

2040 OSD Menu Manual

Menu Functions:

Up
L Menu R
Down

Menu: **Menu options / Return to previous menu**

Up / Down: Up key or Down key, is option keys vertically for menu.

L / R: Left or Right key, is option keys horizontally or revising specification. “ ” is

Return to previous menu, for sub-menu setting.

Main menu:

1. **Lens: Manual lens**
2. **Exposure:**
3. **BLC mode: OFF**
4. **White Balance: Auto white balance**
5. **Day & Night switch: Auto**
6. **Function:**
7. **Image adjust:**
8. **White dot repair**
9. **Language: Chinese**
10. **Reset:**
11. **Return**

Main Menu SONY CCD 600TVL

1. Lens type Manual
2. Exposure
3. Back light mode Off
4. White Balance Auto white balance
5. Day/ Night Sift Auto Shift
6. Function
7. Image adjust
8. White dot repair
9. Language Chinese
10. Reset
11. Quit

A. Lens

There are three lens types, DC (DC drive) lens, VD (Video drive) lens, Manual lens. You can choose the lens according to your needs, press “Left” or “Right” key to choose the lens type.

B. Exposure

Exposure

Electronic shutter: Auto

Image brightness: 0-----255

Auto Gain Control: High

D-WDR: OFF

Return: return

Exposure

Electric Shutter Auto
Image Brightness 0-----255
AGC High
D-WDR Off
Back Back

(1)>Electric shutter

Electric shutter is used to set camera's shutter speed, that is the number of the video output for each second (e.g. 1/50 means this camera can record 25 pcs pictures in 1 second). You can set both low and fast shutter speed on this camera by AUTO, 1/50~1/100000, and FLK, depends on user's need. When the IRIS is on, the default shutter mode is 'AUTO'; when the manual IRIS is on, the default shutter mode is also 'AUTO'.

Remark: We suggest to set the shutter speed higher when the light condition is low to enhance the picture's brightness; when the shooting environment is brighter and object's movement speed is comparatively higher, we suggest to set the shutter speed slower, 1/250 is recommended.

(2) > Image brightness

To set up the image overall brightness, you can adjust from 0~255 according to user's light environment. Default value is 50.
Remark: When 'DC Lens' is selected, this function is unavailable as this is already been set in DC lens menu.

(3) > Automatic gain control (AGC)

4 modes: OFF, LOW, MID, HIGH. This function can enhance picture brightness but also will enhance its noise, please set this

according to your actual need.

Remark: When 'Day/Night shift' set to 'Auto Shift', AGC is fixed value and cannot be set.

(4) > D-WDR

Wide Dynamic Range is to balance the image light when there is different light intensity in one shooting scene, the area with stronger light would overexpose and appears totally white but the area with weaker light would appear dim by underexpose. WDR can digitally reduce exposure in the strong light area and increase the exposure in the dim light area to make the whole picture be as clear as usual.

ON/ OFF. When it is 'ON', user can set from 0-63 according to the environment to make the best shot.

(5) > Back

When finished setting, press 'UP' 'Down' button to 'Back', and use 'L' 'R' button to select 'Back'(means back to previous menu) or 'End' (means quit the setting), and press 'Enter'.

C. Back Light Mode

1. Back light compensation

Press 'L' 'R' key in 'Back Light Mode' menu to select 'Back Light Compensation' and press 'Enter' to enter in 'Back Light Compensation' sub- menu

(1) Select Area. To set back light area, 2 options: Area 1, Area 2

(2) Area display. On

(3) Back light area gain

To set back light area brightness enhancement, from 0-255, default value: 42

(4) Height setting

Back Light Compensation

Select area Area 1

Area display On

Back Light Area Gain 0-255

Brightness 0~15

Set Width 0~15

L/R Adjust 0~15

Up/ Down Adjust 0~15

Back

Press 'L' 'R' to adjust back light compensation area from left to right, from 0-15, default value: 4.

