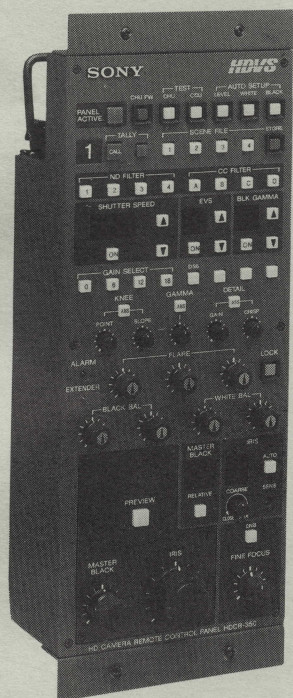


SONY

REMOTE CONTROL PANEL
HDCR-350



HDVS

OPERATION MANUAL English
1st Edition (Revised 1)
Serial No. 10001 and Higher

For customers in the U.S.A.

WARNING

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

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

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

For the customers in Canada

This apparatus complies with the Class A limits for radio noise emissions set out in Radio Interference Regulations.

Pour les utilisateurs au Canada

Cet appareil est conforme aux normes Classe A pour bruits radioélectriques, spécifiés dans le Règlement sur le brouillage radioélectrique.

Bescheinigung des Herstellers

Hiermit wird bescheinigt, daß das Fernsteuerfeld HDCR-350

in Übereinstimmung mit den Bestimmungen der BMPT-Amtsblatt Vfg 243/1991, Vfg 46/1992 funkentstört sind. Der vorschriftsmäßige Betrieb mancher Geräte (z.B.Meßsender) kann allerdings gewissen Einschränkungen unterliegen. Beachten Sie deshalb die Hinweise in der Bedienungsanleitung.

Dem Bundesamt für Zulassungen in der Telekommunikation wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeräumt.

Name und Anschrift des Herstellers/Importeurs:	Sony Deutschland GmbH Hugo Eckener Str. 20 D-5000 Köln 30
--	---

Hinweis

Gemäß der Amtsblätter des BMPT Nrn. 61/1991 und 6/1992 wird der Betreiber darauf aufmerksam gemacht, daß die von ihm mit diesem Gerät zusammengestellte Anlage auch den technischen Bestimmungen dieser Amtsblätter genügen muß.

Table of Contents

Overview	4
Location and Function of Parts and Controls.....	5
Configuration	5
Connection Block	6
Starting Block	7
Automatic Adjustment/Scene File Operation Block	8
Basic Setting Block	9
Manual Adjustment/Lamp Block	11
Iris/Master Black/Focus Adjustment Block	12
Iris/Master Black Adjustment Block (Joystick: Supplied)	13
Specifications	14

The Sony HDCR-350 remote control panel is designed for use with the HDCS-350 HD camera signal processor.

The panel has the following features.

- Super EVS
- Auto setup (video level/black balance/white balance)
- Manual setup (black balance/white balance/master gamma/black gamma/knee point-knee slope/detail gain-crisping/flare balance)
- Scene file function

Super EVS (Enhanced Vertical Definition System)

Super EVS improves the vertical resolution of a moving subject.

In field mode of CCD readout mode, charges accumulated by adjacent lines, used in pairs, are added. Super EVS is used basically with field mode. However, with super EVS, the charges accumulated by adjacent lines, used in pairs, are not simply added before readout. By setting the addition ratio of adjacent lines in pairs, according to the movement of the subject, the vertical resolution is improved, compared to that in field mode.

