

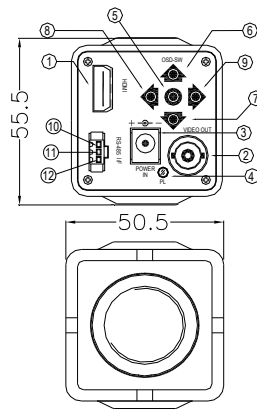
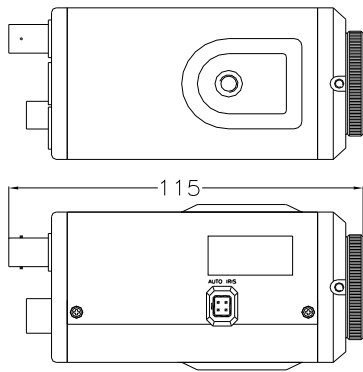
Box Specification

MODE NO.	MHD-13		
IMAGE SENSOR	Megapixel CMOS Sensor		
CCD TOTAL PIXELS	1384(H) X 1076(V) approx. 1.49M pixel		
SCANNING SYSTEM	Progressive scan		
SYNC SYSTEM	Internal		
MINIMUM ILLUMINATION	0.1 Lux @ AGC on /Sens-up off/ F1.2 Color to B/W		
OPTIC /Lens	Type filter	C/CS mount IR-Cut filter	C/CS mount ICR(IR-cut removable)
RESOLUTION	Over 800 TV-Line (*1)		
ICR-Set CONTROL	Auto, External-control(Optional function)		
GAIN CONTROL	Auto, manual		
EXPOSURE CONTROL	Auto, manual, IRIS priority		
S / N RATIO	48dB (TYP) (Gamma, Aperture, AGC OFF)		
AUTO IRIS	AES (Rolling shutter) / ALC-DC lens		
MULTI-FORMAT VIDEO OUT	Image Aspect: Full/Normal HDV 16:9 (Mode: Squeeze or Cropped): 720p50/60Hz;1080p25/30Hz SDV(4:3)(Mode: Squeeze or cropped): NTSC/PAL(4:3/16:9)		
DNR	3D/2D Noise Reduction (Off/Low/Middle/High)		
GAMMA CORRECTION	0.45 / 1.0		
DIGITAL ZOOM	4 times		
DIGITAL VIDEO OUT	HD-SDI		
ANALOG VIDEO OUT	CVBS NTSC/PAL(Selectable by OSD)		
Protocol	RS-485(Optional function)		
OSD CONTROL	Peak/ BLC/Fixed shutter/XDR /AGC/ Fixed Gain/Slow shutter/3DNR Control/Day-night/Fog-Reduction / Eclipse/Enhance H-V/UV-Matrix/AWB /ATW/R-Y/B-Y/Freeze/Priority/Motion Detection/Digital P.T.Z /Posi-Negative/Privacy MASK/Cross line/Freeze/Com-ID		
OPERATION TEMPERATURE	-20°C TO 50°C		
OPERATIONAL HUMIDITY	within 85% RH		
POWER SUPPLY	DC12V±1V / 280mA		

*1:For the best image performance and high recognition possibilities, high-quality relative terminal equipment is highly recommend, such as display, video recorder, and camera lens.

※The specifications and appearance of the product may change without notice.

Dimension (Unit : mm / ± 0.3 mm)



Rear board definition

- ① HD VIDEO OUT
- ② SD VIDEO OUT
- ③ POWER IN DC-JACK
- ④ POWER ON INDEX LED
- ⑤ OSD-SW "ENTER"
- ⑥ OSD-SW "UP"
- ⑦ OSD-SW "DOWN"
- ⑧ OSD-SW "LEFT"
- ⑨ OSD-SW "RIGHT"
- ⑩ RS-485 : "+"
- ⑪ RS-485 : "-"
- ⑫ RS-485 : "GND"

(Multi-format type)

For TV System selection (NTSC/PAL)

Set the video format for **NTSC** by turning on the power while pressing [UP] key together, and set the video format for **PAL** by turning on the power while pressing [RIGHT] key together.

Caution for Installation

1. Avoid places where there is direct sunlight. When using the camera outside.
2. Be careful, never let any water in this equipment.
3. Do not directly touch the Sensor device. If necessary, use a soft cloth moistened with alcohol to wipe off the dust.
4. When the camera installs in dust or wet environment, please puts into the camera housing.
5. Be extra careful not to shake the camera.
6. Avoid places where temperatures exceed 50 °C or more.
7. Be extra careful not to mistake plug in connect.
8. The camera are only operated with regulative adaptor DC 12V, AC to DC non-regulative adaptor may cause camera damaged.

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OSD Infrastructure (Index)

Luminance Menu1/4

ALC	Off/On/FLC	ALC(Auto lighting control) level control, with FLC(flicker less) function
AES	Off/On	AES(Auto exposure shutter) level control
FIXED SHUTTER	Off/On	1/30(1/25),1/50(1/60),1/100,1/120,1/180,1/350,1/500.1/750,1/1000,1/2000,1/4000,1/10000.
PEAK AVERAGE	Off/On	Adjust image PEAK ratio, for highlight suppression
BACK LIGHT	Off/On	Brightness compensation for dark area
XDR	OFF/LOW/Middle/HIGH	Digital WDR function which is based on adaptive tone mapping.
GAMMA CONTROL	CRT/LCD/1.00	Gamma correction function

Luminance Menu2/4

AGC	AUTO/FIX	Electronic sensitivity compensation which can amplify to enhance low video signal up to 36dB
SLOW SHUTTER	OFF/LIMIT TIME	Electronic sensitivity compensation which be by frame accumulation tech.
DNR	OFF/LOW/Middle/HIGH	To reduce random image noise
DAY / NIGHT	DAY/NIGHT/COMPUL	ICR-SET, Control mode: auto or by External control mode
FOG REDUCTION	OFF/LOW/Middle/HIGH	To enhance the low contrast image such as snow, fog, haze
ECLIPSE	OFF/LOW/Middle/HIGH	To block the area which is saturation of lighting in the image.
SHARPNESS	ON/OFF	Image enhance
ENHANCE	HDV/SDV	Both HD(high definition)Video and SD(standard definition) video can be adjusted by Horizontal and Vertical

Color Menu3/4

COLOR MODE	MONO/OFF/ON/AUTO	Be changeable from color to B/W automatically
WHITE BALANCE	ATW/AWB	Auto tracing white balance and auto while balance –one push
UV MATRIX	U-MATRIX/V-MATRIX	U or V-axis, R/G/B color adjustable.
COLOR GAIN	GAIN CONTROL	Color gain adjustable.
COLOR TONE	R-Y/B-Y	Color vector adjustable.

