INSTALLATION AND USER GUIDE

OF

OSD COLOR CAMERA

Speco Technologies
SCS Camera Series

speco technologies®

www.specotech.com

CE ☒ **RoHS** COMPLIANT

Please read this manual throughly before operation and keep

it handy for further reference

Safety Instructions

IMPORTANT: PLEASE READ THIS MANUAL CAREFULLY BEFORE INSTALLATION AND RETAIN

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 12 V DC adaptor for power and therefore must never be connected

   directly to mains power.
◈ Apply mains power after full installation of camera.
◈ Do not install camera facing directly into strong 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.

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	●ON ●OFF
WHITE BAL.	●A T W ●A W B ●FIXED ●
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
```
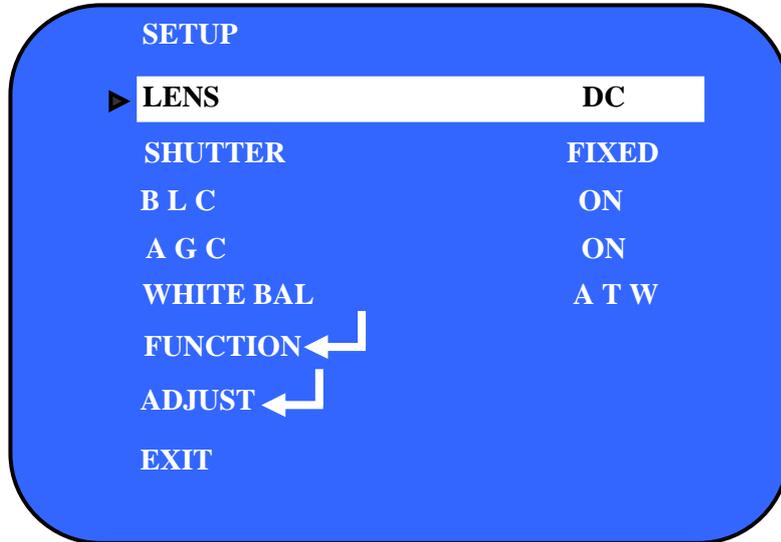
3. Move the indicator UP or DOWN to adjust the desired Feature.

Select the desired
Feature →

```
                    SETUP

                ▶ LENS                DC     ← Adjust using
                                                the LEFT or
                  SHUTTER            FIXED     RIGHT button

