

# INSTRUCTION MANUAL

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Color Camera

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**MODEL**

**ICD-808**

**ICD-828**

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**OUTDOOR USE WARNING**



WARNING - TO PREVENT FIRE OR  
ELECTRIC SHOCK, DO NOT  
EXPOSED THIS APPLIANCE TO  
RAIN OR MOISTURE.

**Ikegami**

Ikegami Tsushinki Co., Ltd.

Thank you very much for your wise choice of the Ikegami Color CCD Camera. Please carefully read this Instruction Manual to keep your camera at full capacity.

Contents	
	Page
1. Handling precautions .....	1
2. General .....	1
3. Features .....	1
4. Names of Parts and their functions .....	2
5. Setting .....	5
5-1. User setting .....	5
5-2. Setting switches and their functions .....	5
5-3. User setting menus .....	5
6. Specifications .....	7
7. Warranty and after-sale service .....	9
8. Setup Menu	

	<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;"> <p><b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN</p> </div>		<p><b>CAUTION:</b> TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>
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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 (servicing) instructions in the literature accompanying the appliance.

**NOTE:**  
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.

**CAUTION;**  
ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PART RESPONSIBLE FOR COMPLIANCE COULD VOID THE USERS AUTHORITY TO OPERATE THE EQUIPMENT.

## 1. Handling precautions

- (1) Do not open the case of camera and never touch inside, where precision parts are assembled. A trouble or accident may result.
- (2) Do not install the unit where it is exposed to water splash, high humidity and heavy dust. Internal parts may be damaged.
- (3) Be very careful not to drop or shock the camera.
- (4) Never touch the CCD surface.

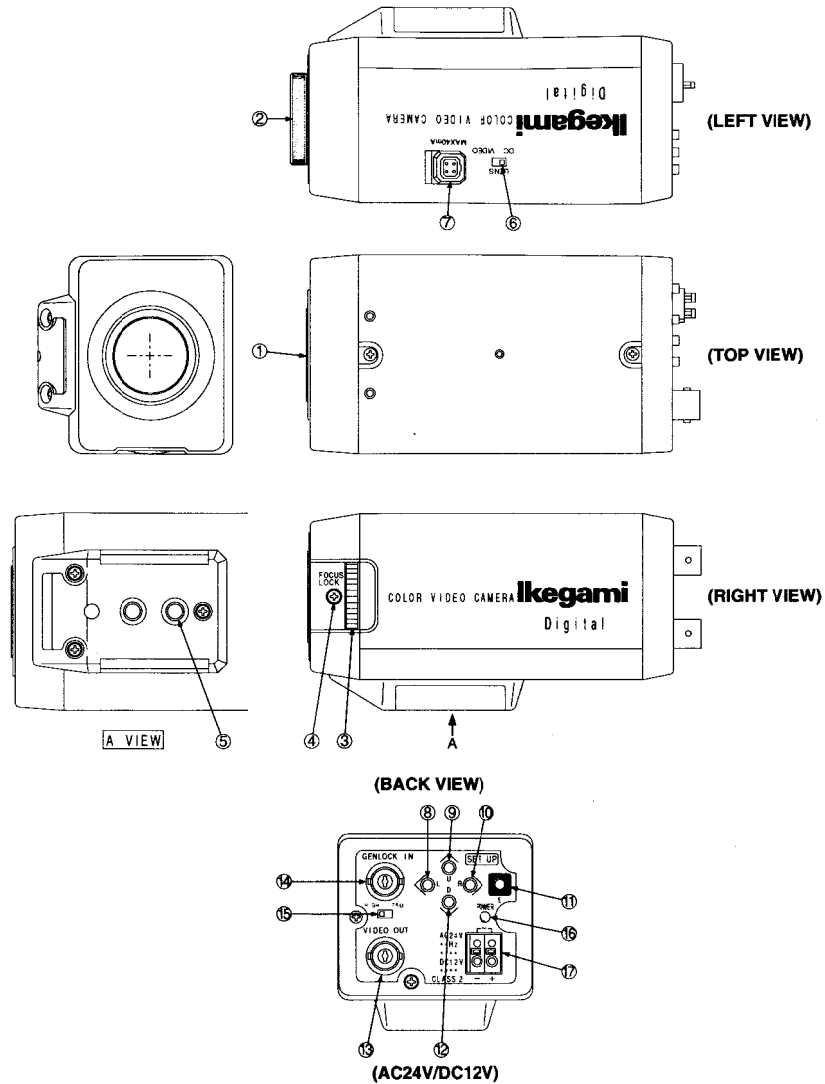
## 2. General

The ICD-808 and ICD-828 are single CCTV cameras that employ a 1/3-inch CCD (Charge Coupled Device) and 1/2-inch CCD, respectively, with 380,000 picture elements. The units feature high resolution, high sensitivity and high picture quality, and are equipped with many functions: back-light compensation, automatic electronic shutter, automatic iris control and others. The cameras are best suited for general-purpose monitoring.

## 3. Features

- (1) Digital processing
- (2) High-quality picture and high resolution
- (3) High-sensitivity design
- (4) Equipped with back-light compensating function
- (5) 2-way automatic iris controlling function
- (6) Automatic white balance
- (7) AES (Automatic Electronic Shutter)
- (8) Flange focal distance adjusting mechanism

## 4. Names of parts and their functions



- ① **Lens mount (CS mount)**  
Accepts many types of CS mount lenses.
- ② **C mount adaptor (Attached to ICD-828 only)**  
Attached to the lens mount to accept many types of C mount lenses.
- ③ **Flange focal distance adjuster**  
Used to adjust the flange focal distance depending on the type of lens used. Helpful when the lens' focus ring fails to put into focus.
- ④ **Flange focal distance lock screw**  
Used to mechanically lock the flange focal distance after fine adjustment of it.
- ⑤ **Holder screw hole**  
Used to mount the camera onto the camera holder. Effective for general camera tripods.