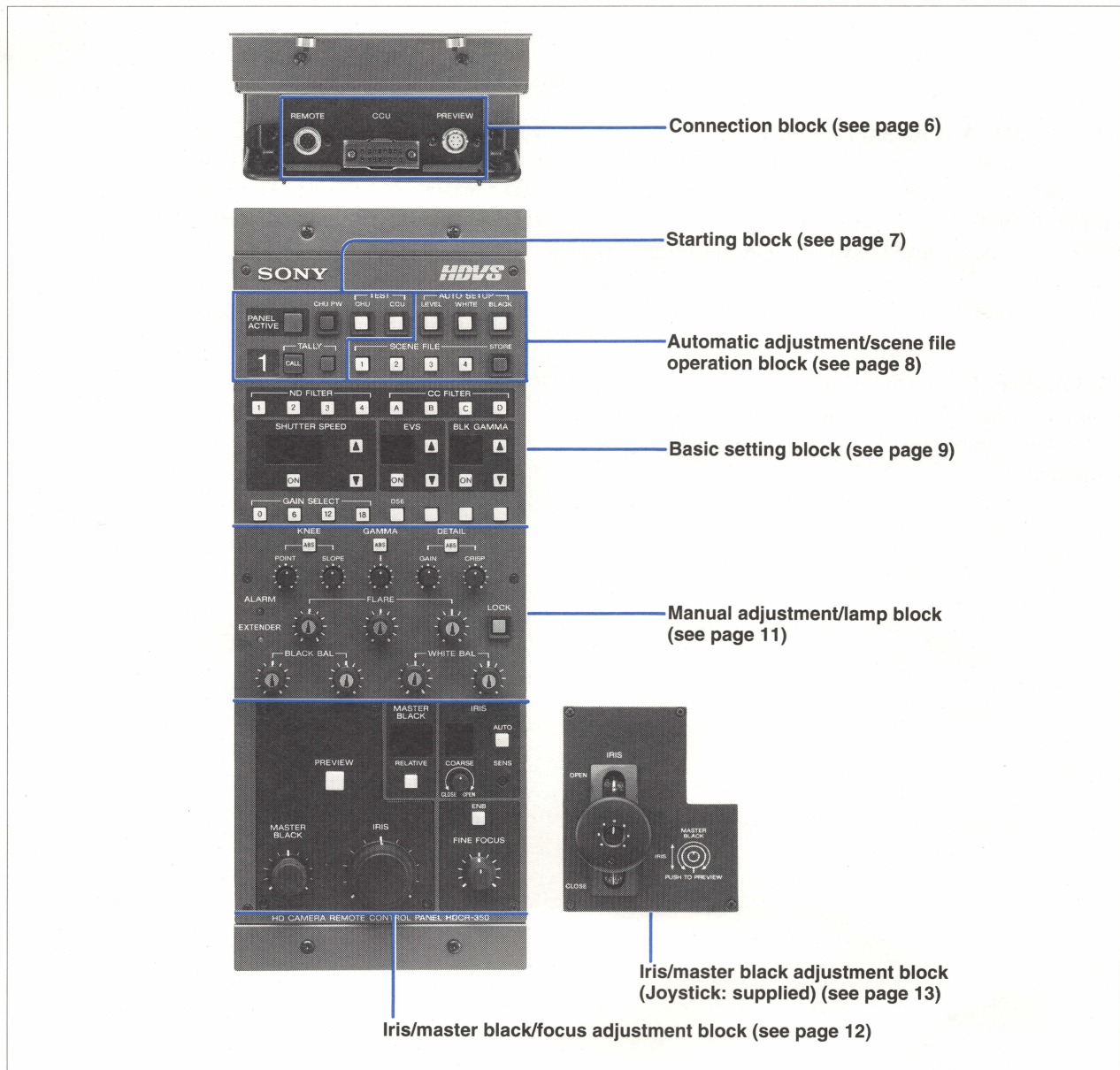
After-image improvement is such that it is the same as in field readout mode. Vertical resolution improvement is such that it is the same as in frame readout mode. The sensitivity, however, drops by up to 1/2, in inverse proportion to the vertical resolution. This is because the charge accumulated by adjacent lines is less than that in field mode. Thus, you can select a vertical resolution improvement ratio from among seven ratios (0.125/0.25/0.375/0.5/0.675/0.75/0.875), according to the subject.

