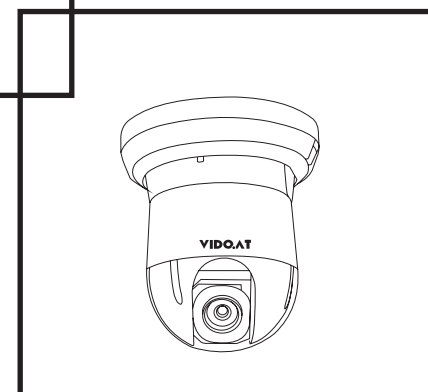
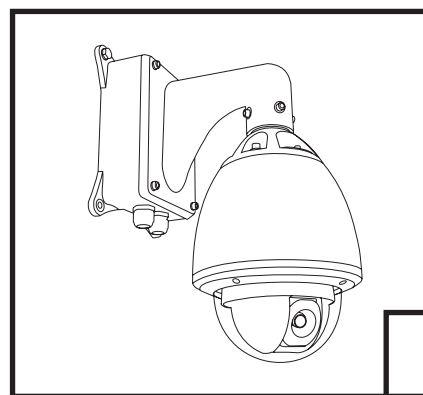


AU-G60, G65 and G70 Series

High Speed dome
Camera Series

User Manual
English
v2.33



WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECTS THROUGH THE VENTILATION GRILLS OR OTHER OPENINGS ON THE EQUIPMENT.

CAUTION
RISK OF ELECTRIC SHOCK.
DO NOT OPEN.



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.

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



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

FCC COMPLIANCE STATEMENT

FCC 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.

CAUTION: CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

CE COMPLIANCE STATEMENT

WARNING: THIS IS A CLASS A PRODUCT. IN A DOMESTIC ENVIRONMENT THIS PRODUCT MAY CAUSE RADIO INTERFERENCE IN WHICH CASE THE USER MAY BE REQUIRED TO TAKE ADEQUATE MEASURES.

CAUTION: BEFORE ATTEMPTING TO CONNECT OR OPERATE THIS PRODUCT, PLEASE READ THE LABEL ON THE BOTTOM AND USER'S MANUAL CAREFULLY

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Technical specification are subjects to change without prior notice. Manual may contain mistake or print error.
All trademarks mentioned belong to their respective owners.

1. PRECAUTION

Refer all work related to the installation of this product to qualified service personnel or system installers.

Do not attempt to disassemble the appliance

To prevent electric shock, do not remove screws or cover. There are no user-serviceable parts inside. Contact qualified service personnel for maintenance

Handle the appliance with Care

Do not strike or shake, as this may damage the appliance. It should be protected against extreme pressure, vibration and humidity during transportation and storage. Damages caused by improper transportation avoid the warranty.

Do not use strong or abrasive detergents when cleaning the appliance body and transparent cover.

Use a dry cloth to clean the appliance when it is dirty. When the dirt is hard to remove, use a mild detergent and wipe gently.

Do not operate the appliance beyond its specified temperature, humidity or power source ratings.

Do not use the dome camera in an extreme environment where high temperature or high humidity exists.

Use the **indoor models** within -10°C to +50°C (14°F to 122°F) and a humidity below 90%. The input power source is 24V AC, 50/60Hz and requires 1000mA.

Use the **outdoor models** within -20°C to +60°C (-4°F to 140°F) and a humidity below 90%. The input power source is 24V AC, 50/60Hz and requires 2500mA.

Do not expose the indoor model of dome camera to water or moisture, not try to operate it in wet areas.

Take immediate action when the indoor speed dome becomes wet. Turn off the power and refer servicing to qualified service personnel. Moisture may damage the appliance and cause electric shock.

Do not point the camera lens directly to sunlight or any strong light source.

This will cause permanent damage to the camera and voids the warranty.

Read this user's manual carefully before operating the appliance.

Make sure that local electric safety standards are followed when using or installing the appliance

Do not install the camera in other orientation as designed.

And do not bend or squeeze the structure, as this may damage the mechanical structure of the appliance and voids the warranty.

Do not touch the Cover with bare hands or any object.

These will scratch the surface and affect the image quality.

2. FEATURES

The G60-G70 series high speed dome camera series are designed for in- and outdoor video surveillance application. The integrated, motorized pan-tilt mechanic allows user to point the camera to any position (360° horizontal and 180° vertical). Both series can be equipped with digital zoom camera modules, which provide zooming function from 18 to 36 times (optical) and advanced image features.

Key features:

- 360° Pan and 180° Tilt range (90° with auto-image-flip)
- Support most well-known camera modules
- 128 preset points memory (80 can be used for auto tour function)
- 4 pattern tours
- 4 Scan tour
- Basic setup directly from Keyboard.
- Advanced setup through OSD (On Screen Display) menu.
- up to 24 privacy masking zones (depends on camera module)
- 7 alarm input & 2 output (4 input & 1 output pre-wired)
- Multi-Protocol through RS485 or coaxial cable.
- Direction Indicator on screen
- Aluminum Alloy structure with high intensity and heat-sinking
- High-precision step-motor for flicker-less image during movement.

Camera Features:

- High Resolution with 520TVL and Wide-Dynamic*
- Auto-Focus
- Auto-Iris
- Auto-Brightness control,
- Auto-Balance
- IR cutter control, Day-Night mode switching.
- Auto Slow-Shutter

Temperature monitoring and protection

- Alarm notification will be displayed once the inner temperature exceeds the limit
- In low temperature area, the dome camera will only start after the operation temperature is reached.
- Cooling fan activity is managed by the CPU (extends the duration)

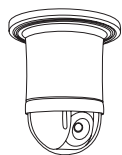
Other features:

- Proportional pan for Focus / Speed on different zoom factor.
- Auto-resuming user-defined action, such as tour, pattern or scan after selectable idle time.
- Power-up Action activates tour or pattern by default.

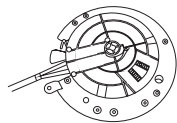
* depends on camera module type.

3. PACKING LIST

G60-S Indoor



G60
Core Unit
1 Piece

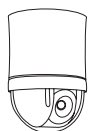


Indoor Roof-Mount
base platte
1 piece



Instruction and
operation manual
1 piece

G60-W Outdoor



G60
Core Unit
1 Piece

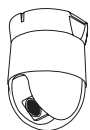


Out-Door housing
with sun.shield and
cover
1 piece

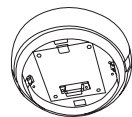


Instruction and
operation manual
1 piece

G65-S Indoor



G65
Core Unit
1 Piece



Indoor Roof-Mount
base platte
1 piece

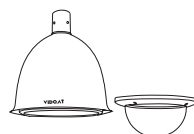


Instruction and
operation manual
1 piece

G70-W Outdoor



G70
Core Unit
1 Piece



Out-Door housing
with sun.shield and
cover
1 piece

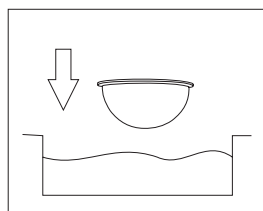


Spare dome
cover 1 piece



Instruction and
operation manual
1 piece

WARNING: The transparent cover part is sensitive and should be handled with care. Do not touch or rub the surface in any way with the protection foil. Improper cleaning method will cause permanent scratches on the cover and cause unclear image or focusing error of the camera. For Cleaning the cover, please replace the original first with the spare cover, and wash it by diving into warm water with non-corrosive cleaning solution.



