SAMSUNG TECHWIN

SPEED DOME CAMERA

User Manual

CE

SCP-2370/SCP-2370H/SCP-2370TH/ SCP-2330/ SCP-2330H/ SCP-2270/SCP-2270H/ SCP-3370/ SCP-3370H/SCP-3370TH

SAMSUNG



SPEED DOME CAMERA

User Manual

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Warranty

If the product does not operate properly in normal conditions, please let us know. Samsung Techwin will resolve the problem for free of charge. The warranty period is 3 years. However, the followings are excluded:

- If the system behaves abnormally because you run a program irrelevant to the system operation.
- Deteriorated performance or natural worn-out in process of time

safety information





RISK OF ELECTRIC SHOCK. DO NOT OPEN

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 dangerous voltage consisting a risk of electric shock is present within this unit.



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

WARNING

- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.
- To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.
- REPLACE WITH SAME TYPE 250V T3.15AL FUSE(F1)



- 1. Be sure to use only the standard adapter that is specified in the specification sheet. Using any other adapter could cause fire, electrical shock, or damage to the product.
- 2. Incorrectly connecting the power supply or replacing battery may cause explosion, fire, electric shock, or damage to the product.
- 3. Do not connect multiple cameras to a single adapter. Exceeding the capacity may cause abnormal heat generation or fire.
- 4. Securely plug the power cord into the power receptacle. Insecure connection may cause fire.
- 5. When installing the camera, fasten it securely and firmly. The fall of camera may cause personal injury.
- 6. Do not place conductive objects (e.g. screwdrivers, coins, metal parts, etc.) or containers filled with water on top of the camera. Doing so may cause personal injury due to fire, electric shock, or falling objects.
- 7. Do not install the unit in humid, dusty, or sooty locations. Doing so may cause fire or electric shock.
- 8. If any unusual smells or smoke come from the unit, stop using the product. In such case, immediately disconnect the power source and contact the service center. Continued use in such a condition may cause fire or electric shock.
- 9. If this product fails to operate normally, contact the nearest service center. Never disassemble or modify this product in any way. (SAMSUNG is not liable for problems caused by unauthorized modifications or attempted repair.)
- 10. When cleaning, do not spray water directly onto parts of the product. Doing so may cause fire or electric shock.

CAUTION - Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

CAUTION

- 1. Do not drop objects on the product or apply strong blows to it. Keep away from a location subject to excessive vibration or magnetic interference.
- 2. Do not install in a location subject to high temperature (over 50°C), low temperature (below -50°C), or high humidity. Doing so may cause fire or electric shock.
- 3. If you want to relocate the already installed product, be sure to turn off the power and then move or reinstall it.
- 4. Remove the power plug from the outlet when there is a lighting storm. Neglecting to do so may cause fire or damage to the product.

safety information

- 5. Keep out of direct sunlight and heat radiation sources. It may cause fire.
- 6. Install it in a place with good ventilation.
- 7. Avoid aiming the camera directly towards extremely bright objects such as sun, as this may damage the CCD image sensor.
- 8. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- 9. Do not expose the camera to radioactivity. Radioactivity exposure may damage the CCD.

FCC Statement

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 undesired operation.

CAUTION

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of 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.



IC Compliance Notice

This Class A digital apparatus meets all requirements of the Canadian Interference.-Causing Equipment Regulations of ICES-003.

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)



(Applicable in the European Union and other European countries with separate collection systems) This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

Correct disposal of batteries in this product



(Applicable in the European Union and other European countries with separate battery return systems.) This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

important safety instructions

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Clean only with dry cloth.
- 6. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 7. Do not install near any heat sources such as radiators, heat registers, or other apparatus (including amplifiers) that produce heat.
- 8. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 10. Only use attachments/accessories specified by the manufacturer.
- 11. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.



- 12. Unplug this apparatus during lightning storms or when unused for long periods of time. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as powersupply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus

WARNING

To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

CAUTION

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

DETAILED WARNINGS AND CAUTIONS

- Avoid operating the camera for long durations under high temperatures and in high humidity. Excessive heat can shorten the lifespan of the camera components.
- Do not install or place the camera near any heat sources.
- Subjecting the dome cover to physical shock may damage the camera and cause water leakage into it.
- Do not place the camera facing direct sunlight or other intense light sources. Strong lights such as spotlights can cause distortions—blooming and smear—as well as discolorations on the screen by heating up the color filter of the camera. They also may cause internal reflections of the camera, leading to operational malfunctions.
- Do not drop the camera or subject it to physical shock or vibration; this can cause serious damage to the camera.
- When installing the camera near a power line, make sure to keep at least 1 meter distance from the power line, or earth an additional metal pipe to separate the camera from the power source.
- Install this camera on the ceiling. Installing it on the ground or a unleveled location may cause product malfunctions and shorten its lifespan.
- Avoid installing and operating the camera in the following places.
 - Places whose temperature exceed the camera's recommended range. (Indoor : -10° \sim 50°, Environmental : -50° \sim 50°)
 - Places where drastic temperature changes occur: e.g. Near an air conditioner.
 - Places that are exposed to steam, oil, and inflammable substances: e.g. Inside a kitchen.
 - Places that are exposed to radioactivity, X-rays, strong electric waves, and electro-magnetic waves.
 - Places that are exposed to outdoor air contaminants: e.g. Dust and car exhaust.
 - Places in high humidity.
 - Places that are exposed to corrosive gas: e.g. Next to the sea.
- Smeared and dusty dome covers decrease the picture and video quality. Clean the dome cover and camera lens on a regular basis.
- Remove the plastic wrap on the dome cover only after the camera installation is complete.
- This camera is not equipped with a power switch. Plug in the camera only after the installation is complete.