**Note:**

Be sure to use less than 5.5mm- long setscrew (1/4" – 20 UNC) for mounting the camera to tripods or holder.

- ⑥ **Lens selector switch**  
Used to choose between the video iris and the DC iris depending on the type of auto iris lens used.
- ⑦ **Auto iris lens connector**  
Specifically used to connect the auto iris lens. Use the connector plug that is attached to the camera.

• **For video type auto iris lens**

Set the lens selector switch to VIDEO position.

— Connector cable leads —

1. Red (power)
2. Not used
3. White (video)
4. Black (shielded)

- Dress the tip of the green lead to prevent a short-circuit.



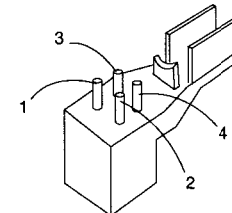
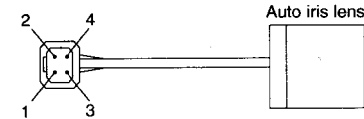
• **For the DC type auto iris lens**

Set the lens selector switch to the DC position.

— Connector cable leads —

1. Damping coil (-)
2. Damping coil (+)
3. Driving coil (+)
4. Driving coil (-)

- Connect the leads as shown above. Refer also to the instructions of the lens.



Number of connector pins

⑧ - ⑫ **Camera setting function switches**

Use them by referring to each operation item.

⑬ **Video output terminal**

Used to give out the video signal. Connect this to the video input terminal of a monitor, switcher etc. (To be terminated with 75-ohm impedance.)

⑭ **External sync signal input terminal**

Used to receive the GENLOCK (general lock) signal. For external synchronization, input VBS or BBS signal.

⑮ **External sync signal 75-ohm termination switch**

Set to HIGH position when the GENLOCK signal is looped with T-shaped connector. Usually, set at 75-OHM position.

⑯ **Power indicator**

Green LED lights up when power is supplied to the camera.

⑰ **AC 24V/DC 12V power input terminal**

Feed AC 21.6-26.4V or DC 10.5-28V power.

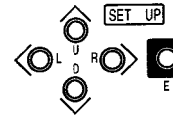
This installation should be made by a qualified service person and should conform to all local codes.

## 5. Setting

### 5-1. User setting

On this camera, user can make settings of picture quality, synchronization, identification etc. by himself or herself. The setting menus are on-screen character display. (Refer to 8. Setup Menu.)

### 5-2. Setting switches and their functions



On the back of the camera there are the pushbutton switches and display as shown at the left.

Switch name	Main function
UP switch (U):	Setting item selection (up)
DOWN switch (D):	Setting item selection (down)
RIGHT switch (R):	Setting change and setting item selection (right)
LEFT switch (L):	Setting change and setting item selection (left)
ENTER (E):	Setting mode call on/off, setting entry

### 5-3. User setting menus

- CAMERA ID** Up to 16 characters can be accepted and displayed. Switching on and off the CAMERA ID function and presetting ID code characters.
- SHUTTER** Setting of high-speed electronic shutter  
Selection of high-speed shutter, display of the screen at VARIABLE mode
- LIGHT CONT.** Selection of AES or auto iris lens  
Setting of back-light compensation as sub-menu
- GAIN** Selection of AGC, HYP-AGC and fix
- WHITE BAL.** Selection and setting of white balance system  
ATW1: 2600K-6000K  
ATW2: 2000K-6000K(when sodium lamp is used.)  
AWC: PUSH SET  
MANU: MANUAL SET
- SYNC** Selection of synchronization system (INT, LL)  
(It is impossible to select LL when the power is not synchronous.)  
GENLOCK is selected automatically.  
(GENLOCK is not displayed without external sync signal.)  
It is possible to adjust the phase on sub-menu.
- MENU LOCK** Setting procedure is locked. (Unlocking: U → R → D → L → U → D → E)

• Setting Indications and functions common on the setting menu

- (1) EXIT Ending (Saving) the setting mode and returning to the regular display.
- (2) CANCEL Recalling the previously saved settings.
- (3) RESET Recalling the factory-settings.
- (4) RET Returning to the preceding setting menu.

Select one of these indications and press the E switch.

• Special menu MATRIX

Use the camera usually in A mode. When using the camera indoors or under fluorescent light, B mode is recommended.

