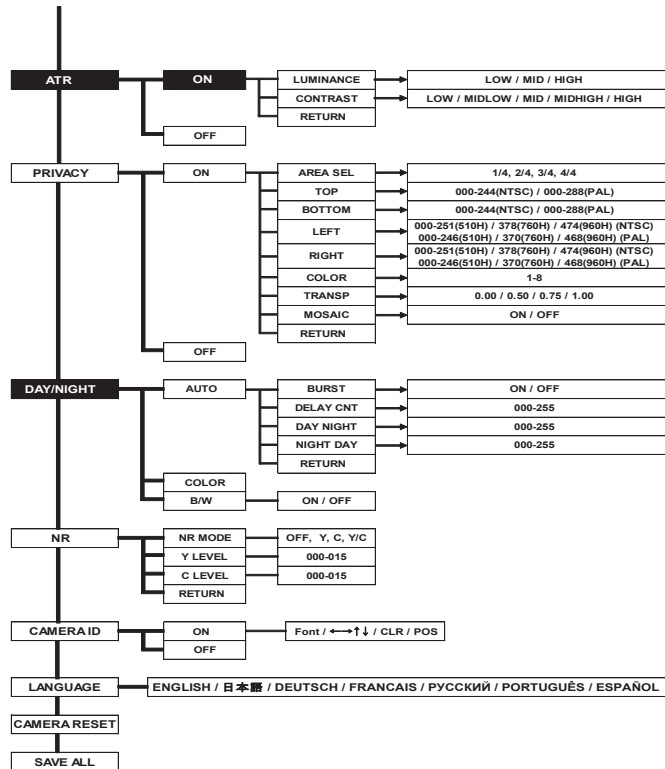
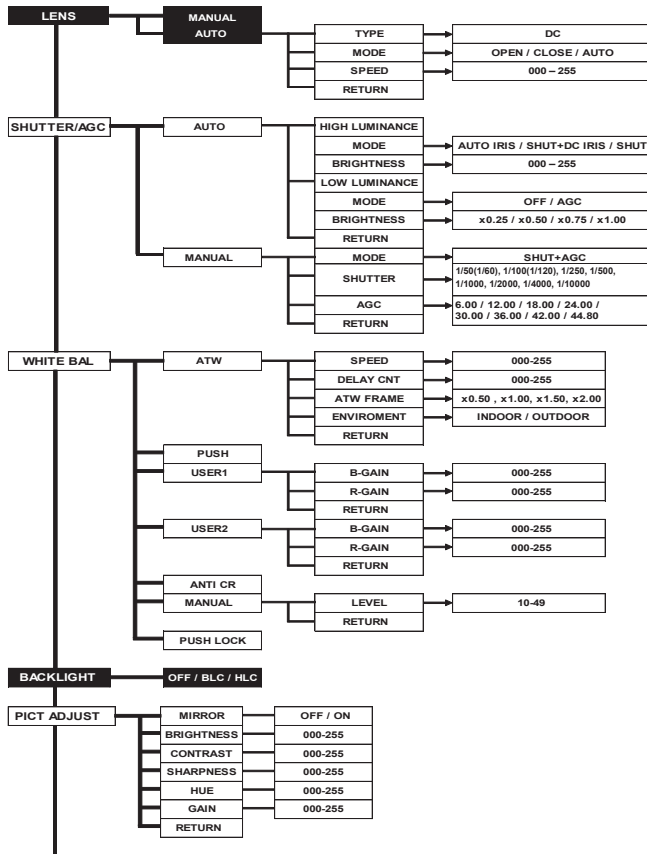


# **OSD Manual**

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**For EFFIO Cameras**

1. MENU Tree



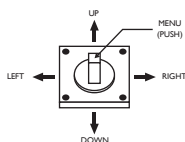
### 2. Setting up the menu

Various Settings can be made depending on the model numbers.  
The configuration is as follows.

- A tactile switch on the unit and RS-485 Interface
- A tactile switch on the unit only
- RS-485 Interface only

1. Press the Tactile switch(SET button) to access the MENU mode.  
The SETUP menu appears on the monitor.
2. Select any function you wish to activate by using the UP/DOWN selections.
  - The cursor can be moved up or down by using the UP/DOWN selections.  
Position the cursor to the function you wish to operate.

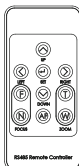
SETUP	MENU
LENS	AUTO
SHUTTER / AGC	AUTO
WHITE BAL	ATW
BACKLIGHT	OFF
PICT ADJUST	
ATR	OFF
NEXT	
EXIT	AVE ALL



#### How to use Tactile Switch on the unit

- Press
  - to enter the menu
  - to save settings
- Push up or down
  - to select functions
- Push left or right
  - to adjust levels

#### How to use OSD Remote Control (Option)



- Set button
  - to enter the menu
  - to save settings
- Up or Down button
  - to select functions
- Left or Right button
  - to adjust levels

Focus/ AF/ Zoom buttons on the packaged controller are not functional with this unit.