(5) Set Width

Press 'L' 'R' to set back light compensation area's width, base on the left, to set from 0-15, default value: 3

(6) L/R adjust

Press 'L' 'R' to set back light compensation area's up/down, base on the top, to set from 0-15, default value: 3

(7) UP/Down adjust

Press 'L' 'R' to set back light compensation area's up/down, from 0-15, default value: 3

2 Anti exposure

Press 'L' 'R' key in 'Back Light Mode' menu to select 'Anti exposure' and press 'Enter' to enter to 'Anti exposure' sub-menu

(1) Anti exposure

Here to set the sensitivity for anti exposure. When the light is lager or equal to the pre-set value, the light sensor in the camera

Anti Exposure

Value 0-255

Mode All day

Back Back

will turn on the anti-exposure function to make clear image.

From 0-55, default value; 200

Remark: Please set this value according to the actual light condition, we suggest not to turn on this function when the area is without strong light condition.

(2) Mode

Can select All Day / At Night

(3) Back

When finished setting, press 'UP' 'Down' button to 'Back', and use 'L' 'R' button to select 'Back'(means back to previous menu) or 'End' (means quit the setting), and press 'Enter'.

D. White Balance

Use to bring back the actual color of the scene, this is effected by the color temperature. Please set according you need, Auto Track White Balance1/ Auto Track White Balance2/ Auto White Balance/ Manual White Balance
Remark: Normally, Auto Track White Balance1 is enough for most of the users

E. Day/ Night Shift

Day/ Night shift is to provide different mode when user use in day or night scene. 4 Modes: Color mode, B&W mode, External Shift, Auto Mode.

(1) Auto Mode

Press 'L' 'R' key in 'Day/ Night Shift' menu to select 'Auto Mode' and press 'Enter' to enter to 'Auto Mode' sub-menu.

(a) Time-Delay

This is to set the time delay for shifting from color to B&W, or B&W to color mode. The shift between color and B&W is to control by the light sensor of the camera in the scene, when the light brightness is in the critical value, the camera would probably shift from color to B&W constantly, to set a time delay value can avoid this to happen, the camera will only shift mode when it sense the light brightness is satisfied throughout the pre-set time period. This is also for protecting the camera's life and quality. Time-delay value: 0-30 second. Default value: 1 second.

Remark: We suggest to set this value higher in the scene that light brightness is frequently changed, and visa versa.

(b) Day to Night Setting

Auto Mode

Day to Night Setting 0-255

Time-delay 1-30
sec.

Night to Day Setting 0-255

Night to Day Time Delay 1-30

To set the start position when shifting, value: 0-255. Default value:42

(c) Night to Day setting

To set the end position when shifting, value 0-255. Default value:156

Remark: To set a 'Night to Day' and 'Day to Night' value is to avoid the camera shift constantly to make it unusable. Please do

not set the same value for both as this will also makes the camera to shift from color to B&W constantly, 'start position' value should always higher than 'end position' value.

(d) Back

After finishing setting, press 'Up' 'Down' key to move to 'Back', and use 'L' 'R' key to select 'Back' (means back to previous menu) or 'End' (means to quit this setting), and press 'Enter' key to back.

(2) Color mode

Press 'L' 'R' key in 'Day/ Night Shift' menu to select 'Color Mode'. In color mode the camera will forced to execute color mode only.

(3) B&W Mode

Press 'L' 'R' key in 'Day/ Night Shift' menu to select 'B&W Mode'. In B&W mode the camera will forced to execute

B&W mode only.

A. Color synchronized Signal

Set from Off/ On.

B. IR Image Optimize

IR Image Optimize

IR Image Optimize program 0-255

Height 0-15

Width 0-15

L/R Adjust 0-15

Up/ Down Adjust 0-15

Back Back

When the IR light is on and the object is overexposed on the IR light, user can set the value in IR Image Optimize and IR brightness to reduce overexposure.

(4) External Shift

External Shift is to control the color shift by external triggered. For example: External IR lighting, light sensor in the camera to control the shifting to makes it synchronized with the IR light's on and off.

