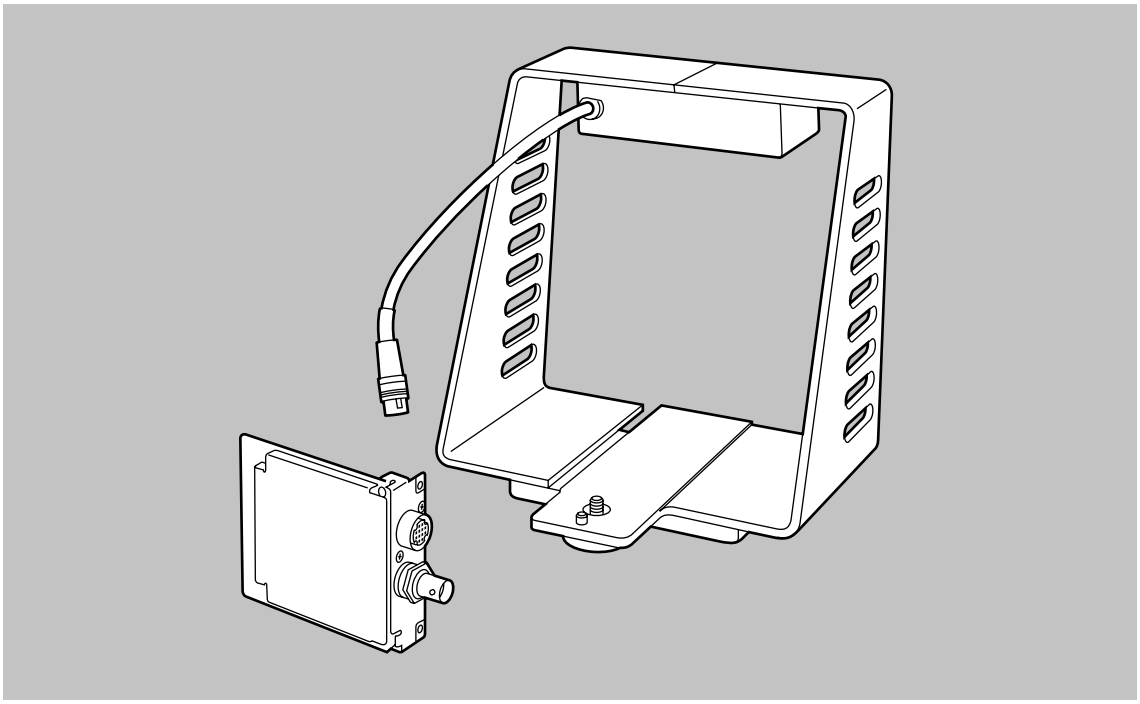
Operating Instructions

Studio SDI Card

Model AW-PB306P

This product consists of an SDI card and an interface bracket.



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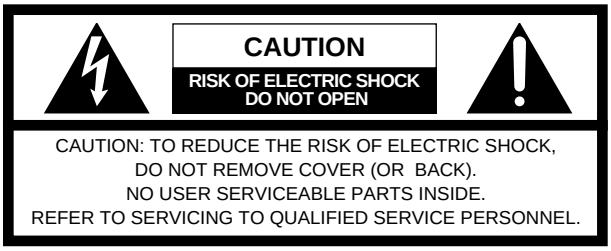
Before attempting to connect, operate or adjust this product, please read these instructions completely.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (service) instructions in the literature accompanying the appliance.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER MOUNTING OF THE OPTIONAL INTERFACE BOARD TO QUALIFIED SERVICE PERSONNEL.

FCC Note:

This device complies with Part 15 of the FCC Rules. To assure continued compliance follow the attached installation instructions and do not make any unauthorized modifications.

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

For CANADA

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la class A est conforme à la norme NMB-003 du Canada.

▭ indicates safety information.

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Overview

Installing the SDI card in a convertible camera (such as the AW-E300, AW-E600, AW-E800A) and mounting the camera on the interface bracket makes it possible for a viewfinder and/or inter-communications headset to be used and thus enable the camera to be used as a studio camera.

It is also possible to output SDI signals which are compliant with the SMPTE259M standard.