## 6. Specifications

- (1) Imaging device: 1/3-inch interline transfer type (ICD-808)  
1/2-inch interline transfer type (ICD-828)  
Effective pixels: 768 (H) x 494 (V), about 380,000 pixels  
Color filter: Color difference line sequential system
- (2) Scanning system: 2:1 interlace, as per NTSC system
- (3) Vertical sync frequency: 59.94 Hz  
(Corresponding to power frequency for line-lock)
- (4) Horizontal frequency: 15.734 kHz  
(Varies with power frequency for line-lock; SC not synchronized)
- (5) Synchronizing system: Internal sync: Crystal lock or line lock (on AC type only)  
External sync: GENLOCK (Automatic selection)
- (6) GENLOCK input: VBS or VS; 1.0 Vp-p/75 ohms (High impedance selectable)  
BBS; 0.45 Vp-p/75 ohms (High impedance selectable)
- (7) Video output: VBS; 1.0 Vp-p/75 ohms
- (8) Horizontal resolution: 480 lines
- (9) S/N ratio: 50 dB (p-p/rms) or more (ICD-808)  
52 dB (p-p/rms) or more (ICD-828)  
(Luminance signal, standard illumination, DETAIL correction OFF, weighting circuit ON)
- (10) Minimum illumination: 0.5 lux/F1.4 (AGC ON) (ICD-808)  
0.15 lux/F1.4 (AGC ON) (ICD-828)
- (11) AGC: ON (AGC, HYPER-AGC)/OFF (LOW, MID, HIGH) selectable
- (12) White balance: ATW/AWC/MANUALAL selectable and adjustable
- (13) DETAIL correction: Provided (Detail level adjustable)
- (14) Back-light compensation: ON/OFF/SPOT selectable, compensation level adjustable (BLC)
- (15) AES (Automatic : ON/OFF selectable  
Electronic Shutter) AES range: About 1:1600 (Inoperable in a region where the power frequency and the camera's vertical sync frequency are different from each other.)
- (16) Electronic shutter: OFF, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000, VARIABLE (Selectable among 1/60-1/100000)
- (17) Auto iris function: VIDEO iris/DC iris selectable (Changeover type)
- (18) Camera ID function: Provided (One line, 16 characters)
- (19) Local setting functions: Selectable and adjustable with on-screen display using 5 control buttons; Camera ID, AES/electronic shutter, BLC ON/OFF/SOPT selection and level adjustment, DC iris level, INT/LL, external sync frequency phase adjustment, DETAIL level, AGC ON/OFF, ATW/AWC/MANU selection and adjustment, CHROMA level, PED. level, menu lock selectable.
- (20) Remote setting functions: Possible (Multiplex video communication system with RCU-701)  
Same presettable items as with the local setting functions
- (21) Lens mount: CS mount (C mount adaptor attachable)
- (22) Flange focal distance: Provided  
adjusting mechanism
- (23) Power supply: AC 24V ±10%, 60 Hz/DC 12V (10.5-28V)

- (24) Power consumption:   Approx. 4.2W (ICD-808)  
                                   Approx. 4.5W (ICD-828)
- (25) Working ambient:   -10 to +50°C/30-85% RH (No dew condensation)  
       temperature/humidity
- (26) Camera mount:       1/4"-20UNC (Also mountable on top)
- (27) External dimensions: 64(W) x 54(H) x 120(D) mm (No projections and accessories included)  
       (W x H x D)
- (28) Weight:               Approx. 560g (ICD-808)  
                                   Approx. 570g (ICD-828)
- (28) Input/Output connectors:
- |                       |                                      |
|-----------------------|--------------------------------------|
| • VBS output          | BNC                                  |
| • GENLOCK input       | BNC                                  |
| • Lens                | 4-pin (Applicable plug: E4-191J-100) |
| • AC 24V/DC 12V input | 2-pin push-in terminal               |
- (30) Accessories:
- |   |                  |
|---|------------------|
| • Instruction manual  | 1                |
| • C mount adaptor (CMA-40)                                  | 1 (ICD-828 only) |
| • Auto iris lens connector plug (E4-191J-100 or equivalent) | 1                |
- (31) Options:
- Remote control unit (RCU-701)
- Multiple transmission type remote set-up unit using camera's video output cable. Many settings and functions can be remote-controlled by this unit.

\* The specifications and appearance may be subject to change without prior notice.

## 7. Warranty and after-sale service

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A warranty accompanies this product. Read and fill out the warranty card that you have received at your dealer. Keep this card in a safe place.

- Please consult Ikegami Electronics (U.S.A.), Inc. or your dealer for full warranty information. Your dealer will repair or replace free of charge within the warranty period according to the warranty coverage.
- For repairs after the expiration of the warranty period, consult your dealer or sales representative. It will first be judged whether the trouble is repairable or not. Charged servicing will then be made upon the request of user.
- Before you ask for servicing, take trouble of reading the Instruction Manual. If the unit still fails, take note of the model number, date of purchase, problem etc. in detail, and inform your dealer or sales representative.
- If you have questions about the after-sale service, contact your dealer or sales representative.

※ We suggest you ask for preventive inspection earlier.



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## Setting Procedure

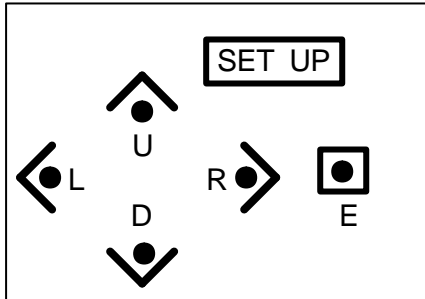
for ICD-808/P, ICD-828/P, ICD-848/P

(SET UP MENU)

# Setting procedure for ICD-808/P, ICD-828/P, ICD-848/P (SET UP MENU)

## [1] Setting Switches

Set up of these camera are operated by pressing following switches, which are located at rear panel of camera or on RCU-701 remote set up unit.



Switch name	Main function
UP switch (U):	Setting item selection (up)
DOWN switch (D):	Setting item selection (down)
RIGHT switch (R):	Setting change and setting item selection (right)
LEFT switch (L):	Setting change and setting item selection (left)
ENTRY switch (E):	Setting mode call on/off, setting entry

## [2] Setting Procedure of OSD (On Screen Display).

Hold the E switch down and the SET UP MENU (Fig.1) appears as OSD on the monitor screen.

### 1. CAMERA ID (camera identification)

#### (1) Camera ID on/of

Move the cursor to the position shown in Fig.1

by using U and D switches

Using the R and L switches, select the CAMERA ID item from ON to OFF.

#### (2) Entry of ID codes

When it is selecting ON, press the E switch.

The screen of Fig.2 appears.