                  B L C                ON

                  A G C                ON

                  WHITE BAL          A T W

                  FUNCTION ↵

                  ADJUST ↵

                  EXIT
```
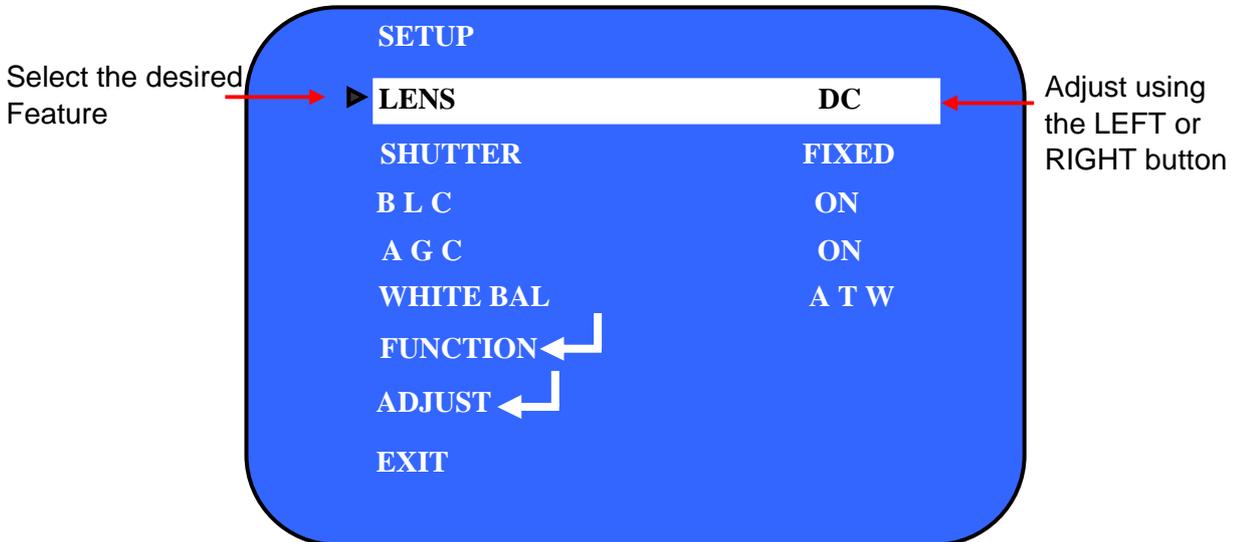
4. The LEFT or RIGHT button scrolls through the settings within the highlighted function.
5. When all desired settings are complete use the DOWN button to move to and highlight EXIT then press SET on the controller, this takes you out of the menu

◈ LENS(Option)

Controls the picture brightness

1. Move the indicator to LENS by pressing the UP or DOWN button to scroll through the SET UP menu screen.
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
```
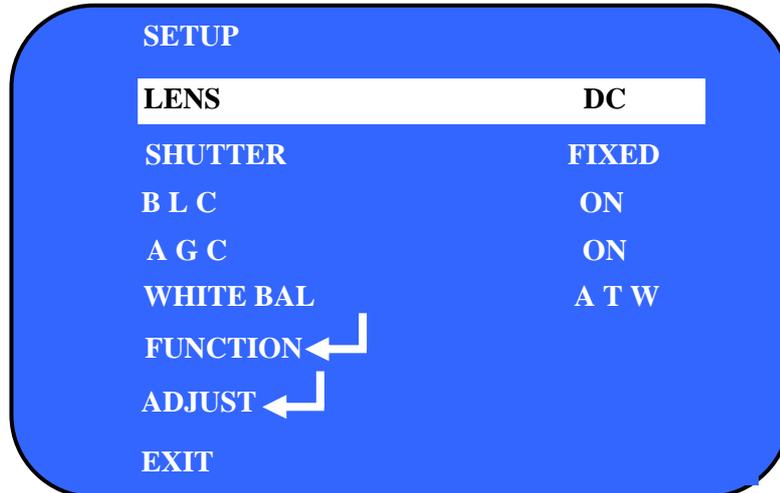
DC/VIDEO:DC Auto IRIS Lens

```
                    MANUAL
                    VIDEO
                    DC   ⏎
```

CAUTION
☞ **When DC/VIDEO Lens selected' you must select "FIXED",**
When you use Manual Lens, You must select "AUTO"

3. With DC selected the brightness can be manually adjusted. Press the SET UP button then use the LEFT and RIGHT button to increase or decrease the level.

```
LENS DC
BRIGHTNESS              0 ~ 255


RETURN
```

4. Move the indicator to RETURN to the previous menu after complete the adjustment.

◈ SHUTTER SPEED

1. Move the indicator to SHUTTER by pressing the UP or DOWN button to scroll through the SET UP menu screen.
2. Select the desired 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
```
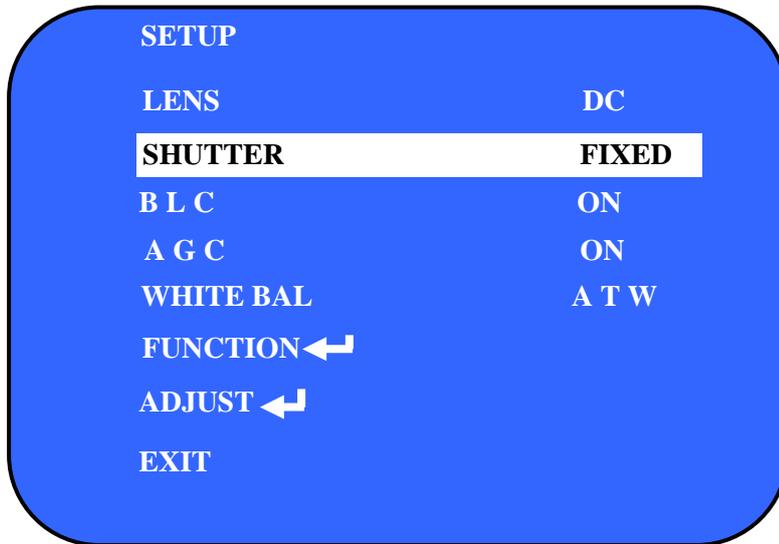
a). Fixed:Lens shutter speed will be fixed to 1/60 sec when DC lens selected.
b). Manual:For manual shutter speed control
c). Auto:For automatic shutter speed control when the lens must be set to manual to enable this setting.
d). F L K:For use where image is being affected and causing the image to flicker or show interference. Cause can be flourescent lighting, radio waves etc.