CAUTIONS FOR OPERATING TEMPERATURE (FOR ENVIRONMENTAL MODELS)

- 1. The camera cannot operate properly at temperatures lower than -50°.
- **2.** Even if the surrounding temperature is -50° or higher, the camera may not thaw itself and operate properly depending on the installation environment.
- **3.** Always keep the power on, so the camera can maintain its internal temperature at -10° or higher.
- **4.** If the product is kept at a low temperature, it may take a max of 2 hours to warm up for normal operation.
- 6_ important safety instructions

- 5. If the camera was turned on after being left at temperatures lower than -50° for a long duration:
 - If the internal temperature is lower than -20°, the camera does not transmit video signals and displays a black screen along with the "Wait to warm up(xx Left)" message, instead of operating properly.
 - If the internal temperature is higher than -20° and lower than -10°, the "Wait to warm up(xx Left)" message disappears as the camera resets itself and enters the operation mode.
 However, only manual P/T operation is in effect while the Sequence and Turbo commands are limited in use.
 - If the internal temperature is higher than -10°, the camera activates all Sequence and Turbo commands.
- 6. The speed of the horizontal/vertical rotation will be deteriorated than normal at below -10 degrees for the indoor model, and at below -40 degrees for the environmental model.
- 7. If the heater malfunctions, a message appears as follows.
 - "Please Check Heater System"
 - If this message appears, turn off the camera and call where you bought.

DETAILED WARNINGS AND CAUTIONS (SCP-2370TH/SCP-3370TH)

The following cautions are for the Auto Track function built-in with the SCP-2370TH/SCP-3370TH; To use Auto Track to its full potential, please read and be aware of the following cautions. Neglecting the cautions may cause unsatisfactory performance of the tracking function as well as camera malfunctions.

- Auto Track is specifically to track down unknown intruders. It is not be suitable to monitor a crowd.
- If the camera is not safely secured, tracking errors may occur.
- If the camera lens is smeared with foreign substances, snow flakes, or raindrops, the camera may incur unsatisfactory performance in the tracking function. For optimal performance, please install the camera in an environment safe from contamination, and clean the camera lens on regular basis.
- It may not operate properly in a low contrast condition at night.
- If the tracking function shows poor performance at nighttime or under low light circumstances, use the Sens-Up function.
- Auto Track may have errors at times when pronounced shadows are created: e.g. sunrise and sunset.
- The camera may catch and follow unintended movements car traffic or swaying tree branches during the Auto Track operation. To prevent and correct such errors, adjust the installation direction and angle of the camera, or use Zone Settings (Mask) (page 71).
- Adjust the installation direction and angle of the camera, or use Zone Settings also under the following conditions: With excessively bright light sources, under flickering lights, or if the camera displays internal reflections.
- When using Auto Track, it is recommended to adjust the tracking object size to 1/4 of the screen.
- This feature may not perform as expected depending on the situation and circumstances. Samsung Techwin is not responsible for injuries and financial damage caused by the situation described above.



Samsung Techwin cares for the environment at all product manufacturing stages to preserve the environment, and is taking a number of steps to provide customers with more environment-friendly products. The Eco mark represents Samsung Techwin's will to create environment-friendly products, and indicates that the product satisfies the EU RoHS Directive.

setting up auto track

Two different Auto Track setup methods are available.

- Using Presets
 - Select a starting point for Auto Track as a preset to activate Auto Tracking. (This can be used in conjunction with Group SEQ and Tour SEQ.)
- Using Target Lock
 - Select an object on the screen to activate Auto Tracking.



The PIP feature will be disabled if using Auto Track.

AUTO TRACK USING PRESETS



<Auto Track Setting Flow Chart>

- 1. Selecting Auto Track Starting Point 1
 - Using the joystick, select a preset number from 1 to 255, and then press [Enter].

Preset Setting

Preset =	001	(255)	
001:0000	00000	00000	00000
021:00000	00000	00000	00000

FIESEL SELLING

1+PST:ZOOM 2+PST:FOCUS

- 2. Selecting Auto Track Starting Point 2
 - At Preset Edit, select the preset number under the Preset Settings menu.
 - The selected preset is indicated with an asterisk (*).
 - At Menu [After Action], select [Auto Track].
 - Auto Track : Perform Auto Track upon arrival.
 - * For a SCP-3370 series model, select [AutoTrack] from [Intelligence], not from [After Action].

• When the [After Action] menu is set to [Auto Track], the letter "T" appears next to the preset number as shown in the figure.

3. Setting Auto Tracking Details

- Select [Main Menu P/T Setting Auto Track].
- At Menu [Auto Track], select [ON] to activate Auto Tracking.
- Set the Camera Height, Object Size, Sensitivity, and Zoom Control options.
- Refer to the operation timing chart in the next page and set as necessary each of: [Auto Release], [Auto Return] and [Lost Mode].

Preset Edit

Preset =	(255)		
001:00000	00000	00000	00000
021 : 00000		00000	00000

Preset Edit	[001]
PTZ Focus Brightness Iris Back Light Day/Night After Action Scene Adj₊J	XXX/XXX/XXX ONE SHOT 050 AUTO OFF AUTO OFF

Preset Edit

Preset = 001T (1~255)

021:00000 00000 00000 00000

Auto Tracking	
Auto Track	OFF
Camera Height	2.5M
Object Size	SMALL
Sensitivity	HIGH
Zoom Control	OFF
Auto Release	OFF
Auto Return	OFF
Lost Mode	STOP
Others 🖵	

<u>setting up auto track</u>



<Auto Track Timing Chart>

- Auto Release: Command the camera to follow an object for a set duration and then return to its initial (preset) location.
- Auto Return : After Auto Release expires, command the camera to stand by at the tracking finish point and then return to its initial location. (Selecting OFF keeps the camera at the tracking finish point instead of returning it to the initial location.)
- Lost Mode : Set an action for the camera when it loses its tracking object. (Performed only for the Auto Release duration.)
 - STOP : Stop at the lost point and abort tracking.
 - RESEARCH : Stop at the lost point and search for a new object.
 - ZOOM-OUT : When an object is lost, Zoom Out to find and track a new object.
- 4. Starting Auto Track (Loading Presets)
 - Start Auto Tracking in the OSD Menu
 - 1. Select [Execute].
 - 2. Select a Preset to start Auto Tracking.
 - 3. The camera will move to the Preset location and start Auto Tracking.
 - Start Auto Tracking Using the Controller
 - Exit the OSD menu then press a Preset number on the controller keypad to start Auto Tracking. And Press a <Preset> button.(The number can be checked on the LCD window.)
 - 2. The camera will move to the Preset location and start Auto Tracking.