Features

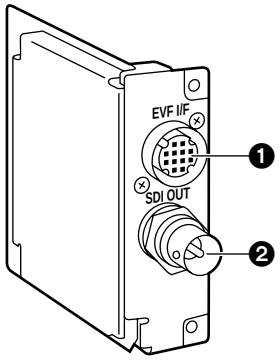
- SDI signal output compliant with SMPTE259M standard (max. 200 m using a BELDEN 9231 coaxial cable)
- An inter-communications headset can be used and its volume adjusted
- Includes viewfinder STANDBY/ON switch
- Output signals (brightness and composite video signals) to the viewfinder can be switched using the menu settings
- Zebra pattern and safety zone displays appearing in the viewfinder can be switched using the menu settings

Operating precautions

Important

- This product consists of an SDI card and an interface bracket.
  The EVF I/F cable of the interface bracket must be connected to the connector on the SDI card before use. If this connection is not performed, signals will not be output from the SDI card.
- When connecting or disconnecting a cable from any unit, ensure that the power to that unit is turned off.
- Do not drop this product or subject it to strong shock or vibration, as this may cause it to malfunction.
- Avoid using the unit in very humid or dusty locations, as this may cause it to malfunction.
- Avoid using the unit in locations where the temperature is below freezing point or above 104°F (40°C). Otherwise, the picture quality may deteriorate or malfunctioning may result.

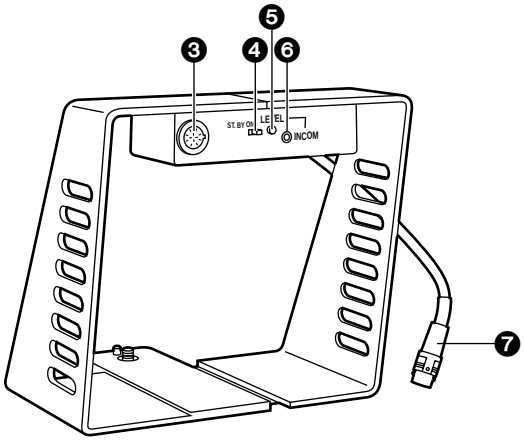
■ SDI card



❶EVF I/F connector
The EVF I/F cable ❼ from the interface bracket is connected here.
If the EVF I/F cable is not connected, signals will not be output from the SDI card.

❷SDI OUT connector
SDI signals are output from here.

■ Interface bracket



❸EVF connector
The viewfinder (such as the WV-VF65B or AW-VF80) is connected here.

❹EVF standby switch
ST.BY. : Places the viewfinder in standby mode.
ON : Outputs images to the viewfinder.

❺Inter-communications level control
This adjusts the sound level output to the inter-communications headset.

❻Inter-communications jack, plug type: 1/8˝ (3.5 mm)
The inter-communications headset is connected here.
If the plug diameter does not match, use the adjuster plug supplied with this product.
1/4˝ ➧ 1/8˝ (6.35 mm ➧ 3.5 mm)

❼EVF I/F cable
This is connected to the EVF I/F connector ❶ on the SDI card.

Installing the SDI card

Always ask your local dealer to install the SDI card.

Before installing the SDI card:

- Release the static carried in the body of the person to perform the installation.
  Installation can be performed more safely if an anti-static wrist strap is worn.
  Touching the card without first releasing this static may cause malfunctioning.
- Do not allow the metal part of the card come in contact with any other metal parts.

CAUTION:

These servicing instructions are for use by qualified service personnel only. To reduce the risk of fire or electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

1 Turn the power to the camera off and remove any cables which are connected to the power connector or other connectors.

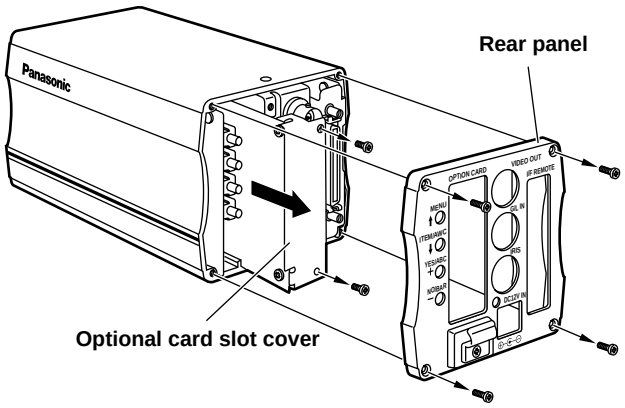
2 Loosen the 4 screws on the rear panel of the camera, then remove the panel itself.

