INSTRUCTION MANUAL

PROFESSIONAL
HIGH RESOLUTION COLOR CAMERA

MODEL Z570

CE RoHS COMPLIANT

Please read this manual thoroughly before operation.

Safety Instructions

IMPORTANT: PLEASE READ THIS MANUAL CAREFULLY BEFORE INSTALLATION AND RETAIN
FOR FUTURE REFERENCE

Caution For Use

◈ Do not open the camera body.

◈ Do not insert object into the camera body.

◈ Do not touch with wet hands.

◈ Do not remove power cord while camera is in use.

◈ If signs of smoke or fire are detected, immediately remove main power

Caution For Installation

◈ Camera requires AC to DC regulated adapter, DC12 V 250mA or AC to AC 24V 300mA.

◈ Apply a power supply after installation of camera.

◈ Do not point the camera toward a strong spot light or direct sun light.

◈ Do not install in areas of high humidity / heat or low temperature.

◈ Do not install in areas of high dust or particle pollution.
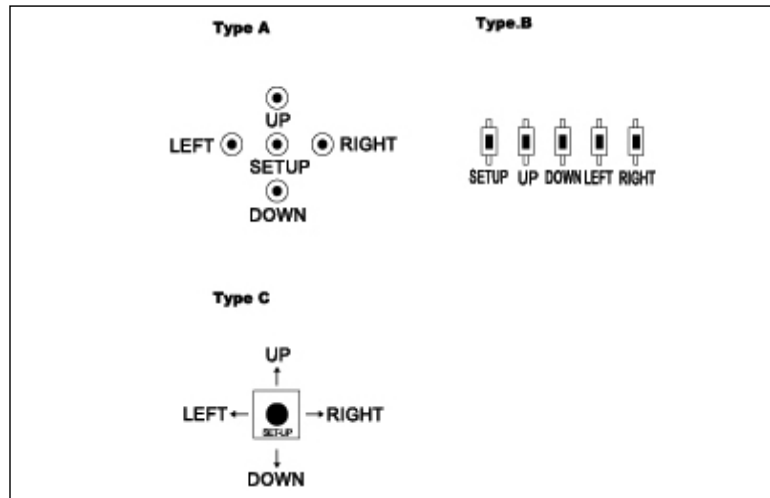
◈ Do not expose the camera to rain or moisture.

Package Includes

1 - High Resolution Color Camera

1 - L - Wrench

1 - Instruction Manual

1 - Warranty Resistration Card

Contents

OSD Control Button Type

Type A

UP
LEFT SETUP RIGHT
DOWN

Type.B

SETUP UP DOWN LEFT RIGHT

Type C

UP
LEFT ← SETUP → RIGHT
DOWN

How To Operate the Camera Menu

◆ **Setup Menu**

SETUP	
LENS	●MANUAL ●DC ●VIDEO
SHUTTER	●FIXED ●MANUAL ●AUTO ●F L K
BACKLIGHT(B L C)	●ON ●OFF
A G C(Auto Gain Control)	●ON ●OFF
WHITE BAL.	●A T W ●A W B ●FIXED ●MANUAL
FUNCTION	●RETURN ●CAMERA ID ●MIRROR ●DAY & NIGHT ●MOTION ●PRIVACY ●GAMMA ●LANGUAGE ●RESET
ADJUST	●ADJUST ●RETURN
EXIT	

◆ **Menu Set Up**

1. Press the SET UP button

2. Setup menu will be displayed on the monitor

```
SETUP

▶ LENS                    DC

  SHUTTER                 FIXED

  B L C                   ON

  A G C                   ON

  WHITE BAL               A T W

  FUNCTION↵

  ADJUST↵

  EXIT
```
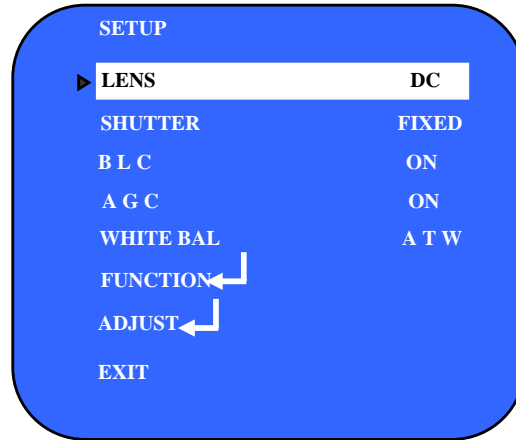
3. Move the Cursor by using the UP or DOWN button to choose the
items

Choose the desired
Features to change →

```
SETUP

▶ LENS                    DC

  SHUTTER
  ------
  B L C                   ON

  A G C                   ON

  WHITE BAL               A T W

  FUNCTION↵

  ADJUST↵

  EXIT
```

