



USER'S MANUAL

540 TV Line OSD Bullet Camera

For Models :

CBC3510IR(2.8-11mm)

CBC3520IR(9-22mm)

CBC3550IR(5-50mm)

Please read this manual thoroughly before operation and keep it handy for further reference.

WARNING & CAUTION



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL.



The lighting flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance

INFORMATION -This equipment has been tested and found to comply with the limits for a class A digital device Pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING – Change or modification not expressly approved by the manufacturer could void the user's authority to operate the equipment

CAUTION : To prevent electric shock and risk of fire hazards.

DO NOT use power sources other than that specified.

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



SPECIFICATIONS

ITEM	540TV Lines OSD BULLET CAMERA
Power Source	DC 12V & AC 24V
Power Draw	CDC3510 & CDC3520 DC12Volt 140mA (LED off) 630mA (LED on) AC24Volt 180mA (LED off) 530mA (LED on) CDC3550IR DC12volt 160mA (LED off) 470mA (LED on) AC24Volt 200mA (LED off) 410mA (LED on)
Image Sensor	1/3", SONY SUPER HAD CCD (EX-VIEW CCD OPTION) 410,000 pixels
Effective Pixels	768(H) x 494(V) (NTSC) 755(H) x 582(V) (PAL)
Maximum Aperture Ratio	1 : 1.3 -2.0
Scanning System	2 : 1 Interlaced 525 Lines / 60 Fields / 30 Frames
Video Output	1.0V [p-p] NTSC Composite, 75Ω
Resolution	540 TV Line
IR DISTNACE	2.8-11MM (9-22MM) – 40M DISTANCE (48LED) 5-50MM – 80M DISTANCE (12 GIANT LED)
Back Light Compensation (BLC)	AUTO / OFF
Gain Control	ON / OFF
Electronic Shutter Speed	1/60 – 1/120,000 sec (NTSC), 1/50-1/100,000 sec (PAL)
WHITE BALANCE	W-ATW / FIXED / AWB / MANUAL
Min. Illumination	0. 00Lux (LED ON)
S/N (Y signal)	50dB (Weight On)
Motion Detection	MD4 / OFF
On Screen Display (O.S.D)	Built - in
PRIVACY Function	ON / OFF (4 Programmable Zone)
Operational Temperature	-20°C ~ +50°C (- 20°F ~122°F)
Operational Humidity	30% ~90% RH

PACKAGE CONTENTS

- **Please make sure that the following items are included in the package:**

**1 CAMERA
1 SUNSHIELD**

ACCESSORIES:

**4 MOUNTING SCREW
1 VIDEO TEST LEAD
1 M4 STAND CONTROL WRENCH**

Please leave this manual with the end-user for future reference.

