

FEATURES

- 1/3"Sony DS CCD
- WDR/BLC/ECLPS
- Ultra High Resolution 600TVL
- 3D-DNR
- 6X Digital Zoom
- 8Zone Motion Dection
- Privacy Region Shielded
- O.S.D Menu
- HLC



OSD Menu



Rear View



SPECS

Model No.	KC-CP3160
Power	DC12±10% Max 2.0W
Sensor	1/3 inch Sony DS CCD
Total Pixels	NTSC:811(H)×508(V)
	PAL:795(H)×595(V)
Effective Pixels	NTSC:768(H)×494(V)
	PAL:752(H)×582(V)
Scanning System	2:1 Interlace
Sync. System	Internal/Line lock
O.S.D	Available
Dynamic Range	52dB(×128)
Backlight Compensation	WDR/BLC/OFF selectable
Resolution	Color 600TVL
S/N(Y Singal)	52dB(AGC OFF)
Mini Illumination	Color Model: 0.003(0.6) Lux(Sens-up OFF)
	BW Model: 0.0001(0.1) Lux(Sens-up OFF)
White Balance	ATW/AWC/Manual/Outdoor(1,800°K~10,500°K)Indoor(4,500°K~8,500°K)
Electronic Shutter Speed	NTSC:1/60sec-1/120,000sec PAL:1/50sec-1/120,000sec
Sens-up	Auto/Fixed/Off(selectable limit ×2~×512)
Gain Control	Low/Middle/High/Off selectable
3D-DNR	Off/On(1~63 level adustable)
Motion Dection	On/Off(8Zone, Alarm output)
Privacy	On/Off(8Zone)
Mirror(H-REV)	ON/OFF
FLIP(V-REV)	ON/OFF
Freeze	ON/OFF
SHARPNESS	ON/OFF(Level Adjustable)
D/N Selection	Color/Black&White/Auto/Exit
STABILIZER	ON/OFF
Digital Zoom	On(×6)/Off
Blemish compensation	256 Point(Even 128 point, ODD 128 point)
Iris Contral	DC
Dimension	42(H)×42(V)×1.2(T)mm
Weight	410g

OSD MENU

- On the side OSD control board, push the center "Menu" button, the main menu will show on screen



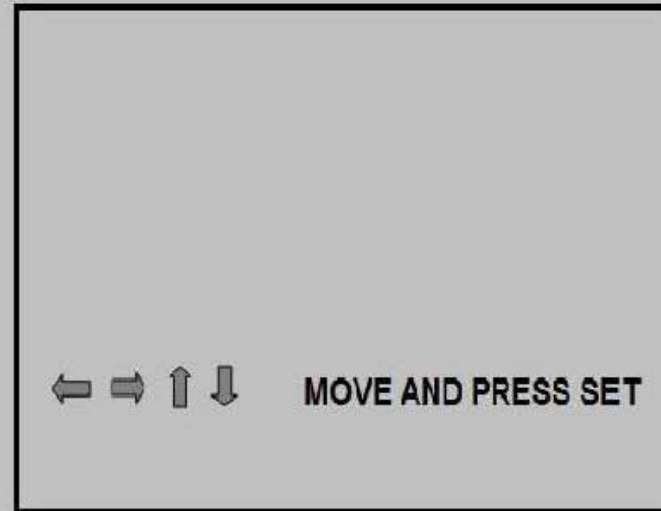
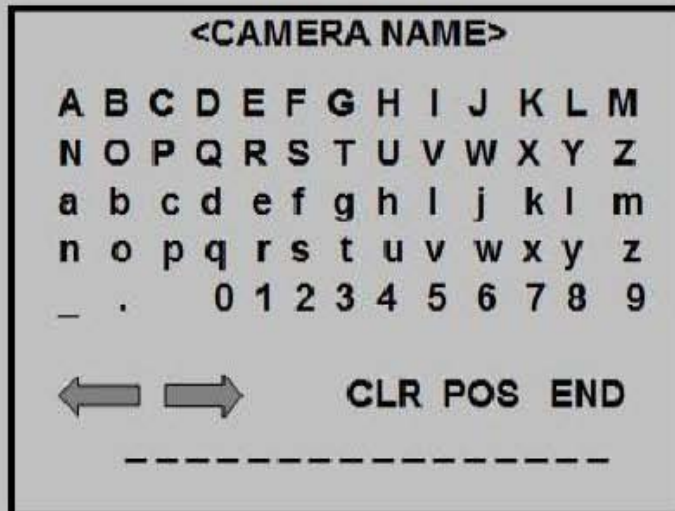
<MAIN MENU>