← Change the
values by
using
the LEFT or
RIGHT button
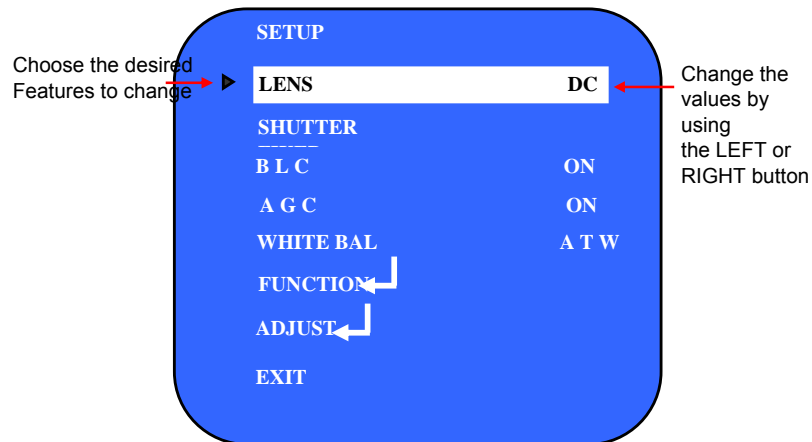
4. Press the LEFT or RIGHT button to change the values.

5. To exit, choose the EXIT by using the DOWN button and press the SETUP
button

❖ LENS(Not Included)

Adjustment of brightness

1. Move the Indicator to LENS by pressing the UP or DOWN button in the SET UP menu.

2. Select the desired LENS type by pressing the LEFT or RIGHT button.

SETUP	
LENS	**DC**
SHUTTER	FIXED
B L C	ON
A G C	ON
WHITE BAL	A T W
FUNCTION↵	
ADJUST↵	
EXIT	
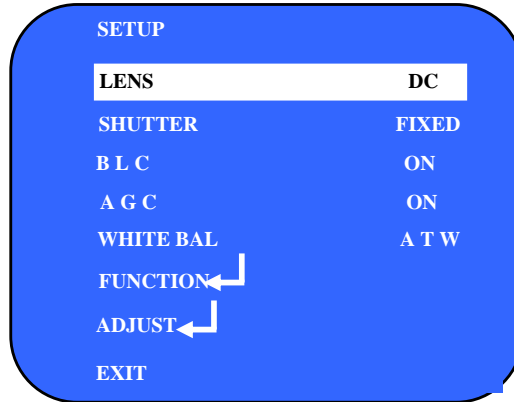
DC: DC Auto IRIS Lens
VIDEO: Video Auto IRIS Lens

MANUAL
VIDEO
DC ↵

CAUTION
☞ **If DC/VIDEO Auto IRIS Lens is selected, the SHUTTER SPEED should be " FIXED".**
If Manual IRIS Lens is selected, the SHUTTER SPEED should be "AUTO"

3. The brightness can be manually adjusted when DC Lens is selected.
Press the SET UP button and then adjust the brightness level by using the the LEFT or Right button.

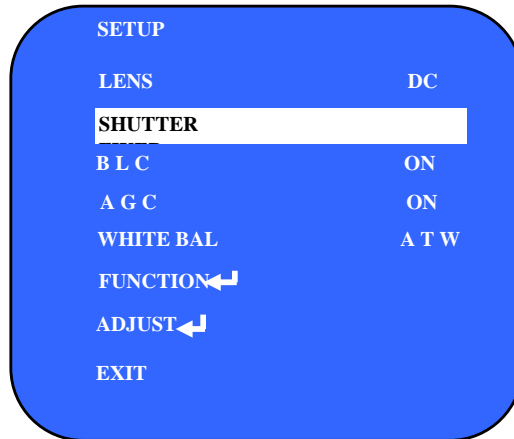| LENS DC	0 ~ 255
BRIGHTNESS	
RETURN	

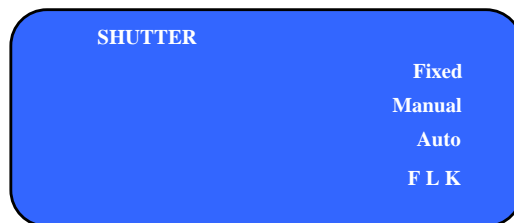4. Press the SET UP button again to return to the previous menu.

◆ **SHUTTER SPEED**

1. Move the Indicator to SHUTTER by pressing the UP or DOWN button in the SET UP
   menu.

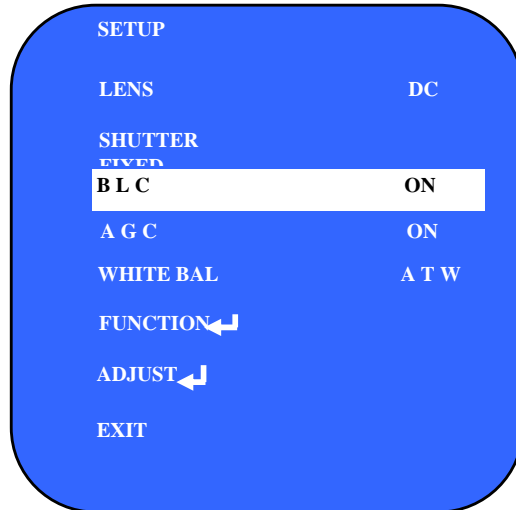2. Select the desired item by pressing the LEFT or RIGHT button.