Preset	
Setting 🗸	
Edit 🖵	
Home Position	OFF
Execute 🖵	
Clear↓	
Status 🗸	

Pracat	Edit
Flesel	EUII

Preset = 001T (1~255) 001 : \$2000 00000 0000 00000 021 : 00000 00000 00000 00000

- 5. Auto Tracking Using Group Command
 - PSET : Using the joystick, enter a preset number under which [After Act.] menu is set to [TRACK].
 - DWT : Indicates the camera time spent at each preset location. (1 ~ 120sec)
 - SPD : Adjusts the camera movement speed by 64 different levels.



• When Group SEQ is activated, the camera starts auto tracking at the [Preset 1] location. For the set DWT duration, the camera performs Auto Track according to [Auto Release] and [Auto Return] settings. If no movement is detected, it moves to [Preset 2] and repeats the procedures.

AUTO TRACKING USING TARGET LOCK

- 1. Setting Target Lock
 - Target Lock => [ON]
 - When Target Lock is turned [ON], a red box appears in the center of the screen.
- 2. Target Lock
 - Using the joystick, move the red box to encircle an object and then press [Enter] to start Auto Tracking the object.

Others	
Zone Setting 🖵	
Indicator	OFF
Target Lock	OFF

Group SEQ 1

PSET

*** .

*** .

*** .

*** .

DWT(s) SPD

64

64

64

64

003:

003:

003:

003:

NO

001:

002:

003:

004:



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TROUBLESHOOTING



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FEATURES

• A/F 37x/33x/27x Optical Zoom

The built-in 37x / 33x / 27x optical zoom lens with auto-focus is combined with a 16x digital zoom, providing a maximum of 592/528/432 zoom.

Versatile protocols and coaxial communication

RS-422/485, Coaxial communication methods are supported.

- RS-422/485 (10 species) : Auto Detected, SAMSUNG-T, SAMSUNG-E, Pelco (D/P), Panasonic, Vicon, Honeywell, AD, GE, BOSCH
- Coaxial Communications : Pelco Coaxitron (automatic detection)

Wide Range Auto Security Functions

- Auto Tracking (SCP-2370TH/SCP3370TH Only) : A moving object or a person can be tracked and recorded automatically by the camera with its Pan, Tilt, and Zoom functions.
- Multiple Preset Function Saving : Up to 12 camera image properities can be saved individually to provide high quality pictures.
- Image Holding : When moving between presets in Group and Tour functions, using this Preset Freeze function holds the image status and helps the screen observer relieve visual fatigue.
- PTZ Trace : Patterns operated with the joystick can be saved and replayed by users.
- Swing : Using the Swing function commands the camera to move between 2 selected locations, monitoring the route.
- Group Search : Maximum 128 Preset positions are toured in order.
- Tour Search : Maximum 6 Group Search functions are toured in order.

Digital Flip

The Digital Flip function is useful to monitor moving objects or people passing directly under the camera. When an object or a person passes directly under the camera, its tilt motor follows the object or person over 90 degrees to the other side of the tilt area without panning. The screen inversion starts to occur at 90 degrees or higher is digitally adjusted.

Smart P/T

The Smart P/T function automatically adjusts the control speed of the Pan and Tilt functions according to the current zoom ratio. It is useful to adjust the functions manually for detailed controls when monitoring at high zoom ratios.

Day & Night

With its daytime & nighttime switch and Sens-Up functions based on the ICR (Infrared Cut filter Removal) method, the camera provides high quality pictures regardless of whether it is day or night.

- Sens-Up increases the CCD sensitivity by electrically extending the camera's exposure time.
- Day & Night enables you to select between color and B/W modes depending on the lighting conditions.

Highly durable built-in housing

This IP66-rated built-in housing is easy to install, and protects the product from a full range of harsh outside conditions. The high performance built-in fan/heater enables the product to operate under extreme temperatures between $-50^{\circ} \sim 50^{\circ}$.

INTRODUCTION

introduction

Preset Position Saving and Loading

Up to 255 preset positions can be set. Using this function saves and brings up the camera feed of a selected monitoring location.

Camera Backup

This is to back up the camera's sequence information and presets. This is useful when the camera or its install base are damaged or malfunctions occur.

Area Masking

If a monitoring location includes a highly private area, the area can be selectively masked on the screen.

Model Specifications



WHAT'S INCLUDED

Check if the following items are included in the product package.