```
SHUTTER

                        Fixed
                        Manual
                        Auto
                        F L K
```

3. Press the SET UP button to return to previous menu after complete the adjustment

◈ BACKLIGHT(B L C)

1. Move the indicator to BLC by pressing the UP or DOWN button to scroll through the SET UP menu screen.

SETUP	
LENS	DC
SHUTTER	FIXED
B L C	**ON**
A G C	ON
WHITE BAL	A T W
FUNCTION◄┘	
ADJUST ◄┘	
EXIT	
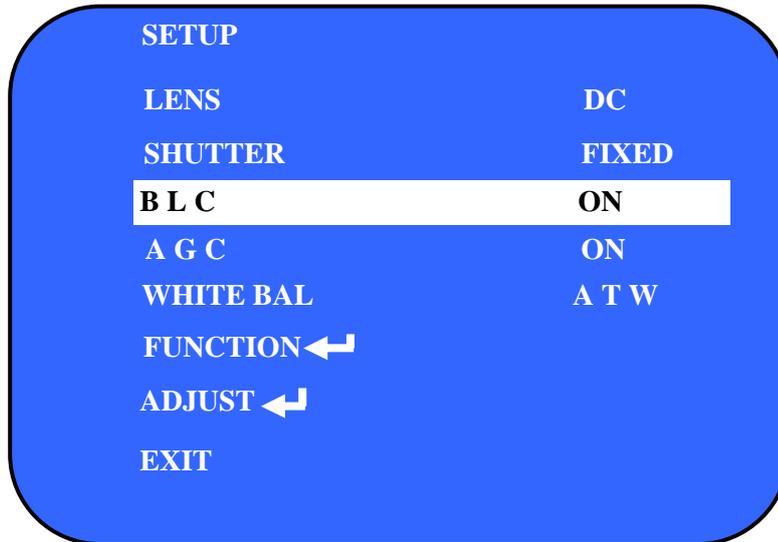
2. Select the desired setting by pressing the LEFT or RIGHT button.

B L C	ON ◄┘
	OFF

3. Adjustment when B L C ON.

B L C SET UP	
B L C AREA ◄┘	
B L C RATIO	0 ~ 63
RETURN	
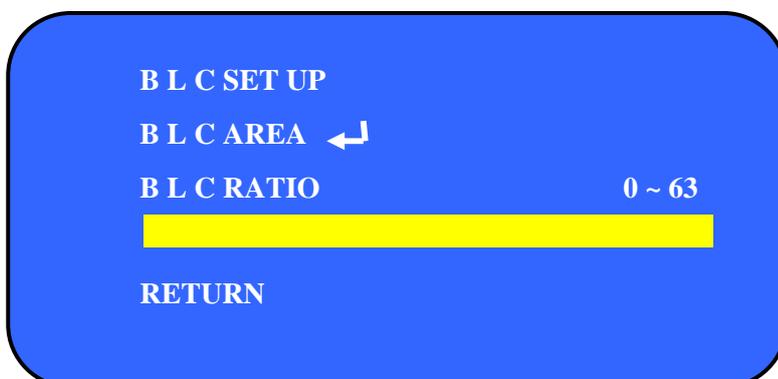
4. When BLC On, BLC off

BLC ON

BLC OFF

5. Selection of sensing area.
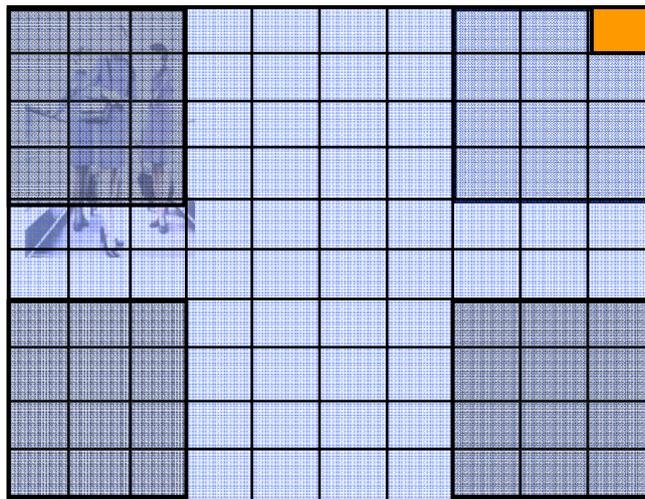
Moving yellow square
to select sesing area

☞ **How to set up sensing area**

1) Select Sensing area by pressing "UP & DOWN" button
2) Press the " SET UP" button and above picture will be displayed on the screen.
3) Move the Yellow square to select sensing area and press the
   "set up" button and move to other desired sectors. If yellow square
   color changes to green color, this sector selected by sensing are.
4) Repeat this to by pressing " UP or DOWN, LEFT or RIGHT and SET UP button