4. INSTALLATION

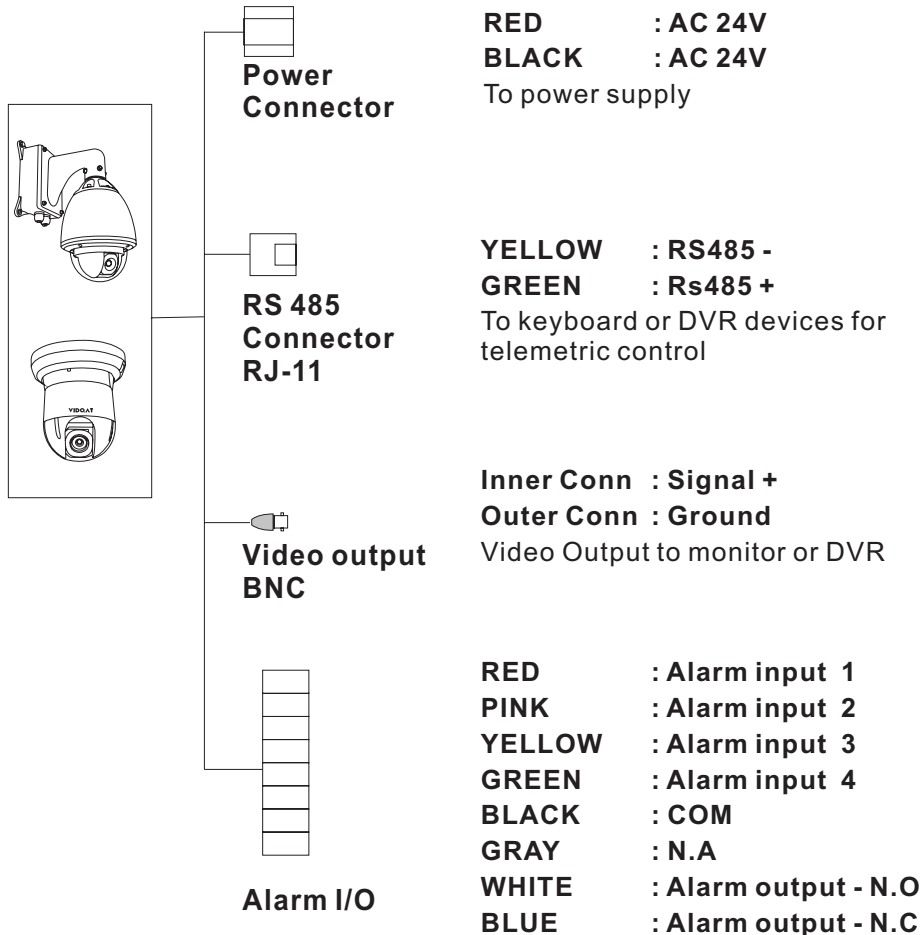
Safety Instructions before starting

- Do not install and operate this appliance in a flammable and explosive environment.
- Make sure that the installation is done according to the local electricity safety regulation of your country.
- Before installation and maintenance, make sure that the appliance is disconnected from the power source.
- Do not use any power source other than 24V AC, in order to prevent damages to this device. For details, please refer to the section "Precaution" in previous chapter for more details.
- Handle the device during the installation carefully. Falls or extreme vibration may cause irreparable damages and avoid the warranty.
- Do not install or operate the appliance near any high-voltage devices or high-voltage cable. The safety distance should remain at least 50 m.
- To archive best image quality, its recommended to use underground cable shielded with steel tube. Do not install the cable without any protection.
- In a thunderstorm area or region with high inductive voltage, such as high voltage transformer stations, it is necessary to use additional lightning-proof equipments or lightning rod for protection.
- For outdoor installation, lightning-proof and grounding of the device should be considered. Please refer to the industrial safety regulation and request of your country
- Grounding of the appliance should consider anti-interference and fulfill the safety requirements. Do not connect the ground with short-circuited or other high-voltage electric network.
- The resistance of down conductor should not exceed 4 Ohm, and its thickness should be at least 25mm²
- This appliance has the lightning-proof function which can prevent damages caused by high-voltage pulse, such as lightning strike below 1500.
- This appliance meets the Ip66 standard for water and dust proof. Do not install the indoor model for out-door application which is not designed with water protection. Make sure that the installation is protected from long-time water-drop or spatter, which may damage the appliance.
- Make sure that the environment of installation meets the requirement of the appliance, such as holding the weight, enough spaces for bracket and power supply.

4.INSTALLATION

Connector description

The wiring cable of G60-G70 series provides connectors for power supply, video and I/O interface

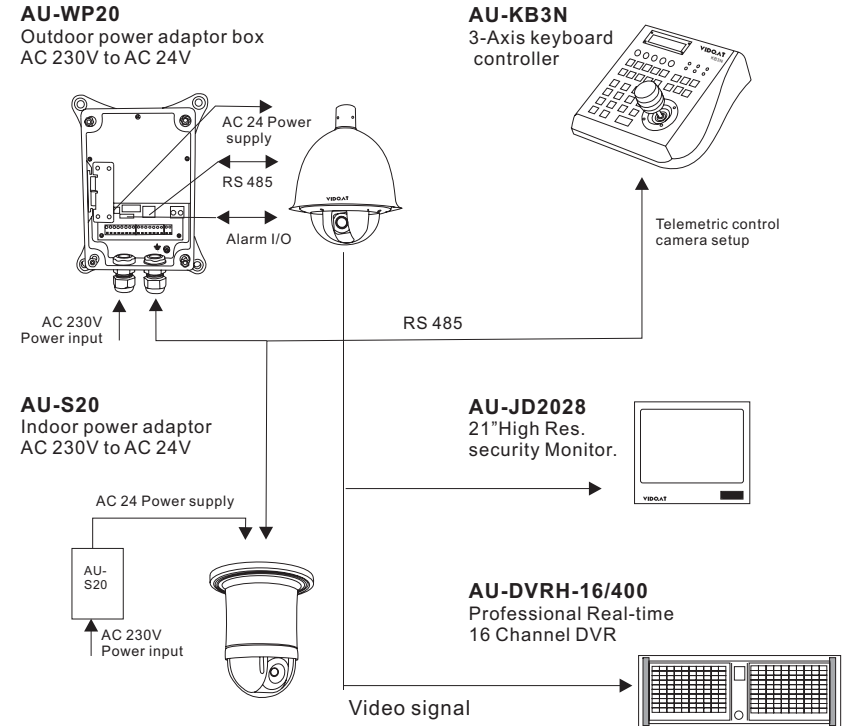


I/O interface to additional alarm sensor or control devices

4.INSTALLATION

Using optional accessories

The G60-G70 series speed dome cameras can be connected to various optional accessories through the standard connector types, which simplify the cable handling and avoids possible mistakes. All accessories are tested for max. compatibility and best performance.



RS485 cable

The telemetric control of the appliance uses RS485 serial communication with half-duplex transmission technology.

Depends on the cable type and baud rate, the transmission distance could vary. The following table shows max. distances based on cable with 0,56mm (24AWG) twisted pair:

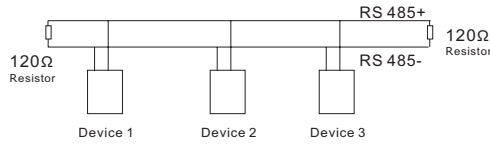
Baud Rate	Max. Distance
2400 bps	1700m
4800 bps	1100 m
9600 bps	700m
19200 bps	400m

Due the environmental interferences, such as eletromagnetic and induction fields, or number of connected appliance on the RS485 bus, the transmission range may be less, e.g with cable thinner than than 24AWG.

