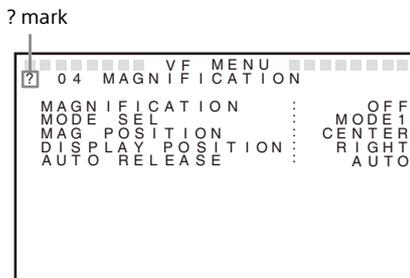
When connecting to other cameras, use the viewfinder menu to make general operation settings.

1) The viewfinder menu is not displayed.

Basic operations of the viewfinder menu

1 Press the MENU switch.

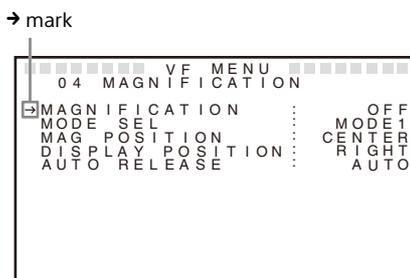
The menu appears on the viewfinder screen, and the ? mark appears to the left of the page number (page selection screen).



The viewfinder menu can be displayed on the viewfinder screen even when the image or menu from the camera is being displayed. In this case, the image or menu from the camera is dimmed and displayed behind the viewfinder menu.

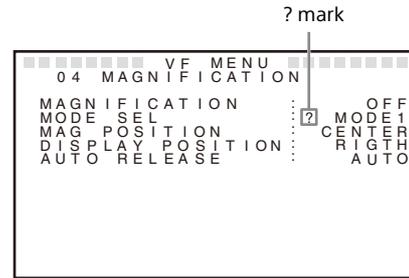
2 Turn the MENU control to select the desired menu page, then press the MENU control.

The setting items on the selected page is displayed, and the → mark appears to the left of a setting item (item selection screen).



- To select another menu page, press the MENU switch. Return to the page selection screen.
- If the ? mark appears to the left of the setting, press the MENU switch to return to the item selection screen. Press the MENU switch again to return to the page selection screen.

- ### 3 Turn the MENU control to select the desired setting item with the → mark, then press the MENU control.
- The ? mark appears to the left of the setting and the settings screen is displayed (setting value change screen).



- ### 4 Turn the MENU control to select the desired setting, then press the MENU control.

The setting is applied and the menu returns to the item selection screen.

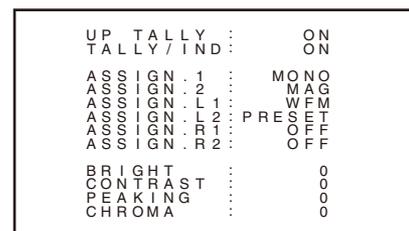
- If the setting is a numerical value, turn the MENU control clockwise to increase the value and counterclockwise to decrease the value. Turning the control quickly changes the value rapidly. Turn it slowly to make fine adjustments.
- If you press the MENU switch before pressing the MENU control, the setting returns to the value that was previously set, then the menu returns to the item selection screen.

- ### 5 To change other settings, repeat steps 2 to 4.

- ### 6 To exit the menu, press the MENU switch repeatedly until the menu disappears from the screen.

To display the status menu

- ### 1 Press the MENU control while the menu is not displayed.



The status of the following setting items is displayed.

- UP TALLY
- TALLY/IND
- ASSIGN.1
- ASSIGN.2
- ASSIGN.L1¹⁾
- ASSIGN.L2¹⁾
- ASSIGN.R1¹⁾
- ASSIGN.R2¹⁾
- BRIGHT
- CONTRAST
- PEAKING
- CHROMA

1) Not displayed on HDVF-EL740.

To restore the setting value to the factory default

Select the setting item you want to restore with the → mark or select the setting value you want to restore with the ? mark, then press the MENU control for two seconds or more.

Basic operations of the camera menu

You can operate the camera menu from the viewfinder. Pressing the MENU switch displays the camera menu on the viewfinder screen.