SETUP	
LENS	DC
SHUTTER	
B L C	ON
A G C	ON
WHITE BAL	A T W
FUNCTION⏎	
ADJUST⏎	
EXIT	

a). Fixed: Lens shutter speed will be fixed to 1/100 sec (default) when DC lens is
        selected. The value can be changed with the LEFT or RIGHT button.

b). Manual: Shutter speed can be manually adjusted.

c). Auto: Shutter speed will be automatically controlled if the LENS is set to manual.

d). F L K: Select "FLK" when image is being flickered by flourescent lamp, radio
waves etc.

SHUTTER	
	Fixed
	Manual
	Auto
	F L K

3. Press the SET UP button again to return to the previous menu.

◆ **BACKLIGHT(B L C)**

1. Move the Indicator to BLC by pressing the UP or DOWN button in the
   SET UP menu.

> **SETUP**
>
> **LENS**   **DC**
>
> **SHUTTER**
> **FIXED**
> **B L C**   **ON**
>
> **A G C**   **ON**
>
> **WHITE BAL**   **A T W**
>
> **FUNCTION**↵
>
> **ADJUST**↵
>
> **EXIT**

2. Select the ON or OFF by pressing the LEFT or RIGHT button.

> **B L C**   **ON** ↵
>   **OFF**

3. The following menu will be displayed when the ON is selected.

> **B L C SET UP**
>
> **B L C AREA**↵
>
> **B L C RATIO**   **0 ~ 63**
>
> **RETURN**
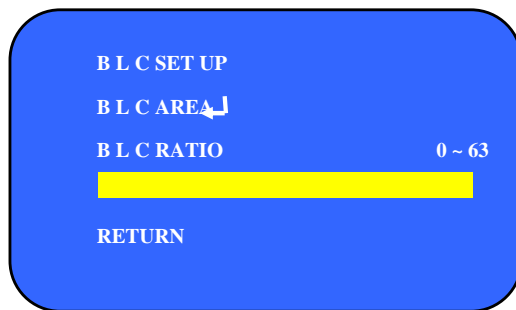
4. Differential images between BLC is ON and BLC is OFF
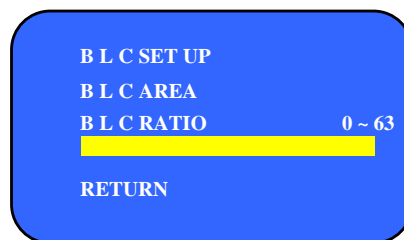

BLC ON   **BLC OFF**

5. Selection of BLC Area

- Select the BLC AREA in the BLC SETUP menu by using the UP/DOWN button.

- Press the SET UP button and the above screen will be displayed.

- Move the Yellow square with the UP/DOWN or the LEFT/RIGHT button to select BLC area
  and press the SET UP button.

- Press the SETUP button for one second to exit this mode after setting the BLC area and then
  the following menu will be appeared.

- Choose the ALL CLEAR to clear the BLC area in the above menu.

- Choose the ALL SET to set BLC area on the whole screen in the above menu.

- Choose the RETURN to select BLC areas.
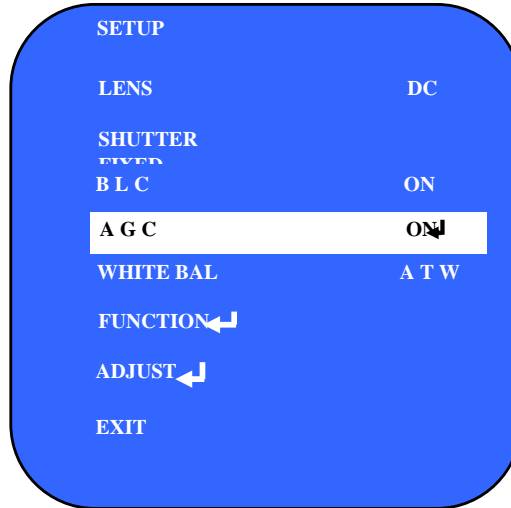
- Choose the EXIT to adjust BLC RATIO.

6. Adjustment of BLC RATIO

- Adjust BLC RATIO with the LEFT or RIGHT button.

- Choose the RETURN and press the SETUP button to go back to the SETUP menu.

B L C SET UP
B L C AREA
B L C RATIO   **0 ~ 63**

RETURN

◈ **A G C(Auto Gain Control)**

AGC helps to increase the image brightness.