Location and Function of Parts and Controls

Configuration

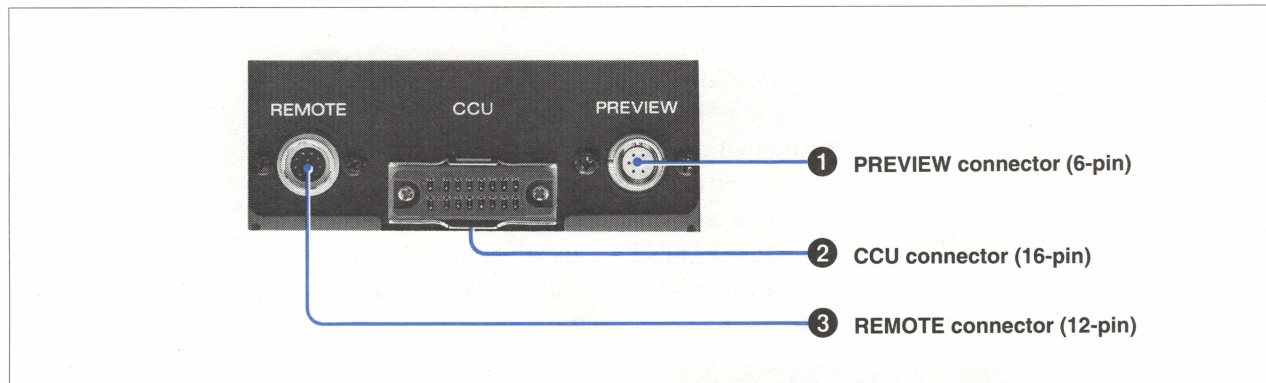
The unit consists of the following 7 blocks.

- Connection block
- Starting block
- Automatic adjustment/scene file operation block
- Basic setting block
- Manual adjustment/lamp block
- Iris/master black/focus adjustment block
- Iris/master black adjustment block (Joystick: supplied)



HDCR-350

Connection Block



Connection block

① PREVIEW connector (6-pin)

Outputs the preview signals during monitoring by controlling the switcher. The preview signal is output in the following cases.

- When pressing the PREVIEW button to light the lamp
- When pressing the PREVIEW joystick

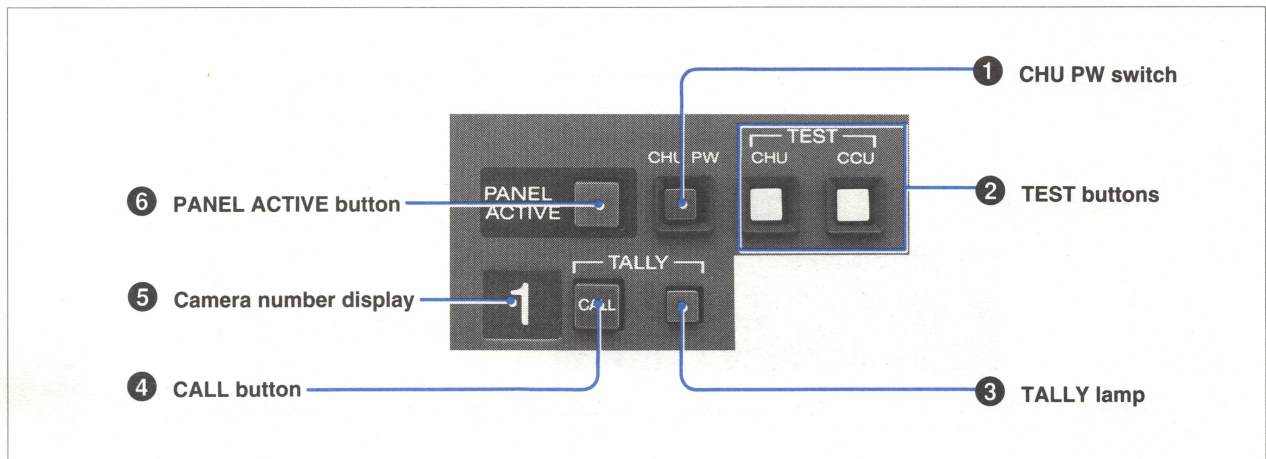
② CCU connector (16-pin)

Connect to the RCP connector of the HDCS-350 HD camera signal processor using the 16-pin cable (supplied).

③ REMOTE connector (12-pin)

Connect the REMOTE connector of the HDCA-50 HD camera adaptor or I/O connector of the HDCD-50 HD camera signal distributor.

Starting Block



Starting block

1 CHU PW switch

Press to turn on the HDC-500 HD color camera and the HDCA-350 HD camera adaptor power. Press the switch again to turn off the power.

2 TEST buttons

Used to select test signals.

CHU: Press to select sawtooth waveform
CCU: Press to select color bar

3 TALLY lamp

Lights when the green tally signal is input.

4 CALL button

Press this button to call a camera engineer or other engineer/producer when working in the field. The lamp lights while a camera engineer or other engineer/producer is calling.