Operate the MENU control and MENU switch to make various settings.

The menu display can be turned off by pressing the MENU switch again.

Pressing the MENU control while the menu is not displayed displays the DISPLAY menu of the camera.

Pressing it again displays the STATUS menu of the camera.

Pressing it again turns off the menu display.

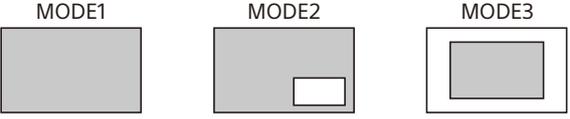
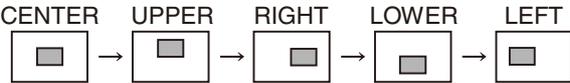
Menu item list

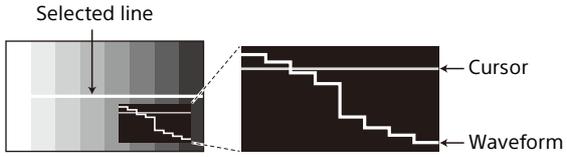
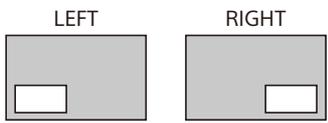
Notes

- Some settings cannot be selected unless the linked setting items are set.
- "----" appears when the setting value cannot be selected or is not yet set.
- This menu is not displayed when connected to a camera with the D-VF label attached. Make various settings for the viewfinder from the camera menu. For details, refer to the operation manual of the camera.

Page no.	Menu item	Setting item	Setting value (default in [])	Function
1	FUNCTION	ASSIGN.1	[MONO]/MAG/WFM/ PRESET/UPTLY/RET/ RETTGL/OFF	For assigning a function to the ASSIGN.1 switch. The detailed settings for each function can be set on each menu page. 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 switch the area to magnify). WFM: Toggles WFM between ON and OFF. PRESET: Toggles PRESET between ON and OFF. UPTLY: Toggles UP TALLY between ON and OFF. RET: Displays the signal that is input to the BNC terminal while pressing the button (HDVF-EL740). RETTGL: Displays the signal that is input to the BNC terminal (HDVF-EL740). OFF: Unassigned
		ASSIGN.2	MONO/[MAG]/WFM/ PRESET/UPTLY/RET/ RETTGL/OFF	For assigning a function to the ASSIGN.2 switch. The assignable functions are the same as those for ASSIGN.1.
		ASSIGN.L1 ¹⁾	MONO/MAG/[WFM]/ PRESET/UPTLY/RET/ RETTGL/OFF	For assigning a function to the ASSIGN.L1 switch. The assignable functions are the same as those for ASSIGN.1.
		ASSIGN.L2 ¹⁾	MONO/MAG/WFM/ [PRESET]/UPTLY/RET/ RETTGL/OFF	For assigning a function to the ASSIGN.L2 switch. The assignable functions are the same as those for ASSIGN.1.
		ASSIGN.R1 ¹⁾	MONO/MAG/WFM/ PRESET/UPTLY/RET/ RETTGL/[OFF]	For assigning a function to the ASSIGN.R1 switch. The assignable functions are the same as those for ASSIGN.1.
		ASSIGN.R2 ¹⁾	MONO/MAG/WFM/ PRESET/UPTLY/RET/ RETTGL/[OFF]	For assigning a function to the ASSIGN.R2 switch. The assignable functions are the same as those for ASSIGN.1.
		MONOCHROME	[OFF]/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 [0] to 99	For setting the chroma level. (This setting does not affect the camera's output signals.)
		COLOR TEMP	3200K to [6500K] to 9500K (in 100 K increments.)	For setting the color temperature of the display. It can be adjusted in 100 K increments.
		IBAC	OFF/[5]/15/30	For setting the time (in minutes) before the IBAC (Intelligent Brightness Ambient Control) function starts working. When BBM is set to ON, it is fixed to 5 minutes. For the IBAC function, see "On IBAC (Intelligent Brightness Ambient Control)" (page 27).
		FLICKER FREE	[OFF]/ON	For suppressing the screen flickering of the input signal with a low vertical frequency (24PsF, 50i, etc.), set to ON. When set to ON, blurred outlines and afterimages may be occur in fast-moving images. When BBM is set to ON, it is fixed to OFF.
		BBM	[OFF]/ON	For increasing the maximum brightness of the display, set to ON. Do not keep turning on the panel for a long time since burn-in may occur. When the power is turned on, it is set to OFF.