Appearance	Item Name	Quantity	Description	Applicable Model	
		1	-	Indoor Model	
	Main Body	1	-	Environmental Model	
\bigcirc	CD Manual	1	Multilingual User Manual	All	
	User Manual	1	English User Manual	All	
I I I	Fixing Screw	3	If mounting the install base on the ceiling		
	Installation Template	1	If determining the installation point before mounting the install base on the ceiling	Indoor Model	
	Installation base	1	If installing it indoors or in a ceiling housing]	
	Hexagon screw	3	Used for attaching the installation base to the camera	Environmental	
	L Wrench	1	Used for fixing the installation base after attaching it to the camera	MOUEI	

* For classification of the indoor and environmental models, refer to page 14.

introduction

COMPONENT NAMES AND FUNCTIONS (INDOOR MODEL)

Front



Back



Bottom



- Unlock Button
- 2 SW2: Communication DIP Switch
- **3** SW1: ID DIP Switch
- 4 Safety Cable Hook

COMPONENT NAMES AND FUNCTIONS

Front

Back



Bottom



- Safety Wire Holder
- 2 SW2: Communication DIP Switch
- 3 SW1: ID DIP Switch
- * For the DIP switch settings, please refer to the "Installing Your Camera" on Page 21~25.

CAMERA WIRING INTERFACE BOARD

For the camera wiring, please refer to the picture below.

(When using coaxial communication, a separate control signal connection is not required.)





The max capacity of the Alarm OUT/AUX OUT ports are 30VDC/2A, 125VAC/0.5A, and 250VAC/0.25A, respectively.

Connecting the power connector and GND incorrectly to the NC/NO and COM ports may cause a short circuit and fire, damaging the camera.

CAMERA AND APPLIANCES WIRING DIAGRAM

Connecting with Samsung Techwin's "Stand Alone DVR"

 RS-485 : Camera

Stand Alone DVR



• RS-422 :





Connecting with the Samsung Techwin Controller SPC-6000

• RS-485 :



To connect to Samsung PC DVR

• RS-485 :



SRP-1610/1650

HOW TO SET UP PROTOCOLS AND ID DIP SWITCHES

You can control various settings of the camera system using the Communication and ID DIP switches. Before installing the product, please set up the DIP switches according to the installation environment.

- 1. Detach the camera frame from the install base, and place the bottom of the frame toward you as shown in the picture below.
- 2. Set the switches according to your installation environment. For more detailed setup information, please refer to the chart on the next page.
- **3.** The camera may malfunction if the switches are not fully turned On/Off; please double check the switches before finishing setup.



COMMUNICATION PROTOCOL DIP SWITCH SETTINGS (SW2)

Coaxial communication automatically detects signals, and so does not require a separate communication setup process.



SW2 Pin No.	Purpose	
1 ~ 4	Protocol Settings	
5~6	Baud Rate Settings	
7	Transfer Method (RS-485/422) Settings	
8	Response Mode Settings	
9~10	Backup Mode Settings	
11~12	Termination Settings	

Protocol Settings

No	Protocol	SW/2_#1	S/M2_#2	S/M2_#3	S/M2_#4
NO	FIOLOCOI	5002-#1	5002-#2	5772-#5	5002-#4
1	Auto Detected	OFF	OFF	OFF	OFF
2	Samsung-T	OFF	OFF	OFF	ON
3	Samsung-E	OFF	OFF	ON	OFF
4	Pelco-D	OFF	OFF	ON	ON
5	Pelco-P	OFF	ON	OFF	OFF
6	Panasonic	OFF	ON	OFF	ON
7	Vicon	OFF	ON	ON	OFF
8	Honeywell	OFF	ON	ON	ON
9	AD	ON	OFF	OFF	OFF
10	GE	ON	OFF	OFF	ON
11	Bosch	ON	OFF	ON	ON

Select a communication protocol for the camera.

Baud Rate Settings

Select the transfer speed of a selected communication protocol.

No	Baud Rate (BPS)	SW2-#5	SW2-#6
1	2,400	ON	ON
2	4,800	ON	OFF
3	9,600	OFF	OFF
4	19,200	OFF	ON

Communication Method Settings

Select a communication method for the camera.

	Function		OFF	
SW2- #7	Transfer Mode Switch	RS-422 (4Wire)	RS-485 (2Wire)	

Communication Response Settings

Select a communication response method for the camera and controller: Response or No Response.

Function		ON	OFF	
SW2- #8	Response Mode Switch	Response	No Response	

Termination Settings

To prevent the attenuation of communication signals between the camera and controller, the items at the end of line must be set up with the termination settings.

Camera Input Position	SW2- #11	SW2- #12
Termination of Longest Path (RS-422)	ON	ON
Termination of Longest Path (RS-485)	ON	OFF
On the Path	OFF	OFF

• Example of terminal setting



* If using RS-422, SW2-#11: ON /SW2-#12: ON for camera 16

* If using RS-485, SW2-#11: ON / SW2-#12: OFF for camera 16

Camera Backup Settings

These settings are useful when the camera or its install base are damaged or malfunctions occur. When replacing the camera or its install base, you can transfer existing presets and sequence information to the replacement using these settings.

Backup Function	SW2- #9	SW2- #10
Backup(IB→D)	OFF	OFF
Backup(D→IB)	ON	OFF
Backup Disable	-	ON

- Backup(IB→D) : Enables transferring the current camera's sequence information to a new camera.

- Backup(D→IB) : Enables transferring the current camera's sequence information to a new install base.

* IB: Install base, D: Dome Camera

■ [Current Time] is not backed up from install base to camera.

For this model, all DIP switches are set to OFF by factory default. Each of the default settings will be grayed out in the applicable menu.

- To use a third party controller with this product, please contact our After-Sales Service or Technology Department.
- AD Protocol Control Method
 - 1. Input Camera OSD: 3+Auxiliary On
 - 2. Output Camera OSD: 3+Auxiliary Off
 - 3. Enter: IRIS Open
 - 4. ESC: IRIS Close
- For more information about the protocols, refer to our official website.

CAMERA ID DIP SWITCH SETTINGS (SW1)

Assign a unique number for each camera to identify itself from others.



- 1. The initial value of the switch is "0", and all of the 8 switches are defaulted to OFF.
- 2. Each switch has a unique value, and the board ID is the sum of the values of the switches.



