

# LILIN

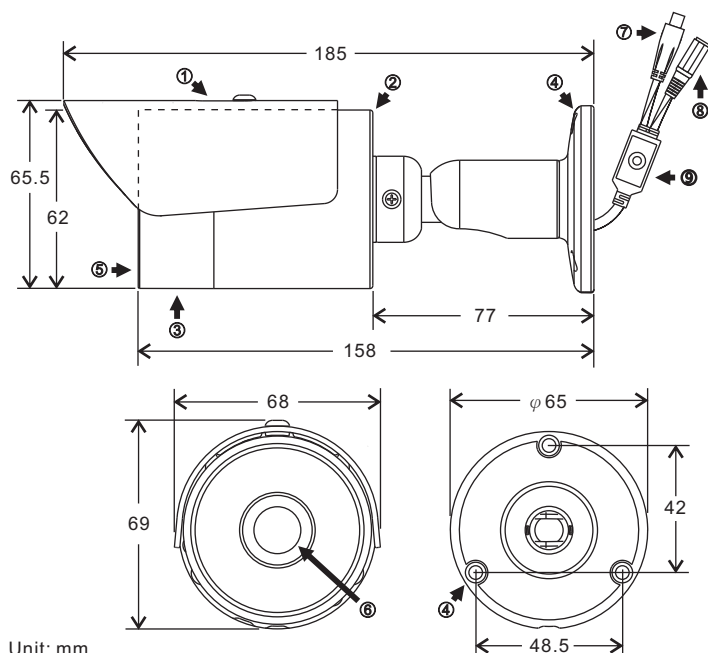
## AHD IR CAMERA

66-AHD831ACSE-1



### Instruction Manual

#### Part Description & Dimensions

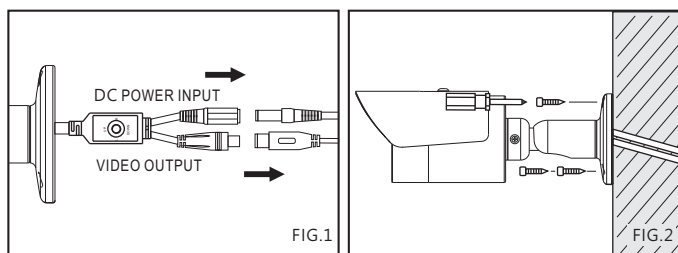


Unit: mm

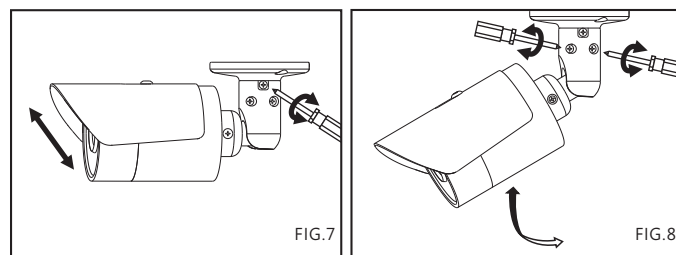
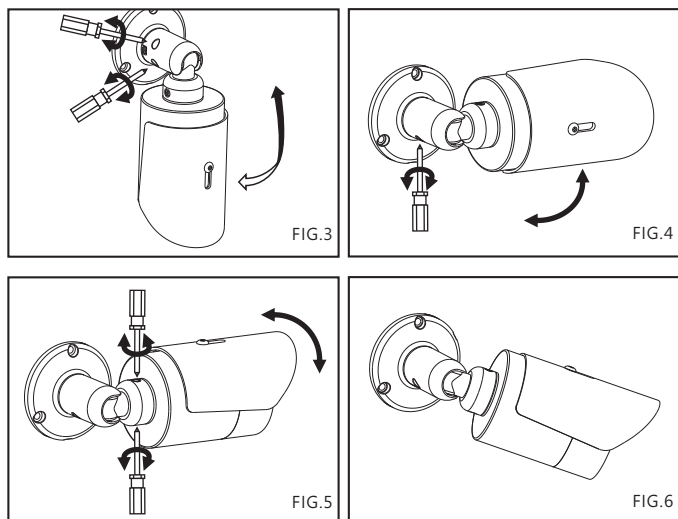
- |                |                                         |
|----------------|-----------------------------------------|
| ① SUN SHIELD   | ⑥ LENS                                  |
| ② MAIN BODY    | ⑦ VIDEO OUTPUT JACK                     |
| ③ FRONT COVER  | ⑧ DC POWER INPUT JACK (DC12V $\pm$ 10%) |
| ④ BRACKET BASE | ⑨ 5-WAY OSD TACT SWITCH                 |
| ⑤ WINDOWS      |                                         |