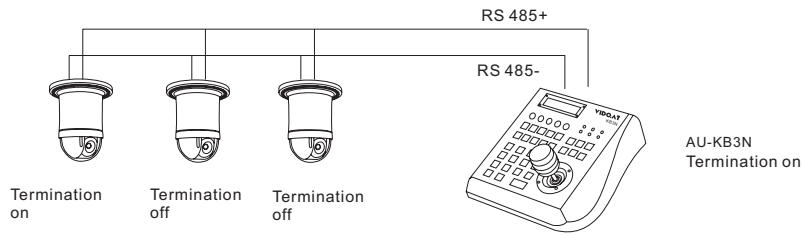
4.INSTALLATION

RS485 Termination

Devices using RS485 control are usually connected in daisy-chain. which requires termination with 120Ω resistor on both ends. Following picture illustrates the connection methods. please note that a daisy-chain connection type shall not exceed 7 meters.

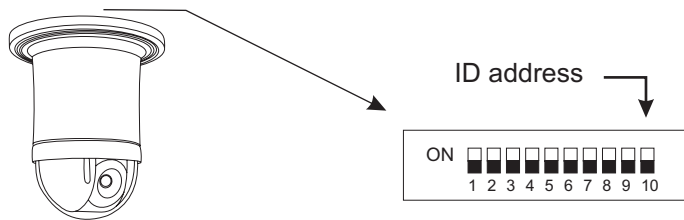


G60-G70 series speed domes provide integrated termination switch. It should be turned on when the dome is installed as the last device. If the controller keyboard is used such as AU-KB3N, you need also to turn on the termination on it. please refer to the keyboard's manual for details.



How to turn on termination on G60

The termination switch is located on the rear side of the connection board.

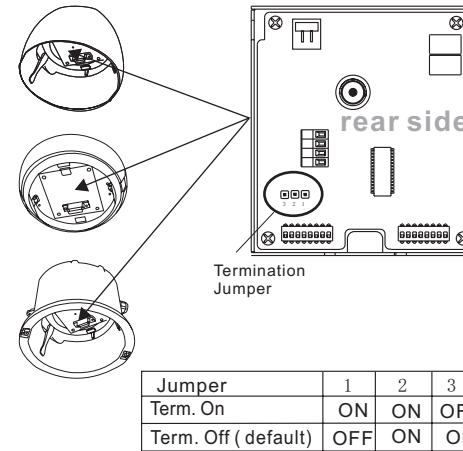


When No. 10 bit if the Dip is set to "ON", the 120Ω termination resistor is connected. The No. 10 bit if the Dip should be set to "ON" for the last speed dome connected to RS485 communication line.

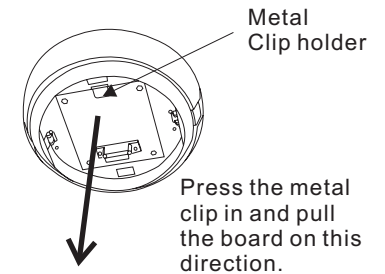
4.INSTALLATION

How to turn on termination on G65 and G70

The termination switch is located on the rear side of the connection board. For switching on, you need to open the

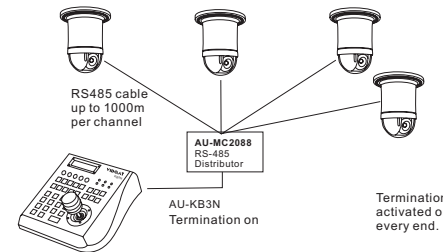


How to open the connector board
The connector board can be easily opened by holding the metal clip and pull.



Star-Connection

The star-form connection is mostly used. it enables the connection of different dome cameras in longer distance. It is recommended to use RS485 distributor (e.g AU-VC-MC2088) to ensure the telemetric data transmission:



The advantage of star-connection is that every channel can work independently and take a cable length up to 1000 meters(depends on cable quality). In case more dome camera are installed, the star-connection can be extended with additional RS485 distributors.

Video Cable

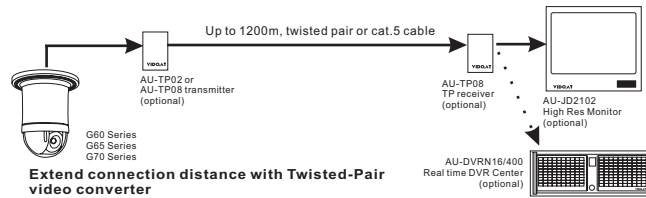
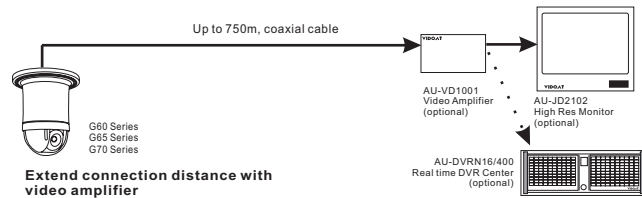
Coaxial cable with 75Ω impedance with copper conductor at center conductor, and shielded with 95% copper. The following table shows different cable type and its maximum length:

Cable standard	Max. Distance (m/ft)
RG 59 /U	229m / 750 ft
RG 6 /U	305m/ 1000 ft
RG 11 /U	457m / 1500 ft

The values are for reference only. Depends on the cable quality and environmental condition, the transmission distance might be less.

4.INSTALLATION

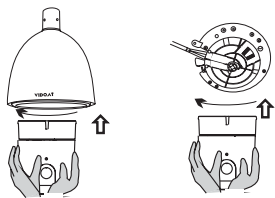
If the cable length is more than 400 m, it is recommended to use optional accessories, such as video amplifier (e.g. AU-VD-1001) or twisted-pair video converter (e.g. AU-TP02 or AU-TP08), for boost the video signal.



Installing the core unit to base board.

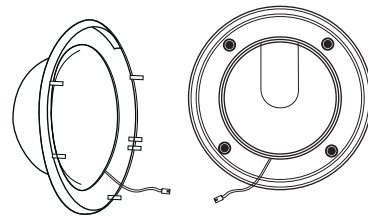
The G60-G70 series core unit and base board are packed separately, in order to be protected through the transportation. After unpacking and during the installation, the core unit should be installed as following:

G60 Series



Installing the core unit by pushing into the housing. Please note the position of connector.

Heater connector on outdoor housing



Outdoor housing cover

4.INSTALLATION

G65-70 Series

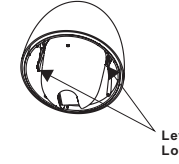
G70



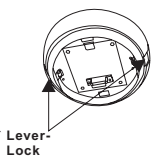
G65



G70

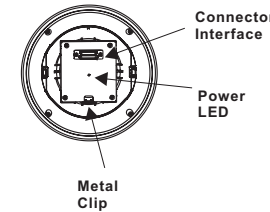


G65



Installing the core unit by pushing into the housing. please note the position of connector. For releasing, please press the lever-lock to core and pull off the unit.

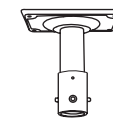
Lever-Lock



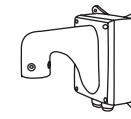
Once the base board is connected to power, the power LED will light.

Optional bracket accessories

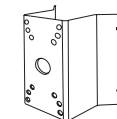
The G60- G70 Series can be equipped with various bracket accessories for indoor and outdoor installation. please contact your distributor for further details.