Setup Menu4/4

LANGUAGE	ENGLISH/JAPANESE/CHINESE(TRADITIONAL/SIMPLIFIED)		
TITLE	OFF/ON	TITLE can be set with display.	
DEFAULT	LOAD/SAVE/FACTORY	OSD parameter setting load or saving	
SPECIAL FUNCTION (1/2)	SPECIAL FUNCTION	PRIORITY	Priority selectable, AGC first or SLOW SHUTTER first.
		MOTION DETECT	Motion detection is on or off
SPECIAL FUNCTION (2/2)	SPECIAL FUNCTION	DIGITAL ZOOM	Zoom ration selectable, and Pan / tile movable
		H / V REVERSE	Mirror and flip
SPECIAL FUNCTION (2/2)	SPECIAL FUNCTION	DISPLAY MODE	HD video format: 720p25/30/50/60;1080p25/30;1080/50/60 selectable SD video format: 4:3/16:9 Image aspect : Nor.(16:9) or Full(4:3)
		DIGITAL OUT	YUV422 Spec. setting
SPECIAL FUNCTION (2/2)	SPECIAL FUNCTION	PRIVACY MASK	Image masking
		CROSS LINE	Crosslink can be displayed with moving by V or H axis
SPECIAL FUNCTION (2/2)	SPECIAL FUNCTION	FREEZE	Image freeze
		COLOR BAR	Color Bar can be displayed
SPECIAL FUNCTION (2/2)	SPECIAL FUNCTION	POSI / NEGA	Show positive image or negative
		COMM ID	Set camera ID number for communication

※The specifications and appearance of the product may change without notice.

(Multi-format type)

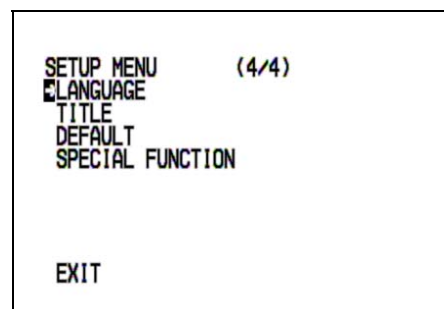
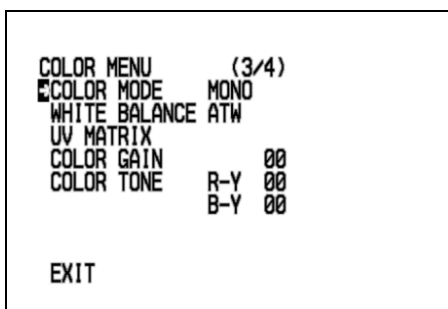
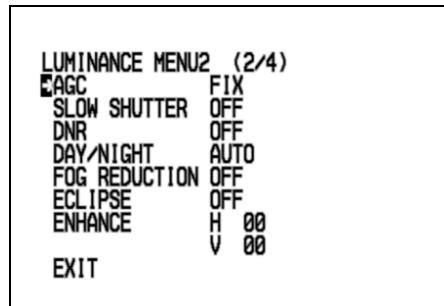
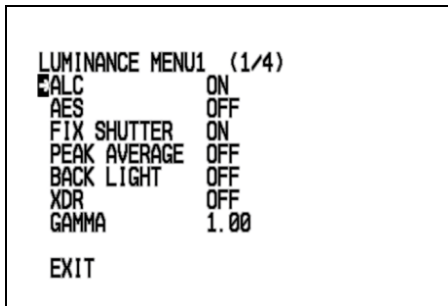
OSD MANUAL

There are 5 push switch [UP],[DOWN],[LEFT],[RIGHT],[ENTER], push the [ENTER] switch up to 2 second, a pretty menu will be pop-up on your screen.

You may now push [UP] or [DOWN] switch to browse around menu.

Select RETURN and press [RIGHT] or [ENTER] key to exit SUB MENU, and select EXIT and press [RIGHT] or [ENTER] key to exit MAIN MENU.

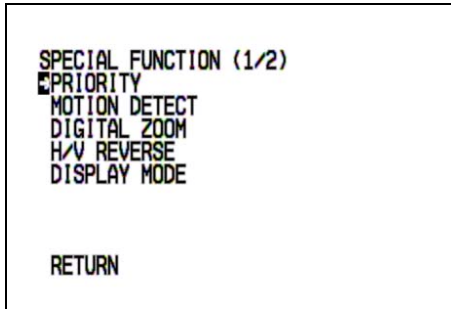
Set the HDV output ON/OFF by turning on the power while pressing [LEFT] key together, and set the SDV output ON/OFF by turning on the power while pressing [DOWN] key together.