1. CAM NAME	OFF
2. LENS	DC IRIS
3. EXPOSURE	←
4. DAY/NIGHT	AUTO ←
5. WDR/BLC/ECLPS	WDR ←
6. WHITE BAL	ATW
7. 3D-DNR	ON ←
8. EFFECTS	←
9. SPECIAL	←
0. EXIT	RET ←

You can push "UP" and "DOWN" to browse the main function. And push "MENU" can go to sub-menu and do the setting. Push "LEFT" and "RIGHT" to change the value.

■ 1.CAM NAME

You can name the camera and display the name on screen. Move the cursor to "CAM NAME" and push "RIGHT" to chose from "OFF" to "ON". Then push "MEMU" to Text Editing Region, move cursor to the right letter and push "MENU"



CLR: Clear the chosen letter

POS: The position of letter on screen, push "LEFT" "RIGHT" "UP" "DOWN" button to choose the position

END: End

■ 2. LENS DC IRS/MANUL

<DC IRIS MENU>

BRIGHTNESS Control brightness of lens 50- - - - - | . . .

PREVIOUS 

■ 3. EXPOSURE

<EXPOSURE MENU>

AGC OFF

SHUTTER OFF

SENS-UP OFF

INITIAL SET 

PREVIOUS 

AGC: OFF, LOW, MIDDLE, HIGH

SHUTTER: AUTO, OFF, A,FLK,1/160,1/250, 1/500, 1/700, 1/1000, 1/1600, 1/2000, 1/5000, 1/7000, 1/10000, 1/3000, 1/50000, 1/90000, x512, x256, x128, x64, x32, x24, x16, x14, x12, x10, x8, x6, x5, x4, x3, x2,

SENS-UP: OFF, AUTOX2, AUTOX3, AUTOX4, AUTOX5, AUTOX6, AUTOX8, AUTOX10, AUTOX12, AUTOX14, AUTOX16, AUTOX32,AUTOX64,AUTOX128,AUTOX256,AUTOX512

INITIAL SET:Back to the original settings

PREVIOUS: To previous page

■ 4. DAY/NIGHT

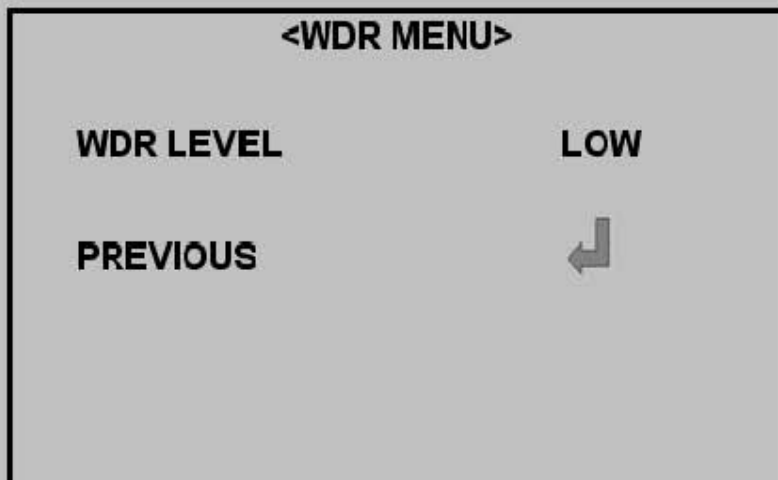
You can choose between COLOR/NIGHT(WHITE&BLACK)/EXT/AUTO. When choose AUTO,below is the sub-menu