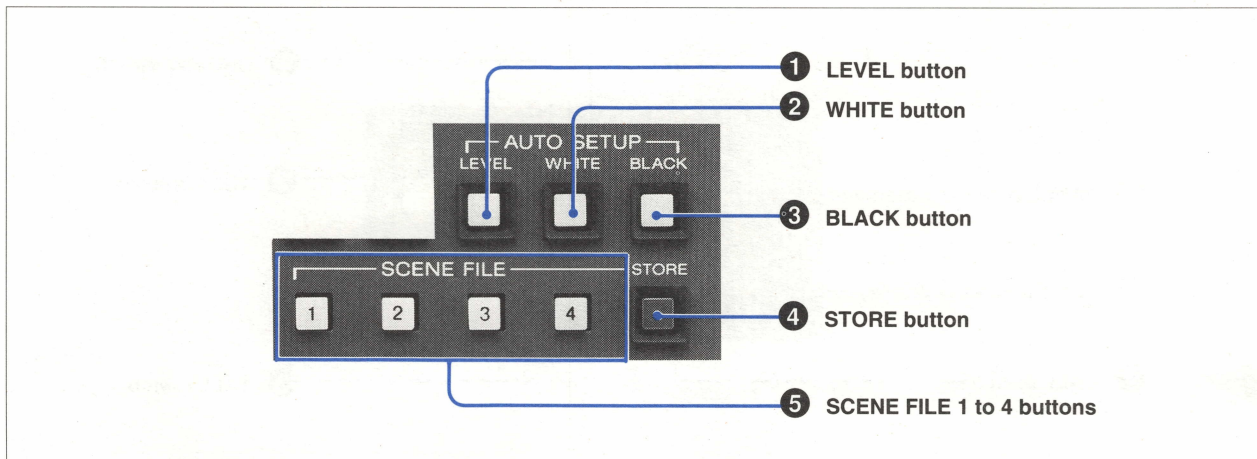
5 Camera number display

Attach the number plate (supplied) corresponding to the number of the camera.

6 PANEL ACTIVE button

Press this button to control the system from the panel. The lamp lights.

Automatic Adjustment/Scene File Operation Block



Automatic adjustment/scene file operation block

① LEVEL button

Press this button to perform the auto setup of the video signal level.

When you press this button, the lamp lights and the adjustment starts. Once the adjustment has been completed, the lamp goes out.

If the adjustment has not been made correctly, the lamp flashes.

The following items are to be adjusted.

Black set/black level/flare/gamma

② WHITE button

Press this button to adjust the white balance automatically.

When you press this button, the lamp lights and the adjustment starts. Once the adjustment has been completed, the lamp goes out.

If the adjustment has not been made correctly, the lamp flashes.

③ BLACK button

Press this button to adjust the black balance automatically. When you press this button, the lamp lights and the adjustment starts. Once the adjustment has been completed, the lamp goes out.

If the adjustment has not been made correctly, the lamp flashes.

④ STORE button

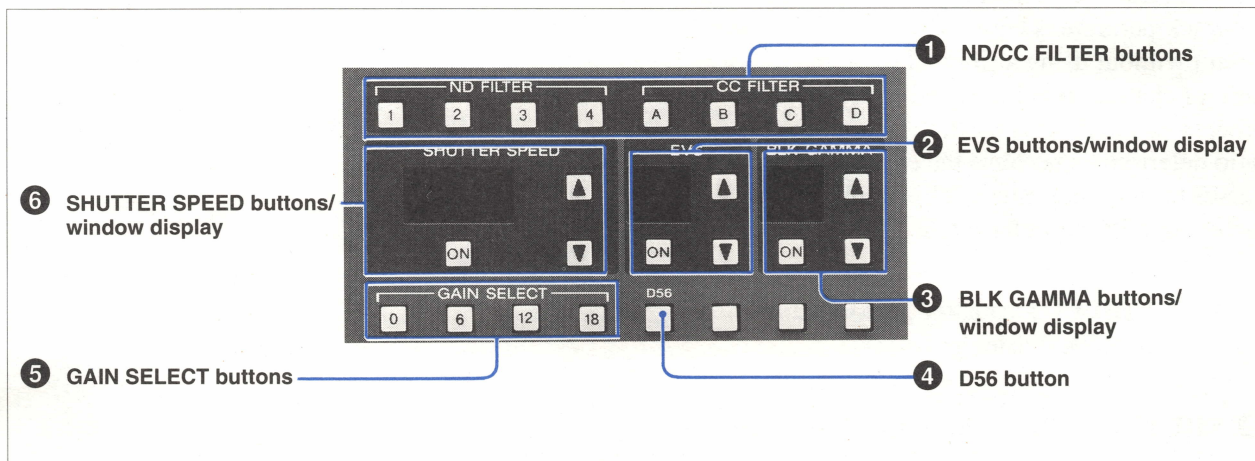
Press this button to store the new value to a scene file.