3. Change the levels by using the LEFT/RIGHT selections.
  - When you choose the LEFT or RIGHT selection, available values and modes appear in order.

4. When completed, position the cursor to 'SAVE ALL' and press the Tactile switch(SET button) to finish the settings.

- All setting values are not retained if you don't set SAVE ALL when the power is turned off.

5. Select EXIT to finish the control.

#### WARNING

If OSD MENU is unresponsive, exit OSD MENU and try it again. ☞ NOTE

\*If appears on the mode you wish to operate, it means that there is a sub-menu.

### 3. LENS

Select the lens and adjust the SETUP suitable to the type of lens.

#### NOTE

- Lens setup is in Box cameras only.
- Regarding the others, this lens setup is fixed according to the lens specification of the camera.

- IR Cameras have no LENS OSD options, and has only AUTO IRIS mode. You cannot enable manual IRIS mode.
- (Non-IR) Dome/Bullet Cameras have AUTO IRIS or SHUT+AUTO IRIS modes.

#### (1) When DC Iris Lens is used.

- 1-1. Select the lens mode to <AUTO>.
- 1-2. If <MANUAL> is displayed, change the sub-menu to <AUTO>.
- 1-3. Press the Tactile SW(SET button).
- 1.4. TYPE is fixed to <DC>.
  - No VIDEO Iris lens supported.
- 1.5. MODE is composed of OPEN, CLOSE, and AUTO(Default : AUTO).
  - OPEN : Iris opens completely.
  - (When SHUTTER / AGC is set to AUTO)
  - CLOSE : Iris is completely closed.
  - AUTO : Iris is adjusted automatically.
- 1-6. SPEED is activated when MODE is set to AUTO and you can adjust the speed of Iris open/close. (Default : 63)  
If there is blinking when lens is connected, avoid the blinking by adjusting the value of SPEED.
- 1-7. Select RETURN to finish all settings.
- 1-8. Select SAVE ALL to save all settings.
- 1-9. Select EXIT to finish the control.

SETUP	MENU
LENS	AUTO
SHUTTER / AGC	AUTO
WHITE BAL	ATW
BACKLIGHT	OFF
PICT ADJUST	
ATR	OFF
NEXT	
EXIT	AVE ALL

AUTO IRIS	
TYPE	DC
MODE	AUTO
SPEED	63
RETURN	

## Effio OSD: Setup and Programming

(2) When MANUAL Iris Lens is used.

- 2-1. Select the lens mode to MANUAL.
- 2-2. If <AUTO> is displayed, convert the sub-menu to <MANUAL>.
- 2-3. Select SAVE ALL to save all settings.
- 2-4. Select EXIT to finish the control.

### NOTE

This table shows how SUB MENU of SHUTTER / AGC is activated in LENS of MAIN MENU.

When using a DC Iris lens, select AUTO on the menu.

When using a Manual Iris lens, select MANUAL on the menu.

Please refer to 4. SHUTTER/AGC.

SETUP MENU	
LENS	MANUAL
SHUTTER / AGC	AUTO
WHITE BAL	ATW
BACKLIGHT	OFF
PICT ADJUST	
ATR	OFF
NEXT	
EXIT	AVE ALL

LENS	SHUTTER / AGC	
AUTO	AUTO	AUTO IRIS SHUT + AUTO IRIS
	MANUAL	SHUT + AGC
MANUAL	AUTO	SHUT
	MANUAL	SHUT + AGC

## 4. SHUTTER / AGC (Condition and Speed control / automatic gain control)

1. It is selectable to AUTO or MANUAL control.
2. Position the cursor to 'SHUTTER / AGC' by using the UP/DOWN selections.
3. Select the SHUTTER / AGC mode by using the LEFT or RIGHT selection.

### NOTE

Shutter/AGC options are different depending on whether it's a Box Camera, IR camera or Non-IR Dome/Bullet camera. See LENS note in previous section.

#### (1) Lens(AUTO) – Shutter/AGC(AUTO)

This mode is optimized when using a DC Iris lens.

- 1-1. Set LENS to AUTO in SETUP MENU.
- 1-2. After setting SHUTTER / AGC to AUTO, press the Tactile switch (SET button).
- 1-3. AUTO SETUP MENU appears.
- 1-4. There are MODE and BRIGHTNESS in HIGH LUMINANCE which is a sub-menu of AUTO SETUP.
  - SHUT+AUTO IRIS : AUTO IRIS function is working normally and shutter speed is adjusted in 1/50 ~ 1/10,000 sec./50Hz and 1/60 ~ 1/10,000 sec. automatically. ( Default : 35 )
  - AUTO IRIS : AUTO IRIS function is working normally and shutter speed is fixed to 1/50 sec./50Hz and 1/60 sec./60Hz
- 1-5. Position the cursor to BRIGHTNESS on HIGH LUMINANCE.
  - This adjustment combines changes to GAIN, ATR, WHITE BALANCE, ANTI CR as well as brightness.

