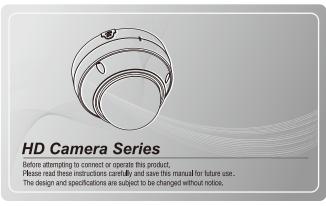
## **USER GUIDE MANUAL**

- Dome Camera

**Part Names** 

IR TYPE

14 IR LED Board



P/N: 388059A25

Address / communication setting

32



DO NOT REMOVE COVER (OR BACK).

REFER SERVICING TO QUALIFIED

SERVICE PERSONNEL.

NO USER SERVICEABLE PARTS INSIDE.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "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.

## Regulatory Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1)This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may

cause undestred operations. 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 in a resident installation. It is still a resident in the provident providence in a resident installation and the providence with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause interference, in which case the user will be required to correct the interference

WARNING - Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the

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

   Power Supply: This camera must always be operated a Do 12V, AC 24V

   Handling of the unit: Be careful not to spill water or other liquids on the unit.

   Operating and storage location: Avoid viewing a very bright object (such as light fittings) during an extended period.

  Avoid operating or storing the unit in the following locations:

   Extremely hot or cold places (operating temperature 10°C 50°C, however, we recommend that the unit be used within a temperature range of 0°C 45°C).

- Ange of U visit place. Places exposed to rain and places subject to strong vibration Clon to nearly place. Places exposed to rain and places subject to strong vibration Clon to nearly operating the control of the control of the Unit Handing of the Unit Remove dust or dirt on the surface of the CMOS sensor with a blower. Avoid the use of vlotallie solvents such as thinners, alcohol, benzene and insecticides. They may damage the surface finish and/or impair the operation of the camera.

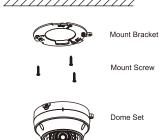
## Installation





## Machine Screw

- Fix the base housing with the supplied 3pcs of screws on the ceiling or wall.
- · Adjust the camera direction by turning the gimbal bracket.
- · Firmly fix the decoration ring into the base.



# Dimensions(mm)

Baudrate setting

PROTOCOL setting

LOOP setting

 
 S/W NO
 PELCO D
 EZP

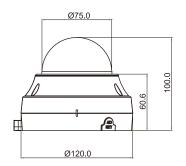
 4
 OFF
 ON
 Program input setting

ADDRESS(ID)setting

\* ID setting by binary notation

ADDRESS 128

S/W NO DOWNLODE MODE NOMAL MODE
7 ON OFF





## Specification

Specifications are subject to be changed without notice.

| Image Sensor      | 1/3" Panasonic CMOS Sensor   |
|-------------------|--|
| Total Pixels      | 1956(H) x 1266(V) = 2.48M pixels                                     |
| Active pixels     | 1944(H) x 1092(V) = 2.12M pixels                                     |
| Scanning system   | Progressive Sacn   |
| Resolution        | Digital: 1080p/30(25)fps, 720p/60(50)fps, 720p/30(25)fps             |
|                   | Analog : 700TVL  |
| Min. illumination | Color: 0.5 lux, BW: 0.1 lux, Color DSS: 0.002 lux, BW DSS: 0.001 lux |
| Video Output      | HD : HD-SDI, EX-SDI, Analog SD : VBS(without WDR)                    |
| Model             | D&N / IR-CDS   |
| Brigntness        | 0 ~ 20 steps   |
| Shutter speed     | Auto / Manual ( 1/30(1/25) ~ 1/30000 )                               |
| DSS               | Off / x2 / x4( x8 : 60 or 50 fps mode only)                          |
| AGC               | Off / On   |
| Flickerless       | Off / On   |
| WDR/BLC           | Off / WDR / BLC  |
| DAY&NIGHT         | Auto / Day / Night   |
| WHITE BAL         | Auto / One Push / Manual / Indoor / Outdoor                          |
| HLC               | Off / On / Night only  |
| DNR               | Off / Low / Middle / High / Auto                                     |
| Mirror            | Off / H / V / H&V  |
| Sharpness         | 0 ~ 10 steps   |