To store, first press this button to light the lamp, then press the SCENE FILE button corresponding to the desired file number.

⑤ SCENE FILE 1 to 4 buttons

Press this button to store the new value to a scene file or to call a scene file.

Basic Setting Block



Basic setting block

1 ND/CC FILTER buttons

Used to select the filter according to the lighting conditions or desired effect.

ND buttons: Use this button in the following cases.

- To limit the light quantity because the iris cannot be closed when shooting bright subject.
- When recording a subject with a shallow depth of the field by limiting the light quantity with the filter, but without closing the iris.

1	CLEAR	Completely clear
2	1/4 ND	Reduces the light quantity to 1/4
3	1/8 ND	Reduces the light quantity to 1/8
4	1/16 ND	Reduces the light quantity to 1/16

CC buttons:

A	3200 K	Use this filter when the color temperature of the incoming light is 3200 K.
B	4300 K	Use this filter when the color temperature of the incoming light is 4300 K
C	6300 K	Use this filter when the color temperature of the incoming light is 6300 K.
D	EFFECT	Special effect cross filter

2 EVS buttons/window display

Used to set the addition ratio of two adjacent lines to improve the vertical resolution.

Press the ON button first to light the lamps. Then, set the addition ratio with the ▲ or ▼ button. The higher the set value, the better the vertical resolution degree. The set value appears in the window display.

Set value and addition ratio

Set value	Addition ratio
1	0.875
2	0.75
3	0.675
4	0.5
5	0.375
6	0.25
7	0.125

3 BLK GAMMA buttons/window display

Used to adjust the black gamma.

Press the ON button first to light the lamps. Then, set the black gamma with the ▲ or ▼ button. The set value appears in the window.

④ D56 (Daylight 5600K) button

Press this button to light the lamp when the temperature of the incoming light is 5600 K. The color temperature is converted in the gain control circuit without using a filter. The signal to noise ratio of channel B is improved by the color balance process (if the filter is used, the signal to noise ratio deteriorates because the channel B signal passes through the filter). This improves the picture quality for color matte.

⑤ GAIN SELECT (master gain) buttons

Used to select the master gain.

⑥ SHUTTER SPEED buttons/window display

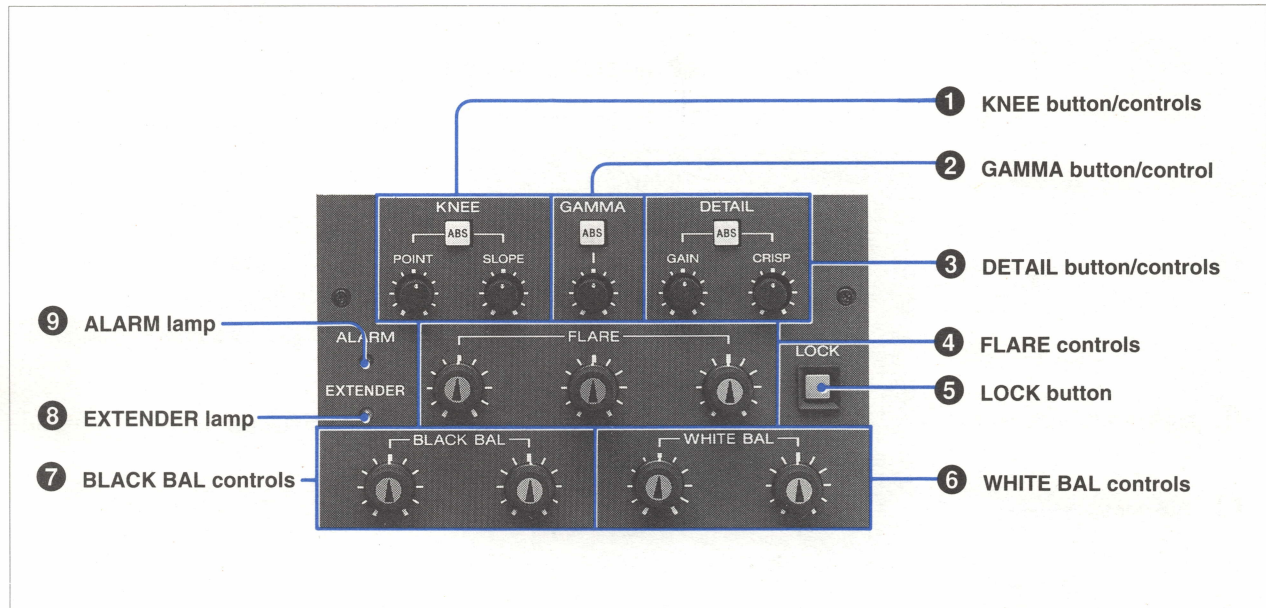
Used to set the shutter speed.