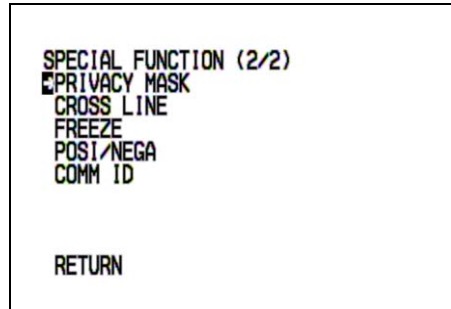
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(Multi-format type)

SPECIAL FUNCTION (1/2)



SPECIAL FUNCTION (2/2)

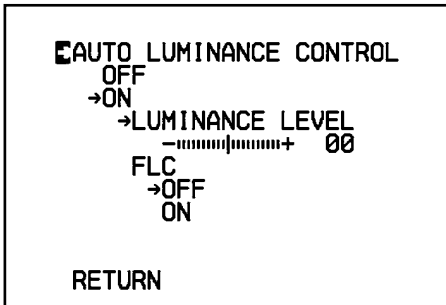


Chooses MENU with [UP],[DOWN] or Choose [ENTER], the SUB MENU will be displayed.

If comes out from each SUB MENU, choose RETURN after [RIGHT] or Choose [ENTER].

If comes out from the Main Menu, choose EXIT after [RIGHT] or Choose [ENTER].

ALC



Move cursor to ALC row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

You can select OFF/ON/FLC mode, select ON mode ALC is turned on, AES will be turned off automatically.

OFF: at the mode AUTO LUMINANCE CONTROL function will be stop.

ON: at the mode can be adjustable ALC level at the standard light setting between -40% to +40%, -40/-35/-30/-25/-20/-15/-10/-5/0/+5/+10/+15/+20/+25/+30/+35/+40 (All 17 levels).

To adjust levels by [LEFT],[RIGHT] and ensure setting by [ENTER].

FLC: flick less mode can be select ON or OFF

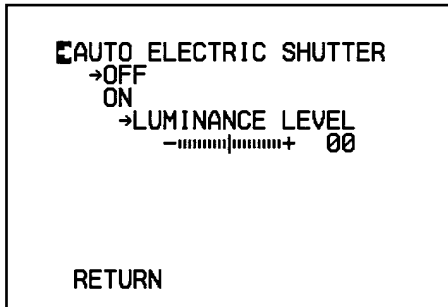
NTSC is at 1/100s and PAL is at 1/120s when FLC is on and the shutter is fixed.

RETURN: Choose RIGHT or ENTER to return to the LUMINANCE MENU1

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(Multi-format type)

AES



Move cursor to AES row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

You can select OFF/ON mode, select ON mode AES is turned on, ALC will be turned off automatically.

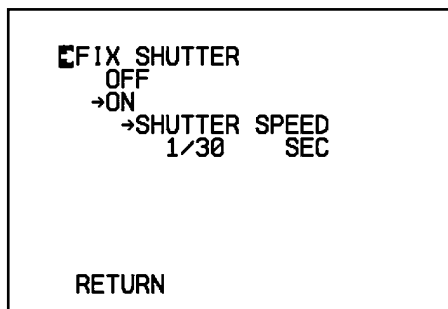
OFF: at the mode AUTO ELECTRIC SHUTTER function will be stop

ON: at the mode can be adjustable AES level at the standard light setting between -40% to +40%, -40/-35/-30/-25/-20/-15/-10/-5/0/+5/+10/+15/+20/+25/+30/+35/+40 (All 17 levels).

To adjust levels by [LEFT],[RIGHT] and ensure setting by [ENTER].

RETURN: Choose RIGHT or ENTER to return to the LUMINANCE MENU1

FIX SHUTTER



Move cursor to FIX SHUTTER row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

You can select OFF/ON mode, select ON mode FIX SHUTTER is turned on, AES will be turned off automatically.

OFF: at the mode FIX SHUTTER function will be stop

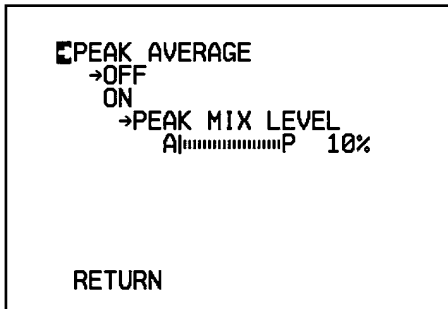
ON: at the mode can be select fix shutter speed, NTSC:1/30~1/10000s, PAL:1/25~1/10000s
 NTSC:1/30,1/50,1/60,1/100,1/120,1/180,1/350,1/500,1/750,1/1000,1/2000,1/4000,1/10000.
 PAL:1/25,1/50,1/60,1/100,1/120,1/180,1/350,1/500,1/750,1/1000,1/2000,1/4000,1/10000.

RETURN: Choose RIGHT or ENTER to return to the LUMINANCE MENU1

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(Multi-format type)

PEAK AVERAGE



Move cursor to PEAK AVERAGE row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

You can select OFF/ON mode, select ON mode PEAK AVERAGE is turned on, BLC and XDR will be turned off automatically

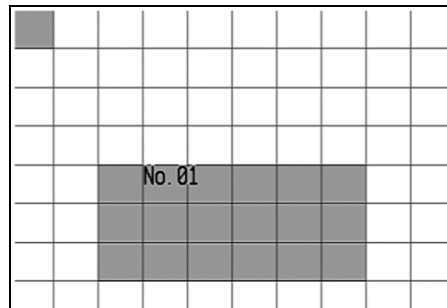
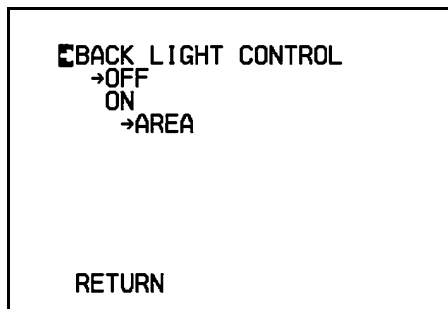
OFF: at the mode PEAK AVERAGE function will be stop.

ON: adjust PEAK ratio when obtain brightness, adjustable range between 10% to 90% all 9 levels.

10% , 20% , 30% , 40% , 50% , 60% , 70% , 80% , 90% all 9 levels.