SETUP MENU	
LENS	AUTO
SHUTTER / AGC	AUTO
WHITE BAL	ATW
BACKLIGHT	OFF
PICT ADJUST	
ATR	OFF
NEXT	
EXIT	SAVE ALL

AUTO SETUP	
HIGH LUMINANCE	SHUT+AUTO IRIS
MODE	35
BRIGHTNESS	
LOW LUMINANCE	
MODE	AGC
BRIGHTNESS	X 0.50
RETURN	

AUTO SETUP	
HIGH LUMINANCE	SHUT+AUTO IRIS
MODE	35
BRIGHTNESS	
LOW LUMINANCE	
MODE	AGC
BRIGHTNESS	X 0.50
RETURN	

## Effio OSD: Setup and Programming

1-6. There are MODE and BRIGHTNESS in LOW LUMINANCE.

AGC and OFF are selectable in MODE. (Default : AGC)  
BRIGHTNESS is selectable in x0.25, x0.50, x0.75, x1.00. (Default : x0.50)  
In MODE,

- AGC : AGC is set to ON
- OFF : AGC is set to OFF

BRIGHTNESS is activated when you select AGC and 4 step magnification of BRIGHTNESS helps to adjust the brightness on the screen under the low light condition.

- 1-7. Select RETURN to finish all settings.
- 1-8. Select SAVE ALL to save all settings.
- 1-9. Select EXIT to finish the control.

#### (2) Lens(AUTO/ MANUAL) – Shutter/AGC(Manual)

In case that you want to set the value of SHUTTER and AGC by yourself, these values are reflected regardless of the selected Iris modes of lens.

- 2-1. Regardless of lens modes, select MANUAL in SHUTTER/AGC.
- 2-2. MANUAL SETUP pops up.
- 2-3. There are MODE, SHUTTER, AGC in MANUAL SETUP.
  - MODE is always fixed to SHUT+AGC.
  - SHUTTER : It is selectable to 1/50(1/60), 1/100(1/120), 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000.
  - 50Hz : 1/50, 1/100 (Default : 1/50)
  - 60Hz : 1/60, 1/120 (Default : 1/60)
  - AGC : AGC value is selectable in 6.00 /12.00 /18.00 /24.00 /30.00 / 36.00 /42.00 /44.80 when SHUTTER/AGC is set to MANUAL.
  - If the value is increased, the low light performance gets better but noise gets up. (Default : 6.00)
- 2-4. Select RETURN to finish all settings.
- 2-5. Select SAVE ALL to all settings.
- 2-6. Select EXIT to finish the control.

#### (3) Lens(MANUAL) – Shutter/AGC(AUTO)

This mode is for Box Cameras with Manual Iris lens only.

- 3-1. Set LENS to MANUAL in SETUP MENU.
- 3-2. After setting SHUTTER/AGC to AUTO, press the Tactile switch (SET button).
- 3-3. AUTO SETUP pops up.
- 3-4. There are MODE and BRIGHTNESS in HIGH LUMINANCE which is a sub-menu of AUTO SETUP. MODE is fixed to SHUT.
  - SHUT : SHUTTER SPEED is adjusted in 1/50 ~ 1/10,000 sec./50Hz and 1/60 ~ 1/10,000 sec./60Hz automatically.
- 3-5. Position BRIGHTNESS which is a sub-menu of AUTO SETUP.

AUTO SETUP	
HIGH LUMINANCE	SHUT+AUTO IRIS
MODE	35
BRIGHTNESS	
LOW LUMINANCE	
MODE	AGC
BRIGHTNESS	X 0.50
RETURN	

SETUP MENU	
LENS	AUTO
SHUTTER / AGC	MANUAL
WHITE BAL	ATW
BACKLIGHT	OFF
PICT ADJUST	
ATR	OFF
NEXT	
EXIT	SAVE ALL

MANUAL SETUP	
MODE	SHUT+AGC
SHUTTER	1/60
AGC	6.00
RETURN	

SETUP MENU	
LENS	MANUAL
SHUTTER / AGC	AUTO
WHITE BAL	ATW
BACKLIGHT	OFF
PICT ADJUST	
ATR	OFF
NEXT	
EXIT	SAVE ALL

## Effio OSD: Setup and Programming

This function makes changing the value of GAIN, ATR, WHITE BALANCE, ANTI CR internally as well as the brightness of the screen simply.

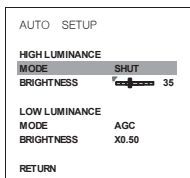
### 3-6. There are MODE and BRIGHTNESS in LOW LUMINANCE.