SETUP

LENS   **DC**

SHUTTER
FIXED
B L C   **ON**

A G C   **ON**

WHITE BAL   **A T W**

FUNCTION

ADJUST
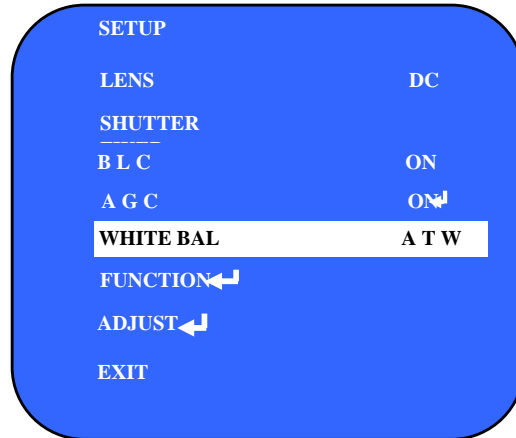
EXIT

1. Move the indicator to AGC by using the UP or DOWN button and press the
   RIGHT or LEFT button to select the ON or OFF.
2. When the ON is selected, press the SETUP button and then the AGC GAIN CONTROL
   menu will be displayed on the screen. Press the LEFT or RIGHT button to increase
   or decrease AGC GAIN level.

A G C CONTROL

A G C GAIN   **0 ~**
255

EXIT
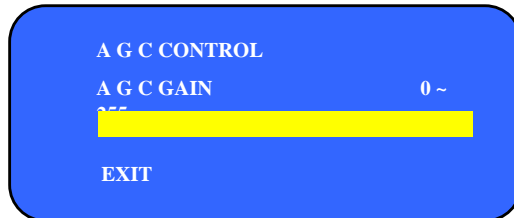
◈ **WHITE BALANCE**

 - Move the Indicator to WHITE BAL by using the UP or DOWN button and press the
   RIGHT or LEFT button to select the ATW, AWB, FIXED and MANUAL.

SETUP	
LENS	**DC**
SHUTTER	
B L C	**ON**
A G C	**ON⏎**
WHITE BAL	**A T W**
FUNCTION⏎	
ADJUST⏎	
EXIT	

① ATW(Auto Tracking White Balance)
   When color temperature is 1,800°K ~ 15,000°K, select this mode.
   (Ex: A fluorescent lamp, or outdoors)

② AWB(Auto White Balance)
   The white balance is automatically adjusted in a specific environment.
   In order to obtain the best result, press the SETUP button while the camera
   focuses on the white paper. If the environment including the light source
   is changed, you have to adjust the white balance again.

③ FIXED(Auto White Balance Fixed)
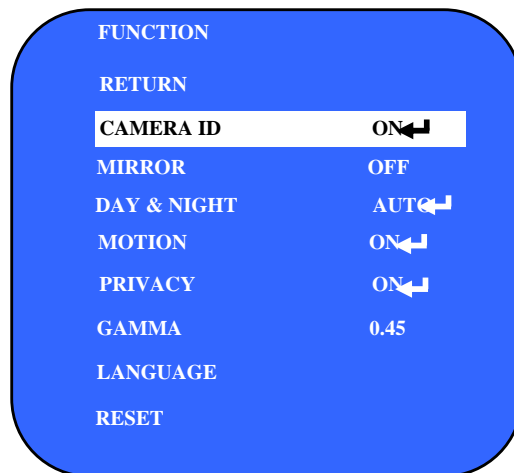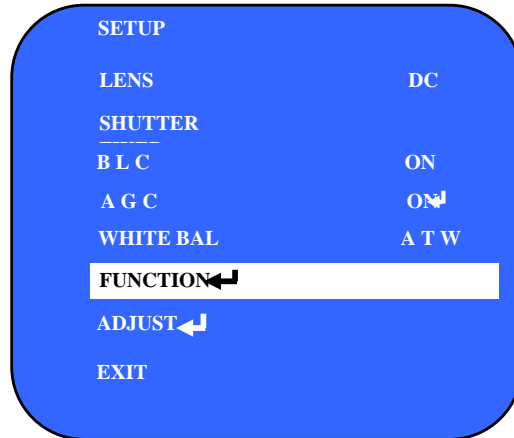   Auto white balance is fixed and adjusted by 4 steps.

④ MANUAL:To fine adjust, select the manual mode.

   - Move the Indicator to WHITE BAL by using the UP or DOWN button and press the
      RIGHT or LEFT button to select the MANUAL.

   - Press the SETUP button and then the AWB MANUAL menu will be displayed.

```
WHITE BAL.                  ATW

                            AWB

                            FIXED

                            MANUAL⏎
```

```
A W B MANUAL
RED                      0 ~ 255


BLUE                     0 ~ 255


 RETURN
```

   - Increase or decrease the value for RED(R-Gain) and BLUE(B-Gain) by pressing the
    LEFT or RIGHT button.