Page no.	Menu item	Setting item	Setting value (default in [])	Function
2	TALLY/IND	UP TALLY	OFF/[ON]	For controlling the up-tally lamp. ON: Activates the up-tally lamp. OFF: Does not activate the up-tally lamp (Does not light up even when red tally signals are supplied from the camera).
		UP TALLY DIM	1 to [5] to 10	For setting the brightness of the up-tally lamp and camera number. 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 ALARM indicator and STATUS indicator only. ON: Activates all indicators including the tally indicators. UPPER: Activates all indicators except the lower tally indicators (activates upper tally indicators only). LOWER: Activates all indicators except the upper tally indicators (activates lower tally indicators only).
		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.
		CAMERA NUMBER ¹⁾	[---] to 1 to 96	Displays the desired camera number.
		CAMERA LINK ¹⁾	[OFF]/ON	Displays the camera number set on the camera.
		NUMBER DISPLAY ¹⁾	[AUTO]/OFF/ON	For setting whether or not to display the camera number. AUTO: The camera number display is linked to ON/OFF of the Up Tally. OFF: The camera number is not displayed. Set to OFF when using the number plate (supplied). ON: The camera number is displayed regardless of the Up Tally setting.
3	PEAKING	FREQUENCY	L/[M]/MH/H	For setting the center frequency of edge enhancement signals.
		RANGE	1/[2]/3/4	For setting the variable amount of the edge enhancement signal level.
		COLOR PEAKING	[OFF]/ON	For converting the edge enhancement signals into color and displaying them. OFF: Enhances the edge in white. ON: Enhances the edge in color specified in "COLOR".
		COLOR	[BLUE]/RED/YELLOW/GREEN/ORIG	Select the color of the edge enhancement signals when "ON" is set in "COLOR PEAKING". BLUE: Enhances the edge in blue. RED: Enhances the edge in red. YELLOW: Enhances the edge in yellow. GREEN: Enhances the edge in green. ORIG: Displays in monochrome and enhances the edge in the original color.
		CHROMA	-99 to [0] to 99	For setting the chroma level. (This setting does not affect the camera's output signals.) Lowering the value decreases the chroma level. The setting value is linked to the "CHROMA" setting in the FUNCTION menu.