It is selectable to AGC or OFF in MODE. (Default : AGC)  
BRIGHTNESS is selectable in x0.25, x0.50, x0.75, x1.00. (Default : x0.50) In MODE,

- AGC : AGC is set to ON
- OFF : AGC is set to OFF

BRIGHTNESS is activated when you select AGC and 4 step magnification of BRIGHTNESS helps to adjust the brightness on the screen under the low light condition.

- 3-7. Select RETURN to finish all settings.
- 3-8. Select SAVE ALL to save all settings.
- 3-9. Select EXIT to finish the control.



## 5. WHITE BAL (White Balance Control)

It offers an extensive range of color temperature control that covers from 1,800°K ~ 10,500°K, generating a natural color image without being too red or blue in varying light conditions.

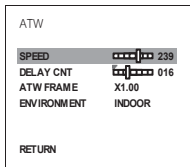
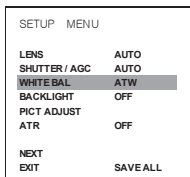
It is selectable to ATW, PUSH, USER1, USER2, ANTI CR, MANUAL, and PUSH LOCK.

1. Position the cursor to 'WHITE BAL' by using the UP/DOWN selections.
2. Please select the 'WHITE BAL' mode by using the LEFT or RIGHT selection.  
Please select one of 7 modes as below.

### (1) ATW (Auto Tracking White Balance)

This mode is generally used, and is by default. It is suitable for viewing a scene with one or more colors mixed on the background.

- 1-1. Set WHITE BAL to ATW.
- 1-2. ATW pops up.
- 1-3. SPEED : Set up the speed of searching for White Balance in 0~255 when the Color Temperature is changed. ( Default : 239 )
- 1-4. DELAY CNT : If the Color Temperature is changed, it sets up the delay time to search for White Balance in 0~255. ( Default : 016 )
- 1-5. ATW FRAME : X5.0, X1.0, X1.5, X2.0  
Set-up range of ATW is adjustable by increasing or decreasing Color Temperature. ( Default : X1.0 )
- 1-6. ENVIRONMENT : INDOOR / OUTDOOR ( Default : INDOOR )
  - INDOOR : When the unit is installed Indoor, ATW is Low Color Temperature (warm).
  - OUTDOOR : When the unit is installed Outdoor, ATW is High Color Temperature(cool).



## Effio OSD: Setup and Programming

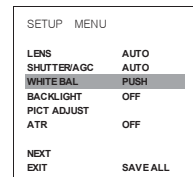
- 1-7. Select RETURN to finish all settings.
- 1-8. Select SAVE ALL to save all settings.
- 1-9. Select EXIT to finish the control.

### (2) PUSH

It is suitable when the subject's background is in high color temperature. (Ex. Clear sky, Sunset etc.)

※ PUSH is different with PUSH LOCK. Refer to 5. (7) PUSH LOCK.

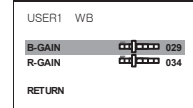
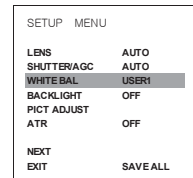
- 1-1. Set up PUSH on WHITE BAL of SETUP MENU.
- 1-2. Select SAVE ALL to save all settings.
- 1-3. Select EXIT to finish the control.



### (3) USER1

This mode is used to fix GAIN under Outdoor use.

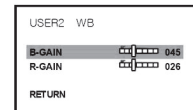
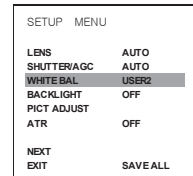
- 1-1. USER 1 appears when you indicate USER 1 on WHITE BAL of SETUP MENU. SUB-MENU is activated when the Tactile SW(SET button) is pressed.
- 1-2. In USER1, B-GAIN and R-GAIN are adjustable.
  - B-GAIN : It adjusts White Balance of BLUE. ( Default : 029 )
  - R-GAIN : It adjusts White Balance of RED. ( Default : 034 )
- 1-3. Select RETURN to finish all settings.
- 1-4. Select SAVE ALL to save all settings.
- 1-5. Select EXIT to finish the control.



### (4) USER2

This mode is used to fix GAIN under the fluorescent lighting.

- 1-1. USER 2 appears when you indicate USER 2 on WHITE BAL of SETUP MENU. SUB-MENU is activated when the Tactile SW(SET button) is pressed.
- 1-2. In USER2, B-GAIN and R-GAIN are adjustable.
  - B-GAIN : It adjusts White Balance of BLUE. ( Default : 045 )
  - R-GAIN : It adjusts White Balance of RED. ( Default : 026 )
- 1-3. Select RETURN to finish all settings.



## Effio OSD: Setup and Programming

### (5) ANTI CR (COLOR ROLLING SUPPRESSION)

It synchronizes the frequency of the fluorescent lighting and frequency of the image sensor so that it suppresses Color Rolling Effect.

- 1-1. Set up ANTI CR on WHITE BAL of SETUP MENU.
- 1-2. Select SAVE ALL to save all settings.
- 1-3. Select EXIT to finish the control.