RETURN: Choose RIGHT or ENTER to return to the LUMINANCE MENU1

BACK LIGHT



Move cursor to BACK LIGHT row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

You can select OFF/ON mode, select ON mode BACK LIGHT is turned on, BLC & PEAK and XDR will be turned off automatically.

OFF: at the mode back light function is stop.

ON: The below AREAs will be shown on the screen. Backlight AREA can be choose and set.

AREA: When SDV display mode=4:3 area 02~ 8D can be select and set, When SDV display mode=FULL area 01~ 8E can be select and set.

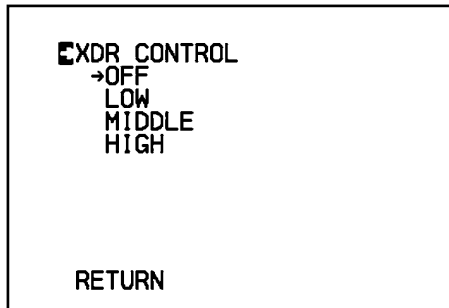
01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E
11	12	13	14	15	16	17	18	19	1A	1B	1C	1D	1E
21	22	23	24	25	26	27	28	29	2A	2B	2C	2D	2E
31	32	33	34	35	36	37	38	39	3A	3B	3C	3D	3E

RETURN: Choose RIGHT or ENTER to return to the LUMINANCE MENU1

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(Multi-format type)

XDR



Move cursor to XDR row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

OFF: If you select OFF mode the XDR function will be stop.

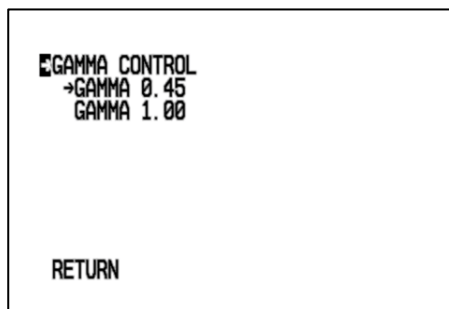
LOW: XDR control is low level at the mode GAMMA function switch to 0.45 automatically.

MIDDLE: XDR control is middle level.

HIGH: XDR control is high level.

RETURN: Choose RIGHT or ENTER to return to the LUMINANCE MENU1

GAMMA



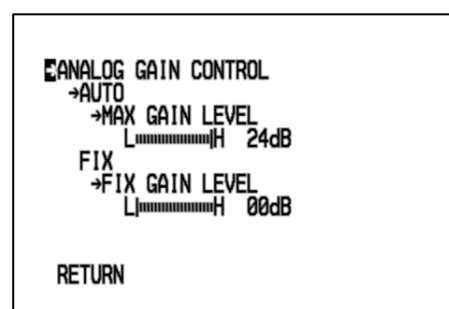
Move cursor to GAMMA row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

Set Gamma control level.0.45/1.00(Total level)

※XDR/FOG/ECLIPSE function are switched to OFF automatically when GAMMA is 1.00.

RETURN: Choose RIGHT or ENTER to return to the LUMINANCE MENU1

AGC



Move cursor to AGC row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

AUTO: Set AGC AUTO the MAX GAIN LEVEL can be set from 0/2/4/6/8/10/12/14/16/18/20/22/24 dB (all 13 levels), To change levels by LEFT/RIGHT and confirm by ENTER.

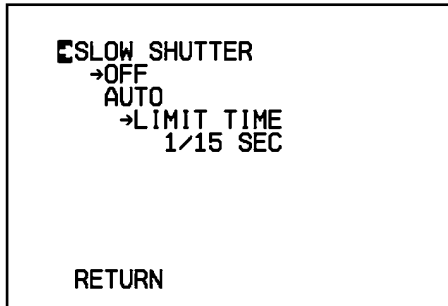
FIX: Set AGC gain is fix, FIX GAIN LEVEL can be set from 0~24dB. 0/2/4/6/8/10/12/14/16/18/20/22/24 dB (all 13levels), To change levels by LEFT/RIGHT and confirm by ENTER.

RETURN: Choose RIGHT or ENTER to return to the LUMINANCE MENU 2.

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(Multi-format type)

SLOW SHUTTER



Move cursor to SLOW SHUTTER row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

OFF: If you select OFF mode the SLOW SHUTTER function will be stop

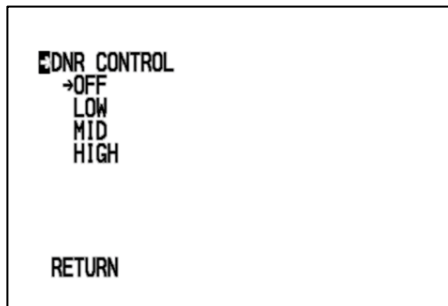
AUTO: Choose LIMIT TIME when SLOW SHUTTER is auto

By NTSC mode from 1/15~8sec. 1/15,1/8,1/4,1/2,1,2,4,8sec. 8 step.

By PAL mode from 1/12~8sec. 1/12,1/6,1/3,1/2,1,2,4,8sec. 8 step.

RETURN: Choose RIGHT or ENTER to return to the LUMINANCE MENU 2.

DNR



Move cursor to DNR row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

OFF: If you select OFF mode the DNR function will be stop.

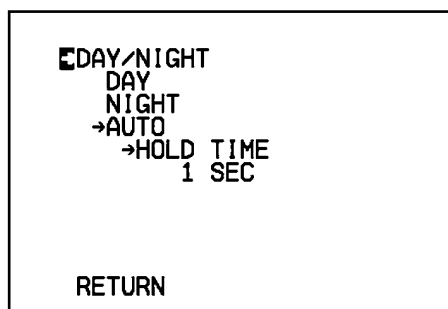
LOW: DNR control is low level.

MID: DNR control is middle level.

HIGH: DNR control is high level.

RETURN: Choose RIGHT or ENTER to return to the LUMINANCE MENU 2.

DAY / NIGHT



Move cursor to DAY/NIGHT row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

DAY: at the mode IR-cut FILTER is fixed.