Page no.	Menu item	Setting item	Setting value (default in [])	Function
4	MAGNIFICATION	MAGNIFICATION	[OFF]/ON	For selecting normal display (OFF) or magnified display (ON). Whenever the power is turned on, the normal display (OFF) is displayed.
		MODE SEL	[MODE1]/MODE2/ MODE3	For selecting a magnified display mode. 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 
		MAG POSITION ²⁾	[CENTER]/UPPER/ RIGHT/LOWER/LEFT	For selecting the area to magnify during the magnified display. The part of the image is magnified in its original resolution. 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/[RIGHT]	For selecting the sub screen position when "MODE2" is set in "MODE SEL". LEFT: Displays the sub screen in the lower left of the screen. RIGHT: Displays the sub screen in the lower right of the screen.
		AUTO RELEASE	[AUTO]/MANUAL	For setting how to return from the magnified display to the normal display during the magnified display. AUTO: The display automatically returns to the normal display after a certain time has elapsed from when the magnified display is displayed by pressing the ASSIGN switch. MANUAL: The display returns to the normal display when the ASSIGN switch is pressed again after the magnified display is displayed by pressing the ASSIGN switch.
5	PRESET	PRESET	[OFF]/ON	For selecting whether to enable the setting values of the BRIGHT, CONTRAST, PEAKING controls and the chroma level set in the FUNCTION menu, or enable the preset values of "PRST BRIGHT," "PRST CONTRAST," "PRST PEAKING," and "PRST CHROMA" set in the PRESET menu. OFF: Enables the settings of the controls and the preset chroma level set in the FUNCTION menu. ON: Enables the setting values set in the PRESET menu.
		PRST BRIGHT	-99 to [0] to 99	For setting the image brightness when "ON" is selected in "PRESET". Raising the value increases the image brightness.
		PRST CONTRAST	-99 to [0] to 99	For setting the image contrast when "ON" is selected in "PRESET". Raising the value increases the image contrast.
		PRST PEAKING	[0] to 100	For setting the peaking level when "ON" is selected in "PRESET". Raising the value increases the correction amount.
		PRST CHROMA	-99 to [0] to 99	For setting the chroma level when "ON" is selected in "PRESET". Raising the value increases the chroma level.

Page no.	Menu item	Setting item	Setting value (default in [])	Function
6	WAVEFORM	WAVEFORM	[OFF]/ON	<p>For selecting whether to simplify and display the input signal waveform on the sub screen (ON) or display it normally (OFF). Example: The waveform monitor when the image is a color bar.</p>  <p>Note The waveform monitor is a simplified display, so use it simply as a guide.</p>
		INTENSITY	1 to [5] to 10	For setting the brightness of the waveform monitor display. Raising the value increases the brightness.
		POSITION	LEFT/[RIGHT]	<p>For selecting the position of the waveform monitor display.</p> <p>LEFT: Displays the waveform monitor display in the lower left of the screen.</p> <p>RIGHT: Displays the waveform monitor display in the lower right of the screen.</p> 
		HALF TONE	[OFF]/ON	For selecting whether to display the waveform monitor with a black background (OFF) or to display a halftone display with a transparent background (ON).
		SWEEP	[LINE]/FIELD	<p>For selecting the display mode of the waveform monitor.</p> <p>LINE: Displays the level with the horizontal axis as 1H.</p> <p>FIELD: Displays the level with the horizontal axis as 1V.</p>
		LINE SELECT	[OFF]/ON	For selecting whether to display all lines (OFF) or display the selected line (ON) when "LINE" is selected in "SWEEP".
		LINE	0 to [50] to 100	For setting the position of the selected line while the selected line is displayed. Raising the value shifts the selected line downwards, and lowering the value shifts it upwards.
		COLOR	[W]/R/G/B/YL	For selecting the display color of the selected line from white (W), red (R), green (G), blue (B), and yellow (YL) when the selected line is displayed.
		INTENSITY	1 to [5] to 10	For setting the brightness of the selected line. Raising the value increases the brightness.
		CURSOR	0 to [50] to 100	For setting the cursor position in the waveform monitor display. Increasing the value shifts the selected line upwards, and decreasing the value shifts it downwards.
COLOR	[W]/R/G/B/YL	For selecting the display color of the cursor from white (W), red (R), green (G), blue (B), and yellow (YL).		

Page no.	Menu item	Setting item	Setting value (default in [])	Function
7	STATUS DISPLAY	ASSIGN.1	OFF/[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/[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 ¹⁾	OFF/[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 ¹⁾	OFF/[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 ¹⁾	OFF/[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 ¹⁾	OFF/[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/[ON]	For selecting whether to display the setting value of the BRIGHT knob (ON) or not (OFF).
		CONTRAST	OFF/[ON]	For selecting whether to display the setting value of the CONTRAST knob (ON) or not (OFF).
		PEAKING	OFF/[ON]	For selecting whether to display the setting value of the PEAKING knob (ON) or not (OFF).