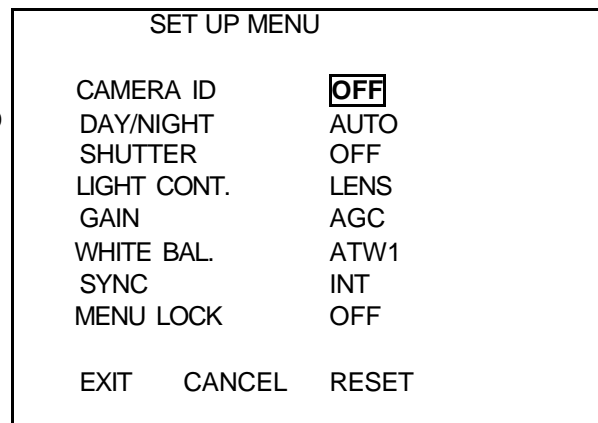


Fig.1

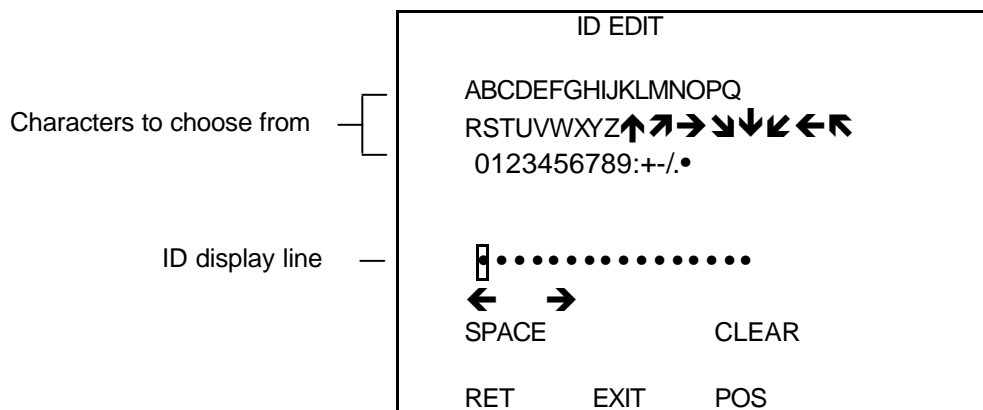


Fig.2

## Setting procedure for ICD-808/P, ICD-828/P, ICD-848/P (SET UP MENU)

Select characters for an ID code. Enter the characters one by one in the ID display line (marked with the cursor in Fig.2). Up to 16 characters are acceptable.

- (a) Position the start point of the ID display line:  
Select ← or → symbol and press the R or L switch.  
The cursor mark will move.
  - (b) Selecting characters:  
Use the U,D,R and L switches.
  - (c) Entering the characters in the ID display line:  
Press the E switch.
  - (d) Giving blanks:  
Select the SPACE and press E switch. The cursor mark will move.
  - (e) Clearing all the characters from the ID display line:  
Select the CLEAR and press the E
- (3) Setting of display position  
Setting the POS and press the E switch. The ID code will appear on the regular screen.  
Using the U,D,R and L switches, move the ID code to any position.  
Press the E switch and the display position will be determined and the screen show in Fig2 will appear again.
- (4) Use the RET or EXIT to end the setting.

### 2. DAY/NIGHT set up (ICD-848/P only)

#### (1) Setting a DAY/NIGHT function

Move the cursor to the position shown in Fig.3 by using U and D switches.

Using the R and L switches, select DAY/NIGHT item from AUTO, B/W, COLOR and REMOTE.

#### (2) AUTO mode

This mode is used for automatic changing from COLOR to B/W under the condition of changing to low light and from B/W to COLOR under the conditions of returning to normal light.

Select AUTO from the DAY/NIGHT item. And press the E switch. The screen of Fig.4 appears.

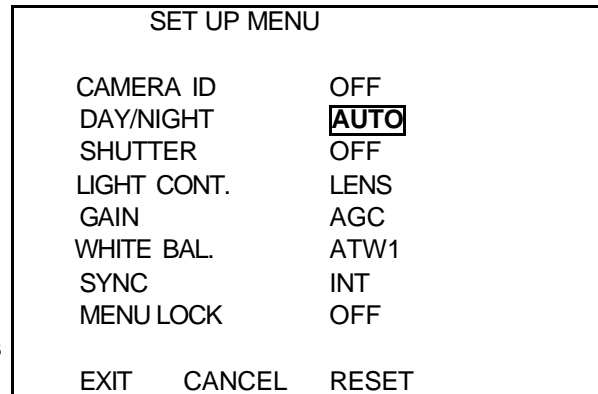


Fig.3

Adjust the level of COLOR to B/W by using L and R switches. Move to B/W? COL by using the U and D switches and adjust the level of B/W to COLOR by using the L and R switches.

Move to the bottom line by using the U and D switch.

Select RET to go back to SET UP MENU or select EXIT. And press the E switch.

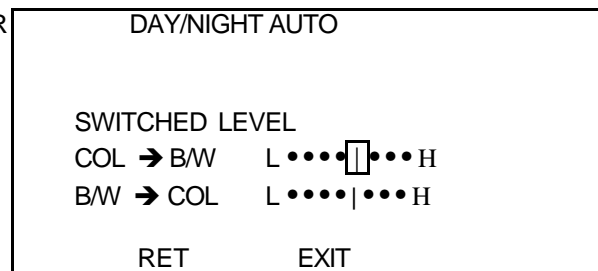


Fig.4

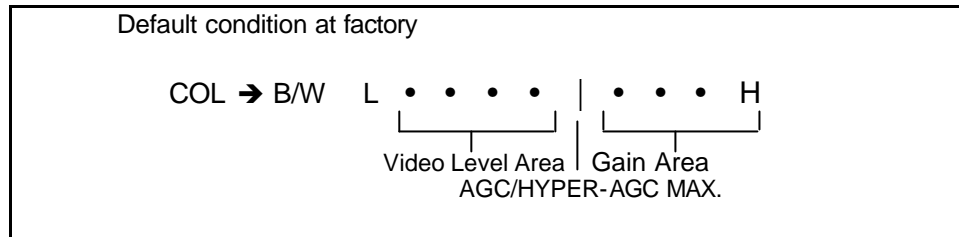
Note: Switch Level Adjustment

#### -1. Setup of COL → B/W

When you adjust the switched level of COL → B/W, it switches from color to B/W in brighter conditions, as you move the marker to H direction. But it switches from color to B/W in darker conditions, as you move the marker to L. direction