#### Installation

1. Remove the camera from the box first. Connect the power cable and video cable to the video output jack and DC power input jack (FIG. 1), and then secure the camera to the wall (FIG. 2).

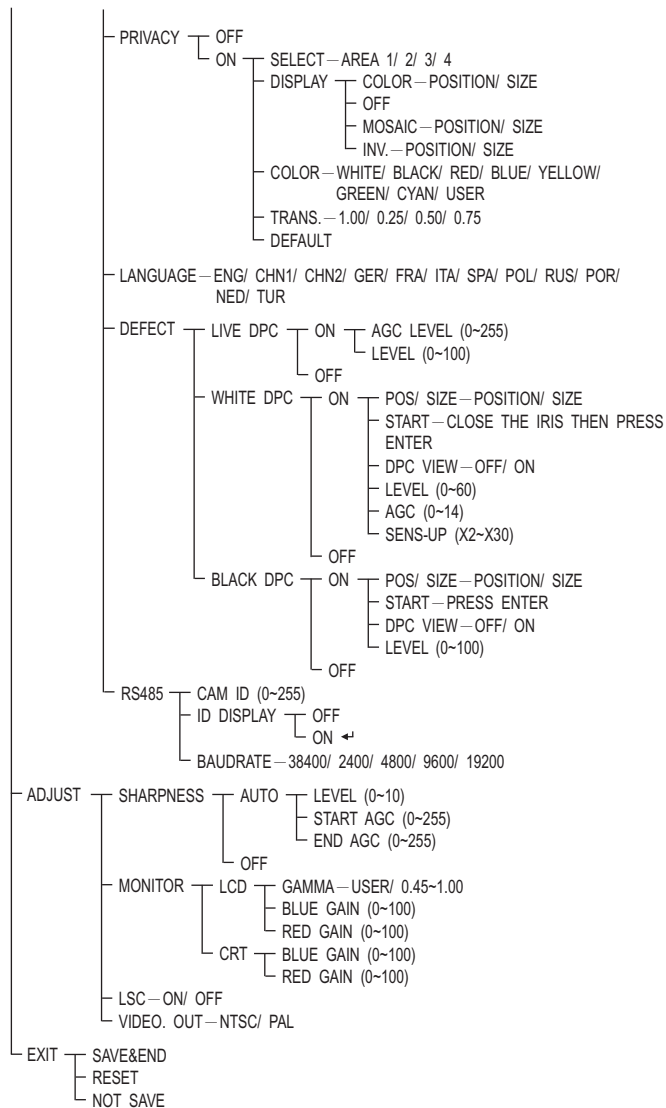


2. Adjust the five adjustment screws to move the camera to the desired angle, and then tighten the adjustment screws (FIG. 3-FIG. 8).