   to set up the desired sensing area.

6. BLC area.

After setup the BLC sensing area, enter the setup button for a
second and below picture will appear on the screen.

All sensing area re-adjusted by pressing "UP or DOWN" button and
"SETUP" Button.

B L C AREA

ALL CLEAR

ALL SET

RETURN

EXIT

7. Increasing or decreasing BLC Ratio.

Increasing or decreasing BLC Ratio could be controlled from
00 to maximum 63.

B L C SET UP

B L C AREA

B L C RATIO   **0 ~ 63**

RETURN
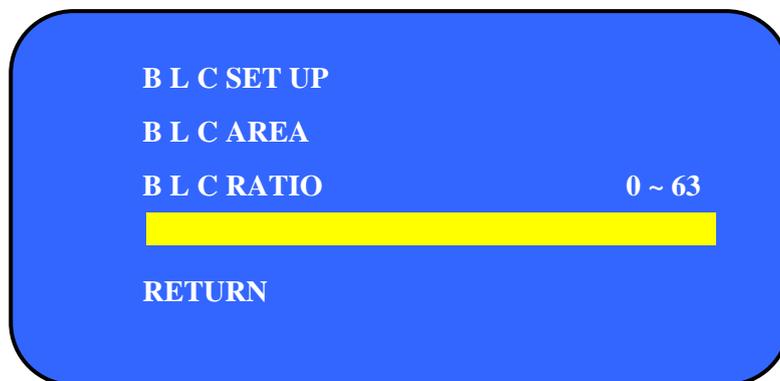
◈ **A G C(Auto Gain Control)**

AGC helps increase the image brightness. The desired option is seclected using the LEFT or RIGHT buttons.

SETUP	
LENS	DC
SHUTTER	FIXED
B L C	ON
A G C	ON ↵
WHITE BAL	A T W
FUNCTION↵	
ADJUST ↵	
EXIT	
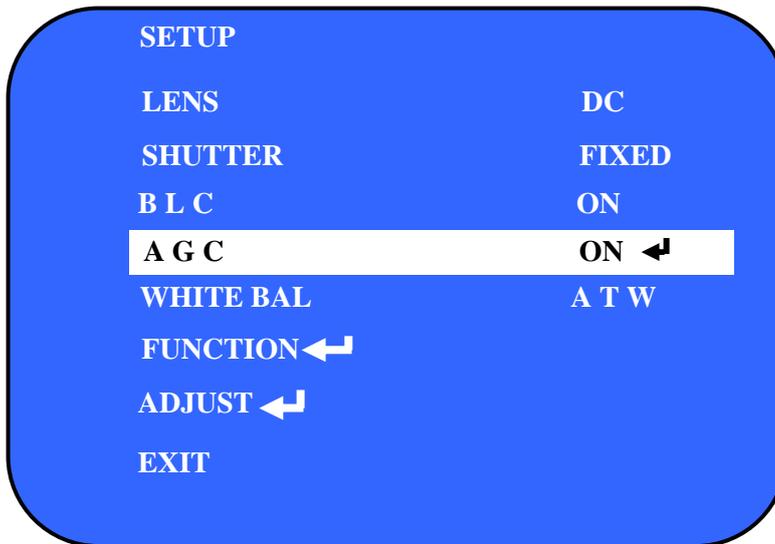
1. Move the indicator to AGC by using "UP or DOWN" button and Press the RIGHT button to select AGC ON, OFF mode.

2. When AGC ON, press the setup button and below AGC GAIN control will be displayed on the screen. And press the LEFT or RIGHT button to increase or decrease AGC GAIN

A G C CONTROL	
A G C GAIN	0 ~ 255
EXIT	

Desired A G C GAIN could be controlled from 0 to MAX 255 by using LEFT or RIGHT button.

◈ WHITE BALANCE

SET "WHITE BAL." to desired mode by the RIGHT button