• Refer to the example below for the board ID.





Use a unique ID for each Camera.

Camera ID Chart

ID	SW1-#1	SW1-#2	SW1-#3	SW1-#4	SW1-#5	SW1-#6	SW1-#7	SW1-#8
1	ON/OFF	OFF						
2	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
3	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
4	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
5	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF
6	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF
7	ON	ON	ON	OFF	OFF	OFF	OFF	OFF
8	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
9	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF
10	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF
11	ON	ON	OFF	ON	OFF	OFF	OFF	OFF
12	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF
13	ON	OFF	ON	ON	OFF	OFF	OFF	OFF
14	OFF	ON	ON	ON	OFF	OFF	OFF	OFF
15	ON	ON	ON	ON	OFF	OFF	OFF	OFF
16	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF
17	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
18	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF
19	ON	ON	OFF	OFF	ON	OFF	OFF	OFF
20	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF
21	ON	OFF	ON	OFF	ON	OFF	OFF	OFF
22	OFF	ON	ON	OFF	ON	OFF	OFF	OFF
23	ON	ON	ON	OFF	ON	OFF	OFF	OFF
24	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF
25	ON	OFF	OFF	ON	ON	OFF	OFF	OFF
26	OFF	ON	OFF	ON	ON	OFF	OFF	OFF
27	ON	ON	OFF	ON	ON	OFF	OFF	OFF
28	OFF	OFF	ON	ON	ON	OFF	OFF	OFF
29	ON	OFF	ON	ON	ON	OFF	OFF	OFF
30	OFF	ON	ON	ON	ON	OFF	OFF	OFF
31	ON	ON	ON	ON	ON	OFF	OFF	OFF
32	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF
33	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF
34	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
35	ON	ON	OFF	OFF	OFF	ON	OFF	OFF
36	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF
37	ON	OFF	ON	OFF	OFF	ON	OFF	OFF
38	OFF	ON	ON	OFF	OFF	ON	OFF	OFF

6	SW1-#7	SW1-#8	
	OFF	OFF	
	OFF	OFF	S
	OFF	OFF	Z
	OFF	OFF	E
	OFF	OFF	ГО
	OFF	OFF	N N
	OFF	OFF	Z
	OFF	OFF	STA
	OFF	OFF	Ē
	OFF	OFF	TIC
	OFF	OFF	ž
	OFF	OFF	
	ON	OFF	
	ON	OFF	

ID	SW1-#1	SW1-#2	SW1-#3	SW1-#4	SW1-#5	SW1-#6	SW1-#7	SW1-#8
39	ON	ON	ON	OFF	OFF	ON	OFF	OFF
40	OFF	OFF	OFF	ON	OFF	ON	OFF	OFF
41	ON	OFF	OFF	ON	OFF	ON	OFF	OFF
42	OFF	ON	OFF	ON	OFF	ON	OFF	OFF
43	ON	ON	OFF	ON	OFF	ON	OFF	OFF
44	OFF	OFF	ON	ON	OFF	ON	OFF	OFF
45	ON	OFF	ON	ON	OFF	ON	OFF	OFF
46	OFF	ON	ON	ON	OFF	ON	OFF	OFF
47	ON	ON	ON	ON	OFF	ON	OFF	OFF
48	OFF	OFF	OFF	OFF	ON	ON	OFF	OFF
49	ON	OFF	OFF	OFF	ON	ON	OFF	OFF
50	OFF	ON	OFF	OFF	ON	ON	OFF	OFF
51	ON	ON	OFF	OFF	ON	ON	OFF	OFF
52	OFF	OFF	ON	OFF	ON	ON	OFF	OFF
53	ON	OFF	ON	OFF	ON	ON	OFF	OFF
54	OFF	ON	ON	OFF	ON	ON	OFF	OFF
55	ON	ON	ON	OFF	ON	ON	OFF	OFF
56	OFF	OFF	OFF	ON	ON	ON	OFF	OFF
57	ON	OFF	OFF	ON	ON	ON	OFF	OFF
58	OFF	ON	OFF	ON	ON	ON	OFF	OFF
59	ON	ON	OFF	ON	ON	ON	OFF	OFF
60	OFF	OFF	ON	ON	ON	ON	OFF	OFF
61	ON	OFF	ON	ON	ON	ON	OFF	OFF
62	OFF	ON	ON	ON	ON	ON	OFF	OFF
63	ON	ON	ON	ON	ON	ON	OFF	OFF
64	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
65	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF
66	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF
67	ON	ON	OFF	OFF	OFF	OFF	ON	OFF
68	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
69	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
70	OFF	ON	ON	OFF	OFF	OFF	ON	OFF
71	ON	ON	ON	OFF	OFF	OFF	ON	OFF
72	OFF	OFF	OFF	ON	OFF	OFF	ON	OFF
73	ON	OFF	OFF	ON	OFF	OFF	ON	OFF
74	OFF	ON	OFF	ON	OFF	OFF	ON	OFF
75	ON	ON	OFF	ON	OFF	OFF	ON	OFF
76	OFF	OFF	ON	ON	OFF	OFF	ON	OFF
77	ON	OFF	ON	ON	OFF	OFF	ON	OFF