<D/N AUTO MENU>	
D/N LEVEL	LOW
FILTER DLY	1SEC
NIGHT BURST	ON
INITIAL SET	↙
PREVIOUS	↙

D/N LEVEL:LOW, MIDDLE, HIGH
FILTER DLY:1SEC,3SEC,5SEC, 10SEC,
15SEC,30SEC, 60SEC
NIGHT BURST: ON/OFF

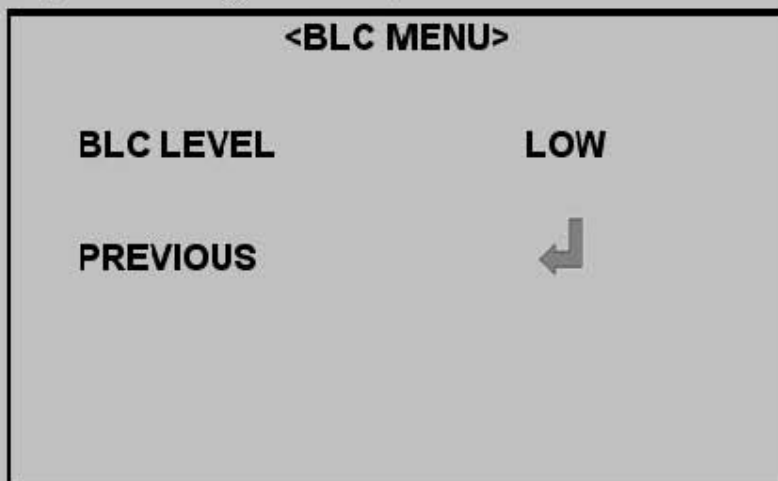
■ 5.WDR/BLC/ECLPS

When the light and shadows exist, with significant differences in the environment, Select WDR mode can amend and clearly show the overall picture, this function applies to the hall, and entrance or when the camera is installed indoor and shoot to outdoor.



WDR LEVEL: LOW, MIDDLE, HIGH, SUPER
PREVIOUS: TO PREVIOUS PAGE

When the object in environment with strong back light. You can choose BLC to increase the brightness of object thus to get a clear picture.



BLC LEVEL: LOW, MIDDLE, HIGH
PREVIOUS: TO PREVIOUS PAGE

ECLPS which blocks out high-bright areas, and enables better visibility of other areas. An example of the eclipse function usage is to recognize the number plates on a vehicle at night, where the headlights are too bright.

<ECLIPSE MENU>

AREA SETTING ↙

ALL AREA SET **OFF**

MASK COLOR **GRAY**

ECLPS LEVEL 1----|----

PREVIOUS ↙

ON	OFF	OFF	OFF
OFF	OFF	OFF	OFF
OFF	OFF	OFF	OFF
OFF	OFF	OFF	OFF

AREA SETTING: 16 areas, you can set according to requirement of actual environment.

ALL AREA SET: ON/OFF

MASK COLOR: GREY, D.GREY, BLACK

ECLPS LEVEL: 1-5

PREVIOUS: To previous page

■ **6.WHITE BLC**
(ATW/COL-ROLL/PUSH)

White balance setting can be adjusted according to the colortemperature of object. At outdoor, the colortemperature is between 2500°K~9500°K, it can use ATW. At indoor, the colortemperature is between 2000°K~20000°K, it can use AWC. User can use MANUAL MENU to set white balance according to actual environment. pls refer below

<WB MANUAL MENU>

COLOR TEMP

INDOOR

RED

0-----|-----

BLUE

0-----|-----

INITIAL SET ↩

PREVIOUS



COLOR TEMP: INDOOR/OUTDOOR

RED: -100~100

BLUE: -100~100

INITIAL SET: Back to the original settings

PREVIOUS: To previous page

■ **7. 3D-DNR**

3D-DNR (3-Dimensional Digital Noise Reduction) function; it operates in both spatially and temporally, while calculating and compensating for motion in the image to minimize ghosts. The result is a superior noise reduction with less motion blurring artifacts even at extreme low-light situations.