```
SETUP

LENS              DC
SHUTTER           FIXED
B L C             ON
A G C             ON  ↵
WHITE BAL         A T W
FUNCTION↵
ADJUST  ↵
EXIT
```
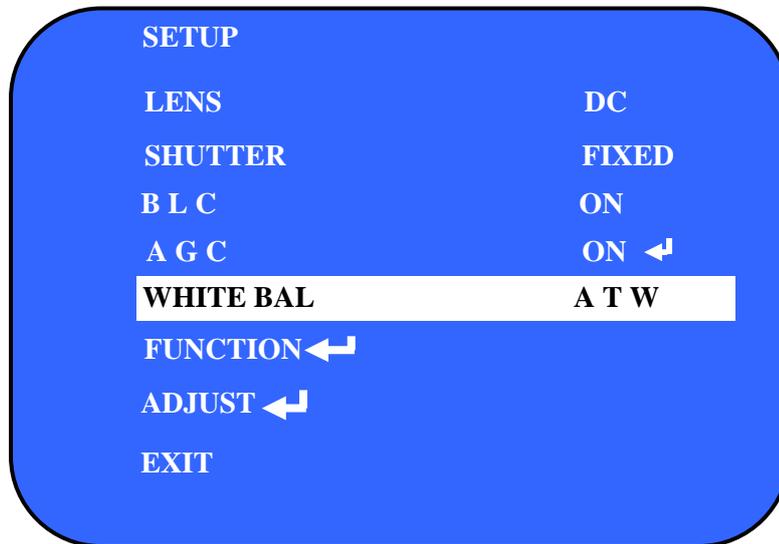
① ATW(Auto Tracking White Balance)
  :When color temperature is 1,800˚K ~ 15,000˚K, select this mode.
  (Ex: A fluorescent lamp, or outdoors)

② AWB(Auto White Balance)
  :The white balance is automatically adjusted in a specific environment.
  In order to obtain the best result, press the set 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.

2. Set the "MANUAL" mode and press the "SETUP" button.
   The red or blue factor could be increased while monitoring the
   difference on the screen.

```
WHITE BAL.              ATW

                        AWB

                        FIXED

                        MANUAL ⏎
```

```
A W B MANUAL

RED                     0 ~ 255


BLUE                    0 ~ 255


 RETURN
```
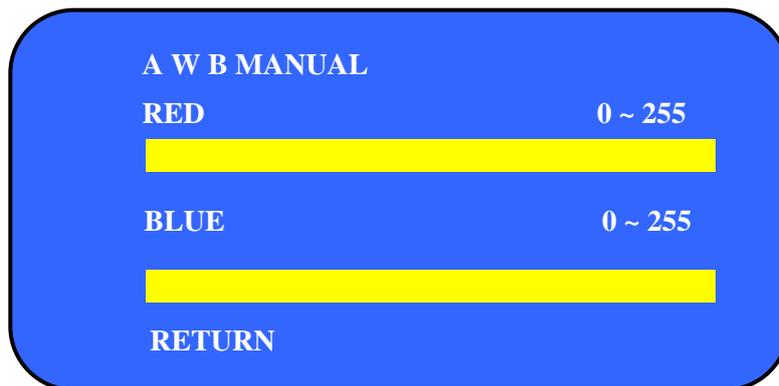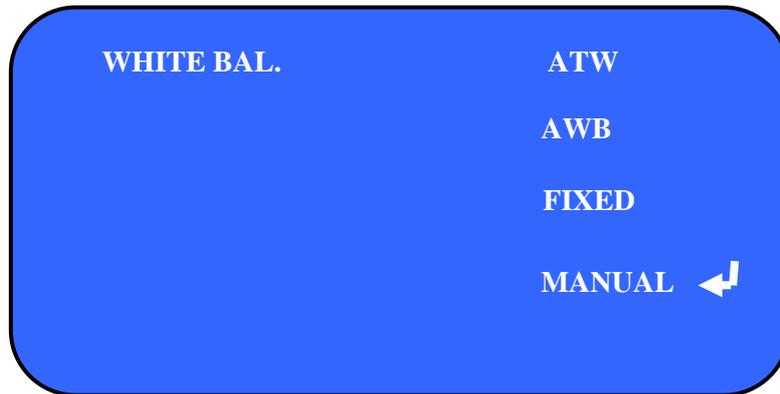
Increased or decrease the value for RED(R-Gain) and BLUE(B-Gain) by press
the LEFT or RIGHT button. After set up the desired value, move to return menu
by pressing the DOWN button and press the SETUP button to previous menu.

☞ **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
   constantly changing illumination

◈ FUNCTION

Set the "FUNCTION" mode and press the "SETUP" button.
The camera ID, Mirror, day & night and other necessary functions could be controlled by user's requirement.