# **Set Camera DIRECTION**

Feature

· Full HD Resolution

• 14pcs IR LED · 3MP 3.6mm Fixed Lens

• DAY & NIGHT

 Defog Function Dome size: 75Ø

• 1/3" Panasonic CMOS Sensor

Motorized : Pan(0°~350°), Tilt(20°~90°)

· Real-time True WDR(Wide Dynamic Range)

• DNR(Digital Noise Reduction: 2D + 3D)

· IP66 / IK10 for outdoor application • Power : DC12 / AC 24(50Hz ~ 60 Hz)

1920x1080p / 30fps(25fps), 1280x720p / 30fps(25fps), 1280x720p / 60fps(50fps)

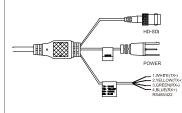






TILT SWIVEL 20°~ 90°

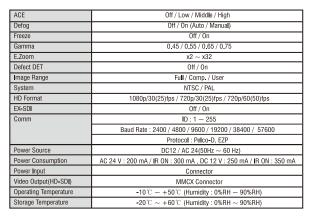
# **Cable Connection**







Remote Control



Camera menu is subject to be changed without prior notice to upgrade and quality increase and we may use slip sheet for the change.

Please check the camera version and the slip sheet if the camera menu and this manual menu is not matched

## MAIN MENU



4 WHITE BALANCE

[EXIT] [SAVE] [DFLT]

◆ AWB : Select WHITE BALANCE mode

Functions can be setup using "Menu Key Command" of Visca protocol. The menu consists of the "Main Menu" and "Sub Menu".

The main menu is displayed where 6 camera functions can be selected. To the push of each main menu selection, the sub-menu is displayed

If you want save the menu, select [SAVE].

If you want not save the menu, select [EXIT] (After select, Power off -> on) If you want default the menu, select [DFLT]

- **♦** MODEL
- ◆ MODEL : Select model

WHITE BAL

[BACK] [SAVE] [DFLT]

► AUTO / ONE PUSH- / MANUAL / INDOOR / OUTDOOR

▶ MANUAL : Color can be corrected when the user increases or decreases

Delighting Automatically adjusts color according to the available lighting.

readjusted only by pressing ONE PUSH

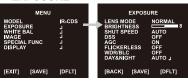
○ OUTDOOR : Set color temperature to be Outdoor light (5100°K)

"RED GAIN" or "BLUE GAIN".

DONE PUSH: It is a fixed white balance mode that may be automatically

▶ D&N / IR-CDS(Default)

## 2 EXPOSURE



- ◆ LENS MODE : Select Lens mode
- ► NORMAL / DEBLUR
- BRIGHTNESS: Adjust brightness level
- ► 0(dark) ~ 20(bright) steps
- SHUT SPEED : Can be set in AUTO or MANUAL
- ► AUTO / MANUAL.
- ▷ Manual Shutter Speed
- \* 30 / 25 fps mode: x4, x2, 1/30(25), 1/60(50), 1/120(100), 1/250, 1/700, 1/1000, 1/1600, 1/2500, 1/5000, 1/7000, 1/10000, 1/30000 sec
- DSS: Select maximum DSS(Digital Slow Shutter)
- \* 30 / 25 fps mode ► OFF / x2, x4
- AGC : Select Auto Gain Control
- ► OFF / ON
- FLICKERLESS: Select Flickerless mode
- ► OFF / ON (remove screen flicker)

## 5 IMAGE



- ♦ HLC : Select High Light Compensation.
  - When extremely bright light is projected to the camera masking is used on the portion to prevent partial saturation on the monitor.
  - MODE: OFF/ON/NIGHT
  - LEVEL: 0 ~ 20 steps
  - COLOR: 0 ~ 13 steps
- DNR: Select Digital Noise Reduction
- ▶ OFF / LOW / MIDDLE / HIGH / AUTO
- MIRROR : Select a flip mode
- ► OFF / H / V / H&V
- H: You can flip the picture horizontally on the screen
- V: You can flip the picture vertically on the screen
- SHARPNESS : Adjust sharpness level
- ▶ 0 ~ 10 steps
- ACE: Select Digital WDR (Wide Dynamic Range)
- ▶ OFF / LOW / MIDDLE / HIGH