1) Not displayed on HDVF-EL740.

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

Error Messages

Display	Description
BACKUP ERROR	Checksums of the EEPROM backup data do not match.
VF TEMP HIGH	Temperature error
DEVICE ERROR	Other device errors

Appendix

Precautions

Handling the screen

- 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.

On burn-in

Due to the characteristics of the material used in the OLED panel, permanent burn-in or reduction in brightness may occur. These problems are not a malfunction.

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 canceled 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.

On stuck pixels

The OLED 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 organic light-emitting diode, such "stuck" pixels may appear spontaneously. These problems are not a malfunction. These phenomena have no effect on the camera's output signals.

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.

Do not give a strong impact to the screen

Internal structure and appearance may be deformed or damaged.

On use and storage

Store the product on a level surface or in an air-conditioned place.

Do not use or store the product in any of the following locations.

- Places with extremely hot or cold
- Places with high humidity
- Places with intense vibration
- Places where strong magnetism is generated
- Places exposed to direct sunlight for a long period of time or near heating appliances.

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.

To prevent electromagnetic interference from portable communications devices

The use of portable telephones and other communications devices near this unit can result in malfunctions and interference with audio and video signals.

It is recommended that the portable communications devices near this unit be powered off.

Components with limited service life

The life expectancy of the electrolytic capacitor is about 5 years under normal operating temperatures and normal usage (8 hours per day; 25 days per month).

If usage exceeds the above normal usage frequency, the life expectancy may be reduced correspondingly.

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.

Specifications

HDVF-EL780

General

Power supply	10.5 V to 17.0 V DC (supplied by the camera)
Power consumption	15.5 W (at BBM ON), 13.5 W (at BBM OFF)
Operating temperature	-20 °C to +45 °C (-4 °F to +113 °F)
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Mass	3.2 kg (7 lb 1 oz) (not including hood)
External dimensions	See "External dimensions (unit: mm (inches))"

Display unit

Display panel	7.4-type color OLED panel
Effective screen size	164 mm × 92 mm (6 1/2 in × 3 5/8 in) (horizontal × vertical, 16:9 aspect ratio)

Performance

Resolution	1920 × 1080
Brightness	315 cd/m ² (peak brightness, typical) (at BBM OFF) 700 cd/m ² (peak brightness, typical) (at BBM ON)
Color temperature	D65 (when set to COLOR TEMP 6500K)

Connectors

Input terminals	CAM connector (D-sub, 25-pin) (1) 10.5 V to 17.0 V DC
-----------------	--

Supplied accessories

Indoor hood (1)
Before Using This Unit (1)
Operating Instructions (CD-ROM) (1)
Number plate (1)
Cleaning cloth (1)