NIGHT: at the mode IR-cut FILTER is remove.

AUTO: When AGC is up to maximum and the brightness does not reach the standard, IR FILTER will be remove, When AGC down to minimum and the bright will reach standard, IR FILTER will be fixed.

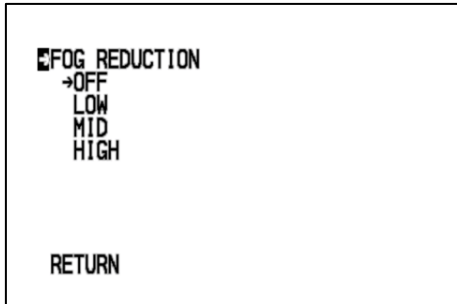
At the AUTO mode IR FILTER control reaction time will be select from 1~ 60sec. 1,5,10,20,30,40,50,60,sec. all 8 step.

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(Multi-format type)

RETURN: Choose RIGHT or ENTER to return to the LUMINANCE MENU 2.

FOG REDUCTION



Move cursor to FOG REDUCTION row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

OFF: If you select OFF mode the FOG REDUCTION function will be stop.

LOW: FOG REDUCTION control is low level.

※ECLIPSE function is switched to OFF automatically when FOG

REDUCTION is ON.

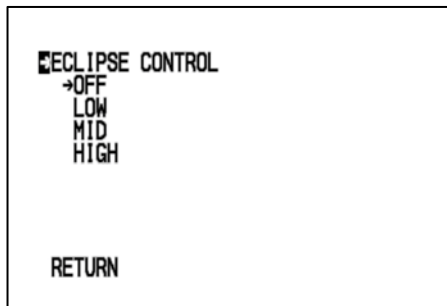
※GAMMA function is switched to 0.45 automatically when FOG REDUCTION is ON.

MID: FOG REDUCTION control is middle level.

HIGH: FOG REDUCTION control is high level.

RETURN: Choose RIGHT or ENTER to return to the LUMINANCE MENU 2.

ECLIPSE



Move cursor to ECLIPSE row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

OFF: If you select OFF mode the ECLIPSE function will be stop.

LOW: ECLIPSE control is low level.

※FOG REDUCTION function are switched to OFF automatically when ECLIPSE control is ON.

※GAMMA function are switched to 0.45 automatically when ECLIPSE control is ON.

MID: ECLIPSE control is middle level.

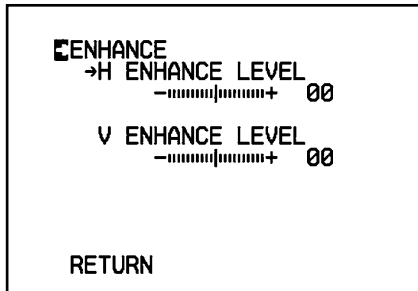
HIGH: ECLIPSE control is high level.

RETURN: Choose RIGHT or ENTER to return to the LUMINANCE MENU 2.

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ENHANCE



Move cursor to ENHANCE row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

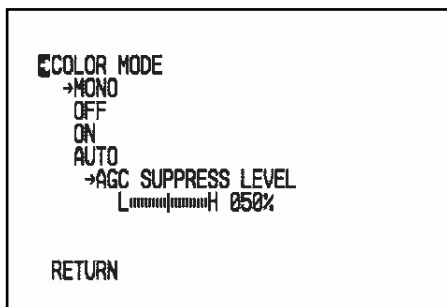
H ENHANCE LEVEL: Set horizontal ENHACE LEVEL between -60 to +60. 0/-50/-40/-30/-20/-10/0/+10/+20/+30/+40/+50/+60 all 13 levels.

To change levels by LEFT/RIGHT, confirm by ENTER.

V ENHANCE LEVEL: Set horizontal ENHACE LEVEL between -60 to +60, 0/-50/-40/-30/-20/-10/0/+10/+20/+30/+40/+50/+60 all 13 levels. To change levels by LEFT/RIGHT, confirm by ENTER.

RETURN: Choose RIGHT or ENTER to return to the LUMINANCE MENU 2.

COLOR MODE



Move cursor to COLOR MODE row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed

MONO: If you select MONO mode the subcarrier will be off, display monochrome image.

OFF: If you select OFF mode the subcarrier will be on, display

monochrome image.

ON: Normal color image is presented, Color mode is fixed, no relation IR filter is removable.

AUTO: at the mode can be control color gain sypress level from 10% ~ 100% all 11 levels, (0/10/20/30/40/50/60/70/80/90/100%)

Choose LEFT/RIGHT to change levels. Choose ENTER to confirm the setting.

RETURN: Choose RIGHT or ENTER to return to the COLOR MENU.

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(Multi-format type)

WHITE BALANCE



Move cursor to WHITE BALANCE row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

ATW: Auto trace white balance at the mode COLOR OFFSET can be adjustable from R40~B40 all 17 steps, R40/R35/R30/R25/R20/R15/R10/R5/ 0/ B5/

B10/B15/B20/B25/B30/B35/B40 (All 17 levels)

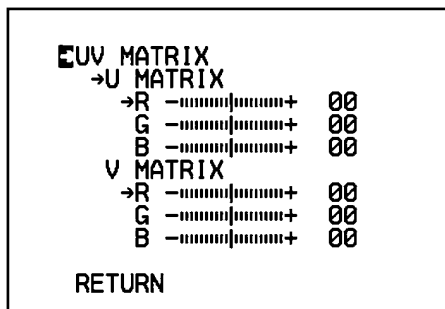
Choose LEFT/RIGHT to change levels. Choose ENTER to confirm the setting.

AWB: It's the one touch white balance and keeps the white balance conditions till resetting, at the mode COLOR OFFSET can be adjustable from R40~B40 all 17steps, R40/R35/R30/R25/R20/R15/R10/R5/ 0/ B5/ B10/B15/B20/B25/B30/B35/B40 (All 17 levels).