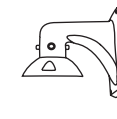
Ceiling mount



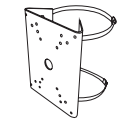
Wall mount and Power box



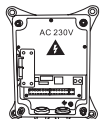
Corner Mount



Indoor Wall mount



Pole Mount



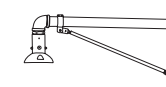
Outdoor Power Box



Indoor embedded mount (G65 and G70)



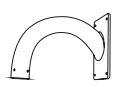
Indoor ceiling mount



Extended wall mount



Swan-Neck Mounting bracket



Wall mount

5. OPERATING THE SPEED DOME



Initial Screen

After powering up, the camera will enter the self-test mode and display the status screen (as in the picture left). It contains information about the model and current settings.

- **"G70-SC Series "**: Model number
- **V2.25**: Current firmware version
- **Protocol**: control protocol which currently used
- **Dome address**: Address ID of speed dome. please refer to the section "Protocol setup " for details.
- **Comm 9600,N,8,1**: current setting of the serial communication interface.
9600: Baud rate. please refer to section "Baud-Rate setup" for details
N, 8, 1: No parity bit, 8 bit length, 1 stop bit. this setting can not be changed

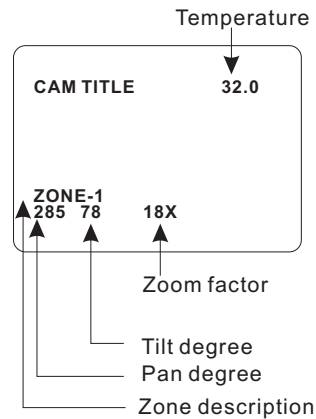
The initial screen will stay remain on until any user action is being taken. If the power-up action is set, the initial info will vanish immediatly.

Operation Screen

The operation screen can display additional information.

- Temperature: current temperature inside the speed dome(°C)
- Cam title: User definable camera title
- Zone: Current zone name
- Pan deg.: Pan angle, 0-359°
- Tilt deg.: Tilt angle, 0-90°
- Zoom Factor: Zoom factor

Display of the information can be activate or deactivate through the OSD menu. please refer to the system setting for details.



PTZ operation

For the surveillance operation, the dome can be controlled from a keyboard device (e.g. AU-KB3N), Multiplexer or DVR through RS485 Interface. Make sure that the cable is connected and the settings (baud rate, Address ID and protocol) of both keyboard and the dome are configured correctly. For more description about the PTZ operation, please refer to the user's manual of the keyboard.

OSD

OSD Menu

The G60-G70 Series are equipped with new OSD-Menu function. All operation functions and camera related settings can be changed or modified here. In order to use the OSD function, a telemetric controller device, such as Keyboard, DVR or other devices with similiar function is necessarily required. please make sure that the device used is physically connected to the dome properly, and all connection parameters are set correctly.

How to start the OSD menu

To start the OSD Menu, you need to press following key on the keyboard:

With AU-KB2A call 9 5 Enter or **2 X** call 9 Enter

With AU-KB3N Shot 9 5 Enter or **2 X** Shot 9 Enter

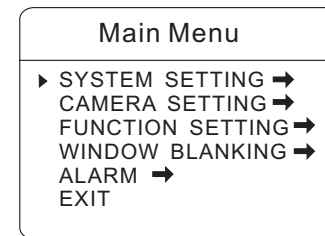
In case a DVR is used for the OSD, select "goto preset 95" or 2 X "goto preset 9". Please refer to the DVR's operation manual for more details.

Note that in some certain situations, it is not possible to enter the OSD menu:

1. The dome is running tour
2. Performing PTZ operation
3. Dome is receiving command other than OSD-request from the keyboard.

please stop the operation and try again.

Main menu and navigation



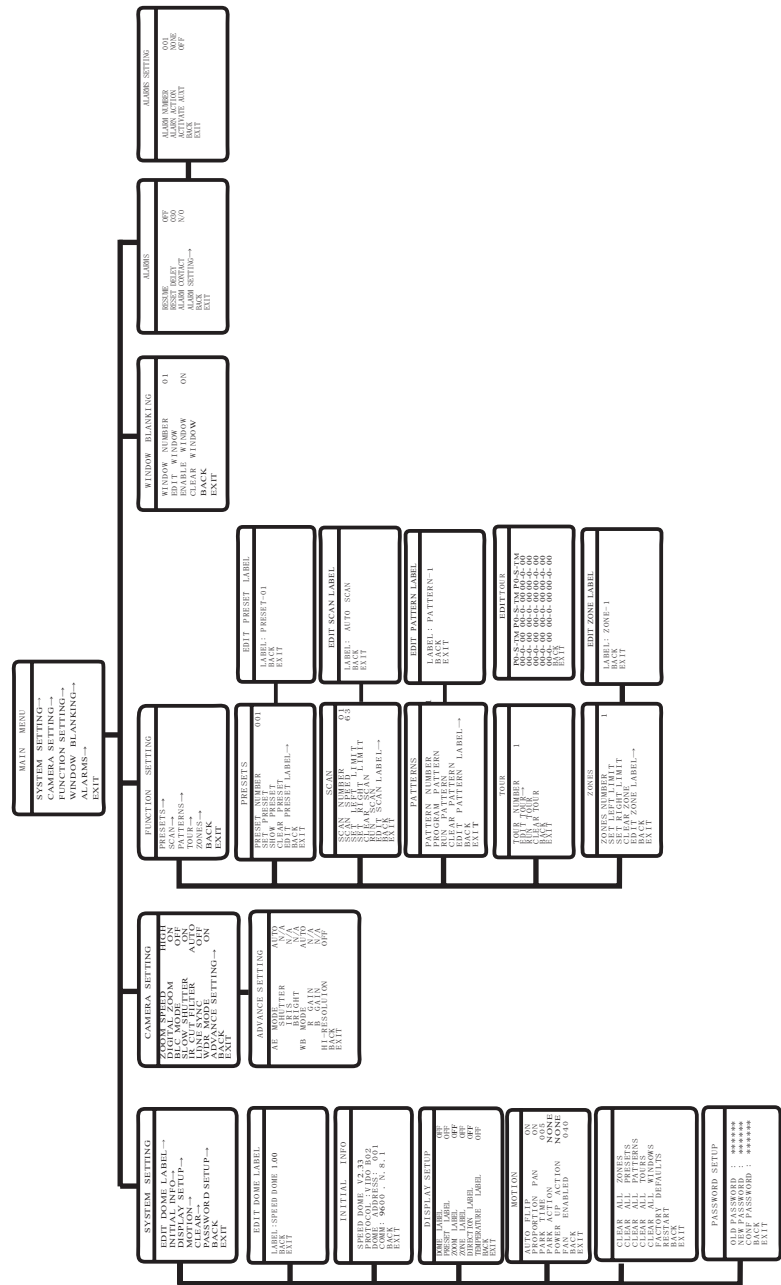
After entering the OSD Menu, the screen will show menu items . Use the controller' joystick to navigate through the menu's main and sub items by moving in the direction. The angle mark on the beginning of every items indicates the selection.

- UP, DOWN: - Moving between current menu items
- Changing the value in subitems
- RIGHT: - Enter the selected menu item
- Confirm the value change and return to item selection
- LEFT: Exit from sub menu

For more inforamtion, please refer to the illustration on the next page for the OSD menu structure.

Symbols and indicator

- ▶ Cursor.
- ⚙ Sub item is selected. use up or down to change value
- This item has subitem(s)



System Setting

In system setting menu, you can modify operation and display setting, such as dome label, temperature and display of various value on the operational screen.