SETUP MENU	
LENS	AUTO
SHUTTER/AGC	AUTO
WHITE BAL	ANTI CR
BACKLIGHT	OFF
PICT ADJUST	
ATR	OFF
NEXT	
EXIT	SAVE ALL

### (6) MANUAL (Manual White Balance)

White Balance Level is adjusted by increasing or decreasing White Balance Gain manually.

The adjustable range is in 1800°K ~ 10500°K.

- 1-1. MANUAL WD appears when you indicate MANUAL on WHITE BAL of SETUP MENU. The SUB-MENU is activated when the Tactile SW (SET button) is pressed.
- 1-2. LEVEL on MANUAL WB is adjustable.
  - LEVEL : LEVEL combined value of B Gain and R gain can be increased or decreased. ( Default : 058 )
- 1-3. Select RETURN to finish all settings.
- 1-4. Select SAVE ALL to save all settings.
- 1-5. Select EXIT to finish the control.

SETUP MENU	
LENS	AUTO
SHUTTER/AGC	AUTO
WHITE BAL	MANUAL
BACKLIGHT	OFF
PICT ADJUST	
ATR	OFF
NEXT	
EXIT	SAVE ALL

MANUAL WB	
LEVEL	000000 062
RETURN	

### (7) PUSH LOCK(HOLD)

This mode is used to fix the WHITE BAL when Color Temperature is consistent. It keeps the initial setup value even if Color Temperature of Subject is changes.

- 1-1. Set up PUSH LOCK on WHITE BAL of SETUP MENU.
- 1-2. After positioning the cursor to PUSH LOCK, fix the Color Temperature by Pressing the Tactile SW(SET button).
- 1-3. Select SAVE ALL to save all settings.
- 1-4. Select EXIT to finish the control.

SETUP MENU	
LENS	AUTO
SHUTTER/AGC	AUTO
WHITE BAL	PUSH LOCK
BACKLIGHT	OFF
PICT ADJUST	
ATR	OFF
NEXT	
EXIT	SAVE ALL

## Effio OSD: Setup and Programming

### 6. BACKLIGHT (Backlight compensation)

This function is used to set the backlight compensation. OFF, BLC,HLC control can be selectable.

1. Position the cursor to 'BACKLIGHT' by using the UP/DOWN selections.
2. Select the 'BACKLIGHT' mode by using the LEFT or RIGHT selection. There are 3 modes. ( Default : OFF )

#### (1) OFF

This mode turns BACK LIGHT Off.

- 1-1. Set up OFF on BACK LIGHT of SETUP MENU.
- 1-2. Select SAVE ALL to save all settings.
- 1-3. Select EXIT to finish the control.

SETUP MENU	
LENS	AUTO
SHUTTER/AGC	AUTO
WHITE BAL	ATW
BACKLIGHT	OFF
PICT ADJUST	
ATR	OFF
NEXT	
EXIT	SAVE ALL

#### (2) BLC (Back Light Compensation)

This mode boosts overall brightness level to bring out details when there is a strong backlight behind the subject.

- 1-1. Set up BLC on BACK LIGHT of SETUP MENU.
- 1-2. Select SAVE ALL to save all settings.
- 1-3. Select EXIT to finish the control.

SETUP MENU	
LENS	AUTO
SHUTTER/AGC	AUTO
WHITE BAL	ATW
BACKLIGHT	BLC
PICT ADJUST	
ATR	OFF
NEXT	
EXIT	SAVE ALL

#### (3) HLC (HIGH Light Compensation)

This mode is used to view the details of subject by masking the strong light source. It helps to view car license plates more clearly.

- 1-1. Set up HLC on BACK LIGHT of SETUP MENU.
- 1-2. Select SAVE ALL to save all settings.
- 1-3. Select EXIT to finish the control.

#### NOTE

Backlight setup is excluded in IR LED cameras.  
Backlight is fixed to Off in Color and On in B/W in the IR LED cameras.

SETUP MENU	
LENS	AUTO
SHUTTER/AGC	AUTO
WHITE BAL	ATW
BACKLIGHT	HLC
PICT ADJUST	
ATR	OFF
NEXT	
EXIT	SAVE ALL

### 7. PICT ADJUST (Picture Adjustment)

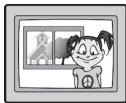
Selectable MIRROR, BRIGHTNESS, CONTRAST, SHARPNESS, HUE, and GAIN control.

1. Position the cursor to 'PICT ADJUST' by using the UP/DOWN selections.
2. Select the 'PICT ADJUST' mode by using the Tactile SW(SET button).

#### (1) MIRROR

You can flip the picture horizontally on the screen.

- 1-1. If you select PICT ADJUST on SETUP MENU, SUB MENU pops up.
- 1-2. Select MIRROR on PICT ADJUST of SUB MENU.
- MIRROR : ON - Set a horizontal image inversion.
- OFF - Cancel the inversion. ( Default : OFF )



MIRROR ON



MIRROR OFF

- 1-3. Select RETURN to finish all settings.
- 1-4. Select SAVE ALL to save all settings.
- 1-5. Select EXIT to finish the control.