#### Menu Map

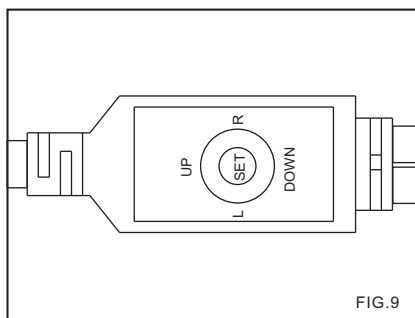
|           |           |                                                             |                                      |                                 |                                      |         |                      |                              |
|-----------|-----------|-------------------------------------------------------------|--------------------------------------|---------------------------------|--------------------------------------|---------|----------------------|------------------------------|
| MAIN MENU | LENS      | MANUAL                                                      | DC                                   | MODE                            | INDOOR                               | OUTDOOR | MIN SHU - 1/30(1/25) | MAX SHU - 1/60(1/50)~1/50000 |
|           |           |                                                             |                                      | IRIS SPEED (0~15)               |                                      |         |                      |                              |
|           | EXPOSURE  | SHUTTER - AUTO/ 1/30(1/25)/ 1/60(1/50)/ FLK-1/50000/ X2-X30 |                                      |                                 |                                      |         |                      |                              |
|           |           | AGC (0~15)                                                  |                                      |                                 |                                      |         |                      |                              |
|           |           | SENS-UP                                                     | OFF                                  |                                 |                                      |         |                      |                              |
|           |           |                                                             | AUTO - SENS-UP (X2-X30)              |                                 |                                      |         |                      |                              |
|           |           | BRIGHTNESS (1~100)                                          |                                      |                                 |                                      |         |                      |                              |
|           |           | D-WDR                                                       | OFF                                  |                                 |                                      |         |                      |                              |
|           |           |                                                             | ON - LEVEL (0~8)                     |                                 |                                      |         |                      |                              |
|           |           |                                                             | AUTO                                 |                                 |                                      |         |                      |                              |
|           |           | DEFOG                                                       | OFF                                  |                                 |                                      |         |                      |                              |
|           |           |                                                             | AUTO                                 | POS/SIZE - POSITION/ SIZE       |                                      |         |                      |                              |
|           |           |                                                             |                                      | GRADATION (0~2)                 |                                      |         |                      |                              |
|           |           |                                                             |                                      | DEFAULT                         |                                      |         |                      |                              |
|           | BACKLIGHT | OFF                                                         |                                      |                                 |                                      |         |                      |                              |
|           |           | BLC                                                         | LEVEL - MIDDLE/ HIGH/ LOW            |                                 |                                      |         |                      |                              |
|           |           |                                                             | AREA - POSITION/ SIZE                |                                 |                                      |         |                      |                              |
|           |           |                                                             | DEFAULT                              |                                 |                                      |         |                      |                              |
|           |           | HSBLC                                                       | SELECT - AREA 1/ 2/ 3/ 4             |                                 |                                      |         |                      |                              |
|           |           |                                                             | DISPLAY                              | ON - POSITION/ SIZE             |                                      |         |                      |                              |
|           |           |                                                             | OFF                                  |                                 |                                      |         |                      |                              |
|           |           |                                                             | BLACK MASK - ON/ OFF                 |                                 |                                      |         |                      |                              |
|           |           |                                                             | LEVEL (0~100)                        |                                 |                                      |         |                      |                              |
|           |           |                                                             | MODE                                 | ALL DAY                         |                                      |         |                      |                              |
|           |           |                                                             |                                      | NIGHT - AGC LEVEL (0~255)       |                                      |         |                      |                              |
|           |           |                                                             | DEFAULT                              |                                 |                                      |         |                      |                              |
|           | WHITE BAL | ATW                                                         |                                      |                                 |                                      |         |                      |                              |
|           |           | AWC -> SET                                                  |                                      |                                 |                                      |         |                      |                              |
|           |           | INDOOR                                                      |                                      |                                 |                                      |         |                      |                              |
|           |           | OUTDOOR                                                     |                                      |                                 |                                      |         |                      |                              |
|           |           | MANUAL                                                      | BLUE (0~100)                         |                                 |                                      |         |                      |                              |