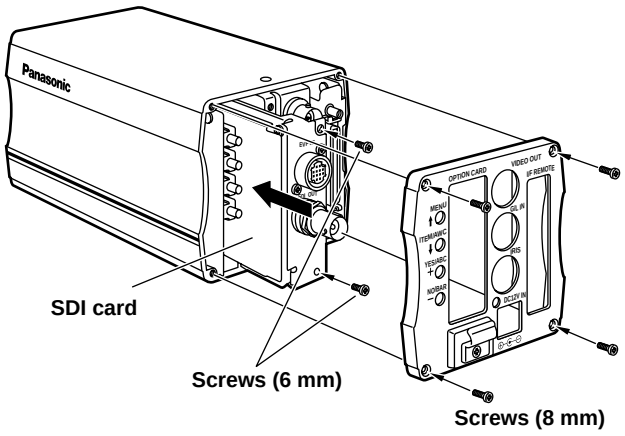
3 Loosen the 2 screws on the optional card slot cover, then remove the cover.

4 Align the SDI card with the guides and insert it.
Ensure the card is fully inserted.

5 Firmly tighten the 2 screws to the optional card slot.
If the screws are misplaced, use the extra screws supplied with this product. (6 mm in length)

6 Firmly secure the rear panel with the 4 screws.
If the screws are misplaced, use the extra screws supplied with this product. (8 mm in length)

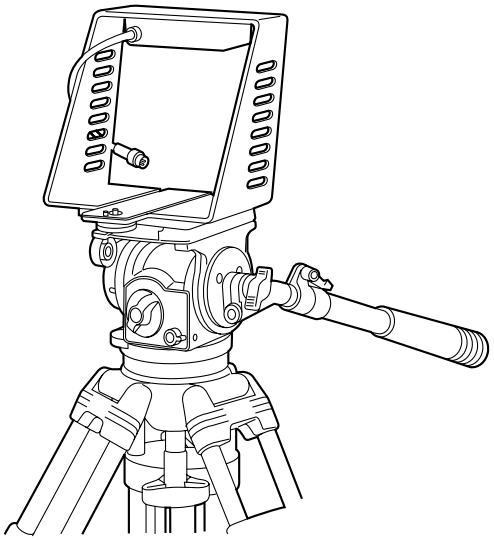




Interface bracket mountings

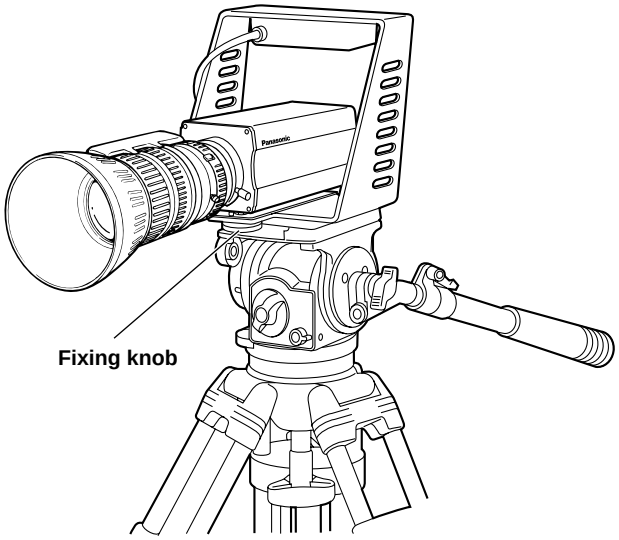
■ Mounting the bracket on a tripod

1 Mount the interface bracket on the tripod.
(Screw: 1/4 – 20 UNC)



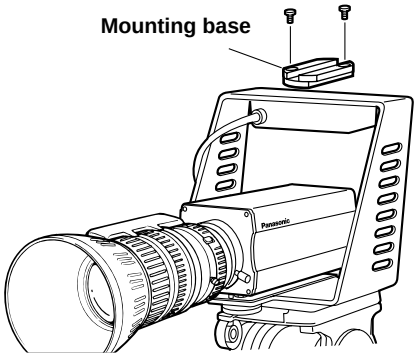
■ Mounting the camera

2 Mount the camera (in which the SDI card has been installed) on the interface bracket.
Fasten the fixing knob to firmly secure the camera.