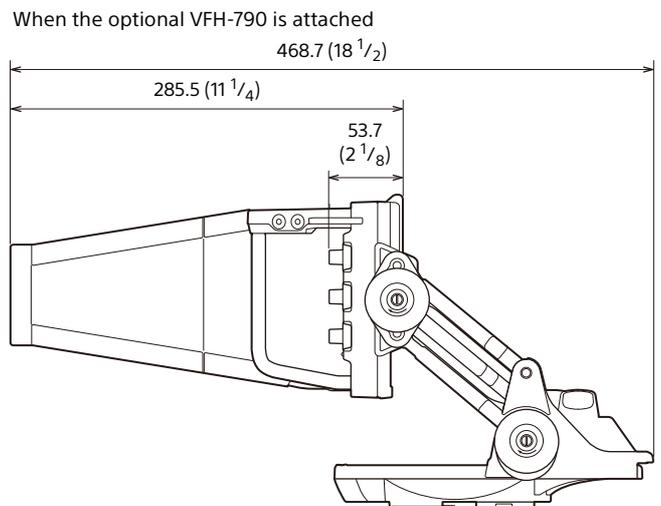
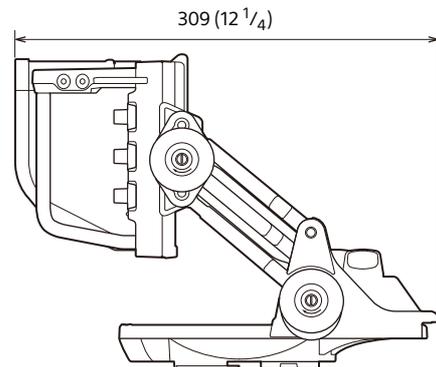
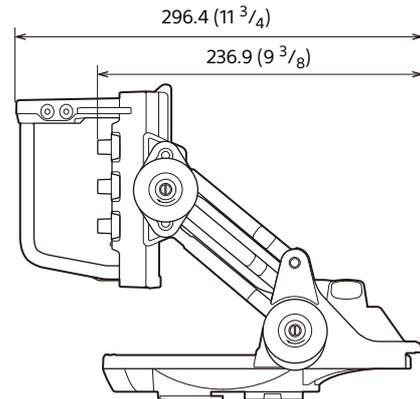
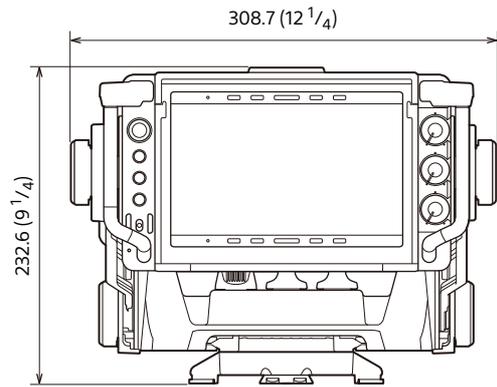
Optional accessory

VFH-790 Outdoor Hood

Related products

Color Camera HDC5000

External dimensions (unit: mm (inches))



Designs and specifications are subject to change without notice.

HDVF-EL760

General

Power supply	10.5 V to 17.0 V DC (supplied by the camera)
Power consumption	15.5 W (at BBM ON), 13.5 W (at BBM OFF)
Operating temperature	-20 °C to +45 °C (-4 °F to +113 °F)
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Mass	3.3 kg (7 lb 5 oz) (not including hood)
External dimensions	See "External dimensions (unit: mm (inches))"

Display unit

Display panel	7.4-type color OLED panel
Effective screen size	164 mm × 92 mm (6 1/2 in × 3 5/8 in) (horizontal × vertical, 16:9 aspect ratio)

Performance

Resolution	1920 × 1080
Brightness	315 cd/m ² (peak brightness, typical) (at BBM OFF) 700 cd/m ² (peak brightness, typical) (at BBM ON)
Color temperature	D65 (when set to COLOR TEMP 6500K)

Connectors

Input terminals	CAM connector (Round type, 20-pin) (1) 10.5 V to 17.0 V DC
-----------------	---

Supplied accessories

- Indoor hood (1)
- Before Using This Unit (1)
- Operating Instructions (CD-ROM) (1)
- Number plate (1)
- Cleaning cloth (1)
- Connection cable (20-pin) (1)
- Hexagonal wrench (1)
- Socket head cap screws (4)
- Attachment plate (1)
- Pan base assembly (1)
- Mounting screws (4) (for pan base assembly)
- Handle clamp (1)