Choose LEFT/RIGHT to change levels. Choose ENTER to confirm the setting.

RETURN: Choose RIGHT or ENTER to return to the COLOR MENU.

UV MATRIX



Move cursor to UV MATRIX row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed

U MATRIX: U axis R/G/B color adjustable. R/G/B colors offset adjust from -128 to +127.

V MATRIX: U axis R/G/B color adjustable.

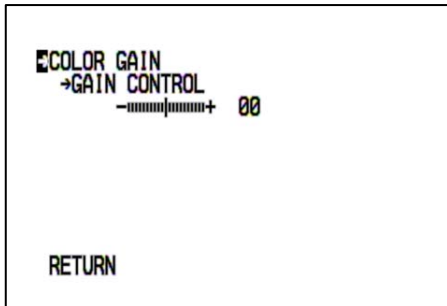
R/G/B colors offset adjust from -128 to +127

RETURN: Choose RIGHT or ENTER to return to the COLOR MENU.

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(Multi-format type)

COLOR GAIN



Move cursor to COLOR GAIN row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed

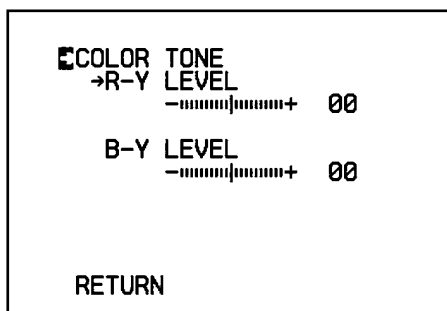
GAIN CONTROL: Offset value setting of color gain from -16 to +16.(Total 33 level)

Select a level with LEFT/ RIGHT key and determine with ENTER

key.

RETURN: Choose RIGHT or ENTER to return to the COLOR MENU.

COLOR TONE



Move cursor to COLOR TONE row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed

R-Y LEVEL: adjustable B-Y LEVEL *offset* data.
-40/-35/-30/-25/-20/-15/-10/-5/0/+5/+10/ +15/
+20/+25/+30/+35/+40/(All have 17 grades)

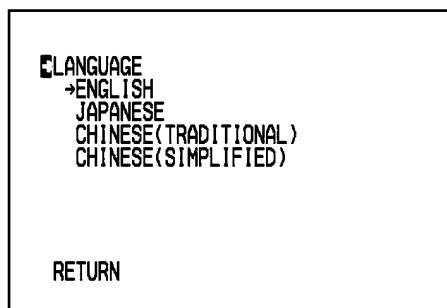
To change grade with LEFT/RIGHT, confirm with ENTER.

B-Y LEVEL: adjustable B-Y LEVEL *offset* data. -40/-35/-30/-25/-20/-15/-10/-5/0/+5/+10/ +15/
+20/+25/+30/+35/+40/(All have 17 grades)

To change grade with LEFT/RIGHT, confirm with ENTER.

RETURN: Choose RIGHT or ENTER to return to the COLOR MENU.

LANGUAGE



Move cursor to LANGUAGE row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed

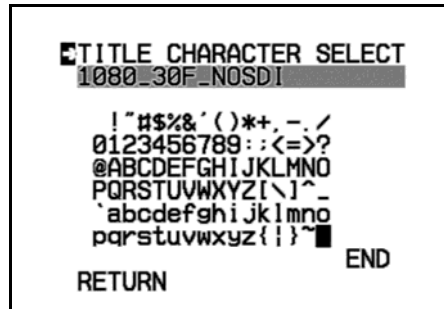
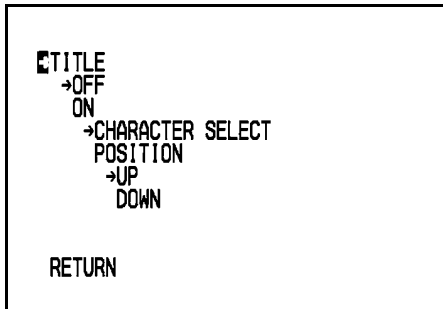
Push ENTER or RIGHT enter to language select, push UP/DOWN select, use LEFT confirm.

RETURN: Choose RIGHT or ENTER to return to the SETUP MENU.

※The specifications and appearance of the product may change without notice.

(Multi-format type)

TITLE



Move cursor to LANGUAGE row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed

OFF: TITLE display is off.

ON: TITLE display is on can be set display character and character display position.

Set the location of characters of cursor, Use ENTER to choose characters.

CHARACTER SELECT:

Choose the writing with UP/DOWN/LEFT/RIGHT. Use ENTER to show in the writing of cursor place

The END place presses ENTER, will come back the writing chooses, and move first menu.

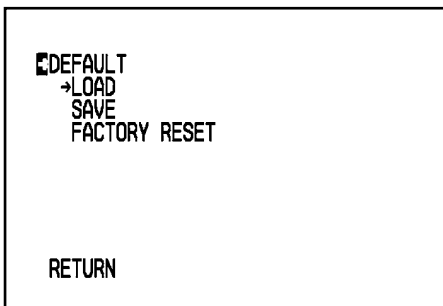
RETURE: Choose ENTER to return to TITLE MENU.

POSITION:

Select display position is UP or DOWN

RETURN: Choose RIGHT or ENTER to return to the SETUP MENU

DEFAULT



Move cursor to LANGUAGE row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

LOAD : Set the camera condition to default.

SAVE : Save the present condition as default.

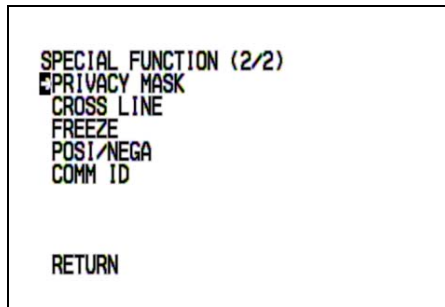
FACTORY RESET : Reset to the factory default.