Press the ON button first to light the lamps. Then, set the shutter speed with the ▲ or ▼ button. The set value appears in the window.

Note

You cannot use the electronic shutter in super EVS mode.

Manual Adjustment/Lamp Block



Manual adjustment/lamp block

1 KNEE button/controls

ABS button: Used to select either absolute value adjustment mode (when the lamp is lit) or relative value adjustment mode (when the lamp is not lit).

POINT control: Turn this control to adjust the knee point.

SLOPE control: Turn this control to adjust the knee slope.

2 GAMMA button/control

ABS button: Used to select either absolute value adjustment mode (when the lamp is lit) or relative value adjustment mode (when the lamp is not lit).

GAMMA control: Turn this control to adjust the gamma curve.

3 DETAIL button/controls

ABS button: Used to select either absolute value adjustment mode (when the lamp is lit) or relative value adjustment mode (when the lamp is not lit).

GAIN control: Turn this control to adjust the gain.

CRISP control: Turn this control to adjust crisper.

4 FLARE controls

Used to adjust flaring.

5 LOCK button

Press this button to fix a manually-adjusted value or to prevent accidental operation.

Switches and controls other than those listed below become inoperative when the button lamp is lit after pressing the LOCK button.

- IRIS
- Master black
- PREVIEW button
- CALL button
- LOCK button

6 WHITE BAL controls

Used to adjust the white balance manually.

7 BLACK BAL controls

Used to adjust the black balance manually.