ID	SW1-#1	SW1-#2	SW1-#3	SW1-#4	SW1-#5	SW1-#6	SW1-#7	SW1-#8
78	OFF	ON	ON	ON	OFF	OFF	ON	OFF
79	ON	ON	ON	ON	OFF	OFF	ON	OFF
80	OFF	OFF	OFF	OFF	ON	OFF	ON	OFF
81	ON	OFF	OFF	OFF	ON	OFF	ON	OFF
82	OFF	ON	OFF	OFF	ON	OFF	ON	OFF
83	ON	ON	OFF	OFF	ON	OFF	ON	OFF
84	OFF	OFF	ON	OFF	ON	OFF	ON	OFF
85	ON	OFF	ON	OFF	ON	OFF	ON	OFF
86	OFF	ON	ON	OFF	ON	OFF	ON	OFF
87	ON	ON	ON	OFF	ON	OFF	ON	OFF
88	OFF	OFF	OFF	ON	ON	OFF	ON	OFF
89	ON	OFF	OFF	ON	ON	OFF	ON	OFF
90	OFF	ON	OFF	ON	ON	OFF	ON	OFF
91	ON	ON	OFF	ON	ON	OFF	ON	OFF
92	OFF	OFF	ON	ON	ON	OFF	ON	OFF
93	ON	OFF	ON	ON	ON	OFF	ON	OFF
94	OFF	ON	ON	ON	ON	OFF	ON	OFF
95	ON	ON	ON	ON	ON	OFF	ON	OFF
96	OFF	OFF	OFF	OFF	OFF	ON	ON	OFF
97	ON	OFF	OFF	OFF	OFF	ON	ON	OFF
98	OFF	ON	OFF	OFF	OFF	ON	ON	OFF
99	ON	ON	OFF	OFF	OFF	ON	ON	OFF
100	OFF	OFF	ON	OFF	OFF	ON	ON	OFF
101	ON	OFF	ON	OFF	OFF	ON	ON	OFF
102	OFF	ON	ON	OFF	OFF	ON	ON	OFF
103	ON	ON	ON	OFF	OFF	ON	ON	OFF
104	OFF	OFF	OFF	ON	OFF	ON	ON	OFF
105	ON	OFF	OFF	ON	OFF	ON	ON	OFF
106	OFF	ON	OFF	ON	OFF	ON	ON	OFF
107	ON	ON	OFF	ON	OFF	ON	ON	OFF
108	OFF	OFF	ON	ON	OFF	ON	ON	OFF
109	ON	OFF	ON	ON	OFF	ON	ON	OFF
110	OFF	ON	ON	ON	OFF	ON	ON	OFF
111	ON	ON	ON	ON	OFF	ON	ON	OFF
112	OFF	OFF	OFF	OFF	ON	ON	ON	OFF
113	ON	OFF	OFF	OFF	ON	ON	ON	OFF
114	OFF	ON	OFF	OFF	ON	ON	ON	OFF
115	ON	ON	OFF	OFF	ON	ON	ON	OFF
116	OFF	OFF	ON	OFF	ON	ON	ON	OFF

ID	SW1-#1	SW1-#2	SW1-#3	SW1-#4	SW1-#5	SW1-#6	SW1-#7	SW1-#8
117	ON	OFF	ON	OFF	ON	ON	ON	OFF
118	OFF	ON	ON	OFF	ON	ON	ON	OFF
119	ON	ON	ON	OFF	ON	ON	ON	OFF
120	OFF	OFF	OFF	ON	ON	ON	ON	OFF
121	ON	OFF	OFF	ON	ON	ON	ON	OFF
122	OFF	ON	OFF	ON	ON	ON	ON	OFF
123	ON	ON	OFF	ON	ON	ON	ON	OFF
124	OFF	OFF	ON	ON	ON	ON	ON	OFF
125	ON	OFF	ON	ON	ON	ON	ON	OFF
126	OFF	ON	ON	ON	ON	ON	ON	OFF
127	ON	OFF						
128	OFF	ON						
129	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON
130	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON
131	ON	ON	OFF	OFF	OFF	OFF	OFF	ON
132	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON
133	ON	OFF	ON	OFF	OFF	OFF	OFF	ON
134	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
135	ON	ON	ON	OFF	OFF	OFF	OFF	ON
136	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON
137	ON	OFF	OFF	ON	OFF	OFF	OFF	ON
138	OFF	ON	OFF	ON	OFF	OFF	OFF	ON
139	ON	ON	OFF	ON	OFF	OFF	OFF	ON
140	OFF	OFF	ON	ON	OFF	OFF	OFF	ON
141	ON	OFF	ON	ON	OFF	OFF	OFF	ON
142	OFF	ON	ON	ON	OFF	OFF	OFF	ON
143	ON	ON	ON	ON	OFF	OFF	OFF	ON
144	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON
145	ON	OFF	OFF	OFF	ON	OFF	OFF	ON
146	OFF	ON	OFF	OFF	ON	OFF	OFF	ON
147	ON	ON	OFF	OFF	ON	OFF	OFF	ON
148	OFF	OFF	ON	OFF	ON	OFF	OFF	ON
149	ON	OFF	ON	OFF	ON	OFF	OFF	ON
150	OFF	ON	ON	OFF	ON	OFF	OFF	ON
151	ON	ON	ON	OFF	ON	OFF	OFF	ON
152	OFF	OFF	OFF	ON	ON	OFF	OFF	ON
153	ON	OFF	OFF	ON	ON	OFF	OFF	ON
154	OFF	ON	OFF	ON	ON	OFF	OFF	ON
155	ON	ON	OFF	ON	ON	OFF	OFF	ON