## SPECIAL FUNC

◆RED GAIN : Adjust R gain value

◆BLUE GAIN : Adjust B gain value

CHROMA: Adjust CHROMA gain value

▶ 0 ~ 20 steps

▶ 0 ~ 20 steps

▶ 0 ~ 20 steps



- . DEFECT: Compensates for bad pixels that may occur.
- Occurs when the whole screen is in full black or if there is bad pixelation and it changes the THRS values until the screen is fixed.
- \* When you use this function, you have to block the lens for blocking lights into the lens.
- ♦ IMAGE RANGE: Select image bit range. (Full: 100%, Compressed: 75%).
- ► FULL, COMP, USER
- SYSTEM : Select NTSC(30/60fps) or PAL(25/50fps).
- HD FORMAT : Select Digital output (1080p/30(25)fps, 720p/30(25)fps, 720p/60(50)fps)
- ◆ EX-SDI : Select EX-SDI mode (OFF / ON)

## 8 DISPLAY



- ◆ DISP SEL : Select display item.
- ▶ OFF / ON....
- ZOOM RATIO: OFF / ON
- ◆ SET TITLE : Select camera title menu (Text edit- max 40 characters)
- LANGUAGE : Select language.
- ► English / Simplified Chinese / Traditional Chinese / Japanese
- \*\* Character Table of Text edit Mode ABCDEFGHIJKLMNOPQRST UVWXYZabcdefghijk Imn opqrstuvwxyz,.(){}[]

0 1 2 3 4 5 6 7 8 9 \* + - / =~!?

## D BURST · OFF / ON

**3 EXPOSURE** 

- DEFOG: Carry out defog function
- 6 IMAGE ► OFF / ON
- ▷ LEVEL : LOW / MIDDLE / HIGH
- \* Can't use DEFOG and ACE at the same time
- (When ACE On, DEFOG is Off. And when DEFOG is On, ACE is Off)

♦ WDR/BLC : Select WDR(Wide Dynamic Range) or BLC(Back Light compensation)

▷ LEVEL : Adjust WDR level. ► LOW, MID-LOW, MIDDLE, MID-HIGH, HIGH

▷ POSITION : Adjust the window position ▷ SIZE : Adjust the window size

Margin between Day→Night switching level and Night→Day switching level.

Margin between Day→Night switching level and Night→Day switching level.

□ IR DETECTION: Setting IR-Detection mode. (ON / OFF)

POLARITY: External Input polarity (ACTIVE LOW / ACTIVE HIGH)

(When WDR On, BLC is Off. And when BLC is On, WDR is Off)

\* Can't use WDR and BLC at the same time.

DAY&NIGHT : Select Day&Night(Model : IR-CDS)

□ GAP : LOW, MIDDLE, HIGH / Default : LOW

DAY&NIGHT : Select Day&Night(Model : Day&Night)

► MODE : AUTO (Default) / EXT-IN / DAY / NIGHT

ANTI-SAT : LED saturation improves. (0~20, Default : 5)

ANTI-SAT : LED saturation improves. (0~20, Default : 5)

► MODE : AUTO-(Default) / DAY / NIGHT-

DELAY: 0 ~ 255 sec / Default: 5sec

DELAY: 0 ~ 255 sec / Default: 5sec

THRS: 0 ~ 7 / Default: 0

BURST: OFF / ON

\* WDR doesn't work in Shutter Manual Mode. \* When WDR on, CVBS output is disabled.

Day→Night switching level in Auto Mode. Switching in lower lux with higher threshold level.

Day→Night switching level in Auto Mode. Switching in lower lux with higher threshold level. □ GAP: LOW, MID-LOW, MIDDLE, MID-HIGH, HIGH / Default: LOW

▶ IR DET LEVEL : Setting IR-Detection level. (LOW, MID-LOW, MIDDLE, MID-HIGH, HIGH / Default : MID-HIGH)

- Freeze : Select real or still mode
- ► OFF / ON
- ◆ GAMMA : Select GAMMA
- ► 0.45 / 0.55 / 0.65 / 0.75
- ◆ E.ZOOM
- ► OFF / ON\_
- ▷ LIMIT : Max x2 ~ x19, x21, x23, x25, x28, x32
- POSITION : Select maximum digital zoom magnification.