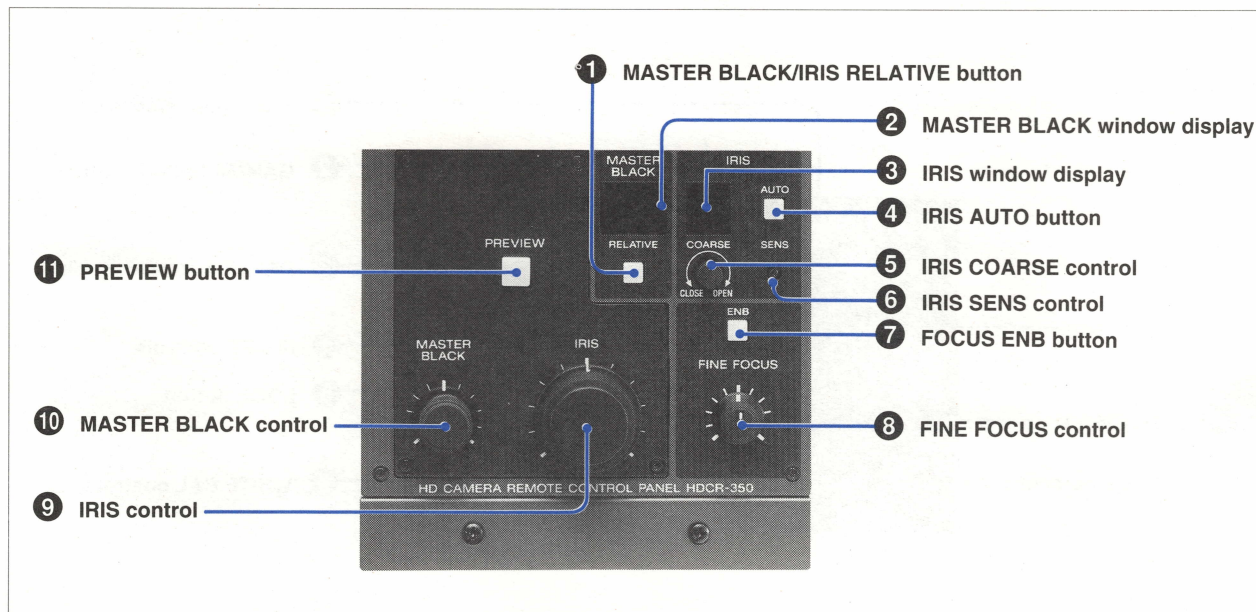
8 EXTENDER lamp

Lights when the lens is in extender mode.

9 ALARM lamp

Lights when the alarm message appears on the CCU.

Iris/Master Black/Focus Adjustment Block



Iris/master black/focus adjustment block

1 MASTER BLACK/IRIS RELATIVE button
Used to select the adjustment mode for the master black and the iris.

Press this button to light the lamp. This selects absolute value adjustment mode. Press this button again to turn the lamp off and select relative value adjustment mode.

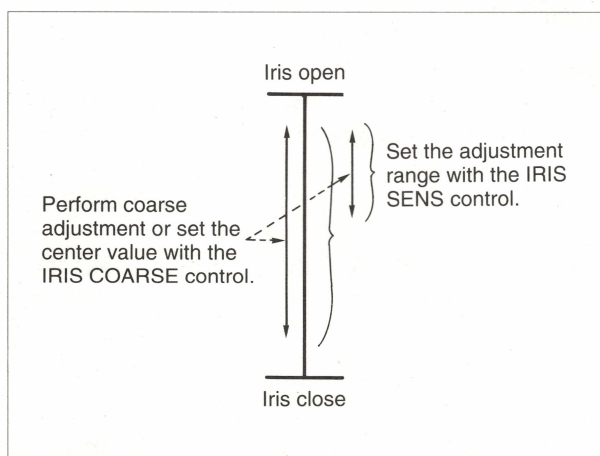
2 MASTER BLACK window display
Displays the master black value.

3 IRIS window display
Displays the iris value.

4 IRIS AUTO button
Press this button to light the lamp. This adjusts the iris automatically.

5 IRIS COARSE control
Used to perform the coarse adjustment of the iris.

6 IRIS SENS control
Turn this control to set the adjustment range of the iris.



Setting the iris adjustment range

7 FOCUS ENB button

Press this button to light the lamp and adjust the focus.

8 FINE FOCUS control

Turn this control to perform fine adjustment of the focus.

9 IRIS control

Turn this control to adjust the iris.

10 MASTER BLACK control

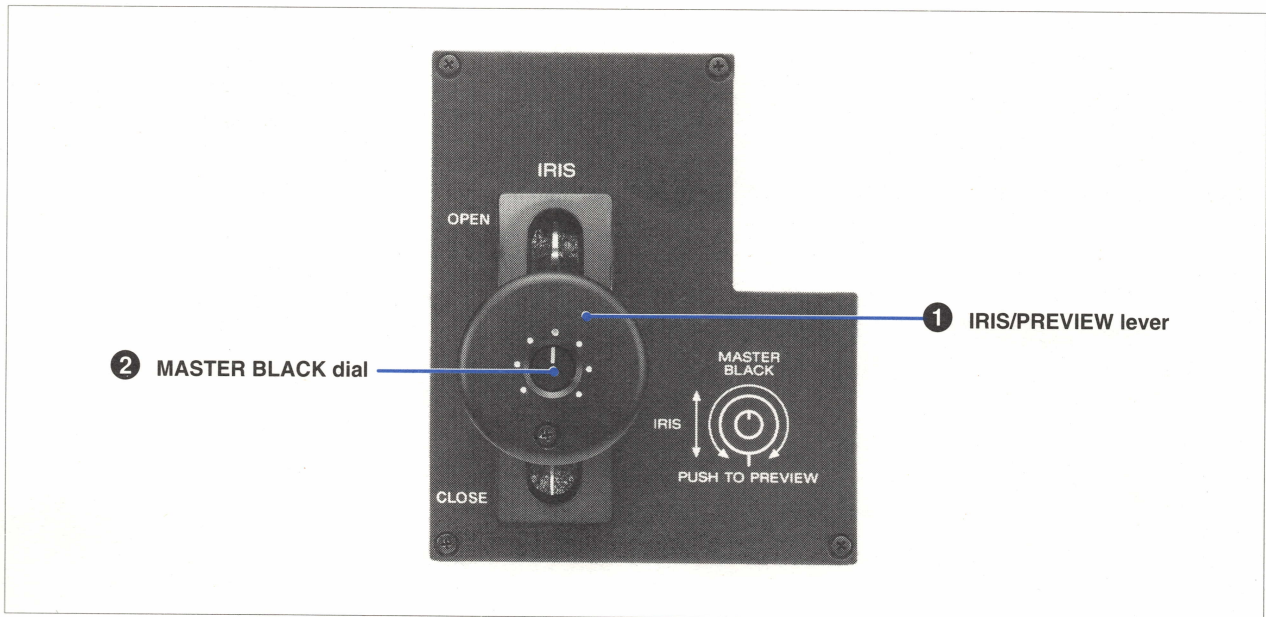
Turn this control to adjust the master black.