|           |           |                                                             | RED (0~100)                          |                                 |                                      |         |                      |                              |
|           |           | AWB                                                         |                                      |                                 |                                      |         |                      |                              |
|           | DAY&NIGHT | EXT                                                         | D -> N (DELAY) - 0~60                |                                 |                                      |         |                      |                              |
|           |           |                                                             | N -> D (DELAY) - 0~60                |                                 |                                      |         |                      |                              |
|           |           | AUTO                                                        | D -> N (AGC) - 1~255                 |                                 |                                      |         |                      |                              |
|           |           |                                                             | D -> N (DELAY) - 0~60                |                                 |                                      |         |                      |                              |
|           |           |                                                             | N -> D (AGC) - 1~255                 |                                 |                                      |         |                      |                              |
|           |           |                                                             | N -> D (DELAY) - 0~60                |                                 |                                      |         |                      |                              |
|           |           | COLOR                                                       |                                      |                                 |                                      |         |                      |                              |
|           |           | B/W                                                         | BURST - OFF/ ON                      |                                 |                                      |         |                      |                              |
|           |           |                                                             | IR SMART                             | OFF                             |                                      |         |                      |                              |
|           |           |                                                             | ON                                   | LEVEL (0~15)                    |                                      |         |                      |                              |
|           |           |                                                             |                                      | AREA - POSITION/ SIZE           |                                      |         |                      |                              |
|           |           |                                                             | IR PWM - 100~1/ OFF                  |                                 |                                      |         |                      |                              |
|           | NR        | 2DNR - MIDDLE/ HIGH/ OFF/ LOW                               |                                      |                                 |                                      |         |                      |                              |
|           |           | 3DNR - MIDDLE/ HIGH/ OFF/ LOW                               |                                      |                                 |                                      |         |                      |                              |
|           | SPECIAL   | CAM TITLE                                                   | OFF                                  |                                 |                                      |         |                      |                              |
|           |           |                                                             | ON                                   |                                 |                                      |         |                      |                              |
|           |           | D-EFFECT                                                    | FREEZE - OFF/ ON                     |                                 |                                      |         |                      |                              |
|           |           |                                                             | MIRROR - OFF/ MIRROR/ V-FLIP/ ROTATE |                                 |                                      |         |                      |                              |
|           |           |                                                             | NEG. IMAGE - OFF/ ON                 |                                 |                                      |         |                      |                              |
|           |           | MOTION                                                      | OFF                                  |                                 |                                      |         |                      |                              |
|           |           |                                                             | ON                                   | SELECT - AREA 1/ 2/ 3/ 4        |                                      |         |                      |                              |
|           |           |                                                             |                                      | DISPLAY                         | ON - POSITION/ SIZE                  |         |                      |                              |
|           |           |                                                             |                                      | OFF                             |                                      |         |                      |                              |
|           |           |                                                             |                                      | SENSITIVITY (0~100)             |                                      |         |                      |                              |
|           |           |                                                             |                                      | COLOR - GREEN/ BLUE/ WHITE/ RED |                                      |         |                      |                              |
|           |           |                                                             |                                      | TRANS - 1.00/ 0.75/ 0.25/ 0.00  |                                      |         |                      |                              |
|           |           |                                                             |                                      | ALARM                           | VIEW TYPE - ALL/ OFF/ BLOCK/ OUTLINE |         |                      |                              |
|           |           |                                                             |                                      |                                 | OSD VIEW - ON/ OFF                   |         |                      |                              |
|           |           |                                                             |                                      |                                 | ALARM OUT. - ON/ OFF                 |         |                      |                              |
|           |           |                                                             |                                      |                                 | ALARM SIG. - HIGH/ LOW               |         |                      |                              |
|           |           |                                                             |                                      |                                 | TIME (1~15)                          |         |                      |                              |
|           |           |                                                             |                                      | DEFAULT                         |                                      |         |                      |                              |