## Setting procedure for ICD-808/P, ICD-828/P, ICD-848/P (SET UP MENU)

The marker is explained as follows



In the default condition at factory, it is set up to switch Color – B/W at the point of AGC/HYPER-AGC Gain maximum, when the marker location is center.  
 In case of moving the marker from center to H direction, it switches at smaller gain. (It switched from color to B/W at brighter conditions.)  
 In case of setting the marker to H direction from center, it is in the control area by Gain. So brightness of video on the monitor screen does not changed.  
 But as the gain level is different, the noise level is different. So if you want to switch with small noise condition, move the marker to H direction.  
 In case of moving the marker to L direction, it switches with smaller video level. (It switches from color to B/W at darker conditions.)

### -2. Setup of B/W → COL

When you adjust the switched level of B/W → COL, it switches from B/W to color in darker conditions, as you move the marker to L direction. In case of it switches between color and B/W continuously (hunting) under the certain lighting conditions, move the marker to H direction.

### (3) REMOTE mode

This mode is used for changing by remote signal. Select REMOTE from the DAY/NIGHT item. And press the E switch. The screen of Fig.5 appears.

Connect remote cable to remote terminal at rear panel. Remote control is by MAKE signal of BREAK signal.  
 Select CONTROL SIGNAL item MAKE or BREAK.  
 Move to bottom line by using the U and D switch.  
 Select RET to go back to SET UP MENU or select EXIT. And press the E switch.

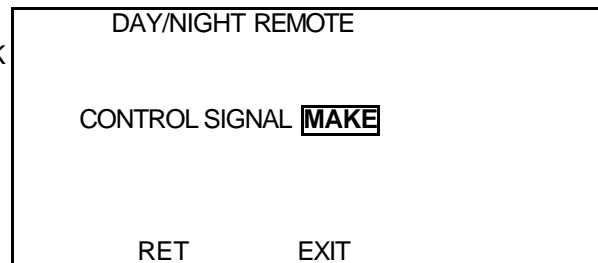


Fig.5

## 3. SHUTTER

### (1) Setting an electronic shutter function

Move the cursor to the position show in Fig.6 by using U and D switches.

Using the R and L switches, select SHUTTER item from OFF, 1/100(PAL:1/60), 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 and VARIABLE.

### (2) VARIABLE shutter mode the E switch.

This mode is used for setting VARIABLE shutter Speed from 1/60(PAL:1/50) to 1/100000.

Select VARIABLE. And press the E switch.

The screen of Fig.7 appears.

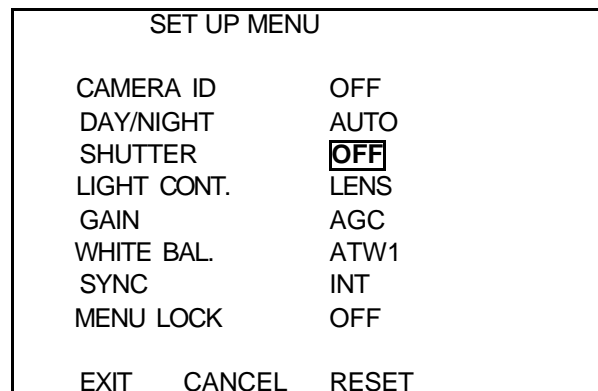


Fig.6

## Setting procedure for ICD-808/P, ICD-828/P, ICD-848/P (SET UP MENU)

Adjust variable shutter speed by using the L and R Switches. You can see it's changing on the screen. Move to the bottom line by using the U and D switch.

Select RET to go back to SET UP MENU or select EXIT. And press the E switch.

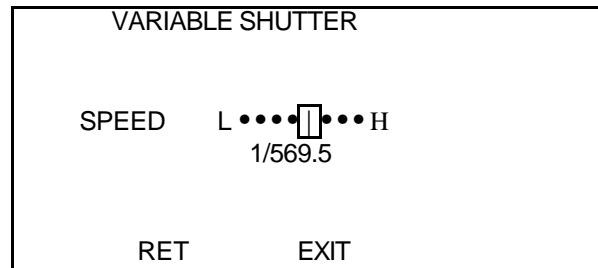


Fig.7

### 4. LIGHT CONTROL

(1) Selecting a light control mode

Move the cursor to the position shown in Fig.8 by using U and D switches.

Using the R and L switches, select LIGHT CONTROL item from LENS and AES.

In case of using VIDEO iris lens or DC iris lens, select LENS, and select DC or VIDEO by dip switch at side panel.

Connect auto iris connector of auto iris lens to the connector at side panel of this camera.

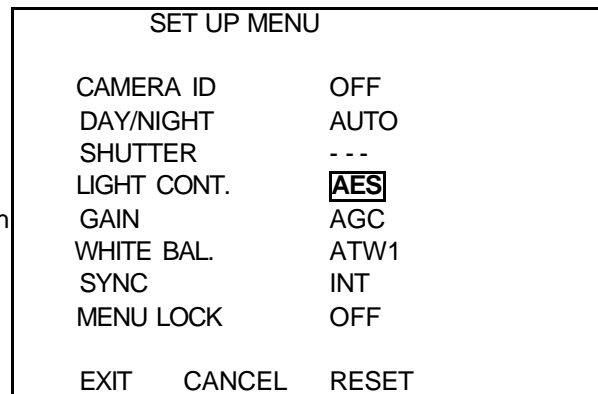


Fig.8

DC iris level is also adjustable.