```
SETUP

  LENS              DC
  SHUTTER           FIXED
 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 feature is set to "OFF", the camera title will not be displayed on the monitor

1. CAMERA TITLE
   ① Place the cursor under the Character "C" by pressing the LEFT or RIGHT
     button and press the SETUP button to create the Camera title.
   ② Press the RIGHT button to place the cursor to the first place of chracter.

CURSOR→

ID SETUP

CAMERA ID

⏎   **C**

POSITION

RETURN
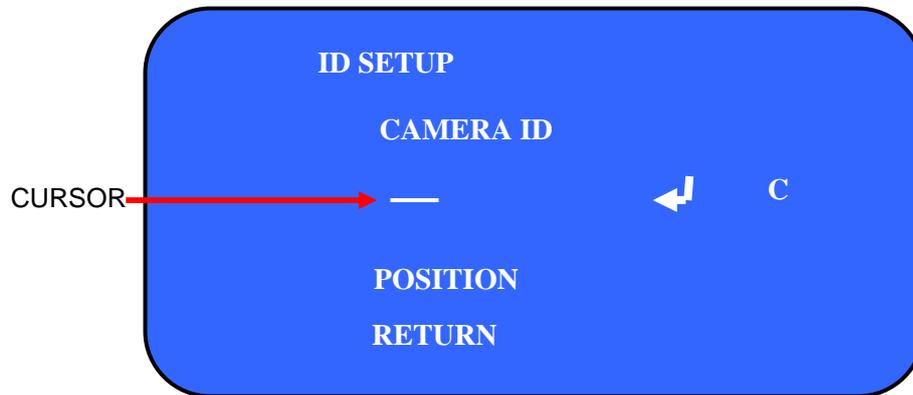
   ③ Press the UP or DOWN button to select the required number or alphabet.
     And move the cursor for next charater by pressing the RIGHT button.
     (Character begins from number "0 ~ 9" and follows from" A ~ Z")
   ④ After complete the CAMERA ID, select the "POSITION" at which camera
     title should be located.
   ⑤ Press the "RETURN" button to exite after complete the set up.

2. MIRROR
   ① Press the RIGHT button to select the desired mode

FUNCTION

RETURN

CAMERA ID	**ON** ⏎
MIRROR	**OFF**
DAY & NIGHT	**AUTO** ⏎
MOTION	**ON** ⏎
PRIVACY	**ON** ⏎
GAMMA	**0.45**
LANGUAGE	
RESET	
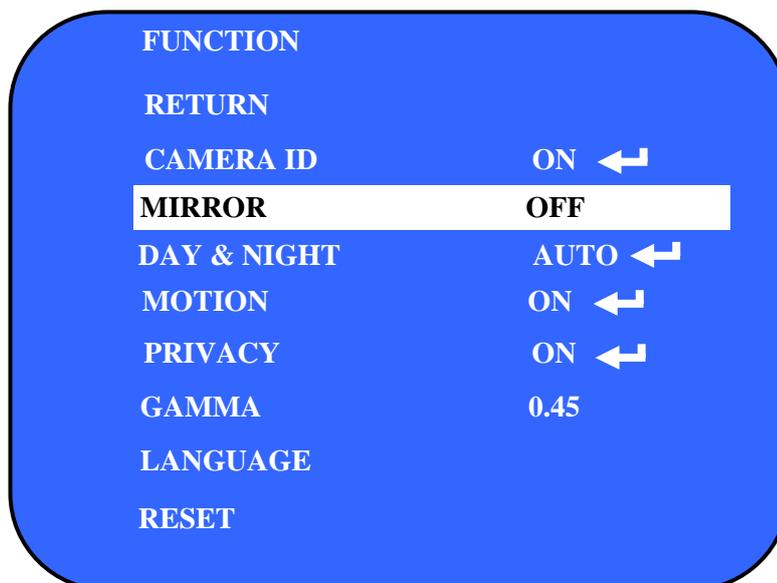
2.MIRROR
  ☞ OFF : Deactivation

  ☞ ON: Reverse the image RIGHT or LEFT such as mirror

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 a color picture

  ☞ B/W : The camera will always display a B/W picture

  ☞ AUTO: The camera will switch into B/W in the low light conditions.

② Press the UP or DOWN button to select desired mode.

③ 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 the camera detects motion, the " Running man " Signal will be appeared
   on the right - up part of the screen.

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

① Press the SETUP button to display the control menu on the screen.