#### (2) BRIGHTNESS

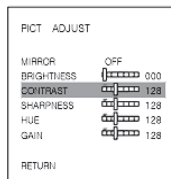
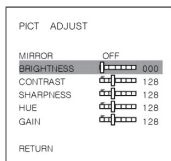
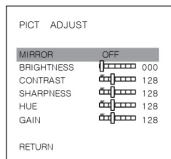
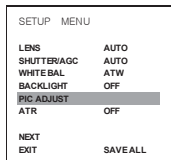
You can adjust the brightness on the screen.

- 1-1. If you select PICT ADJUST on SETUP MENU, SUB MENU pops up.
- 1-2. Select BRIGHTNESS on PICT ADJUST of SUB MENU.
- BRIGHTNESS : It is adjustable in 0 ~ 255. ( Default : 000 )
- 1-3. Select RETURN to finish all settings.
- 1-4. Select SAVE ALL to save all settings.
- 1-5. Select EXIT to finish the control.

#### (3) CONTRAST

Contrast is the relative difference between the brightest area and the darkest area on the screen.

- 1-1. If you select PICT ADJUST on SETUP MENU, SUB MENU pops up.
- 1-2. Select CONTRAST on PICT ADJUST of SUB MENU.
- CONTRAST : It is adjustable in 0 ~ 255. ( Default : 128 )
- 1-3. Select RETURN to finish all settings.
- 1-4. Select SAVE ALL to save all settings.
- 1-5. Select EXIT to finish the control.



#### (4) SHARPNESS

The outline of video image becomes sharper and more distinctive as the level of SHARPNESS increases. If the level goes up excessively, it may generate noise and visual artifacts in the picture.

- 1-1. If you select PICT ADJUST on SETUP MENU, SUB MENU pops up.
- 1-2. Select SHARPNESS on PICT ADJUST of SUB MENU.
- SHARPNESS : It is adjustable in 0 ~ 255. ( Default : 128 )
- 1-3. Select RETURN to finish all settings.
- 1-4. Select SAVE ALL to save all settings.
- 1-5. Select EXIT to finish the control.

#### (5) HUE

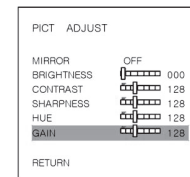
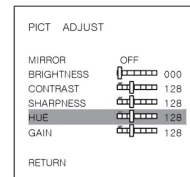
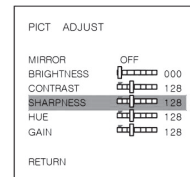
This mode is used to adjust color balance on the screen.

- 1-1. If you select PICT ADJUST on SETUP MENU, SUB MENU pops up.
- 1-2. Select HUE on PICT ADJUST of SUB MENU.
- HUE : It is adjustable in 0 ~ 255. ( Default : 128 )
- 1-3. Select RETURN to finish all settings.
- 1-4. Select SAVE ALL to save all settings.
- 1-5. Select EXIT to finish the control.

#### (6) GAIN

This controls the color intensity; when you increase GAIN, colors become more vivid.

- 1-1. If you select PICT ADJUST on SETUP MENU, SUB MENU pops up.
- 1-2. Select GAIN on PICT ADJUST of SUB MENU.
- GAIN : It is adjustable in 0 ~ 255. ( Default : 128 )
- 1-3. Select RETURN to finish all settings.
- 1-4. Select SAVE ALL to save all settings.
- 1-5. Select EXIT to finish the control.



### 8. ATR (Adaptive Tone-curve Reproduction)

Pixel-to-pixel based tone-curve correction optimizes the contrast of image similar to WDR.

In case that low and high luminance ranges exist on the screen at the same time, ATR mode makes low luminance area brighter and high luminance area darker to optimize clarity.

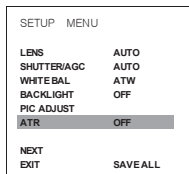
You can select ON or OFF on SETUP MENU.

1. Position the cursor to 'ATR' by using the UP/DOWN selections.
2. Select ON or OFF of 'ATR' mode by using LEFT/RIGHT selections.

ON : ATR function is activated.

OFF: ATR function is inactivated. ( Default : OFF )

3. SUB MENU of ATR pops up when ATR is set to ON and the Tactile SW(SET button) is pressed.



4. There are LUMINANCE and CONTRAST in SUB MENU.

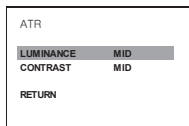
- LUMINANCE : LOW, MID, HIGH ( Default : MID )

With using brightness, it improves visibility of the bright areas .

- CONTRAST : LOW, MIDLOW, MID, MIDHIGH, HIGH. ( Default : MID )

With using AGC, it improves visibility of the dark area.