When an auto iris connector of DC iris lens is connected, LIGHT CONTROL item is forced to be LENS. When the cursor is at LENS, press E switch. The screen of Fig.9 appears.

Move the cursor to IRIS LEVEL by using the U and D switch. And adjust IRIS LEVEL by using L and R switch

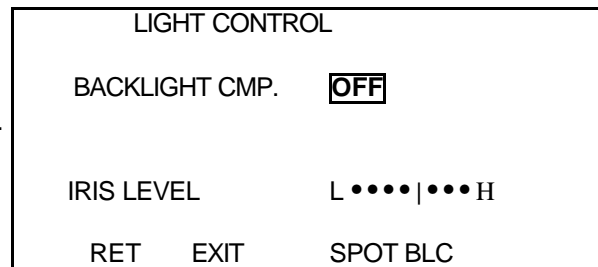


Fig.9

Move to the bottom line by using the U and D switch. Select RET to go back to SET UP MENU or select EXIT. And press the E switch.

In case of using manual iris lens with AES, select AES. But in case of using manual iris lens and controlling light condition by manual iris, select LENS.

(2) BLC (Back Light Compensate) mode.

You can select BLC item from ON, OFF and SPOT. When the cursor is the position of LENS or AES, press the E switch. The screen of Fig.10 appears.

(a) BLC OFF

Select OFF by using the L and R switches. Move to the bottom line by using the U and D switch.

Select RET to go back to SET UP MENU or select EXIT. And press the E switch.

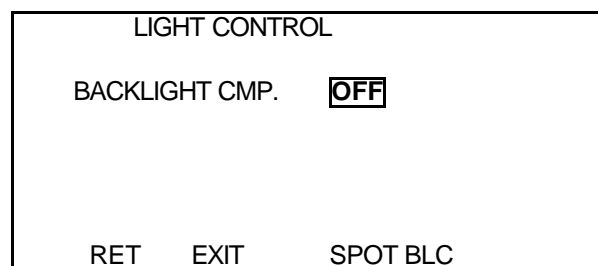


Fig.10

## Setting procedure for ICD-808/P, ICD-828/P, ICD-848/P (SET UP MENU)

### (b) BLC ON

Select ON by using the L and R switches. The screen changes to Fig.11.

Move to BLC LEVEL by using the U and D switches, and adjust by using the L and R switches.

Move to WIDE BLC by using the U and D switches, and select ON or OFF by using the L and R switches. When WIDE BLC is ON, it adjusts gamma and knee optimally for high lighting area.

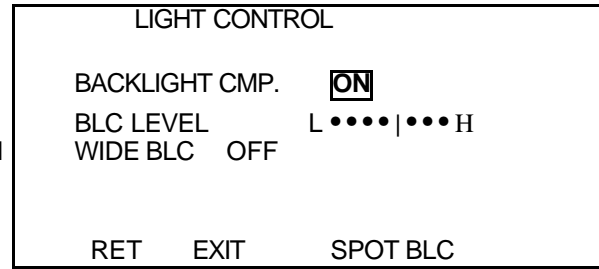


Fig.11

Move to bottom line by using the U and D switch. Select RET to go back to SET UP MENU or select EXIT. And press the E switch.

### (c) BLC SPOT

It can select the sensing area for BLC calculation. The sensing area can be selected only one area. Its sensing level can be adjustable too.

Select SPOT by using the L and R switches. The screen changes to Fig.12.

Move to BLC LEVEL by using the U and D switches, and adjust by using the L and R switches.

Move to bottom line by using the U and D switch. Select SPOT BLC by using the L and R switches.

And press the E switch.

The screen of Fig.13 appears.

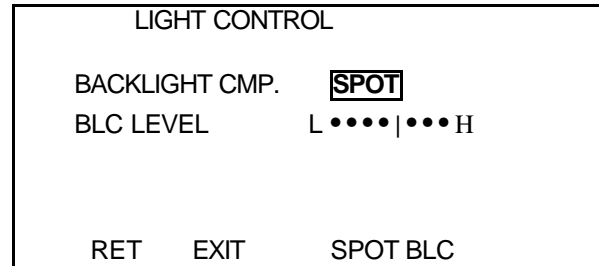


Fig.12

Move cursor to ←, ↑, ⇒ and ↓ by using the U, D, L and R switches, and press E switch.

Selected arrow key blinks when active.

as Fig 14.

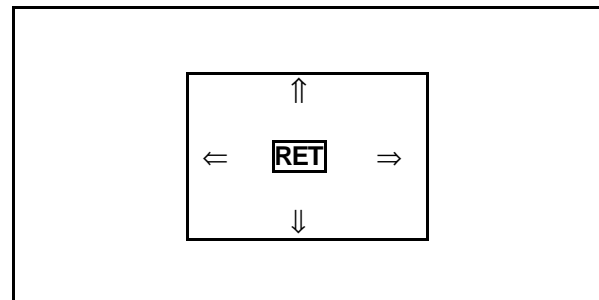


Fig.13

Move selected area by using the U and D or the L and R switches.

Press E switch for being active.

Select other arrow key by using the U, D, L and R switches to select other direction of area.

Or select RET by using the U, D, L and R switches.

And press the E switch to go back LIGHT CONTROL menu.

The screen of Fig.12 appears.

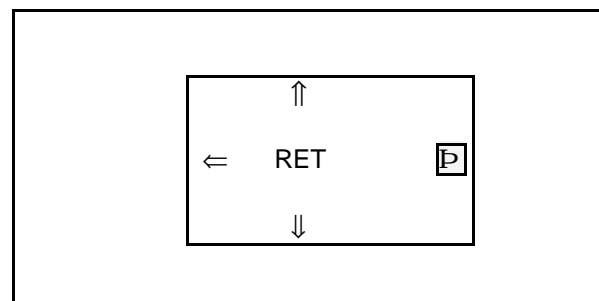


Fig.14

Select RET to go back to SET UP MENU or select EXIT.