   - After set up the desired value, move the Indicator to RETURN in the AWB MANUAL
    menu by pressing the DOWN button and press the SETUP button to return to

☞ **CAUTION**
    Proper White Balance may not be obtained under the following conditions.
    In these case, select the AWB mode.
    - When the scene contains mostly high color temperature object, such as
     blue sky or sunset.
    - When the scene is dim.
    - If the camera faces a fluorescent lamp directly or is in an area with

◈ **FUNCTION**

- Move the Indicator to FUNCTION in the SETUP menu by using the UP or DOWN
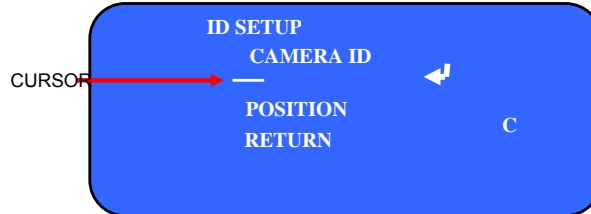 button and press the SETUP button to display the FUNCTION menu.

SETUP	
LENS	DC
SHUTTER	
B L C	ON
A G C	ON↵
WHITE BAL	A T W
FUNCTION↵	
ADJUST↵	
EXIT	

FUNCTION	
RETURN	
CAMERA ID	**ON↵**
MIRROR	OFF
DAY & NIGHT	AUTO↵
MOTION	ON↵
PRIVACY	ON↵
GAMMA	0.45
LANGUAGE	
RESET	

☞ **CAUTION**
   - If the CAMERA TITLE is set to "OFF", the camera title will not be displayed
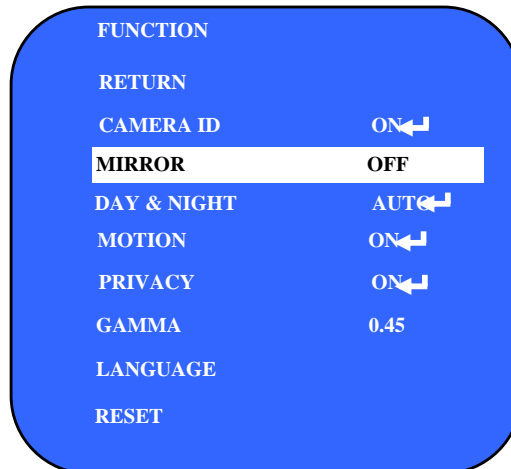   on the monitor

1. CAMERA TITLE

Place the Cursor under the Character "C" by pressing the LEFT or RIGHT
button and press the SETUP button to create the Camera title.
Press the RIGHT button to place the cursor to the first place of

```
          ID SETUP
             CAMERA ID
CURSOR ─────────►  ─────              ↵
             POSITION
             RETURN              C
```

Press the UP or DOWN button to select the required number or alphabet.
- Move the Cursor for next charater by pressing the RIGHT button.
(Character begins from number "0 ~ 9" and follows from" A ~ Z")
After completing the CAMERA ID, place the Cursor under the ENTER symbol and
    press the SETUP button to choose the POSITION in the ID SETUP menu.
- Choose the POSITION in the ID SETUP menu with the UP or DOWN button and
    press the SETUP button.
- Move the CAMERA ID by using the UP or Down and LEFT or RIGHT button to
    proper place to display on the screen and press the SETUP button to save.
Choose the RETURN in the ID SETUP menu by pressing the UP or DOWN button
    and press the SETUP button to return to the previous menu.

2. MIRROR

Press the RIGHT button to select the ON or OFF.

```
      FUNCTION

      RETURN

      CAMERA ID          ON↵

      MIRROR             OFF

      DAY & NIGHT        AUTO↵

      MOTION             ON↵

      PRIVACY            ON↵

      GAMMA              0.45

      LANGUAGE

      RESET
```

14

2.MIRROR
☞ OFF : Deactivation

☞ ON: The image will be reversed as follows.

MIRROR ON   **MIRROR OFF**

3. DAY & NIGHT
① Press the RIGHT button to set up the desired mode.

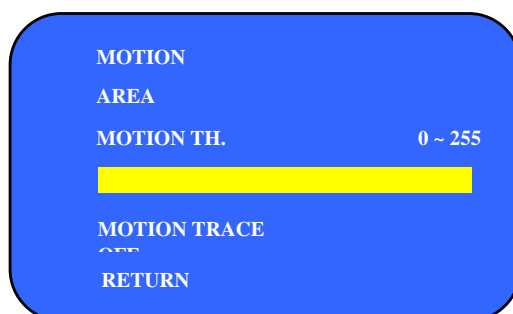| FUNCTION	
RETURN	
CAMERA ID	ON◄┘
MIRROR	ON
DAY & NIGHT	AUTO◄┘
MOTION	ON◄┘
PRIVACY	ON◄┘
GAMMA	0.45
LANGUAGE	
RESET	

☞ COLOR: The camera will always display color images.