■ Mounting the viewfinder on a bracket

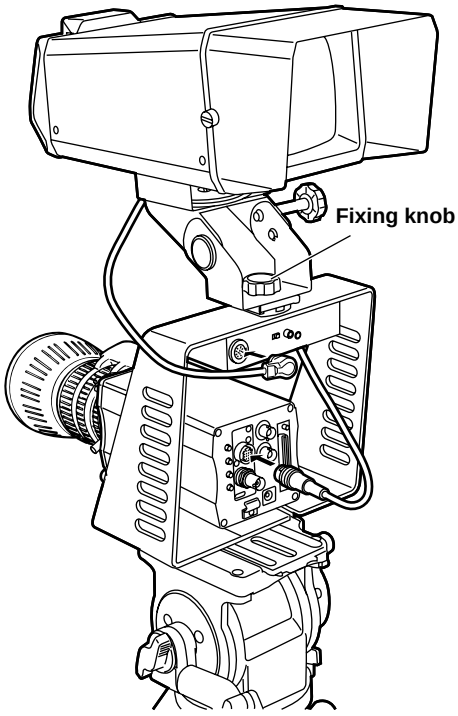
3 Attach the mounting base (supplied with the viewfinder) to the top section of interface bracket using the 2 screws.



4 Slide the viewfinder onto the mounting base and tighten the fixing knob to secure it firmly.

5 Connect the viewfinder cable to the EVF connector on the interface bracket.

6 Connect the EVF I/F cable from the interface bracket to the EVF I/F connector on the SDI card.



■ Connected components

Convertible camera:
AW-E300, AW-E600, AW-E800A, etc.

Viewfinder:
WV-VF65B, AW-VF80, etc.

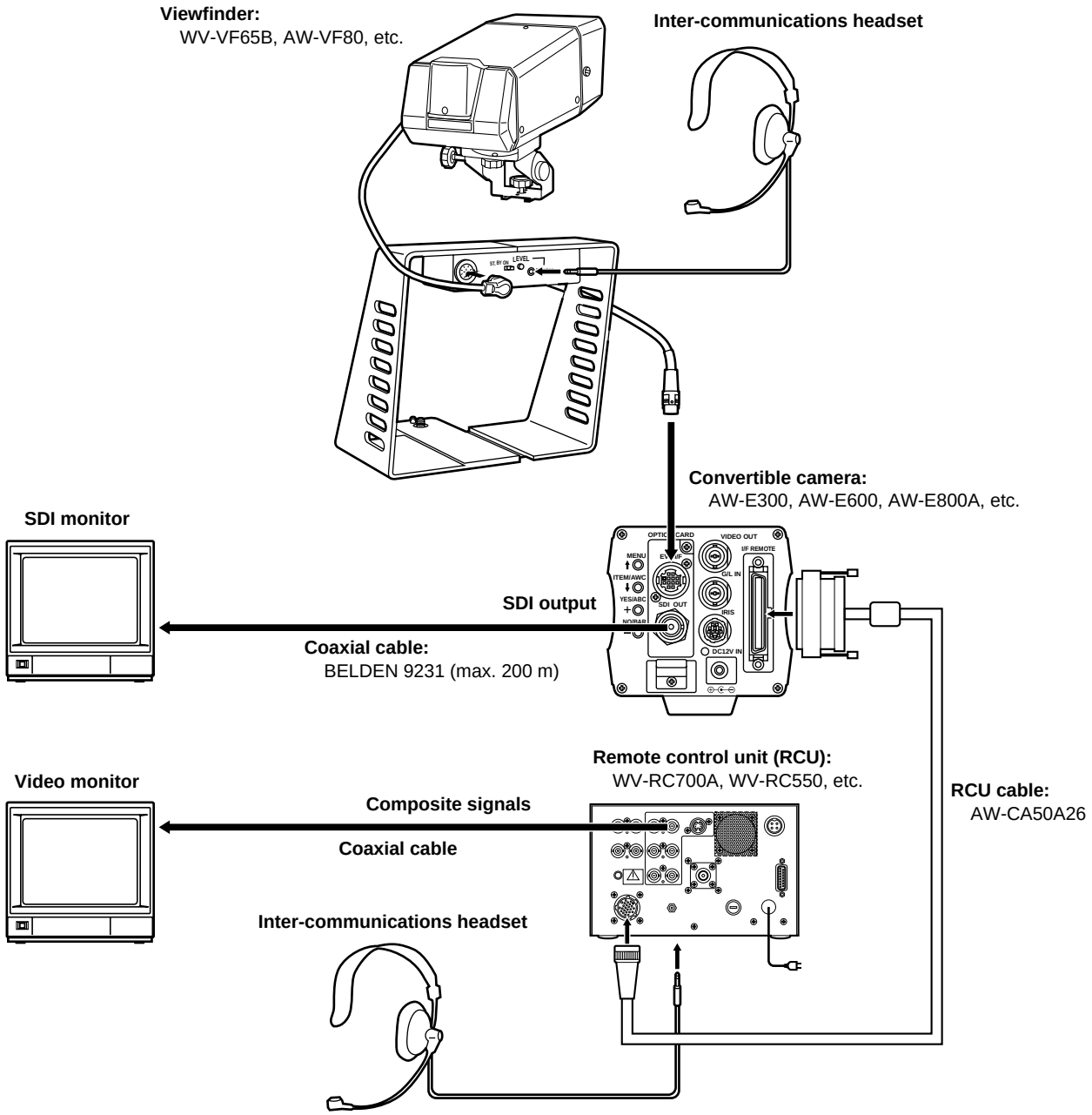
Remote control unit (RCU):
WV-RC700A, WV-RC550, etc.