## Setting procedure for ICD-808/P, ICD-828/P, ICD-848/P (SET UP MENU)

### 5. GAIN

Move the cursor to the position shown in Fig 15. By using the L and R switches select GAIN item from AGC, HYPER-AGC, LOW, MID and HIGH. The AGC entry keeps on the AGC function of max. 20 dB, but the HYPER-AGC entry keeps on the AGC function of max. 30 dB. The LOW entry keeps AGC function off (0dB). The MID(10dB) and HIGH(20dB) entries provide for fixed gains. When the DAY/NIGHT entry is the AUTO mode, the GAIN entry is forced to AGC or HYPER-AGC.

SET UP MENU		
CAMERA ID	OFF	
DAY/NIGHT	AUTO	
SHUTTER	OFF	
LIGHT CONT.	AES	
GAIN	<b>AGC</b>	
WHITE BAL.	ATW1	
SYNC	INT	
MENU LOCK	OFF	
EXIT	CANCEL	RESET

Fig.15

### 6. WHITE BALLANCE

Move the cursor to the position shown in Fig 16. By using the L and R switches select WHITEBALLANCE item from ATW1, ATW2, AWC and MANUAL.

#### (1) ATW1 entry

The white balance is automatically followed up (with color temperature of 26000-6000°K). When no sodium lighting is issued, keep the automatic white balance in this mode.

SET UP MENU		
CAMERA ID	OFF	
DAY/NIGHT	AUTO	
SHUTTER	OFF	
LIGHT CONT.	AES	
GAIN	AGC	
WHITE BAL.	<b>ATW1</b>	
SYNC	INT	
MENU LOCK	OFF	
EXIT	CANCEL	RESET

Fig.16

#### (2) ATW2 entry

The white balance is automatically followed up in the range from sodium lighting and sunlight (with color temperature of 2000-6000°K). When sodium lighting is used, keep the automatic white balance in this mode. Note that in the ATW2 mode, reddish objects may look less brilliant.

SET UP MENU		
CAMERA ID	OFF	
DAY/NIGHT	AUTO	
SHUTTER	OFF	
LIGHT CONT.	AES	
GAIN	AGC	
WHITE BAL.	<b>ATW2</b>	
SYNC	INT	
MENU LOCK	OFF	
EXIT	CANCEL	RESET

Fig.17

Setting procedure for ICD-808/P, ICD-828/P, ICD-848/P (SET UP MENU)

(3) AWC entry

The characters "AWC PUSH" start blinking in the position as shown in Fig.18. Now shoot a white target and press the E switch.

The white balance is now adjusted.  
 (When the E switch is pressed, the PUSH characters change to "- -" first and then "SET" and back to "PUSH" again. With the PUSH on screen, it is possible to make setting again.)

SET UP MENU		
CAMERA ID	OFF	
DAY/NIGHT	AUTO	
SHUTTER	OFF	
LIGHT CONT.	AES	
GAIN	AGC	
WHITE BAL.	<b>AWC PUSH</b>	
SYNC	INT	
MENU LOCK	OFF	
EXIT	CANCEL	RESET

Fig.18

(4) MANUAL entry

Select manual and press E switch.

The screen of Fig.20 appears.

SET UP MENU		
CAMERA ID	OFF	
DAY/NIGHT	AUTO	
SHUTTER	OFF	
LIGHT CONT.	AES	
GAIN	AGC	
WHITE BAL.	<b>MANUAL</b>	
SYNC	INT	
MENU LOCK	OFF	
EXIT	CANCEL	RESET

Fig.19

Adjust R GAIN by using the L and R switches.  
 Move to B GAIN by using the U and D switches.  
 Adjust B GAIN by using the L and R switches.  
 Move to the bottom line by using the U and D switch.  
 Select RET to go back to SET UP MENU or select EXIT. And press the E switch.

WHITE BALANCE		
R GAIN	L •   • • • • • H	
B GAIN	L • • •   • • • • H	
RET	EXIT	

Fig.20

7. SYNCHRONIZATION

Move the cursor to the position shown in Fig.21. Using the R and L switches, enter INT or LL in the SYNC item.

(1) INTERNAL LOCK entry

Select INT. The camera is put in the internal sync mode.

(2) LINE LOCK entry

Select LL and press the E switch.

The screen of Fig.22 appears.

SET UP MENU		
CAMERA ID	OFF	
DAY/NIGHT	AUTO	
SHUTTER	OFF	
LIGHT CONT.	AES	
GAIN	AGC	
WHITE BAL.	ATW1	
SYNC	<b>INT</b>	
MENU LOCK	OFF	
EXIT	CANCEL	RESET

Fig.21

## Setting procedure for ICD-808/P, ICD-828/P, ICD-848/P (SET UP MENU)

Adjust the COARSE by using the L and R switches.  
 Move to FINE by using the U and D switches.  
 And adjust by using the L and R switches.  
 Move to the bottom line by using the U and D switches.  
 Select RET to go back to SET UP MENU or select EXIT. And press the E switch.

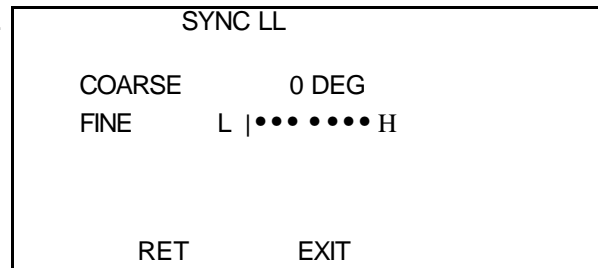


Fig.22

Notes: The LL setting cannot be made in the following cases.