## User OSD Setting

Setting switches and functions (FIG.9).

1. UP : Push **UP** to move the cursor upwards or to select items.
2. L : Push **L** to move the cursor to the left and to select or adjust the parameters of the selected item. The parameters changes each time this switch is pushed.
3. R : Push **R** to move the cursor to the right and to select or adjust the parameters of the selected item. The parameters changes each time this switch is pushed.
4. DOWN : Push **DOWN** to move the cursor downwards or to select items.
5. SET : Press **SET** to execute selections and display a submenu for an item with the mark.



## NOTES

1. Press and hold **L** for more than 5 sec. to enter the 1280H mode.
2. Press and hold the **R** for more than 5 sec. to enter the AHD mode.
3. Press and hold **DOWN** for more than 5 sec. to enter the NTSC or PAL mode.

## Setting Menu and Functions

To Open and Exit the Menu screen

1. Press "SET" to show the menu on the screen. Check the current settings on the menu.
2. Press or button to select the options then use or button to select a mode.
  - SAVE&END: Save the settings of the internal OSD menu.
  - NOT SAVE: Discard the settings of the internal OSD menu.
  - RESET: Restore the camera settings to factory defaults.
  - RETURN: Return to the previous page.
  - EXIT: Exit the main menu.

| MAIN MENU    |            |
|--------------|------------|
| ▶ 1. LENS    | MANUAL     |
| 2. EXPOSURE  | ←          |
| 3. BACKLIGHT | OFF        |
| 4. WHITE BAL | ATW        |
| 5. DAY&NIGHT | EXIT ←     |
| 6. NR        | ←          |
| 7. SPECIAL   | ←          |
| 8. ADJUST    | ←          |
| 9. EXIT      | SAVE&END ← |

## Specifications

| D/N 720p AHD IR CAMERA  |                  |                                                                                                   |          |
|-------------------------|------------------|---------------------------------------------------------------------------------------------------|----------|
| Model No.               | AHD831A3.6       |                                                                                                   | AHD831A6 |
| Lens                    | Focal Length     | 3.6mm                                                                                             |          |
|                         | Iris             | F2.0                                                                                              |          |
|                         | Angle of View    | H                                                                                                 | 72.2°    |
|                         |                  | V                                                                                                 | 52.9°    |
|                         |                  | D                                                                                                 | 94.3°    |
| Power Input Voltage     |                  | DC12V ±10%                                                                                        |          |
| System                  |                  | NTSC or PAL                                                                                       |          |
| Pick Up Element         |                  | 1/3" CMOS Image Sensor                                                                            |          |
| Effective Pixels        |                  | 1,305(H) x 977(V)                                                                                 |          |
| Scanning System         |                  | Progressive Scan                                                                                  |          |
| Menu Control            |                  | OSD Control                                                                                       |          |
| Sync. Mode              |                  | Internal                                                                                          |          |
| Infrared Cut Filter     |                  | Auto Selectable, Automatic Switch from Color Mode to Monochrome                                   |          |
| Resolution              |                  | 1,280(H) x 720(V) @ 30/25fps                                                                      |          |
| Minimum Illumination    |                  | 0.02Lux / F1.8, 0Lux (IR On)                                                                      |          |
| S/N Ratio               |                  | More than 55dB (AGC-Off)                                                                          |          |
| Auto Gain Control       |                  | AUTO (16 Steps)                                                                                   |          |
| White Balance           |                  | ATW / AWC / INDOOR / OUTDOOR / MANUAL / AWB                                                       |          |
| Shutter                 | Auto             | 1/60(1/50)S ~ 1/50,000S                                                                           |          |
|                         | Manual           | 1/30(1/25)S, 1/60(1/50)S, FLK, 1/240S, 1/480S, 1/1,000S, 1/2,000S, 1/5,000S, 1/10,000S, 1/50,000s |          |
| Sense-Up                |                  | OFF / AUTO (X2 ~ X30)                                                                             |          |
| D-WDR                   |                  | OFF / ON / AUTO                                                                                   |          |
| Back Light Compensation |                  | OFF / BLC / HSBLC                                                                                 |          |
| Noise Reduction         |                  | 2DNR & 3DNR                                                                                       |          |
| Defog                   |                  | OFF / AUTO                                                                                        |          |
| Privacy Masking         |                  | OFF / ON                                                                                          |          |
| Privacy Masking Zone    |                  | 4 Zones                                                                                           |          |
| OSD Language            |                  | ENG / CHN1 / CHN2 / GER / FRA / ITA / SPA / POL / RUS / POR / NED / TUR                           |          |
| Video Output            |                  | AHD720P / 1280H                                                                                   |          |
| Power Consumption       |                  | 4.7W                                                                                              |          |
| Operating Temperature   |                  | -40°C ~ +50°C (-40°F ~ 122°F)                                                                     |          |
| IP Rating               |                  | IP66                                                                                              |          |
| Window                  |                  | φ 59 Heat Resistant Glass                                                                         |          |
| Infrared LED            | Peak Wavelength  | 850nm                                                                                             |          |
|                         | Beam Spread      | 30°                                                                                               |          |
|                         | Radiant Distance | 20M                                                                                               |          |
| Dimensions              |                  | 68mm(W) x 69mm(H) x 185mm(D)                                                                      |          |
| Weight                  |                  | 410g                                                                                              |          |

Design and specifications are subject to change without notice.