5. Select RETURN to finish all settings.
6. Select SAVE ALL to save all settings.
7. Select EXIT to finish the control.



#### NOTE

ART setup is excluded in IR LED cameras.

ART is fixed to Off in Color and On in B/W in the IR LED cameras.

### 9. PRIVACY (Privacy Masking)

When the unit is observing a wide area, select areas can be masked for privacy purposes. You can easily configure the size and the position of the required privacy zones.

You can select ON or OFF on SETUP MENU.

1. Position the arrow to 'PRIVACY' by using the UP/DOWN selections.
2. Select ON or OFF of 'PRIVACY' mode by using the LEFT or RIGHT selection.

- ON : PRIVACY function is activated.

- OFF: PRIVACY function is in activated. ( Default : OFF )

3. 4 Areas pop up when PRIVACY is set to ON.

SUB MENU pops up when Tactile SW(SET button) is pressed.

4. There are 8 categories on PRIVACY of SUB MENU.

- AREA SEL : 1/4, 2/4, 3/4, and 4/4.

- TOP : You can adjust the location of the masking upward in below levels.

NTSC : 0-244, PAL : 0-288

- BOTTOM : You can adjust the location of the masking

downward in below levels.

NTSC : 0-244, PAL : 0-288

- LEFT : You can adjust the location of masking to the left side in below levels.

NTSC : 000-474(960H)

PAL : 000- 468(960H)

- RIGHT : You can adjust the location of masking to the right side in below levels.

NTSC : 000-474(960H)

PAL : 000-468(960H)

※ There are 4 coordinates of AREA SEL on the screen initially.

If you want to select 1 AREA only, select 1/4 and set 2/4, 3/4 and 4/4 to '0'.

Also, the value should be set to TOP < BOTTOM and LEFT < RIGHT.

- COLOR : It is selectable in 1-8. ( Default : 1 )

1 : RED, 2 : GREEN, 3 : BLUE, 4 : LIGHT GREEN,

5 : LIGHT BLUE, 6 : PURPLE , 7: WHITE, 8 : BLACK

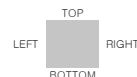
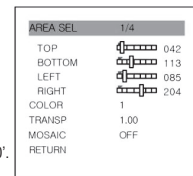
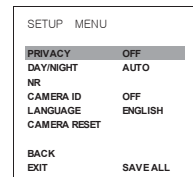
- TRANSP : Color transparency can be set to 0.0, 0.50, 0.75, and 1.00. ( Default : 1.00 )

- MOSAIC : Mosaic setup can be ON or OFF. ( Default : OFF )

5. Select RETURN to finish all settings.

6. Select SAVE ALL to save all settings.

7. Select EXIT to finish the control.





### 10. DAY / NIGHT

It is selectable to Auto, Color, and B/W.

- Position the cursor to 'DAY/NIGHT' by using the UP/DOWN selections.
- Select the 'DAY/NIGHT' mode by using the LEFT or RIGHT selection.  
Please select one of 3 modes as below.

#### (1) AUTO

AUTO mode switches over Color image at daytime and B/W image at nighttime automatically.

- 1-1. DAY/NIGHT MENU as a SUB MENU pops up when you select AUTO and press the Tactile SW(OSD button).
- 1-2. There are BURST, DELAY CNT, DAY ⇒ NIGHT, and NIGHT ⇒ DAY on the SUB MENU of DAY/NIGHT.
  - BURST : It is selectable to ON/OFF. ( Default : OFF )  
ON : It always outputs BURST SIGNAL.  
OFF : No BURST SIGNAL in B/W
  - DELAY CNT : Day/Night switching time is adjustable.  
Value 1 is 1 sec. ( Default : 5 )
  - DAY ⇒ NIGHT : Switching over lux level to NIGHT from DAY.( Default : 3 )
  - NIGHT ⇒ DAY : Switching over lux level to DAY from NIGHT.( Default : 5 )

- 1-3. Select RETURN to finish all settings.
- 1-4. Select SAVE ALL to save all settings.
- 1-5. Select EXIT to finish the control.

#### (2) COLOR

The image is always displayed in color.

- 1-1. Change to COLOR from DAY/NIGHT on SETUP MENU.
- 1-2. Select SAVE ALL to save all settings.
- 1-3. Select EXIT to finish the control.

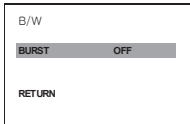
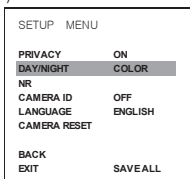
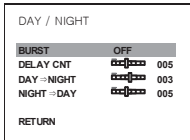
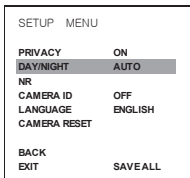
#### (3) B/W(BLACK & WHITE)

This image is always displayed in B/W.