11 PREVIEW button

Press this button to light the lamp.

The preview signals are output from the PREVIEW connector. Use this button to monitor the preview picture by controlling the switcher.

Iris/Master Black Adjustment Block (Joystick type: Supplied)



Iris/master black adjustment block

1 IRIS/PREVIEW lever

Move this joystick forward or backward to adjust the iris.

Press this joystick to output the preview signal.

2 MASTER BLACK dial

Turn this dial of the joystick to adjust the master black.

Specifications

Input/output connectors	CCU connector (16-pin) PREVIEW connector (6-pin) REMOTE connector (12-pin)
Power supply	30 V DC
Power consumption	5 W
Maximum cable length	200 m (when using the CCA-2 cable or equivalent)
Mass	2.1 kg (4 lb 10 oz)
External dimensions	136 x 127 x 354 mm (w/h/d) (5 ³ / ₈ x 5 x 14 inches) (including projecting parts)
Accessories supplied	CCA-2-10 cable (with 16-pin connector) (1) 12-pin cable (1) 6-pin connector (1) Number plate (1 sheet) Joystick panel (1) Operation manual (2) Maintenance manual (1)

Design and specifications are subject to change without notice.

このマニュアルに記載されている事柄の著作権は当社にあり、説明内容は機器購入者の使用を目的としています。

従って、当社の許可なしに無断で複写したり、説明内容（操作、保守等）と異なる目的で本マニュアルを使用することを禁止します。

The material contained in this manual consists of information that is the property of Sony Corporation and is intended solely for use by the purchasers of the equipment described in this manual.

Sony Corporation expressly prohibits the duplication of any portion of this manual or the use thereof for any purpose other than the operation or maintenance of the equipment described in this manual without the express written permission of Sony Corporation.

Le matériel contenu dans ce manuel consiste en informations qui sont la propriété de Sony Corporation et sont destinées exclusivement à l'usage des acquéreurs de l'équipement décrit dans ce manuel.

Sony Corporation interdit formellement la copie de quelle que partie que ce soit de ce manuel ou son emploi pour tout autre but que des opérations ou entretiens de l'équipement à moins d'une permission écrite de Sony Corporation.

Das in dieser Anleitung enthaltene Material besteht aus Informationen, die Eigentum der Sony Corporation und ausschließlich zum Gebrauch durch den Käufer der in dieser Anleitung beschriebenen Ausrüstung bestimmt sind.

Die Sony Corporation untersagt ausdrücklich die Vervielfältigung jeglicher Teile dieser Anleitung oder den Gebrauch derselben für irgendeinen anderen Zweck als die Bedienung oder Wartung der in dieser Anleitung beschriebenen Ausrüstung ohne ausdrückliche schriftliche Erlaubnis der Sony Corporation.

HDCR-350 (WW, 英)
3-176-930-02 (1)

Sony Corporation
Camera Products Group

Printed in Japan
1992.12.13
© 1992
Published by B&P Marketing Group