ID	SW1-#1	SW1-#2	SW1-#3	SW1-#4	SW1-#5	SW1-#6	SW1-#7	SW1-#8
156	OFF	OFF	ON	ON	ON	OFF	OFF	ON
157	ON	OFF	ON	ON	ON	OFF	OFF	ON
158	OFF	ON	ON	ON	ON	OFF	OFF	ON
159	ON	ON	ON	ON	ON	OFF	OFF	ON
160	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON
161	ON	OFF	OFF	OFF	OFF	ON	OFF	ON
162	OFF	ON	OFF	OFF	OFF	ON	OFF	ON
163	ON	ON	OFF	OFF	OFF	ON	OFF	ON
164	OFF	OFF	ON	OFF	OFF	ON	OFF	ON
165	ON	OFF	ON	OFF	OFF	ON	OFF	ON
166	OFF	ON	ON	OFF	OFF	ON	OFF	ON
167	ON	ON	ON	OFF	OFF	ON	OFF	ON
168	OFF	OFF	OFF	ON	OFF	ON	OFF	ON
169	ON	OFF	OFF	ON	OFF	ON	OFF	ON
170	OFF	ON	OFF	ON	OFF	ON	OFF	ON
171	ON	ON	OFF	ON	OFF	ON	OFF	ON
172	OFF	OFF	ON	ON	OFF	ON	OFF	ON
173	ON	OFF	ON	ON	OFF	ON	OFF	ON
174	OFF	ON	ON	ON	OFF	ON	OFF	ON
175	ON	ON	ON	ON	OFF	ON	OFF	ON
176	OFF	OFF	OFF	OFF	ON	ON	OFF	ON
177	ON	OFF	OFF	OFF	ON	ON	OFF	ON
178	OFF	ON	OFF	OFF	ON	ON	OFF	ON
179	ON	ON	OFF	OFF	ON	ON	OFF	ON
180	OFF	OFF	ON	OFF	ON	ON	OFF	ON
181	ON	OFF	ON	OFF	ON	ON	OFF	ON
182	OFF	ON	ON	OFF	ON	ON	OFF	ON
183	ON	ON	ON	OFF	ON	ON	OFF	ON
184	OFF	OFF	OFF	ON	ON	ON	OFF	ON
185	ON	OFF	OFF	ON	ON	ON	OFF	ON
186	OFF	ON	OFF	ON	ON	ON	OFF	ON
187	ON	ON	OFF	ON	ON	ON	OFF	ON
188	OFF	OFF	ON	ON	ON	ON	OFF	ON
189	ON	OFF	ON	ON	ON	ON	OFF	ON
190	OFF	ON	ON	ON	ON	ON	OFF	ON
191	ON	ON	ON	ON	ON	ON	OFF	ON
192	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON
193	ON	OFF	OFF	OFF	OFF	OFF	ON	ON
194	OFF	ON	OFF	OFF	OFF	OFF	ON	ON

ID	SW1-#1	SW1-#2	SW1-#3	SW1-#4	SW1-#5	SW1-#6	SW1-#7	SW1-#8
195	ON	ON	OFF	OFF	OFF	OFF	ON	ON
196	OFF	OFF	ON	OFF	OFF	OFF	ON	ON
197	ON	OFF	ON	OFF	OFF	OFF	ON	ON
198	OFF	ON	ON	OFF	OFF	OFF	ON	ON
199	ON	ON	ON	OFF	OFF	OFF	ON	ON
200	OFF	OFF	OFF	ON	OFF	OFF	ON	ON
201	ON	OFF	OFF	ON	OFF	OFF	ON	ON
202	OFF	ON	OFF	ON	OFF	OFF	ON	ON
203	ON	ON	OFF	ON	OFF	OFF	ON	ON
204	OFF	OFF	ON	ON	OFF	OFF	ON	ON
205	ON	OFF	ON	ON	OFF	OFF	ON	ON
206	OFF	ON	ON	ON	OFF	OFF	ON	ON
207	ON	ON	ON	ON	OFF	OFF	ON	ON
208	OFF	OFF	OFF	OFF	ON	OFF	ON	ON
209	ON	OFF	OFF	OFF	ON	OFF	ON	ON
210	OFF	ON	OFF	OFF	ON	OFF	ON	ON
211	ON	ON	OFF	OFF	ON	OFF	ON	ON
212	OFF	OFF	ON	OFF	ON	OFF	ON	ON
213	ON	OFF	ON	OFF	ON	OFF	ON	ON
214	OFF	ON	ON	OFF	ON	OFF	ON	ON
215	ON	ON	ON	OFF	ON	OFF	ON	ON
216	OFF	OFF	OFF	ON	ON	OFF	ON	ON
217	ON	OFF	OFF	ON	ON	OFF	ON	ON
218	OFF	ON	OFF	ON	ON	OFF	ON	ON
219	ON	ON	OFF	ON	ON	OFF	ON	ON
220	OFF	OFF	ON	ON	ON	OFF	ON	ON
221	ON	OFF	ON	ON	ON	OFF	ON	ON
222	OFF	ON	ON	ON	ON	OFF	ON	ON
223	ON	ON	ON	ON	ON	OFF	ON	ON
224	OFF	OFF	OFF	OFF	OFF	ON	ON	ON
225	ON	OFF	OFF	OFF	OFF	ON	ON	ON
226	OFF	ON	OFF	OFF	OFF	ON	ON	ON
227	ON	ON	OFF	OFF	OFF	ON	ON	ON
228	OFF	OFF	ON	OFF	OFF	ON	ON	ON
229	ON	OFF	ON	OFF	OFF	ON	ON	ON
230	OFF	ON	ON	OFF	OFF	ON	ON	ON
231	ON	ON	ON	OFF	OFF	ON	ON	ON
232	OFF	OFF	OFF	ON	OFF	ON	ON	ON
233	ON	OFF	OFF	ON	OFF	ON	ON	ON