☞ B/W : The camera will always display B/W images.

☞ AUTO: The color images will switch to B/W images under the low light conditions.

Press the UP or DOWN button to select desired mode.
Press the LEFT or RIGHT button to set up the desired value.

DAY	NIGHT	AUTO	
DELAY			**0 ~ 63**

START LEVEL   **0 ~ 255**

END LEVEL   **0 ~ 255**

RETURN

4. MOTION
Whenever an object's motion is detected, the motion symbol will be appeared
on the upper right corner of the screen.
Press the RIGHT button to set up the desired mode.

FUNCTION	
RETURN	
CAMERA ID	ON ↵
MIRROR	ON
DAY & NIGHT	AUTO ↵
MOTION	**ON ↵**
PRIVACY	ON ↵
GAMMA	0.45
LANGUAGE	
RESET	

☞ **CAUTION**
  - Press the RIGHT button to activate the MOTION or deactivate.

Press the SETUP button to display the MOTION menu on the screen.

ADJUSTMENT WHEN MOTION "ON"

MOTION

AREA

**MOTION TH.**   0 ~ 255

MOTION TRACE
OFF

RETURN

Choose the AREA in the MOTION menu and press the SETUP button to select
the motion area on the screen and then the Motion Area SETUP window will
be
displayed as follows.
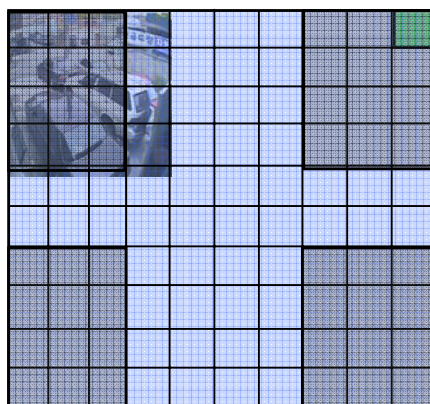
How to set up Motion Areas

- Select the MOTION AREA in the MOTION menu by using the UP/DOWN button.

- Press the SET UP button and the above screen will be displayed.

- Move the Yellow square with the UP/DOWN or the LEFT/RIGHT button to select MOTION
   area and press the SET UP button.

- Press the SETUP button for one second to exit this mode after setting the MOTION area
   and then the following menu will be appeared.
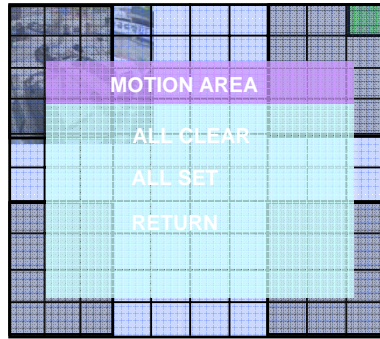
- Choose the ALL CLEAR to clear the MOTION area in the above menu.

- Choose the ALL SET to set MOTION area on the whole screen in the above menu.

- Choose the RETURN in the MOTION AREA menu to go back to the FUNCTION

5. PRIVACY
   To mask the specific area where you want.

   Choose the PRIVACY in the FUNCTION menu with the UP or DOWN button and select the ON or OFF by pressing the LEFT or RIGHT button.
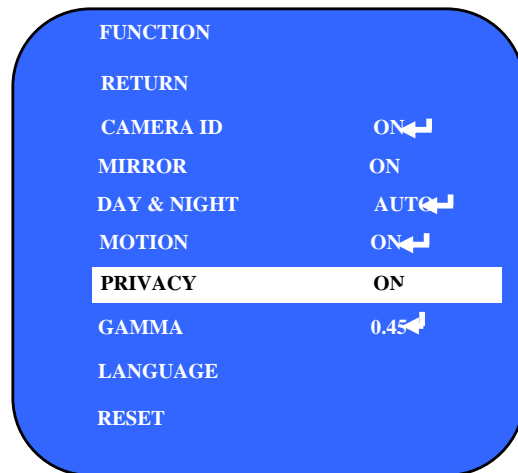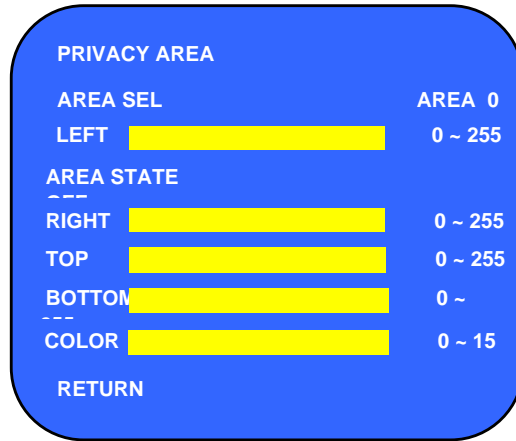

ON: PRIVACY mode Activated

OFF: Deactivated

5. PRIVACY

Press the SETUP button to display the PRIVACY menu when the ON is selected.