Inter-communications headset

Video monitor

SDI monitor

- Use the RCU cable (AW-CA50A26) to connect the remote control unit to the convertible camera. Power to the camera is supplied from the remote control unit.



Setting and changing of menu items

Camera settings to match the system configuration and filming conditions can be made using the menu screens.
See the convertible camera operating instructions for more information on the settings.

■ Performing the settings

1 Display the main menu.

When performing the settings with the convertible camera:

Press the MENU button continuously for at least 5 seconds.

When performing the settings with the remote control unit:

- WV-RC700A:
  Set the USER SET switch to “ON.”
- WV-RC550:
  Set the SET UP switch to “1” or “2.”

● Main menu for halogen light mode, fluorescent light mode and outdoor mode

The mode selected is displayed here.

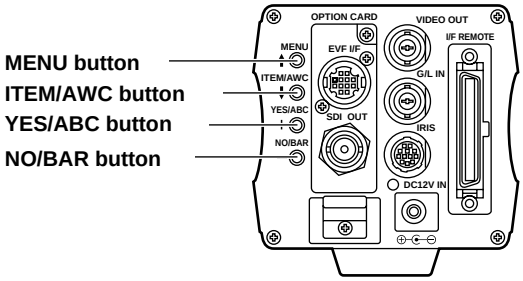
```
**Halogen Mode Set**
  Brightness Set
  Color Set
  G/L. Color Bar Set
  Sharpness Set
  Other Set
  Option Card Set

  Initialize Data


End
```

To return to filming mode
(This is displayed when the convertible camera is used to perform the settings.)

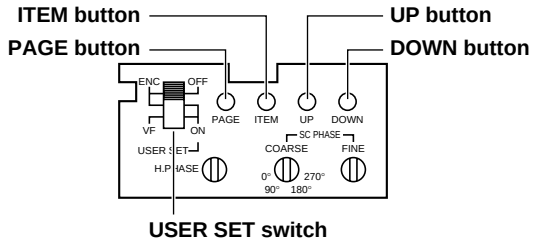
● Main menu for user mode

```
**User Mode Set**
  Iris, Shutter, Gain Set
  Color Set
  G/L. Color Bar Set
  Detail Set1 Detail Set2
  Color Matrix Set
  Other Set
  Option Card Set

  Initialize Data


End
```

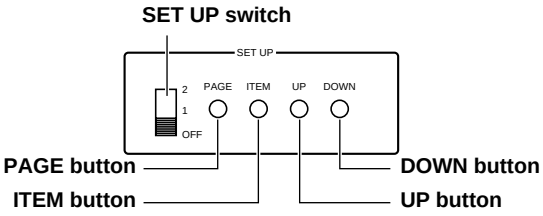
● Convertible camera



● Remote control unit (WV-RC700A)



● Remote control unit (WV-RC550)



2 Select “Option Card Set” to display the submenu.

When performing the settings with the convertible camera:

Press the MENU or ITEM/AWC button to move the flashing to the setting item, then press the YES/ABC button to display the submenu.

When performing the settings with the remote control unit:

Press the PAGE or ITEM button to move the flashing to the setting item, then press the UP button to display the submenu.

3 Select the setting item and change the setting.

When performing the settings with the convertible camera:

Press the MENU or ITEM/AWC button to move the flashing to the desired setting item, then press the YES/ABC or NO/BAR button to change the setting.

When performing the settings with the remote control unit:

Press the PAGE or ITEM button to move the flashing to the desired setting item, then press the UP or DOWN button to change the setting.