SYSTEM SETTING

- EDIT DOME LABEL
- INITIAL INFO
- DISPLAY SETUP
- MOTION
- CLEAR
- PASSWORD SETUP
- BACK
- EXIT

EDIT DOME LABEL

⚙️ LABEL : ENTRANCE

- BACK
- EXIT

INITIAL INFO

FIRMWARE V2:33
 PROTOCOL: FACTORY
 DOME ADDRESS: 001
 COMM: 4800, N, 8, 1
 BACK
 EXIT

DISPLAY SETUP

⚙️ DOME LABEL	OFF
PRESET LABEL	OFF
ZOOM LABEL	ON
ZONE LABEL	OFF
DIRECTION LABEL	ON
TEMPERATURE LABEL	OFF
BACK	
EXIT	

Dome Label:

1. use UP or DOWN to change the character.
2. use RIGHT to move to next char.
3. use RIGHT to move to last char and save.
4. use Left to first char and cancel.

Initial information:

Shows the information about current setting.

Display setup

Activate the display for the on-screen info in operaton mode.

- Dome label:** the name of dome
- Preset label:** shows the labe of every preset
- Zoom label:** shows zoom factor on screen
- Zone label:** shows the zone name
- Direction label:** shows the coordinates

Temperature label: shows the cur. temp in the speed dome

OSD - Motion, Clear, Password

MOTION

⚙️ AUTO FLIP ON
 PROPORTION PAN ON
 PARK TIME 005
 PARK ACTION SCAN
 POWER UP ACTION AUTO
 BACK
 EXIT

Motion control

AUTO FLIP: Auto. Image flip in tilt range from 90° to 180°

PROPORTIONAL PAN: depends on the zoom factor, the dome will adjust the pan and tilt speed automatically for comfortable viewing.

PARK TIME: defines the idle time prior to start a custom defined action(park action).The range is from 1 to 240 minutes. This function can be deactivated by setting the minute to 0.

PARK ACTION: the action which will be started after the idle time (park time). Selectable between Preset, Scan, Pattern (Nr), Tour or None.

POWER UP ACTION: defines the action which will be started after power up and self test. Selectable between Auto, Preset 1, Scan, Pattern (Nr), Tour or None. By selecting Auto, the dome will resume the last action before power off.

CLEAR

CLEAR ALL ZONES
 CLEAR ALL PRESETS
 CLEAR ALL PATTERNS
 CLEAR ALL TOURS
 CLEAR ALL WINDOWS
 FACTORY DEFAULTS
 RESTART
 BACK
 EXIT

Clear

You can clear setting's memory or reset the camera to factory default. The following functions are supported:

- Clear Zones
- Clear all presets
- Clear all patterns
- Clear all tours
- Clear all windows
- Factory defaults

Warning: The clear action can not be undone. once a item is cleared it is impossible to retrieve the deleted setting. Please make sure that the requested clear action is desired.

Password setup

You can change password to access the OSD menu. Default Password is 000000.

PASSWORD SETUP

OLD PASSWORD : *****
 NEW PASSWORD : *****
 CONF PASSWORD : *****
 ENABLE PASSWORD OFF
 BACK
 EXIT

OSD - Camera Setting

CAMERA SETTING

⚙️ ZOOM SPEED HIGH
 DIGITAL ZOOM ON
 BLC MODE OFF
 SLOW SHUTTER ON
 IR CUT FILTER AUTO
 LINE SYNC OFF
 WDR MODE ON
 ADVANCE SETTING →
 BACK
 EXIT

Camera setting

In camera setting menu, you can setup camera module related settings. please note that depends on module's capability, some function may not available. please contact your local sales representative for detailed information.

ZOOM SPEED: defines the speed when performing zoom function.

DIGITAL ZOOM: Activate or deactivate the digital zoom function of the camera module.

BLC MODE: Select the Back Light Compensation mode, improves the image when an object has strong back light.

SLOW SHUTTER: Activates the Slow Shutter function of the camera, which provides a higher light sensibility in low-environment.

IR CUT FILTER: Enables the removal of Infrared Cutter Filter (IRC), also known as "DAY/NIGHT" mode. with the removal of IRC, the camera turns into Black/White mode and has higher sensibility to low-light or IR-Light in the night. Selectable between On, Off or Auto. Only available on camera module with IRC function.

LINE SYNC: Enables and disables Line synchronize function.

WDR: Activates the Wide Dynamic Range function, which improves the image contrast when an object has very strong light on background. Only available with camera modules with WDR.

ADVANCE SETTING

⚙️ AE MODE AUTO
 SHUTTER N/A
 IRIS N/A
 BRIGHT N/A
 WB MODE AUTO
 R GAIN N/A
 B GAIN N/A
 HI-RESOLUTION OFF
 BACK
 EXIT

Advanced setting

Under the advanced setting, you can make improvements to image quality due to different environmental conditions.

AE MODE: Auto Exposure mode. Depends on the light condition in the surveillance area, you can set the AE in different modes and adjust the parameters, such as shutter speed, iris factor and brightness for the best image quality.

WB MODE: White balance mode, a image improvement based on DSP processing. you can also adjust the Red-Gain or Blue-Gain to change the color tone.

HI-RESOLUTION: Switch between 470-540 TVL (only with FCB-1010P)

OSD - Zones and Privacy Mask

ZONES	
ZONE NUMBER	1
SET LEFT LIMIT	
SET RIGHT LIMIT	
CLEAR ZONE	
EDIT ZONE LABEL	
BACK	
EXIT	

Zone

You can define the zones in the whole PT range up to up to 8 zones with individual label. When the display setting "Zone Label" is activated, the label will be displayed on the operation screen. The definition of the zones should not be overlapped.

ZONE NUMBER: supports up to 8 zones

SET LEFT LIMIT: Left limit of the current zone

SET RIGHT LIMIT: Right limit of the current zone

CLEAR ZONE: Delet the current zone

EDIT ZONE LABEL : change the laben of current zone.

WINDOW BLANKING	
WINDOW NUMBER	01
EDIT WINDOW	
ENABLE WINDOW	OFF
CLEAR WINDOW	
BACK	
EXIT	

Privacy Mask (Window Blanking)

Privacy Mask is used to protect the privacy area not to be displayed once the camera is pointed on, such asu levatory area or the operation desk of an ATM machine. It might be required for video surveillance application depends on the local law regulation. The speed domes supports up to 24 private masks. (depends on installed camera module, please contact your local sales representative for more information)

Hitachi camera modules: 8 masking area.

Sony Camera modules: up to 24 masking area(except the 45 series provides only 8)

LG,CNB Camera modules: no masking function.

WINDOW NUMBER: Mask number

EDIT WINDOW: Edit position of the mask by joystick of the keyboard. presse IRIS-OPEN to save.

ENABLE WINDOW: shows the mask on screen OFF

CLEAR WINDOW: Delete the mask

OSD - Alarm Setting

ALARMS	
RESUME	OFF
RESET DELAY	020
ALARM CONTACT	N/C
ALARM SETTING	→
BACK	
EXIT	

Alarms

RESUME: Continue the function on the camera , if it was setting before the alarms.

RESET DELAY: How long the camera stay in Alarm position.

ALARM CONTACT: Setting between N/C (normal Close) or N/O (normal Open).