RETURN: Choose RIGHT or ENTER to return to the SETUP MENU

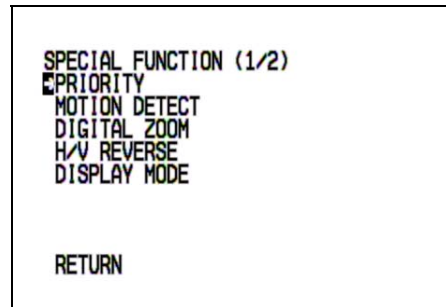
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(Multi-format type)

SPECIAL FUNCTION (1/2)

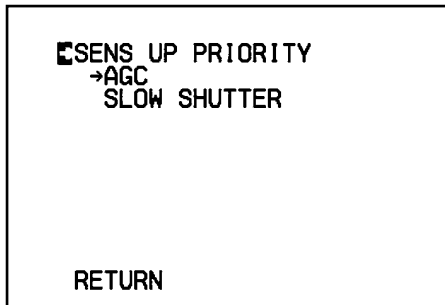


SPECIAL FUNCTION (2/2)



Move cursor to SPECIAL FUNCTION row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

PRIORITY



Move cursor to PRIORITY row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

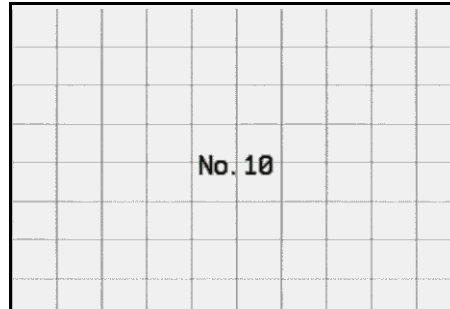
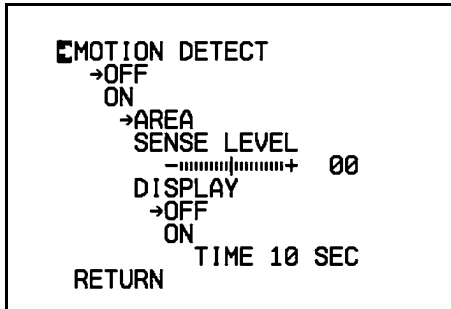
SENS UP PRIORITY: Sens up function control priority select AGC first or SLOW SHUTTER first.

RETURN: Choose RIGHT or ENTER to return to the SPECIAL FUNCTION (1/2).

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(Multi-format type)

MOTION DETECT



Move cursor to MOTION DETECT row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

OFF : Motion detection function will be disable.

ON : Motion detection function will be active.

AREA: When display set to "4:3" mode only area 02~ 8D can be select and set, display mode set to FULL mode all area 01~8E can be select and set.

To exit the area selection screen, move out the cursor to the out of parted area and press ENTER when "END" is displayed.

01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E
11	12	13	14	15	16	17	18	19	1A	1B	1C	1D	1E
21	22	23	24	25	26	27	28	29	2A	2B	2C	2D	2E
31	32	33	34	35	36	37	38	39	3A	3B	3C	3D	3E

SENSE LEVEL: Motion SENSE LEVEL will be set from -40~+40, (-40/-30/-20/-10/-0/+10/+20/+30/+40).

To change grade with LEFT/RIGHT, confirm with ENTER.

DIPLAY: While detect motion, OSD will show ON/OFF.

OFF: While detect motion, OSD display is OFF.

ON: While detect motion, OSD display is ON, After detect motion, OSD will show time will set.

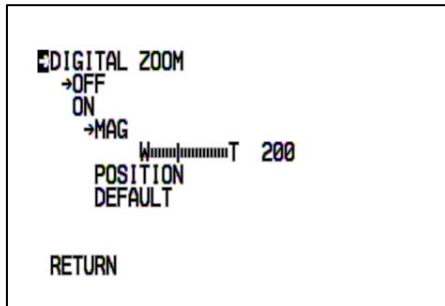
10 is about 10 second, 30 is about 30 second, 60 is about 60 second.

RETURN: Choose RIGHT or ENTER to return to the SPECIAL FUNCTION (1/2).

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(Multi-format type)

DIGITAL ZOOM



Move cursor to DIGITAL ZOOM row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

OFF : Digital zoom function will be disable.

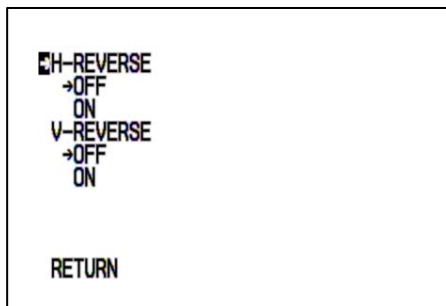
ON : Digital zoom function will be active.

MAG: Digital zoom of the ratio will adjust. 100(W)~400(T), to adjust with LEFT/RIGHT, confirm with ENTER.

POSITION: Digital zoom of image place will set up, to adjust with LEFT/RIGHT/UP/DOWN, confirm with ENTER.

RETURN: Choose RIGHT or ENTER to return to the SPECIAL FUNCTION (1/2).

H / V RENERSE



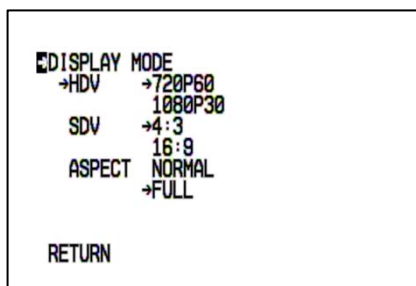
Move cursor to H/V RENERSE row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

H-REVERSE: Reverse the displayed picture to right or left.

V-REVERSE: Reverse the displayed picture to up or down.

RETURN: Choose RIGHT or ENTER to return to the SPECIAL FUNCTION (1/2).

DISPLAY MODE



Move cursor to DISPLAY MODE row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

Set Digital Video output Format.

HDV : (NTSC)Resolution can be selected in either 720P60 or 1080P30.