- DC type camera (no line lock signal input)
- NTSC system model with 50Hz power frequency or PAL system model with 60Hz power frequency.

### (3) GENLOCK

When a camera inputs external sync signal from GENLOCK IN connector at rear panel, SYNC item is forced to select EXT VBS or EXT VS. When you select EXT VBS and press the E switch, the screen of Fig.24 appears.

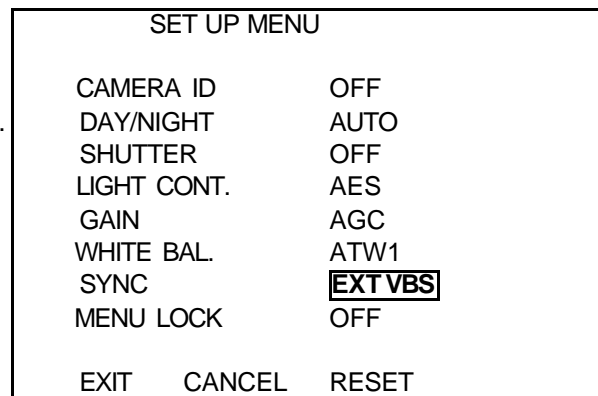


Fig.23

Adjust the H PHASE by using the L and R switches. Move to SC COARSE by using the U and D switches. And adjust by using the L and R switches. Move to SC FINE by using the U and D switches. And adjust by using the L and R switches.

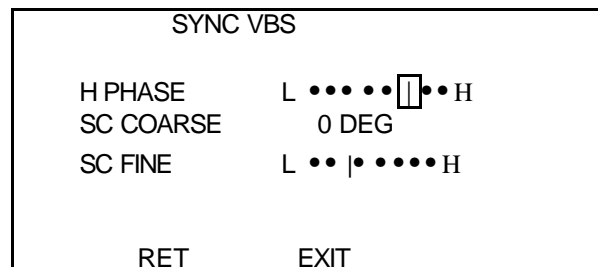


Fig.24

Move to the bottom line by using the U and D switches. Select RET to go back to SET UP MENU or select EXIT. And press the E switch.

When you select EXT VS and press the E switch, the screen of Fig.25 appears. Adjust H PHASE by using the L and R switches. Move to the bottom line by using the U and D switches. Select RET to go back to SET UP MENU or select EXIT. And press the E switch.

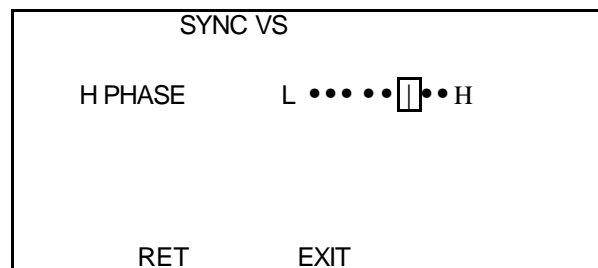


Fig.25

## Setting procedure for ICD-808/P, ICD-828/P, ICD-848/P (SET UP MENU)

### 8. MENU LOCK

The menu lock function is provided to protect the settings from unintentional changes.

#### (1) Locking

Move the cursor to the position shown in Fig.26.

Press the E switch. When the menu is locked, the "ON" in the MENU LOCK is video-reversed.

As shown in Fig.27

SET UP MENU		
CAMERA ID		OFF
DAY/NIGHT		AUTO
SHUTTER		OFF
LIGHT CONT.		AES
GAIN		AGC
WHITE BAL.		ATW1
SYNC		INT
MENU LOCK		<b>OFF</b>
EXIT	CANCEL	RESET

Fig.26

#### (2) Operation

Once the menu has been locked, only the EXIT Instruction is effective. Any other instructions are not accepted.

#### (3) Unlocking

Press the following switches in this order:

U - R - D - L - U - D - E

If a wrong key has been pressed halfway, do it Again from the beginning.

SET UP MENU		
CAMERA ID		OFF
DAY/NIGHT		AUTO
SHUTTER		OFF
LIGHT CONT.		AES
GAIN		AGC
WHITE BAL.		ATW1
SYNC		INT
MENU LOCK		<b>ON</b>
<b>EXIT</b>	CANCEL	RESET

Fig.27

## Setting procedure for ICD-808/P, ICD-828/P, ICD-848/P (SET UP MENU)

### 9. SPECIAL MENU

Move to the cursor to the EXIT position in the setting menu as shown in Fig.28.

Hold down the R and L switches at once until the screen as shown in Fig.29 will show up.

SET UP MENU		
CAMERA ID	OFF	
DAY/NIGHT	AUTO	
SHUTTER	OFF	
LIGHT CONT.	AES	
GAIN	AGC	
WHITE BAL.	ATW1	
SYNC	INT	
MENU LOCK	OFF	
<b>EXIT</b>	CANCEL	RESET

Fig.28

#### (1) CHROMA

Used to adjust the chroma level. Shifting toward the H position increases the level.

#### (2) DETAIL

Used to adjust the details correction level. The H Direction makes images sharper and the L direction Softer.

#### (3) PEDESTAL

Used to adjust the pedestal level.

Shifting toward H position increases the level.

#### (4) MATRIX

Select A MODE for the normal condition. When using camera indoors or under fluorescent light, B MODE is recommended.

#### (5) LANGUAGE (PAL only)

Select ENGLISH menu or FRENCH menu

SPECIAL MENU V.1.06	
CHROMA	L ●●●● <input type="checkbox"/> ●●●● H
DETAIL	L ●●●●   ●●●● H
PEDESTAL	L ●●●●   ●●●● H
MATRIX	A MODE
LANGUAGE	ENGLISH
RET	EXIT

Fig.29

Move to the bottom line by using the U and D switches. Select RET to go back to SET UP MENU or select EXIT. And press the E switch.