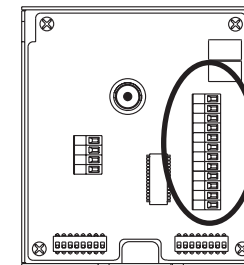
ALARM SETTING	
ALARM NUMBER	001
ALARM ACTION	TOUR
ACTIVATE AUX	AUX1
BACK	
EXIT	

ALARM NUMBER: supports up to 7 alarm (4 input & 1 output pre-wired)

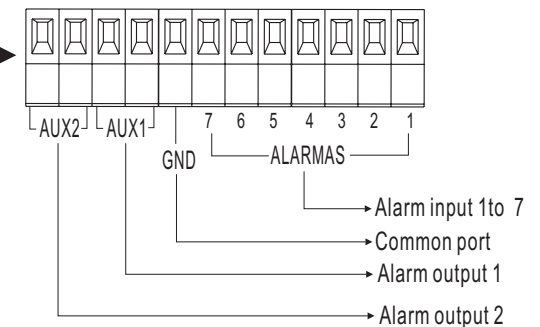
ALARM ACTION: Setting for PRESET, SCAN, TOUR, PAT 1-4, or NONE, if the camere in Alarm position.

ACTIVATE AUX: Setting Alarm Output, when Alarm is activate. Select between AUX1, AUX2 (not connected) or BOTH.

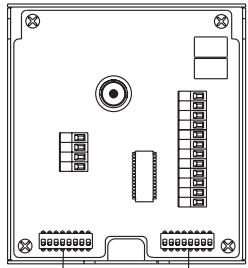
G65-G70 Series



Alarm Connection on Backboard



7. Protocol Setting G65-G70



Sw1 Sw2

Protocol setting

In order to establish a connection for telemetric control with keyboard device, you need to setup the dome address and protocol.

The G65 and G70 series are capable with multiple communication protocol. The setting can be changed through the DIP-Switches on the rear side of the connector boards as Illustrated.

Please use the following table for details setup. current pattern.

SW 1:

Represent the domes address in binary form. please refer to the list on next page for reference.

SW 2:

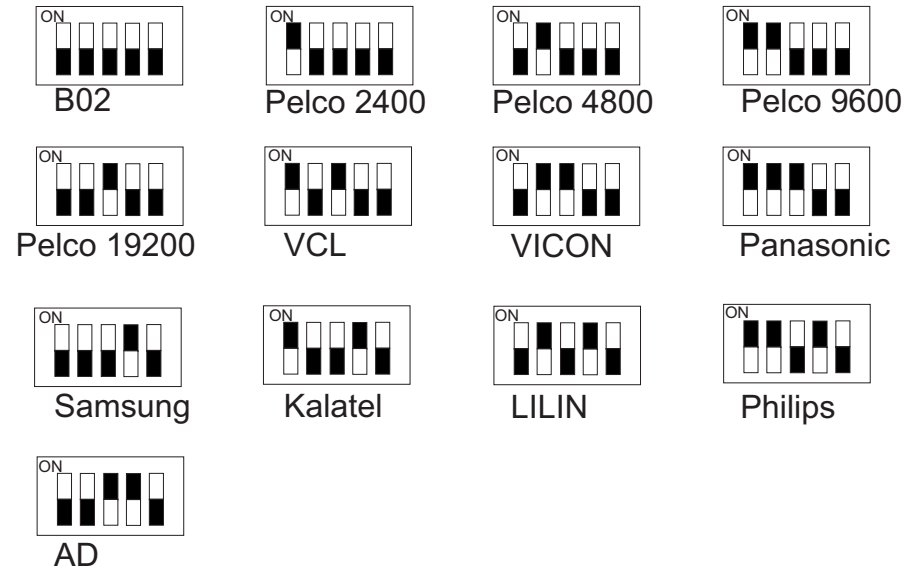
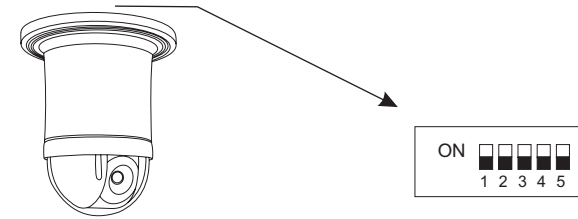
Used for protocol setting and baud rate.
DIP 1 to 6 : Protocol setting
DIP 7 and 8: Baud rate setting

Baud rate	DIP 7	DIP8
2400 bps	0	0
4800 bps	1	0
9600 bps	0	1
19200 bps	1	1

Note: VIDO B02 Protocol is fully compatible with VIDO B01. For previous version of Vido products please set to B02

Protocol / DIP	1	2	3	4	5	6
VIDO B02	0	0	1	1	0	0
DIAMOND	1	0	0	1	0	0
HUNDA	1	0	1	1	0	0
KALATEL	0	1	0	1	0	0
LILIN	1	1	0	1	0	0
MOLYNX	0	0	1	0	0	0
PANASONIC	1	1	1	0	0	0
PELCO (D/P)	1	0	0	0	0	0
PHILIPS	0	0	0	0	0	1
SAE	0	1	0	0	0	0
SAMSUNG	0	0	0	1	0	0
SANTACHI	0	1	1	0	0	0
UNIVISION	0	1	0	0	0	1
VCL	1	1	0	0	0	0
VICON	1	0	1	0	0	0
AD	0	0	1	1	0	0

7. Protocol Setting G60



8. Address ID, 1 to 67

ID	Switchnumber (Sw1)								ID	Switchnumber (Sw1)								
	Bit	1	2	3	4	5	6	7		8	Bit	1	2	3	4	5	6	7
	0	0	0	0	0	0	0	0	34	0	1	0	0	0	1	0	0	
1	1	0	0	0	0	0	0	0	35	1	1	0	0	0	1	0	0	
2	0	1	0	0	0	0	0	0	36	0	0	1	0	0	1	0	0	
3	1	1	0	0	0	0	0	0	37	1	0	1	0	0	1	0	0	
4	0	0	1	0	0	0	0	0	38	0	1	1	0	0	1	0	0	
5	1	0	1	0	0	0	0	0	39	1	1	1	0	0	1	0	0	
6	0	1	1	0	0	0	0	0	40	0	0	0	1	0	1	0	0	
7	1	1	1	0	0	0	0	0	41	1	0	0	1	0	1	0	0	
8	0	0	0	1	0	0	0	0	42	0	1	0	1	0	1	0	0	
9	1	0	0	1	0	0	0	0	43	1	1	0	1	0	1	0	0	
10	0	1	0	1	0	0	0	0	44	0	0	1	1	0	1	0	0	
11	1	1	0	1	0	0	0	0	45	1	0	1	1	0	1	0	0	
12	0	0	1	1	0	0	0	0	46	0	1	1	1	0	1	0	0	
13	1	0	1	1	0	0	0	0	47	1	1	1	1	0	1	0	0	
14	0	1	1	1	0	0	0	0	48	0	0	0	0	1	1	0	0	
15	1	1	1	1	0	0	0	0	49	1	0	0	0	1	1	0	0	
16	0	0	0	0	1	0	0	0	50	0	1	0	0	1	1	0	0	
17	1	0	0	0	1	0	0	0	51	1	1	0	0	1	1	0	0	
18	0	1	0	0	1	0	0	0	52	0	0	1	0	1	1	0	0	
19	1	1	0	0	1	0	0	0	53	1	0	1	0	1	1	0	0	
20	0	0	1	0	1	0	0	0	54	0	1	1	0	1	1	0	0	
21	1	0	1	0	1	0	0	0	55	1	1	1	0	1	1	0	0	
22	0	1	1	0	1	0	0	0	56	0	0	0	1	1	1	0	0	
23	1	1	1	0	1	0	0	0	57	1	0	0	1	1	1	0	0	
24	0	0	0	1	1	0	0	0	58	0	1	0	1	1	1	0	0	
25	1	0	0	1	1	0	0	0	59	1	1	0	1	1	1	0	0	
26	0	1	0	1	1	0	0	0	60	0	0	1	1	1	1	0	0	
27	1	1	0	1	1	0	0	0	61	1	0	1	1	1	1	0	0	
28	0	0	1	1	1	0	0	0	62	0	1	1	1	1	1	0	0	
29	1	0	1	1	1	0	0	0	63	1	1	1	1	1	1	0	0	
30	0	1	1	1	1	0	0	0	64	0	0	0	0	0	0	1	0	
31	1	1	1	1	1	0	0	0	65	1	0	0	0	0	0	1	0	
32	0	0	0	0	0	1	0	0	66	0	1	0	0	0	0	1	0	
33	1	0	0	0	0	1	0	0	67	1	1	0	0	0	0	1	0	