<3D-DNR MENU>

LEVEL

50-----|-----

GLOBAL MOVEMENT

ON

PREVIOUS



LEVEL: 0~63

GLOBAL MOVEMENT: ON/OFF

PREVIOUS: To previous page

■ 8. EFFECTS

<EFFECT MENU>

DZOOM MODE	OFF
IMAGE FREEZE	OFF
D-EFFECT	OFF
COLOR	ON
CONTRAST	50----- -----
SHARPNESS	50----- -----
CR GAIN	50----- -----
CB GAIN	50----- -----
INITIAL SET ◀	
PREVIOUS	◀

8-1 DZOOM

<DIGITAL ZOOM MENU>

ZOOM	X1.00 -----
DZOOM PAN	0----- -----
DZOOM TILT	0----- -----
PREVIOUS	◀

ZOOM: X1.00~X6.13

DZOOM PAN:-100~100

DZOOM TILT:-100~100

PREVIOUS: To previous page

8-2 IMAGE FREEZE: ON/OFF(When it's on, DZOOM is no use)

8-3 D-EFFECT: OFF, V-FLIP, MIRROR, ROTATE,

8-4 COLOR: ON/OFF

8-5 CONTRAST: 0~100

8-6 SHARPNESS:0~100

8-7 CR GAIN:0~100

8-8 CB GAIN:0~100

8-9 INITIAL SET: Back to the original settings



8-10 PREVIOUS: To previous page



■ 9 SPECIAL

<SPECIAL MENU>

CAMERA ID	OFF
MOTION DET	OFF
PRIVACY MASK	OFF
LANGUAGE	ENG
STABILIZAR	OFF
L/L SYNC	INT
MONITOR TYPE	LCD
FACTORY RESET	↙
COMM SET	
PREVIOUS	↙

9-1 CAMERA ID

<SET CAMERA ID>	
CAMERA ID	000 -----
ID POSITION 	
PREVIOUS 	


  MOVE AND PRESS SET

CAMERA ID:000~255

ID POSITION: Use "LEFT" and "RIGHT" button to select the position.

PREVIOUS: Back to previous page

9-2 MOTION DET

<MOTION DET MENU>	
ZONE NUMBER	ZONE 1
ZONE STATE	OFF
WIDTH	30--- -----
HEIGHT	30--- -----
MOVE X	30--- -----
MOVE Y	25--- -----
SENSITIVITY	50--- -----
INITIAL SET 	
PREVIOUS 	

ZONE NUMBER:ZONE 1-ZONE8

ZONE STATE: ON/OFF

WIDTH: ZONE STATE ON, 16-30

HEIGHT:12-50

MOVE X:10-90

MOVE Y:15-85

SENSITIVITY:0-100

INITIAL SET:Back to original settings

PREVIOUS: Back to previous page

9-3 PRIVACY MASK

<PRIVACY MASK MENU>	
MASK NUMBER	MASK 1
MASK STATE	OFF
MASK COLOR	GRAY
WIDTH	30--- -----
HEIGHT	30--- -----
MOVE X	30--- -----
MOVE Y	25--- -----
INITIAL SET 	
PREVIOUS	

MASK NUMBER: MASK1-8

MASK STATE: OFF/ON

MASK COLOR: GREY,BLACK,YELLOW,BLUE,GREEN, RED, WHITE

WIDTH:MASK STATE ON, 4-60

HEIGHT:4-50

MOVE X:11-89

MOVE Y:15-85

INITIAL SET: Back to original settings

PREVIOUS: Back to previous page

9-4 LANGUAGE: CHINESS, ENGLISH;KOREAN,SPANISH,FRANCE, RUSSIAN

9-5 STABILIZER: ON/OFF

9-6 L/L SYNC: INT

9-7 MONITOR TYPE: LCD/CRT

9-8 FACTORY SET: Restore factory settings

9-9 COMM SET:

<COMM SETTING MENU>	
BAUD RATE	4800
SAVE/REBOOT 	
PREVIOUS	

BAUD RATE:4800, 9600, 19200, 38400, 57600

SAVE/REBOOT:Save and reboot

PREVIOUS:Back to previous page

9-10 PREVIOUS: Back to previous page

■ 0 EXIT

WDR Main Features

1 WDR (Wide Dynamic Range)

- provides a powerful Wide Dynamic Range solution, allows the camera to provide vivid colors without losing details, even under back light circumstances where intensity of illumination can vary excessively within the scene. The difficult lighting is automatically compensated to extract the details in both bright and dark areas, without having cutoff or saturation.
- unique technology operates a normal CCD in a dual scan mode, which allow the camera to benefit from both WDR (normally achieved by dual -scan CCD), and high sensitivity (of normal CCD) at same time.