- 1-1. Change to B/W from DAY/NIGHT on SETUP MENU.
- 1-2. There is a BURST in B/W of SUB MENU.
  - BURST : It is selectable to ON/OFF.  
ON : It always outputs BURST SIGNAL.  
OFF : No BURST SIGNAL in B/W.  
This setup is interlocked with 10. DAY/NIGHT (1) AUTO 1.2 BURST.
- 1-3. Select RETURN to finish all settings.
- 1-4. Select SAVE ALL to save all settings.
- 1-5. Select EXIT to finish the control.

#### NOTE

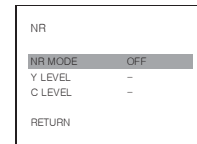
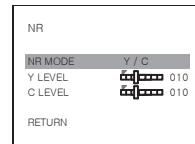
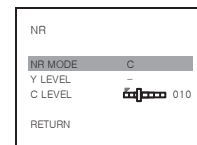
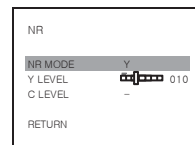
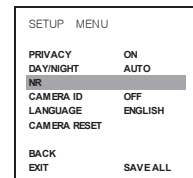
DAY/NIGHT setup is excluded in the Day/Night camera with photo cell(CDS Sensor).



### 11. NR(Noise Reduction)

NR mode decreases noise to enhance the picture quality especially under the low light conditions. Y signal and C signal work separately or together by the settings.

- Position the cursor to 'NR' by using the UP/DOWN selections.
- Select the 'NR' mode by using the Tactile SW(SET button).
- Select one of OFF, Y, C, and Y/C.
  - OFF : N/R MODE is turned off. ( Default : Y/C )
  - Y : If BRIGHTNESS is increased, AGC is decreased and Noise is also decreased. ( Default : 10 )
  - C : CHROMA Noise is decreased. ( Default : 10 )
  - Y/C : Y and C controls are combined.
- Select RETURN to finish all settings.
- Select SAVE ALL to save all settings.
- Select EXIT to finish the control.



### 12. CAMERA ID

1. Position the arrow to 'CAMERA ID' by using the UP/DOWN selections.
2. Please select the 'CAMERA ID' mode by using the LEFT or RIGHT selection.

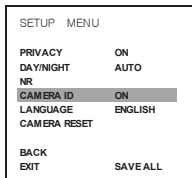
\* If 'OFF' is selected, the ID does not appear on the monitor.

3. Press the Tactile SW(SET button) to complete 'ON'.
4. CAMERA ID can be composed of 52(26 \* 2 Lines) letters.
  - Position the cursor to the letter to choose and press the Tactile SW(SET button).
  - Select an ID from A, B, ~Y, Z, 0, 1, ~ 8, 9, etc. by using the Tactile SW(SET button).
  - CLR : Position the cursor onto the letter which will be cancelled and shift the cursor onto CLR. And then, press the Tactile SW(SET button).
  - POS : It is set to the location of CAMERA ID.
- Position the cursor onto POS and press the Tactile SW(SET button). After moving the location of CAMERA ID by using Left, Light, Up, and Down selections, press the Tactile SW(SET button).

5. Select RETURN to finish all settings.
6. Select SAVE ALL to save all settings.
7. Select EXIT to finish the control.

#### NOTE

It is possible to set up CAMERA ID in the unit individually.  
In case that you use DVR, you can't set up the CAMERA ID to more than 2 cameras simultaneously.



### 13. LANGUAGE

- 7 Languages are selectable. ( Default : ENGLISH )

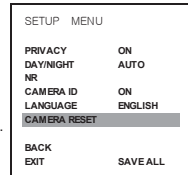
1. Position the cursor to 'LANGUAGE' by using the UP/DOWN selections.
2. Select the 'LANGUAGE' mode by using the LEFT or RIGHT selection and choose one of English, Japanese, German, French, Russian, Portuguese and Spanish.
3. Select SAVE ALL to save all settings.
4. Select EXIT to finish the control.



### 14. CAMERA RESET

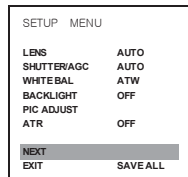
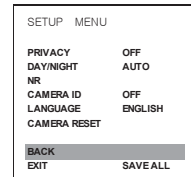
All settings can be restored together to the default settings by using CAMERA RESET.

1. Position the cursor to 'CAMERA RESET' by using the UP/DOWN selections.
2. Select the 'CAMERA RESET' mode by using the Tactile SW(SET button).
3. Select SAVE ALL to save all settings..
4. Select EXIT to finish the control.



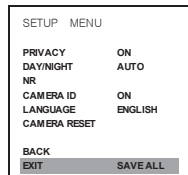
### 15. NEXT OR BACK

When there are NEXT and BACK on the OSD, NEXT turns over the page of OSD menu while BACK turns back the page of OSD menu.



### 16. EXIT

Exit OSD MENU by using the Tactile SW(SET button).



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