4 Return to filming mode.

When performing the settings with the convertible camera:

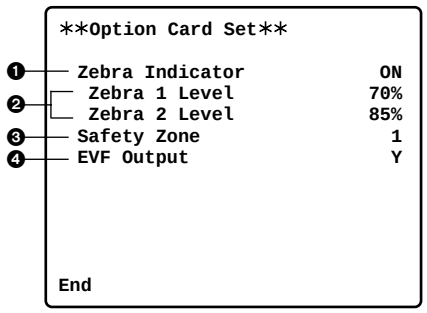
Press the MENU or ITEM/AWC button and select “End” on the main menu, then press the YES/ABC button.

When performing the settings with the remote control unit:

- WV-RC700A:
  Set the USER SET switch to “OFF.”
- WV-RC550:
  Set the SET UP switch to “OFF.”

After being returned to filming mode, the convertible camera will operate as per the changed settings.

■ Optional card settings submenu



❶ Zebra Indicator

This sets the Zebra pattern display which appears in the viewfinder.

ON : Zebra patterns are displayed in the viewfinder.

OFF : Zebra patterns are not displayed in the viewfinder.

<Note>

Even if ON is selected for this setting, the zebra patterns will not be displayed in the viewfinder if “CVBS” has been selected as the EVF Output ❹ setting.

❷ Zebra 1 Level (70% to 109%)
Zebra 2 Level (71% to 110%)

Two types of zebra patterns are displayed to use as a yardstick for the brightness level.

The striped zebra pattern display of Zebra 2 Level is more dense than that of Zebra 1 Level.

<Notes>

- These settings are available when “ON” has been selected for the Zebra Indicator ❶ setting.
- The setting for Zebra 2 Level should be set at least 1% higher than that for Zebra 1 Level.

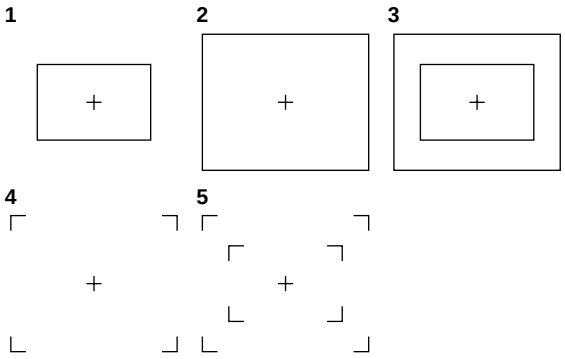
❸ Safety Zone

This selects the type of safety zone that is displayed in the viewfinder.

If “OFF” is selected, a safety zone will not be displayed.

<Note>

The safety zone and the center marker reflect the electrical positions which may differ from the optical positions.



The inner frame and the outer frame are approximately 90% and 95%, respectively, of the safety zone.

❹ EVF Output

This sets the signals to be output to the viewfinder.

Y : Brightness signals are output to the viewfinder.

CVBS : Color signals are output to the viewfinder.

<Note>

The zebra pattern is not displayed in the viewfinder when “CVBS” has been selected.

Specifications

Power requirements:
DC 12V (supplied from convertible camera)
Power consumption:
15.6 W

Allowable operating temperature:
32°F to 104°F (0°C to 40°C)
Allowable operating humidity:
30% to 90% (without condensation)
Dimensions (W×H×D):
SDI card
$^{7}/_{8}$″×2 $^{13}/_{16}$″×4 $^{3}/_{8}$″ (21.5×70×111 mm)
Interface bracket
7 $^{1}/_{2}$″×7 $^{1}/_{4}$″×6 $^{3}/_{4}$″ (190×183×171 mm)
Weight:
SDI card
0.242 lb (0.11 kg)
Interface bracket
2.112 lb (0.96 kg)
I/O connectors:
SDI card
SDI OUT connector:
BNC; compliant with SMPTE259M standard
EVF I/F connector:
12-pin; round
Interface bracket
EVF connector:
12-pin; round; composite signals/brightness signals; 1.0 V [P-P]
Inter-communications jack:
plug type: 1/8″ (3.5 mm)
Switch/control functions:
Interface bracket
EVF standby switch (STANDBY/ON)
Inter-communications level control
Menu screens
Zebra Indicator (ON/OFF)
Zebra 1 Level (70% to 109%)
Zebra 2 Level (71% to 110%)
Zebra 2 Level (71% to 110%)
Safety Zone (1/2/3/4/5/OFF)
EVF Output (Y/CVBS)

■ Accessories

Adjuster plug
1/4″ ➧ 1/8″ (6.35 mm ➧ 3.5 mm) 1
Screws (6 mm in length) 2
Screws (8 mm in length) 4

Weight and dimensions indicated are approximate.
Specifications are subject to change without notice.

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