BLC



WDR ON



WDR OFF



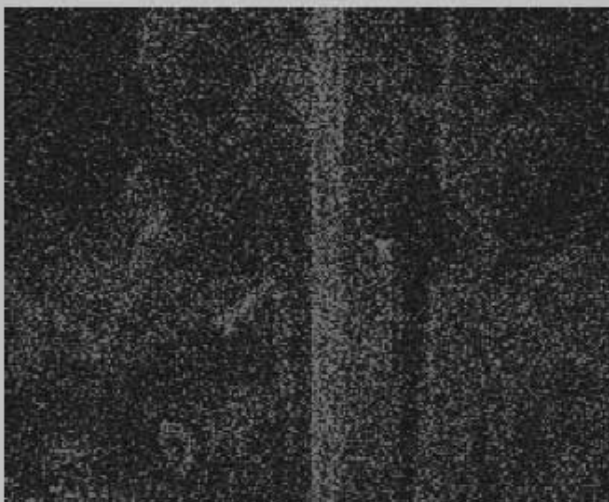
2 3D-DNR (Digital Noise Reduction)

- equipped with the most advance Motion compensated 3D-DNR (3-Dimensional Digital Noise Reduction) function; it operates in both spatially and temporally, while calculating and compensating for motion in the image to minimize ghosts. The result is a superior noise reduction with less motion blurring artifacts even at extreme low-light situations.