Some products may not be available in your country, please contact our distributor for more details

8. Address ID, 68 to 135

ID	Switchnumber (Sw1)								ID	Switchnumber (Sw1)								
	Bit	1	2	3	4	5	6	7		8	Bit	1	2	3	4	5	6	7
68	0	0	1	0	0	0	1	0	102	0	1	1	0	0	1	1	0	
69	1	0	1	0	0	0	1	0	103	1	1	1	0	0	1	1	0	
70	0	1	1	0	0	0	1	0	104	0	0	0	1	0	1	1	0	
71	1	1	1	0	0	0	1	0	105	1	0	0	1	0	1	1	0	
72	0	0	0	1	0	0	1	0	106	0	1	0	1	0	1	1	0	
73	1	0	0	1	0	0	1	0	107	1	1	0	1	0	1	1	0	
74	0	1	0	1	0	0	1	0	108	0	0	1	1	0	1	1	0	
75	1	1	0	1	0	0	1	0	109	1	0	1	1	0	1	1	0	
76	0	0	1	1	0	0	1	0	110	0	1	1	1	0	1	1	0	
77	1	0	1	1	0	0	1	0	111	1	1	1	1	0	1	1	0	
78	0	1	1	1	0	0	1	0	112	0	0	0	0	1	1	1	0	
79	1	1	1	1	0	0	1	0	113	1	0	0	0	1	1	1	0	
80	0	0	0	0	1	0	1	0	114	0	1	0	0	1	1	1	0	
81	1	0	0	0	1	0	1	0	115	1	1	0	0	1	1	1	0	
82	0	1	0	0	1	0	1	0	116	0	0	1	0	1	1	1	0	
83	1	1	0	0	1	0	1	0	117	1	0	1	0	1	1	1	0	
84	0	0	1	0	1	0	1	0	118	0	1	1	0	1	1	1	0	
85	1	0	1	0	1	0	1	0	119	1	1	1	0	1	1	1	0	
86	0	1	1	0	1	0	1	0	120	0	0	0	1	1	1	1	0	
87	1	1	1	0	1	0	1	0	121	1	0	0	1	1	1	1	0	
88	0	0	0	1	1	0	1	0	122	0	1	0	1	1	1	1	0	
89	1	0	0	1	1	0	1	0	123	1	1	0	1	1	1	1	0	
90	0	1	0	1	1	0	1	0	124	0	0	1	1	1	1	1	0	
91	1	1	0	1	1	0	1	0	125	1	0	1	1	1	1	1	0	
92	0	0	1	1	1	0	1	0	126	0	1	1	1	1	1	1	0	
93	1	0	1	1	1	0	1	0	127	1	1	1	1	1	1	1	0	
94	0	1	1	1	1	0	1	0	128	0	0	0	0	0	0	0	1	
95	1	1	1	1	1	0	1	0	129	1	0	0	0	0	0	0	1	
96	0	0	0	0	0	1	1	0	130	0	1	0	0	0	0	0	1	
97	1	0	0	0	0	1	1	0	131	1	1	0	0	0	0	0	1	
98	0	1	0	0	0	1	1	0	132	0	0	1	0	0	0	0	1	
99	1	1	0	0	0	1	1	0	133	1	0	1	0	0	0	0	1	
100	0	0	1	0	0	1	1	0	134	0	1	1	0	0	0	0	1	
101	1	0	1	0	0	1	1	0	135	1	1	1	0	0	0	0	1	

Some products may not be available in your country, please contact our distributor for more details

8. Address ID, 136 to 203

ID	Switchnumber (Sw1)							
	Bit	1	2	3	4	5	6	7
136	0	0	0	1	0	0	0	1
137	1	0	0	1	0	0	0	1
138	0	1	0	1	0	0	0	1
139	1	1	0	1	0	0	0	1
140	0	0	1	1	0	0	0	1
141	1	0	1	1	0	0	0	1
142	0	1	1	1	0	0	0	1
143	1	1	1	1	0	0	0	1
144	0	0	0	0	1	0	0	1
145	1	0	0	0	1	0	0	1
146	0	1	0	0	1	0	0	1
147	1	1	0	0	1	0	0	1
148	0	0	1	0	1	0	0	1
149	1	0	1	0	1	0	0	1
150	0	1	1	0	1	0	0	1
151	1	1	1	0	1	0	0	1
152	0	0	0	1	1	0	0	1
153	1	0	0	1	1	0	0	1
154	0	1	0	1	1	0	0	1
155	1	1	0	1	1	0	0	1
156	0	0	1	1	1	0	0	1
157	1	0	1	1	1	0	0	1
158	0	1	1	1	1	0	0	1
159	1	1	1	1	1	0	0	1
160	0	0	0	0	0	1	0	1
161	1	0	0	0	0	1	0	1
162	0	1	0	0	0	1	0	1
163	1	1	0	0	0	1	0	1
164	0	0	1	0	0	1	0	1
165	1	0	1	0	0	1	0	1
166	0	1	1	0	0	1	0	1
167	1	1	1	0	0	1	0	1
168	0	0	0	1	0	1	0	1
169	1	0	0	1	0	1	0	1

8. Address ID, 204 to 255

ID	Switchnumber (Sw1)							
	(Bit)	1	2	3	4	5	6	7
204	0	0	1	1	0	0	1	1
205	1	0	1	1	0	0	1	1
206	0	1	1	1	0	0	1	1
207	1	1	1	1	0	0	1	1
208	0	0	0	0	1	0	1	1
209	1	0	0	0	1	0	1	1
210	0	1	0	0	1	0	1	1
211	1	1	0	0	1	0	1	1
212	0	0	1	0	1	0	1	1
213	1	0	1	0	1	0	1	1
214	0	1	1	0	1	0	1	1
215	1	1	1	0	1	0	1	1
216	0	0	0	1	1	0	1	1
217	1	0	0	1	1	0	1	1
218	0	1	0	1	1	0	1	1
219	1	1	0	1	1	0	1	1
220	0	0	1	1	1	0	1	1
221	1	0	1	1	1	0	1	1
222	0	1	1	1	1	0	1	1
223	1	1	1	1	1	0	1	1
224	0	0	0	0	0	1	1	1
225	1	0	0	0	0	1	1	1
226	0	1	0	0	0	1	1	1
227	1	1	0	0	0	1	1	1
228	0	0	1	0	0	1	1	1
229	1	0	1	0	0	1	1	1
230	0	1	1	0	0	1	1	1
231	1	1	1	0	0	1	1	1
232	0	0	0	1	0	1	1	1
233	1	0	0	1	0	1	1	1
234	0	1	0	1	0	1	1	1
235	1	1	0	1	0	1	1	1
236	0	0	1	1	0	1	1	1
237	1	0	1	1	0	1	1	1