FOCUSING



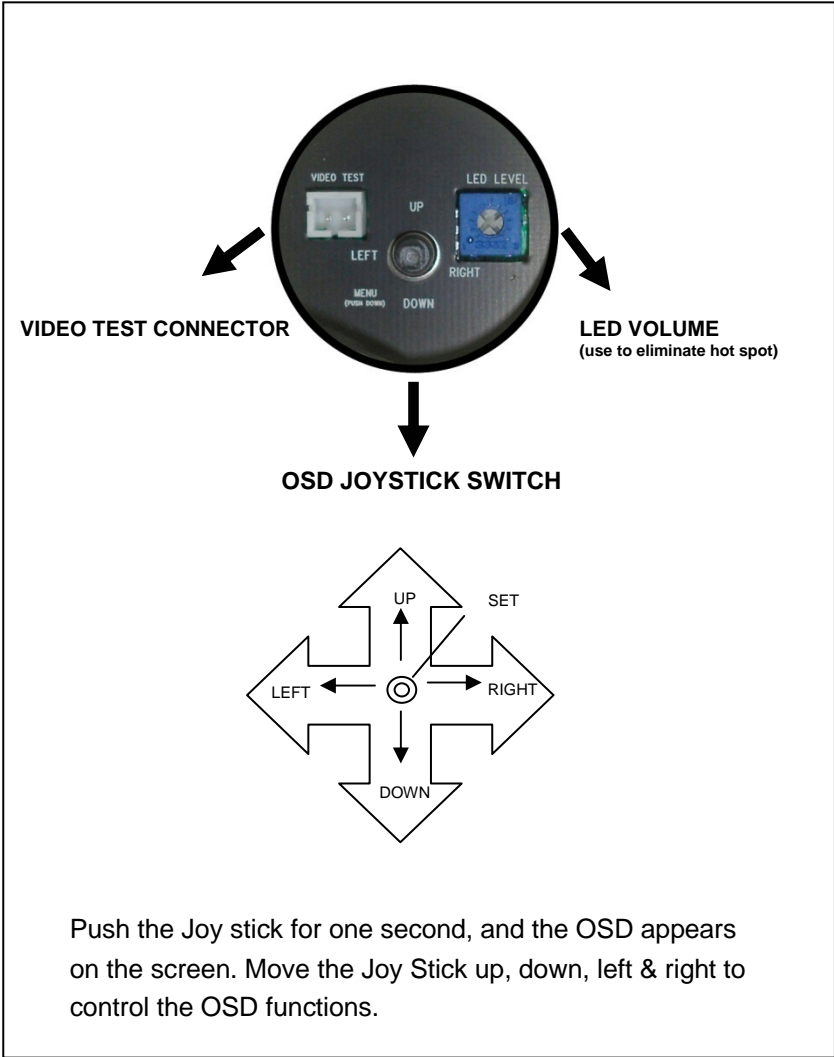
FOCUS ADJUST

ZOOM ADJUST

(* 2.8~11, 9-22mm version – opposite position)

- (1) SET THE ZOOM OR FIELD OF VIEW BY USING THE ZOOM ADJUST.**
- (2) SET THE FOCUS RING BY USING THE FOCUS ADJUST.**
- (3) LOCK BOTH RINGS INTO POSITION USING THE SET SCREWS.**

INTERNAL COMPONENTS



Push the Joy stick for one second, and the OSD appears on the screen. Move the Joy Stick up, down, left & right to control the OSD functions.

FEATURES

BLC

When the image is in front of strong background lighting, your camera allows you to get a clear image.

High Resolution

Horizontal resolution of 540 TV lines is achieved by using a SONY Double Speed CCD with 410,000 pixels, yielding pictures with a high S/N ratio.

OSD

All camera functions are menu driven for easy use.

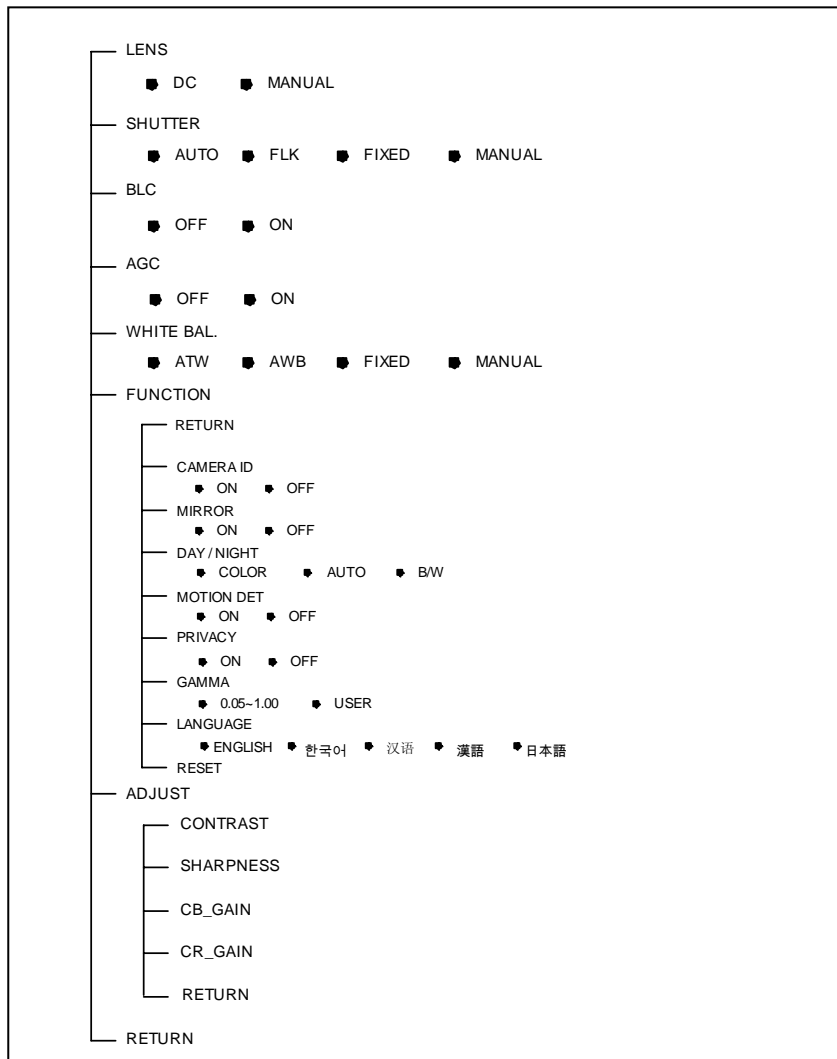
ELECTRONIC DAY/NIGHT

The camera can show color pictures in all lighting conditions, or you can have it automatically switch to a B/W picture in low light conditions

Motion Detection

Built in motion detector with adjustable areas of coverage will flash a warning on the screen when motion is detected.

OSD MENU TREE



SET UP

1) LENS

<DC / MANUAL>

Selects Lens Type.

2) SHUTTER

<AUTO / FLK / FIXED / MANUAL>

Adjusts shutter settings.