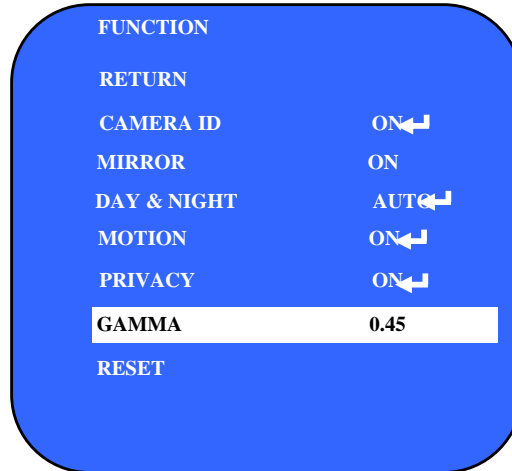Set the"PRIVACY" to desired mode using by the LEFT or RIGHT button.

```
PRIVACY AREA

AREA SEL                      AREA  0
LEFT      [            ]       0 ~ 255
AREA STATE
OFF
RIGHT     [            ]       0 ~ 255
TOP       [          ]         0 ~ 255
BOTTOM    [          ]         0 ~
---
COLOR     [          ]         0 ~ 15

  RETURN
```

☞ **How to set up desired area value**

1) Desired area could be selected upto 0 ~ 3 steps by pressing the RIGHT botton.

2) Area state could be selected "ON" or "OFF" mode.

3) Area setup value could be changed by pressing the UP or DOWN & LEFT or RIGHT utton.

4) Privacy area color could be changed up to 15 colors.

6. GAMMA

   Gamma value could be adjusted by pressing the LEFT or RIGHT button.

FUNCTION	
RETURN	
CAMERA ID	ON⏎
MIRROR	ON
DAY & NIGHT	AUTO⏎
MOTION	ON⏎
PRIVACY	ON⏎
GAMMA	**0.45**
RESET	

User's adjustment: 0.00 ~ 1.00

7. RESET

    - Choose the RESET in the FUNCTION menu with the UP or DOWN button and

    press the SETUP button to select the YES or NO.

    - If "YES" is selected, all the values will be changed to factroy default setting.

◈ **ADJUST**

Choose the ADJUST in the SETUP menu with the UP or DOWN button and press the SETUP button to adjust contrast, sharpness, CB-gain and CR-gain.

SETUP

LENS	DC
SHUTTER	
B L C	ON
A G C	ON⏎
WHITE BAL	A T W
FUNCTION⏎	
ADJUST⏎	
EXIT	
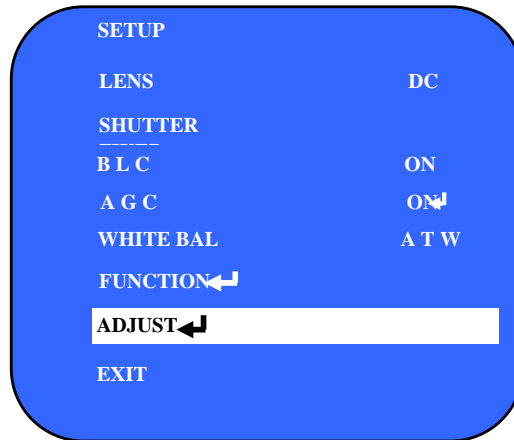
① Press the LEFT or RIGHT button to increase or decrease the desired values.

ADJUST

COTRAST	0 ~ 255
SHARPNESS	0 ~ 255
CB - GAIN	0 ~ 255
CR - GAIN	0 ~ 255
RETURN	

② Choose the RETURN in the ADJUST menu and press the SETUP button to return
   to the previous menu.
◈ **EXIT**

Choose the EXIT in the SETUP menu with the UP or DOWN button and press
the SETUP button to exit.

TROUBLE SHOOTING	
PROBLEM	**SOLUTION**
Nothing appears on the screen.	• Check the power cable and line connection between the camera and monitor. • Check that you have properly connected the video cables.
The image on the Screen is dim.	• Is the camera lens stained with dirt? Clean the lens with a soft and clean cloth. • Adjust the monitor as required. • If the camera is exposed to very strong light, change the camera position. • Adjust the lens focus properly.
The image on the Screen is dark.	• Adjust the contrast feature of the monitor. • If you have an intermediate device, set the 75Ω / Hi - z properly.
The camera is not working properly and the surface of the camera is hot.	• Check that you have properly connected the camera to an appropriate power source.
MOTION DETECTION function is not active.	• Have you set " MOTION DET" menu to off? • Have you set " MD AREA" properly?
The color of the picture is not matched.	• Check that you have properly set the " WHITE BAL." menu
The image on the Screen flickers.	• Is the camera facing direct sunlight or fluorescent lighting? Change the camera position.