Day/Night Shift B&W

Mode

Color synchronized Signal Off

IR Image Optimize On

IR Brightness High

Back Back

Remark: This function is reserved and not available right now.

F. Function

(1) Camera Title

Press 'L' 'R' key in 'Function Camera title' menu to select 'On', and press 'enter' to enter to camera title setting menu.

(a) > For camera title, user can use number, capital letter, and symbol to set a 15 characters title.

(b) > '← →' is to move from left to right

(c) > 'Clear' is to clear the camera title

(d) > 'Position' is to set the title's position. Click 'up, down, left, Function

1. Camera title Off
2. Motion detection Off
3. Private area Shading Off
4. Car reverse line Off
6. Communication
8. Back Back

Camera title

0 1 2 3 4 5 6 7 8 9

A B C D E F G H I J K

L M N O P Q R S T U V

X Y Z → ← ↑ ↓ ()

— - _ ■ / = & : ~ , . .

← → Clear Position

Quit-----

right' to move title's position, press 'Enter' to back to main menu.

(e) > 'Quit' is to end title setting and back to previous menu

(2) Motion Detection

Press 'L' 'R' key in 'Motion Detection' menu to select 'On', now the motion detection function is on. Then press 'Enter' key to Motion Detection's sub menu.

(A)>Area

Select detect area and set in this area, all 4 areas in total and can only set one area at a time.

(B)> Display Area

To set to activate the motion detection in the selected area, when this is Off, motion detection will not activate in this area, vice versa.

(C)> Height

Press 'L' 'R' to set the area's height, base on the top you can set the bottom's value from 0-100. Default value: 4

Motion Detection

Area Area 1
Display Area On
Height 0-15
Width 0-15
L&R Adjust 0-15
UP&Down Adjust 0-15
Sensitivity 0-255
Motion Detection Track Off
Back Back

(D)> Width

Press 'L' 'R' to set the area's width, base on the left you can set the right's value from 0-100. Default value: 4

(E)> L& R Adjust

Press 'L' 'R' to set the area's left and right position, from 0-15. Default value: 1

(F)> Up & down Adjust

Press 'L' 'R' to set the area's up and down position, from 0-15. Default value: 1

(G)> Sensitivity

To set motion detection's sensitivity, the larger the value, the higher the sensitivity, from 0-255. Default value: 38

(H)> Motion Detection Tracking

When this is ON, the camera will track the moving object by drawing red line on the screen for its movement.

(I)> Back

When finished setting, press 'up' 'down' key to 'Back', and use 'L' 'R' key to select 'Back' (means back to previous menu) or 'End' (means quit the menu) and press 'Enter' to back.

(3) Private Shading

Press 'L' 'R' in 'Private Shading' menu to select 'On' to turn on private shading function. Then press 'Enter' to enter to 'Private shading' sub-menu.

(A)> Area

Select private shading area and set in this area, all 8 areas settable.

(B)> Display Area

When this is Off, private shading will not activate in this area, vice versa.

(C)> Height

Press 'L' 'R' to set the area's height, base on the top you can set the bottom's value from 0-255.

(D)> Width

Press 'L' 'R' to set the area's width, base on the left you can set the bottom's value from 0-255.

(E)> L&R Adjust

Press 'L' 'R' to set the area's left and right position, from 0-155.

Private Shielding

Area Area 1

Display Area Off

Height 0-255

Width 0-255

L&R Adjust 0-255

UP& Down Adjust 0-255

Area color 0-15

Back Back

(F)> UP & Down Adjust

Press 'L' 'R' to set the area's up and down position, from 0-255.

(G)> Area Color

To set shading area's color. Value: 0-15

(H)> Back

When finished setting, press 'up' 'down' key to 'Back', and use 'L' 'R' key to select 'Back' (means back to previous menu) or 'End' (means quit the menu) and press 'Enter' to back.

(4) Reverse Car Line

Press 'L' 'R' key in 'Reverse Car Line' to select 'On' and this function is On, press 'Enter' to enter its setting

To adjust the position and range of car reverse line.