9. Specification G60 Series

Model	AU-G60-SC18	AU-G60-SB18	AU-G60-SB26	AU-G60-SB36
	AU-G60-WC18*	AU-G65-WB08*	AU-G60-WB26*	AU-G60-WB36*
		Day / Night	Day / Night	Day / Night
Signal Format	PAL / NTSC			
Scanning	Progressive			
Image Sensor	1/4 inch Ex-View CCD			
H. Resolution	470 TVL, 440K Pixels (PAL)			470 TVL / 540 TVL (High Resolution)
Viewing Angle	48.0° (Wide end)	54.2° (Wide end)	57.8° (Wide end)	
	2.8° (Tele end)	2.2° (Tele end)	1.7° (Tele end)	
Zoom	18× Opt. / 12× Digital	26× Opt. / 12× Digital	36× Opt. / 12× Digital	
Min. Illumination	0.7 Lux (1/50 sec., Color)	Day: 0.7Lx (1/50), 0.1Lx (1/3) Night: 0.01Lx (1/3)	Day: 2.0Lx (1/50), 0.14Lx (1/3) Night: 0.7Lx (1/50), 0.05Lx (1/3)	Day: 1.4Lx (1/50), 0.1Lx (1/3) Night: 0.01Lx (1/3)
Focus	Auto / Manual			
White Balance	Auto / Manual (ATW, Indoor, Outdoor, One Push WB, Manual WB) Wide Dynamic Function (Sb36 / Wb36 models)			
Shutter Speed	1 to 1/10,000 Sec.			1/3 to 1/10,000 Sec.
Iris Control	Auto / Manua/ Auto Slow Shutter			
Gain Control	Auto / Manual (-3 to 28 dB, 2 dB steps, 16steps)			
Video Output	VBS: 1.0Vp-p (Sync Negative), Y / C Output			
S/N Ratio	More than 50 dB			
Pan Speed	0.4° - 300° per Sec.			
Tilt Speed	0.4° - 150° per Sec.			
Pan Range	360°			
Tilt Range	0 - 90°			
Communication	RS485, multiple-protocol, coax			
Preset Positions	128 Presets			
Auto Pan	Yes, between 2 presets			
Tour / Sequence	4 progr. Tours with max 24 presets/ 4 Pattern up to 180s			
Alarm inputs	7 inputs / 2 output			
Operating Temp.	Outdoor: -40°C to 60°C / Indoor: -10°C to 50°C			
Power	24V AC / 24 -60 VA (outdoor)			

9. Specification G65 Series

Model	AU-G65-SC18	AU-G65-SB18	AU-G65-SB26	AU-G65-SB36
	AU-G65-WC18*	AU-G65-WB18*	AU-G65-WB26*	AU-G65-WB36*
		Day / Night	Day / Night	Day / Night
Signal Format	PAL / NTSC			
Scanning	Progressive			
Image Sensor	1/4 inch Ex-View CCD			
H. Resolution	470 TVL, 440K Pixels (PAL)			470 TVL / 540 TVL (High Resolution)
Viewing Angle	48.0° (Wide end)	54.2° (Wide end)	57.8° (Wide end)	
	2.8° (Tele end)	2.2° (Tele end)	1.7° (Tele end)	
Zoom	18× Opt. / 12× Digital	26× Opt. / 12× Digital	36× Opt. / 12× Digital	
Min. Illumination	0.7 Lux (1/50 sec., Color)	Day: 0.7Lx (1/50), 0.1Lx (1/3) Night: 0.01Lx (1/3)	Day: 2.0Lx (1/50), 0.14Lx (1/3) Night: 0.7Lx (1/50), 0.05Lx (1/3)	Day: 1.4Lx (1/50), 0.1Lx (1/3) Night: 0.01Lx (1/3)
Focus	Auto / Manual			
White Balance	Auto / Manual (ATW, Indoor, Outdoor, One Push WB, Manual WB) Wide Dynamic Function (Sb36 / Wb36 models)			
Shutter Speed	1 to 1/10,000 Sec.			1/3 to 1/10,000 Sec.
Iris Control	Auto / Manua/ Auto Slow Shutter			
Gain Control	Auto / Manual (-3 to 28 dB, 2 dB steps, 16steps)			
Video Output	VBS: 1.0Vp-p (Sync Negative), Y / C Output			
S/N Ratio	More than 50 dB			
Pan Speed	0.4° - 300° per Sec.			
Tilt Speed	0.4° - 150° per Sec.			
Pan Range	360°			
Tilt Range	0 - 90°			
Communication	RS485, multiple-protocol, coax			
Preset Positions	128 Presets			
Auto Pan	Yes, between 2 presets			
Tour / Sequence	4 progr. Tours with max 24 presets/ 4 Pattern up to 180s			
Alarm inputs	7 inputs / 2 output			
Operating Temp.	Outdoor: -40°C to 60°C / Indoor: -10°C to 50°C			
Power	24V AC / 24 -60 VA (outdoor)			

9. Specification G70 Series

Model	AU-G70-WC18	AU-G70-WB18	AU-G70-WB26	AU-G70-WB36
	Day / Night		Day / Night	Day / Night
Signal Format	PAL / NTSC			
Scanning	Progressive			
Image Sensor	1/4 inch Ex-View CCD			
H. Resolution	470 TVL, 440K Pixels (PAL)			470 TVL / 540 TVL (High Resolution)
Viewing Angle	48.0° (Wide end)		54.2° (Wide end)	57.8° (Wide end)
	2.8° (Tele end)		2.2° (Tele end)	1.7° (Tele end)
Zoom	18× Opt. / 12× Digital		26× Opt. / 12× Digital	36× Opt. / 12× Digital
Min. Illumination	0.7 Lux (1/50 sec., Color)	Day: 0.7Lx (1/50), 0.1Lx (1/3)	Day: 2.0Lx (1/50), 0.14Lx (1/3)	Day: 1.4Lx (1/50), 0.1Lx (1/3)
	-	Night: 0.01Lx (1/3)	Night: 0.7Lx (1/50), 0.05Lx (1/3)	Night: 0.01Lx (1/3)
Focus	Auto / Manual			
White Balance	Auto / Manual (ATW, Indoor, Outdoor, One Push WB, Manual WB) Wide Dynamic Function (WB36 models)			
Shutter Speed	1 to 1/10,000 Sec.			1/3 to 1/10,000 Sec.
Iris Control	Auto / Manua/ Auto Slow Shutter			
Gain Control	Auto / Manual (-3 to 28 dB, 2 dB steps, 16steps)			
Video Output	VBS: 1.0Vp-p (Sync Negative), Y / C Output			
S/N Ratio	More than 50 dB			
Pan Speed	0.4° - 300° per Sec.			
Tilt Speed	0.4° - 150° per Sec.			
Pan Range	360°			
Tilt Range	0 - 90°			
Communication	RS485, multiple-protocol, coax			
Preset Positions	128 Presets			
Auto Pan	Yes, between 2 presets			
Tour / Sequence	4 progr. Tours with max 24 presets/ 4 Pattern up to 180s			
Alarm inputs	7 inputs / 2 output			
Operating Temp.	-40°C to 60°C			
Power	24V AC /60 VA			

Notice

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