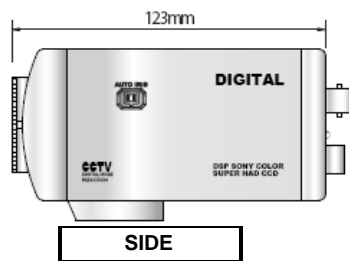| Specifications	
Image Sensor	1/3" Sony Super HAD CCD, 811H x 508V
Effective Pixels	768H x 494V
Scanning System	525 Lines, 2:1 Interlace
Horizontal Resolution	540 TV Lines
Shutter Speed	Auto, Manual (1/60 to 1/120,000 sec)
Sync. System	Internal
S/N Ratio	more than 50db (AGC off)
Minimum Illumination	0.1 Lux @F1.2
Video Output	Composite 1.0Vp-p @75 Ω
A G C	Off / On, 0 to 255
O S D	Camera ID & Menu
Motion Detection	Off / On
Digital Noise Reduction	Auto
White Balance	ATW/ AWB, Manual (1,800˚K to 10,500˚K)
Lens	C & CS Mount Lens(Not included)
Power Consumption	DC 12V ± 10%, 200mA Max.
Power Supply	AC 24V / DC 12V - (Non Polarity): Not included
Operating Temperature	-'10ºC to 50ºC
Dimension	55(W) x 50(H) x 120(D)mm (without Lens)

* INSTALLATION

Dimensions & Cable Connection
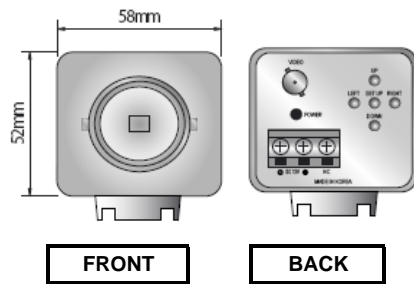
FRONT	BACK

SIDE

1	1.Control(+)	Min. DC8V(Max. 0.5mA)
2	2.Control(-)	N.C
3	3.Drive(-)	VIDEO
4	4.Drive(+)	GROUND

* SETTINGS

Settings can be made using the 5 buttons located on the back panel on the camera.
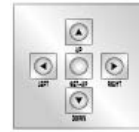
OSD CONTROL

OSD

LENS	DC
SHUTTER	AUTO
BLC	ON
AGC	ON
WHITE BAL.	ATW
FUNCTION	
ADJUST	
EXITE	

OSD - FUNCTION

RETURN	
CAMERA ID	ON
MIRROR	OFF
DAY / NIGHT	COLOR
MOTION	OFF
PRIVACY	OFF
GAMMA	0.45
LANGUAGE	ENGLISH
RESET	

Available accessories

LENS3508	1/3" CS mount, Vari-focal DC Auto IRIS lens, 3.5 to 8mm
TV3X0310D-NB	1/3" CS mount, Vari-focal DC Auto IRIS lens, 3.0 to 8.5mm
TV7X7513D-NB	1/3" CS mount, Vari-focal DC Auto IRIS lens, 7.5 to 50mm
HS13	Outdoor Camera Housing, 138(W) x 117(H) x 375(L)mm
HS13HB	Outdoor Camera Housing, 138(W) x 117(H) x 375(L)mm w/ Heater & Blower, AC24V Power Supply(ADT241200: not included)
MBK010	Mounting Bracket for HS13 & HS13HB
MBK001	"L" type Mounting Bracket
ADT241200	AC to AC Power Supply AC24V 1.2A for HS13HB
CDR4170	Stand - alone 4CH DVR
CDR4770	MPEG-4 Stand - alone 4CH DVR
CDR0850	MPEG-4 Stand - alone 8CH DVR
CDR1610	Stand - alone 16CH DVR

Limited 2 Year Warranty

This warranty gives the original purchaser specific legal rights and you may also have other rights, which may vary from state to state. If our products do not function because of any defect in material or workmanship, we will repair it for free for 2 year on parts and labor from the date of original purchase. This warranty does not cover modification, abuse, incidental or consequential damages unless the state of owner's residence Specially prohibits limitations on incidental or consequential damages.

How to obtain Factory Service

◈ Original purchaser must fill out the warranty card and mail it to the factory with the model number, serial number and the date of purchase.

◈ We will repair or replace, and return the system to the owner under this limited warranty.

◈ Please pack the system carefully and securely using the original packing materials, and send it prepaid and insured to:**13073 E. 166th St., Cerritos, CA 90703**

◈ Please include a check for US$15.00 to cover the cost of return postage and handling. If the system is returned within the warranty period, please I nclude a proof of purchase. If the system is out of warranty, you will receive an estimate of the repair cost for your approval before repair work will be started.

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