(5) Communication

This camera supports RS485 communication protocol, user can used RS485 controller to control this camera.

Reverse Car Line

Upper Left 75

Lower Left 27

Upper Right 113

Lower left 170

Top 13

Bottom 69

Line width 9

Back Back

(a)> Camera ID

To set camera's address ID to distinguish it from other cameras. This ID is also the exclusive ID for controlling this

camera. Value: 0-255

(b)> Baud Rate

Communication speed, 2400, 4800, 9600, 19200, 38400, 57600 optional

(c)> ID Display

To set to display the camera's ID or not when the camera is turned on. When this is ON, there will be 'CAM.XXX (xxx means camera's ID)' displayed on the upper left side on the screen.

Default: OFF.

(d) > Communication Protocol

PELCO-D, PELCO-P, NEXTCHIP optional.

(e)> Back

When finished setting, press 'up' 'down' key to 'Back', and use 'L' 'R' key to select 'Back' (means back to previous menu) or

Communication

Camera ID 0-255

Baud Rate 2400

Protocol PELCO-D

Display ID Off

ID Position

Back Back

'End' (means quit the menu) and press 'Enter' to back.

(6)> Synchronized Mode

External Synchronize, Internal Synchronized option, by default: Internal Synchronized.

Remark: This camera is now only internal synchronized, external synchronize is reserved and not available now.

(7)> Back

When finished setting, press 'up' 'down' key to 'Back', and use 'L' 'R' key to select 'Back' (means back to previous menu) or 'End' (means quit the menu) and press 'Enter' to back.

G. Image Adjustment

(2) >DEFFECT

(a) Edge Illumination Compensation. This function can increase edge brightness without increasing the overall picture's brightness to make the picture clearer. Press 'L' 'R' key to turn on this function, press 'Enter' to its menu, value from 0-255.

Image Adjustment

Edge Illumination Compensation Off

2DNR On

Mirror Off

Font Color

Contrast 155

Sharpen 24

Display CRT

Negative Off
Back Back

(b) 2DNR, ON/OFF. When this is on, noise could be reduce in low illumination.

(C) Mirror. Press 'L' 'R' to turn on this function. The picture will go horizontal mirror.

(d) Font Color

Press 'L' 'R' key can choose menu's font color from 0-15

(e) Contrast. To adjust image contract, value: 0-255

(f) Sharpen. To adjust the image sharpening, value: 0-31, default value: 24

(g) Display: CRT, LCD, USER optional, please select according to your monitor

(h) Negative. When this is On, the video out put will be negative.

Press 'L' 'R' key to select

(i) Back

When finished setting, press 'up' 'down' key to 'Back', and use 'L' 'R' key to select 'Back' (means back to previous menu) or 'End' (means quit the menu) and press 'Enter' to back.

H. White Dot Repair

Font Color

Font Color 0-15

Camera ID and Title Color 0-15

Back Back

Use when there is bad pixel in the CCD, turn off IRIS first and press 'Enter' key to repair white dot. The camera will repair itself, after it is done, press 'Up' 'Down' key to back to previous menu.

I. Language

Set menu language. 4 languages optional: Simplified

Chinese, Traditional Chinese, Japanese, English. Press 'L' 'R' to select. It takes a few seconds to change the selected language.

J. Reset

Press 'Enter' key to enter to 'Reset' menu, after reset, all setting will resume to factory default.

(a)> Factory Default

Move to 'Factory Default' and press 'Enter', the system will resume to factory default. Please pay attention that when you reset to factory default, color case would happen and this is normal.

(b)> Back

Reset

Factory Default Factory

Default

Back Back

When finished setting, press 'up' 'down' key to 'Back', and use 'L' 'R' key to select 'Back' (means back to previous menu) or 'End' (means quit the menu) and press 'Enter' to back.

K. Quit

When finished setting, press 'up' 'down' key to 'Back', and use 'L' 'R' key to select 'Back' (means back to previous menu) or 'End' (means quit the menu) and press 'Enter' to back.