ADJUSTMENT WHEN MOTION "ON"

MOTION

AREA

MOTION TH.   0 ~ 255

MOTION TRACE   OFF

 RETURN
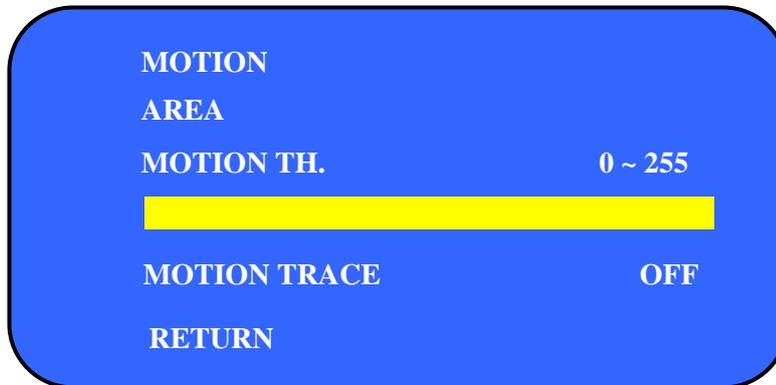
② Press the SETUP button to select the motion area on the screen.
  And Motion Sensing Area SETUP menu will be displayed on the sub menu screen.
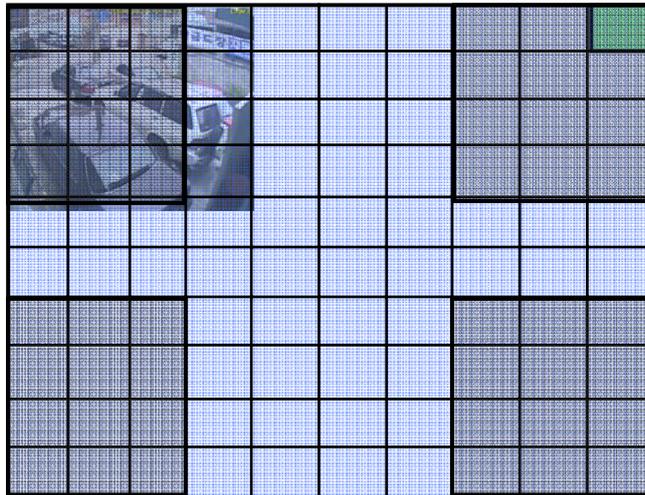

☞ **How to set up motion sensing area**

1) Select motion area by pressing "UP & DOWN" button
2) Press the " SET UP" button and above picture will be displayed on the screen.
3) Move the Yellow square to select sensing area and press the
   "set up" button and move to other desired sectors. If yellow square
   color changes to green color, this sector selected by sensing are.
4) Repeat this to by pressing " UP or DOWN, LEFT or RIGHT and SET UP button
   to set up the desired sensing area.

After setup the Motion sensing area, enter the setup button for a second and below picture will appear on the screen.


```
MOTION AREA

    ALL CLEAR

    ALL SET

    RETURN

    EXITE
```
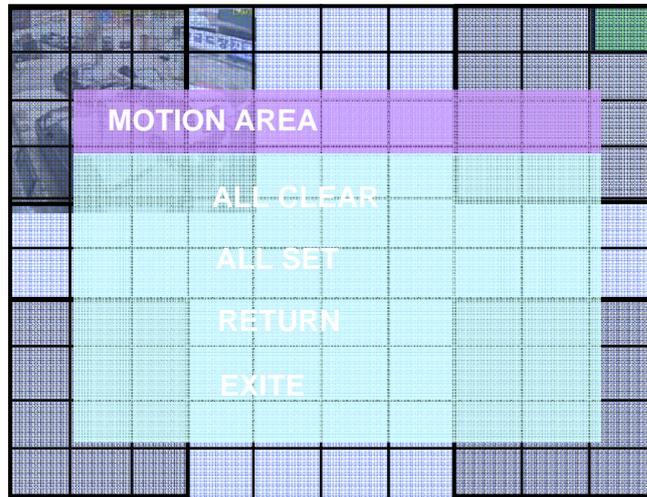
After complete the desired sensing area, press the RETURN or EXIT to move previous menu or exit to main menu .

5. PRIVACY

To make an area that desired area to be private.
① Press the RIGHT button to activate or deactivate the PRIVACY mode.

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

ON:Activated
OFF:Deactivated

5. PRIVACY
   ② Press the SETUP button when the privacy mode "ON".
   ③ Set the"PRIVACY" to desired mode by the LEFT or RIGHT button.