Flicker-less mode (FLK) reduces on-screen flickering (TYPICALLY USED IN 50HZ APPLICATIONS WITH ON SCREEN VIDEO OVERLAY).

Do not use FLK mode if using DSS (Digital Slow Shutter)

Electronic Shutter Control (AUTO) adjusts brightness level on screen.

Manual mode allows you to adjust the shutter speed from 1/60~1/120,000 of a second (NTSC), or 1/50~1/100,000(PAL).

3) BLC

<ON / OFF>

BLC AREA

ALL CLEAR
ALL SET
RETURN
EXIT

Provides light level control to overcome severe backlighting conditions.

4) AGC

<ON / OFF>

Adjusts value of AGC gain. Increase the GAIN level to brighten the picture. (noise / distortion may develop)

5) WHITE BALANCE

<ATC / AWB / FIXED / MANUAL>

Controls color on the screen.

Select Auto Tracking White Balance (ATW) when the color temp. is 2400°K-12000°K (for example when under a fluorescent light or outdoors).

Manual mode allows you to increase or decrease the red or blue factor on screen.

Auto White Balance Control (AWC) automatically adjusts the white balance to your specific environment.

6) FUNCTION**(6-1) RETURN**

Return to the main SETUP menu.

(6-2) CAMERA ID

<OFF / ON>

ID SETUP

CAMERA ID
CCTV 1 ↵ C

POSITION ↵
RETURN

Display a name and/or number on the monitor.
To add a camera title:

CAMERA ID : Select character by moving joystick up and down.

C = Delete the entire name and start again.

POSITION = Position the camera title on the screen.

Push down the button to set the position.

(6-3) MIRROR

<ON / OFF>

Produce a horizontal mirror image on screen.

(6-4) DAY / NIGHT

<AUTO / COLOR / BW>

AUTO = Automatically detect color or black/white.

Delay – When the Day & Night function starts or stops (0~15sec)

Start Level – Set the brightness level where the Day & Night function start to operate


End Level – Set the brightness level where the Day & Night function stops operate

COLOR = Full time color mode

B/W = Full time B/W mode

(6-5) MOTION DET

<ON / OFF>

MOTION	
AREA	
MOTION TH.	037
	
MOTION TRACE	OFF
RETURN	

MOTION AREA
ALL CLEAR
ALL SET
RETURN
EXIT

AREA = Select motion detection area.

MOTION TH = Select low luminous motion threshold value.

MOTION TRACE = Display motion trace.

(6-6) PRIVACY

<ON / OFF>

PRIVACY	
AREA SEL	AREA 0
AREA STATE	ON
LEFT	150
RIGHT	170
TOP	029
BOTTOM	056
COLOR	006
RETURN	

AREA SEL = Select a motion detection grid (top left, top ,right, bottom left, bottom right) to modify.

AREA STATE = Activate or deactivate the selected grid.

LEFT/RIGHT/TOP/BOTTOM = Alter the dimensions of the selected grid.

COLOR = Select color of privacy area.

(6-7) GAMMA

<ON / USER>

Sharpen the image on screen. Excessive sharpening may cause picture noise.

(6-8) LANGUAGE (English)

Choose language that should be displayed.

(6-9) RESET

Restore all factory default settings.

7) ADJUST

Adjust level of sharpness / contrast / CB_Gain / CR_Gain.

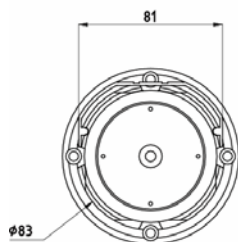
8) EXIT (SAVE)

Save OSD settings and exit the SETUP menu.

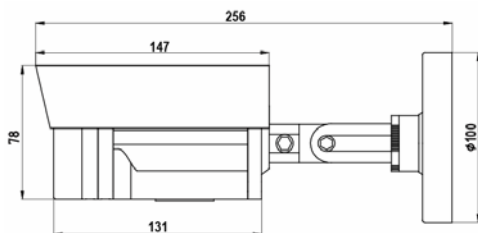
DIMENSIONS

* 2.8~11MM / 9~22MM VERSION

* FRONT VIEW

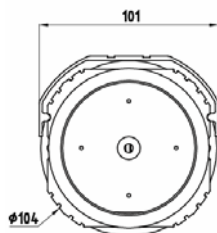


* SIDE VIEW

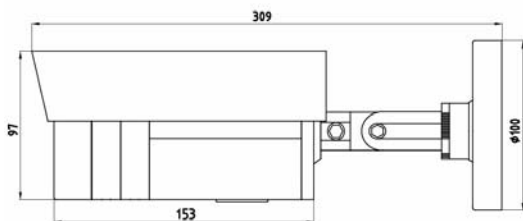


* 5~50MM VERSION

* FRONT VIEW



* SIDE VIEW





VER. 080325

This manual is based on the date as shown in the right and specifications are subject to change without notice for quality improvement.