Conventional DNR Camera



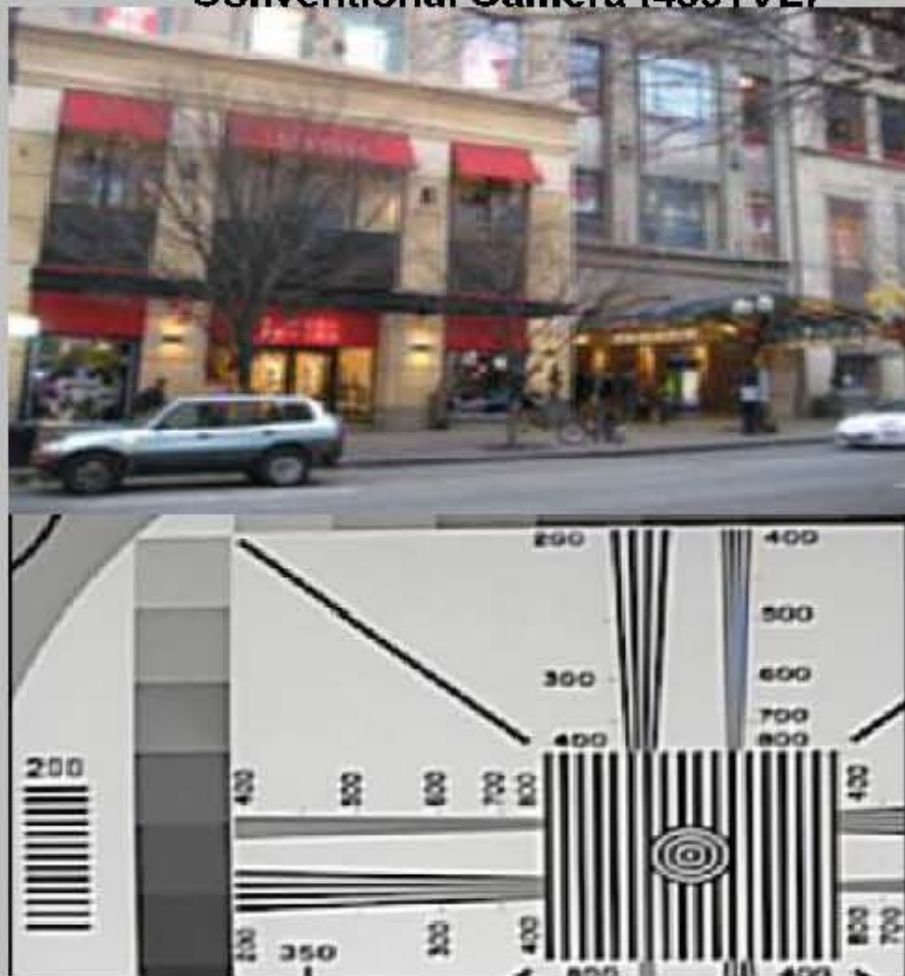
KC-CP3160



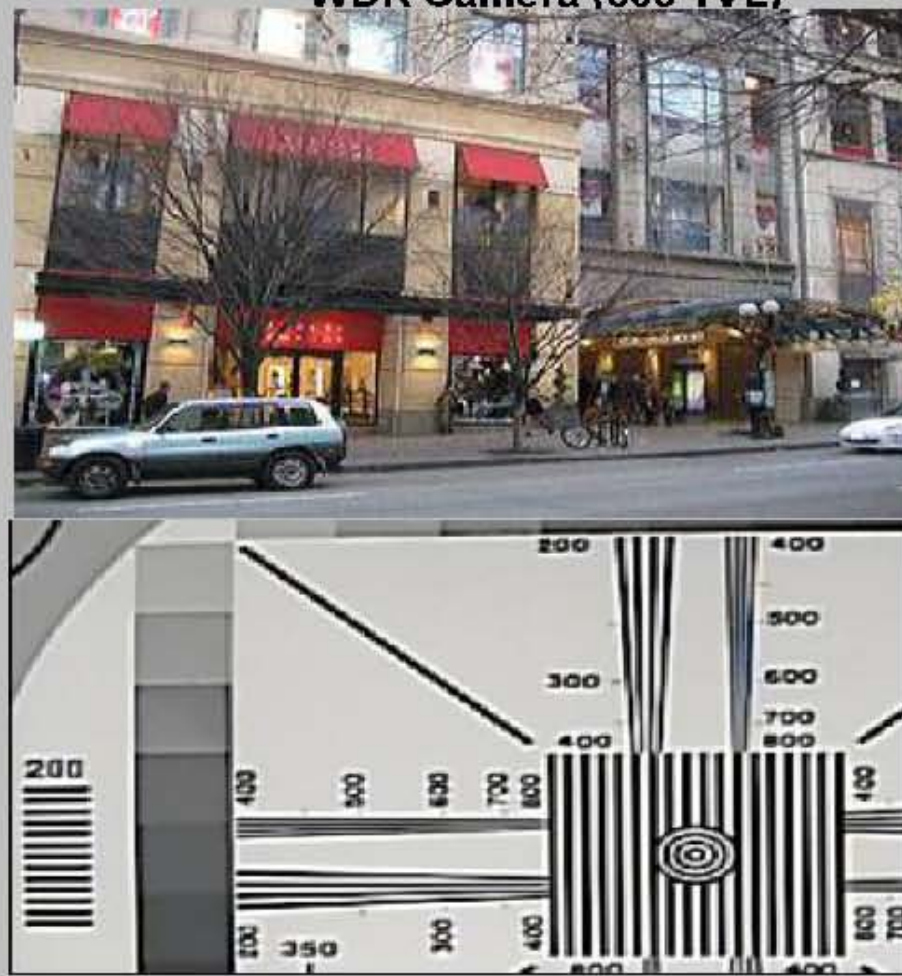
3 TVL- ULTRA HIGH H&V RESOLUTION

- both Vertical and Horizontal resolutions are ultra-high. While high-resolution cameras improve the horizontal resolution only, KC-CP3160 cameras achieve horizontal resolution of 600 TV Lines at color mode, and up to 700 TV Lines with Black/White sensors, and at the same time also reach a vertical resolution of 580TVL - almost double that its competitors.

Conventional Camera (480TVL)



WDR Camera (600 TVL)



4 ECLIPSE

- supports the Eclipse function, which blocks out high-bright areas, and enables better visibility of other areas. An example of the eclipse function usage is to recognize the number plates on a vehicle at night, where the headlights are too bright.

Eclipse - OFF



5 D-ZOOM (x1~x6)

- advance digital zooming technology enables a programmable magnification of up to factor 10, and scale the region of interest to the whole screen.



6 PRIVACY MASKING 8 AREAS

protects the privacy of the pictured area by placing a mask over the video output at the defined privacy zones. allows the size and position of masking area to be freely defined within the frame as required. Up to 8AREAS can be masked. Mask color is programmable.

Privacy Masking - ON



Privacy Masking - OFF