PRIVACY AREA

AREA SEL		**AREA 0**
AREA STATE		
LEFT		**0 ~ 255**
RIGHT		**0 ~ 255**
TOP		**0 ~ 255**
BOTTOM		**0 ~ 255**
COLOR		**0 ~ 15**
RETURN		

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

1) Desired area could be selected upto 0 ~ 3 steps by pressing RIGHT button.
2) Area state could be selected "ON" or "OFF" mode.
3) Area setup value could be changed by pressing UP or DOWN & LEFT or RIGHT button.
4) Privacy area color could be changed upto 15 color.

6. GAMMA
Gamma value could be controlled by pressing the LEFT or RIGHT button.

|	
FUNCTION	
RETURN	
CAMERA ID	**ON** ↵
MIRROR	**ON**
DAY & NIGHT	**AUTO** ↵
MOTION	**ON** ↵
PRIVACY	**ON** ↵
GAMMA	**0.45**
LANGUAGE	
RESET	
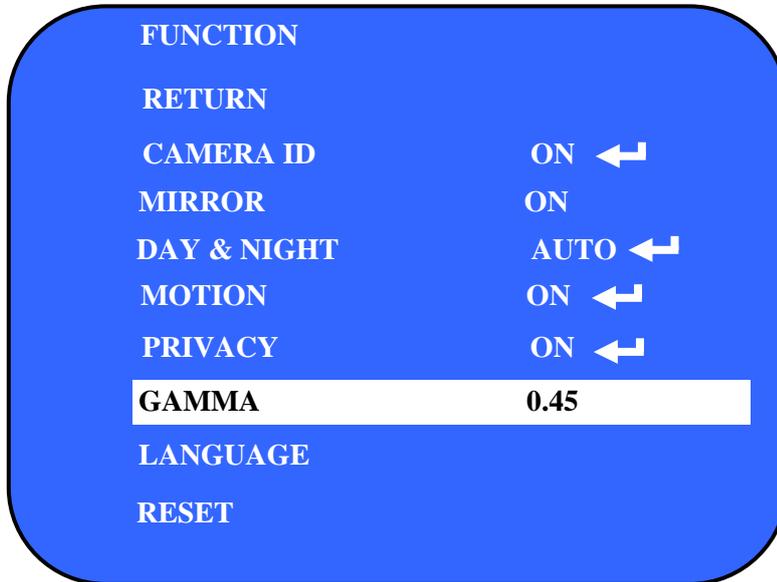
User's control (0.00 ~ 1.00)

7. LANGUAGE
English

8. RESET
Set the menu to RESET by pressing SETUP button and appears YES /NO on the screen.
If "YES" is selected, all data will be changed to factroy default.

◈ **ADJUST**

Set the ADJUST and press the setup button to control the desired contrast and sharpness on the screen.

```
SETUP

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

EXIT
```
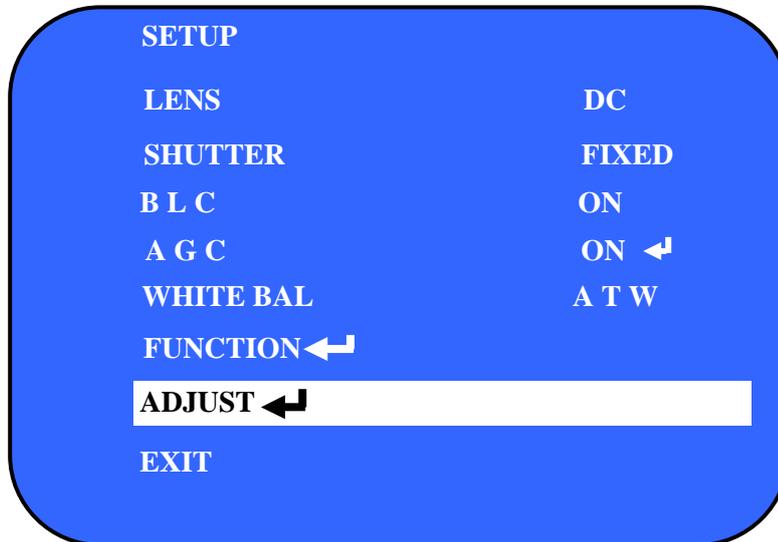
① Press the LEFT or RIGHT button to increase or decrease the desired features.

```
ADJUST

COTRAST                    0 ~ 255


SHARPNESS                  0 ~ 255


CB - GAIN                  0 ~ 255


CR - GAIN                  0 ~ 255


RETURN
```

② Move to return and press the setup button to exit after complete desired mode.

◈ **EXIT**

Set the EXIT 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 interediate 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.

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MADE IN KOREA