Optional accessory

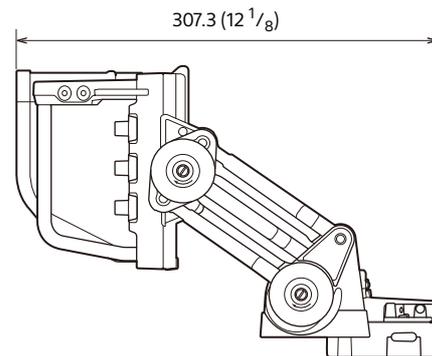
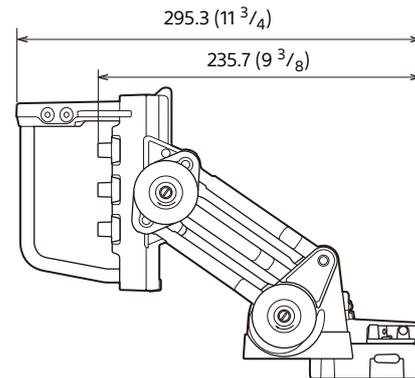
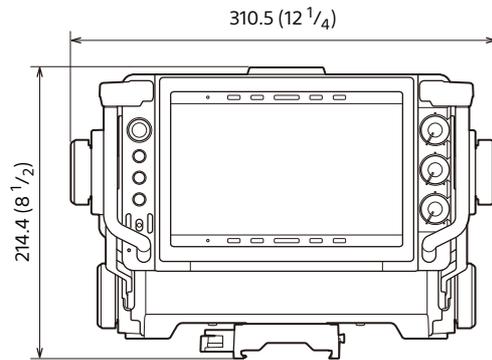
- VFH-790 Outdoor Hood
- V-wedge shoe assembly (A2066089B)
- VF slide rail assembly (RP) (A-5042-985-A)¹⁾

1) For HDC5500/HDC3500

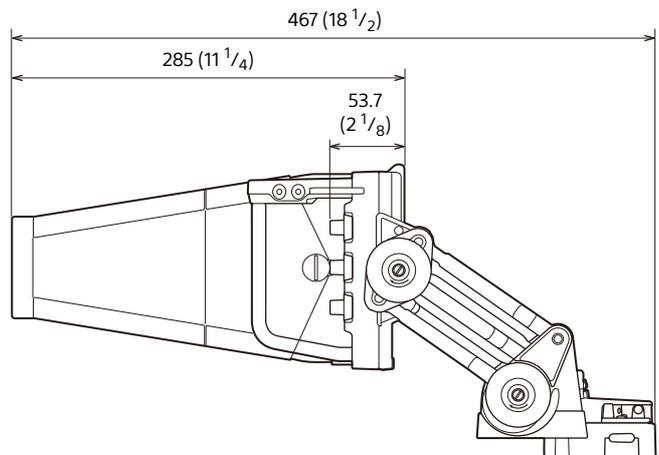
Related products

- Color Camera HDC-F5500/HDC5500/HDC3500/
HDC3200/HDC3170/HDC3100/HDC4800/HDC4300/
HXC-FB80
- 8K Color Camera UHC-8300

External dimensions (unit: mm (inches))



When the optional VFH-790 is attached



Designs and specifications are subject to change without notice.

HDVF-EL740

General

Power supply	10.5 V to 17.0 V DC (supplied by the camera)
Power consumption	13.5 W (at BBM ON), 12 W (at BBM OFF)
Operating temperature	-20 °C to +45 °C (-4 °F to +113 °F)
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Mass	1.7 kg (3 lb 12 oz) (not including hood)
External dimensions	See "External dimensions (unit: mm (inches))"

Display unit

Display panel	7.4-type color OLED panel
Effective screen size	164 mm × 92 mm (6 1/2 in × 3 5/8 in) (horizontal × vertical, 16:9 aspect ratio)

Performance

Resolution	1920 × 1080
Brightness	315 cd/m ² (peak brightness, typical) (at BBM OFF) 700 cd/m ² (peak brightness, typical) (at BBM ON)
Color temperature	D65 (when set to COLOR TEMP 6500K)
Supported formats	When connected to BNC: 1080/59.94P, 1080/50P, 1080/59.94i, 1080/50i, 1080/29.97PsF, 1080/25PsF, 1080/24PsF, 1080/23.98PsF, 720/59.94P, 720/50P