(PAL) Resolution can be selected in either 720P50 or 1080P25.

SDV : The image can be output as 4:3 or 16:9.

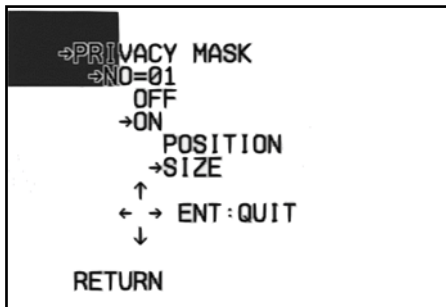
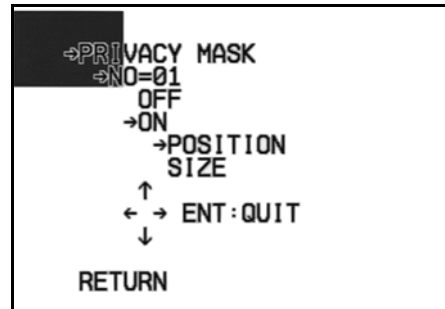
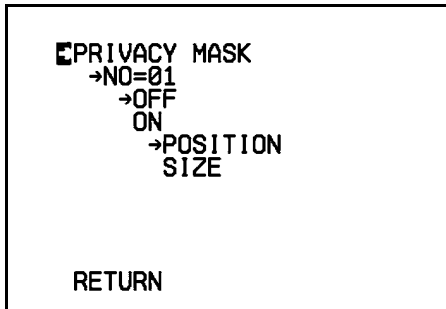
ASPECT : Aspect setting of Analog Video in case of 4:3. The image can be select NORMAL(1:1) or FULL in sensor valid pixel.

RETURN: Choose RIGHT or ENTER to return to the SPECIAL FUNCTION (1/2).

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(Multi-format type)

PRIVACY MASK



Move cursor to PRIVACY MASK row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

MASK number will choose. Maximum can set up 16 masks.

NO=01~16

OFF : Privacy mask function will be disable.

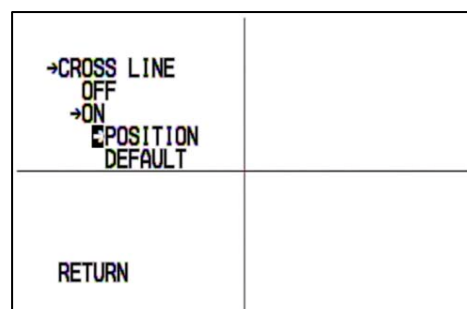
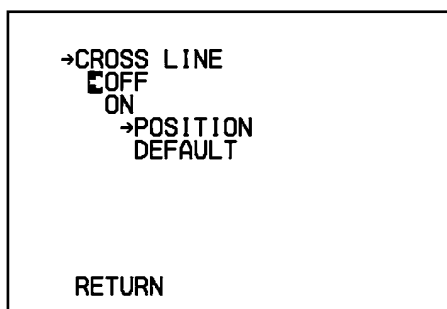
ON : Privacy mask function will be active.

POSITION: MASK of the place will adjust. To choose area with LEFT/RIGHT/UP/DOWN, confirm with ENTER.

SIZE: MASK of the size will adjust. To choose area with LEFT/RIGHT/UP/DOWN, confirm with ENTER.

RETURN: Choose RIGHT or ENTER to return to the SPECIAL FUNCTION (2/2).

CROSS LINE



Move cursor to CROSS LINE row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

OFF: Cross line will be not display.

ON: Cross line will be display.

POSITION: Cross line of the place will adjust. To adjust with LEFT/RIGHT/UP/DOWN, confirm with ENTER.

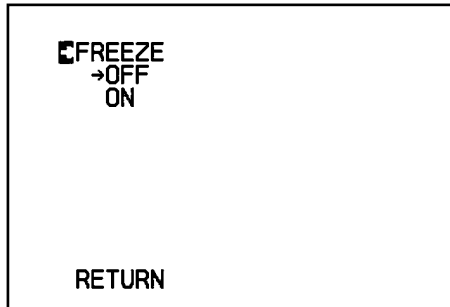
DEFAULT: Cross line set to standard position at the center of full image.

RETURN: Choose RIGHT or ENTER to return to the SPECIAL FUNCTION (2/2).

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(Multi-format type)

FREEZE



Move cursor to FREEZE row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

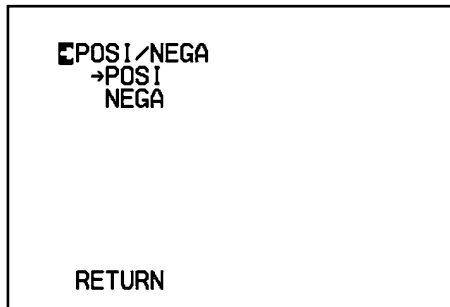
OFF: Display image are normal

ON: Display image are freeze.

RETURN: Choose RIGHT or ENTER to return to the SPECIAL

FUNCTION (2/2).

POSI / NEGA



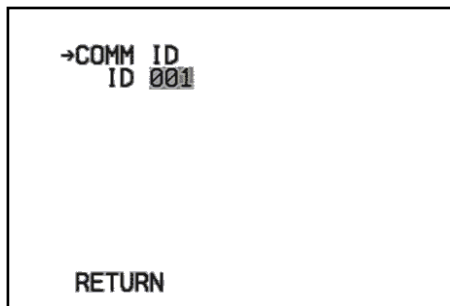
Move cursor to POSI / NEGA row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

POSI: Show positive image

NEGA: Show negative image

RETURN: Choose RIGHT or ENTER to return to the SPECIAL FUNCTION (2/2).

COMM ID



Move cursor to COMM ID row, push [RIGHT] or [ENTER] bottom, the details setting will be displayed.

Set camera ID number of the serial communication of cameras.

Values available between 0 to 127 ID

ID 000 ~ 127

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