Connectors

Input terminals	CAM connector (Round type, 20-pin) (1) SDI IN BNC type (1) 3G SDI: SMPTE ST424/425, 2.970 Gbps/2.967 Gbps HD SDI: SMPTE ST292, 1.485 Gbps/1.4835 Gbps DC IN 4-pin (1) 10.5 V to 17.0 V DC
-----------------	--

Supplied accessories

- Indoor hood (1)
- Before Using This Unit (1)
- Operating Instructions (CD-ROM) (1)
- Number plate (1)
- Cleaning cloth (1)
- Connection cable (20-pin) (1)
- V-wedge shoe attachment (1)
- Hexagonal wrench (1)
- Socket head cap screws (4)
- Shoe conversion bracket (1)
- Mounting screws (4) (for shoe conversion bracket)
- Spiral tube (1)

Optional accessory

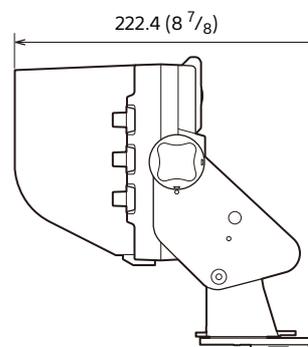
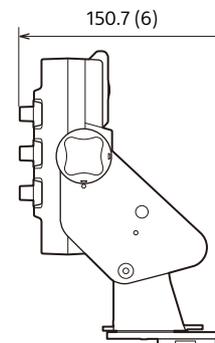
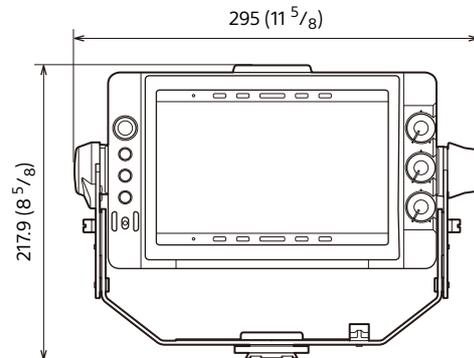
- VFH-790 Outdoor Hood
- VF slide unit (X-5002-379-1)
- VF slide rail assembly (RP) (A-5042-985-A)¹⁾

1) For HDC5500/HDC3500

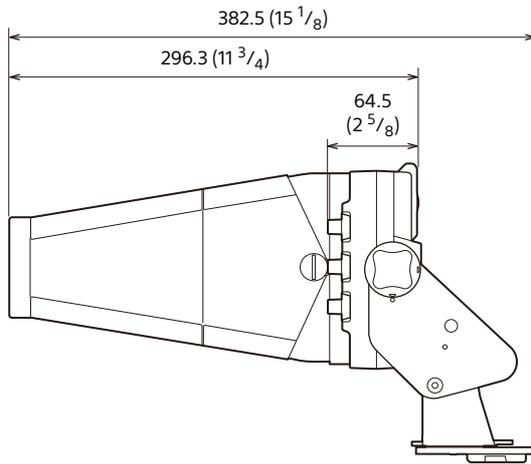
Related products

- Color Camera HDC-F5500/HDC5500/HDC3500/HDC3200/
HDC3170/HDC3100/HDC4800/HDC4300/HXC-FB80
- 8K Color Camera UHC-8300
- Solid-State Memory Camcorder PXW-Z750/PXW-Z450/
PXW-X400/PXW-X320
- Professional Disc Camcorder PDW-850

External dimensions (unit: mm (inches))



When the optional VFH-790 is attached



Designs and specifications are subject to change without notice.

Notes

- 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.
- SONY WILL NOT BE LIABLE FOR CLAIMS OF ANY KIND MADE BY USERS OF THIS UNIT OR MADE BY THIRD PARTIES.
- SONY WILL NOT BE LIABLE FOR THE TERMINATION OR DISCONTINUATION OF ANY SERVICES RELATED TO THIS UNIT THAT MAY RESULT DUE TO CIRCUMSTANCES OF ANY KIND.