ID	SW1-#1	SW1-#2	SW1-#3	SW1-#4	SW1-#5	SW1-#6	SW1-#7	SW1-#8
234	OFF	ON	OFF	ON	OFF	ON	ON	ON
235	ON	ON	OFF	ON	OFF	ON	ON	ON
236	OFF	OFF	ON	ON	OFF	ON	ON	ON
237	ON	OFF	ON	ON	OFF	ON	ON	ON
238	OFF	ON	ON	ON	OFF	ON	ON	ON
239	ON	ON	ON	ON	OFF	ON	ON	ON
240	OFF	OFF	OFF	OFF	ON	ON	ON	ON
241	ON	OFF	OFF	OFF	ON	ON	ON	ON
242	OFF	ON	OFF	OFF	ON	ON	ON	ON
243	ON	ON	OFF	OFF	ON	ON	ON	ON
244	OFF	OFF	ON	OFF	ON	ON	ON	ON
245	ON	OFF	ON	OFF	ON	ON	ON	ON
246	OFF	ON	ON	OFF	ON	ON	ON	ON
247	ON	ON	ON	OFF	ON	ON	ON	ON
248	OFF	OFF	OFF	ON	ON	ON	ON	ON
249	ON	OFF	OFF	ON	ON	ON	ON	ON
250	OFF	ON	OFF	ON	ON	ON	ON	ON
251	ON	ON	OFF	ON	ON	ON	ON	ON
252	OFF	OFF	ON	ON	ON	ON	ON	ON
253	ON	OFF	ON	ON	ON	ON	ON	ON
254	OFF	ON						
255	ON							

PREPARING ADAPTER AND CABLES

Power Adapter

Power adapter has the capacity of AC24V 2.5A.



Video Cable

The camera's video output port is connected to the monitor with a BNC coaxial cable, shown below : If the distance between the camera and the monitor exceeds the recommended maximum, please use an auxiliary video amp.

Distance	Recommended Cable Specification
300m	4C2V(RG-59/U)
450m	5C2V(RG-6/U)
600m	7C2V(RG-11/U)

Ø

If the camera is controlled through coaxial communication, please use a video amp intended for coaxial communications. Regular video amps do not transfer coaxial signals.

Communications Cable

For the camera to communicate with the controller, a RS-485/422 communications line is required. To ensure the quality of long distance communication and the accuracy of the overall communication it is recommended using a twisted pair cable such as UTP.





- Depending on the camera's environment, the communications distance may vary.
- Neither the video nor communications cable is enclosed with the camera.

PRODUCT CONFIGURATIONS



PREPARING & INSTALLING CAMERA BRACKET

For installation guidelines for brackets and housings, refer to the installation manual that is enclosed with the bracket or housing.

Available Bracket Models

Model	Item	Indoor Model	Environmental Model
SHP-3700H	Outdoor Housing		
SBP-300HM1	Hanging Mount	Yes	-
SBP-300WM1	Mall Mount		Yes
SBP-300WM	VVairiviourit		
SBP-300CM	Ceiling Mount		
SBP-300LM	Parapet Mount		
SBP-300KM	Corner Mount		
SBP-300PM	Pole Mount		



See "Optional Accessories for Installation" for the appearance of each bracket

OPTIONAL ACCESSORIES FOR INSTALLATION

For your easier installation, you can purchase appropriate optional accessories available.

- **1.** If installing the camera on the wall
 - Wall mount (SBP-300WM1)

• Wall mount (SBP-300WM)

- 2. If installing the camera on the ceiling
 - Ceiling Mount (SBP-300CM)

- 3. If installing the wall mount (SBP-300WM/SBP-300WM1) on an at least 80mm-long cylinder
 - Pole Mount (SBP-300PM)










- 4. If installing the wall mount (SBP-300WM/SBP-300WM1) on a corner of the wall
 - Corner Mount (SBP-300KM)

- 5. If installing on a building rooftop
 - Parapet Mount (SBP-300LM)

- 6. If installing an indoor model outdoors
 - Outdoor Housing (SHP-3700H)

7. If installing an indoor model on the ceiling

(SHP-3700F/STH-370PE)

• Flush-Mount Indoor Housing for PTZ Dome Camera

8. If installing an indoor model on the wall mount or ceiling mount
Hanging Mount (SBP-300HM1)









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• Bracket Mounting (Indoor Model)



Wall mount (SBP-300WM1)



Ceiling Mount (SBP-300CM)

Bracket Mounting (Environmental Model)



Wall mount (SBP-300WM1)



Ceiling Mount (SBP-300CM)



Wall mount (SBP-300WM)



Parapet Mount (SBP-300LM)



Wall mount (SBP-300WM)



Parapet Mount (SBP-300LM)

ON-CEILING MOUNT TYPE INSTALLATION EXAMPLE

• Attaching the template and installing the install base

Attach the provided template on the ceiling. Based on the template, drill a 88mm hole in the ceiling and arrange the wires through the hole. Then, install the install base as shown. Before installing the exposed bracket, open the hinged door at the bottom of the bracket as shown in the picture. Hold the Lever on the hinged door to open.



• Wiring Terminal Cables

Connect the cables to the terminal block on the hinged door. For the location of the wiring pins, please refer to the "Camera Wiring Diagram" on Page 18. Once the wiring is successful, close the hinged door.

Do not connect the camera to a power outlet until the installation is complete. Supplying power in the middle of the installation may cause fire or damage the product.



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Setting Up Camera DIP Switches

DIP switches for communication and ID protocols are located on the bottom of the camera. For the switch settings, refer to the dip switch settings of this manual.



Connecting Camera Safety Cable and Attaching Camera

Carefully attach the camera to the mount following the alignment guide marks as shown in the picture. First hook the camera's safety cable on the mount, and then attach the camera.



* To attach the camera to the mount, refer to the alignment guide marks as shown in the picture.

Make sure to first hook the camera's safety cable to the mount before proceeding. Otherwise you may be exposed to serious injury caused by a fallen camera.

* To attach or detach the camera, refer to the picture.

- * Attaching the camera: Hold up the camera and push it to the mount as shown in the picture. Push the camera until you hear a "click".
- * Detaching the camera: To detach the camera, pull the camera downward while pushing the unlock buttons on the camera upward.



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EXAMPLE OF INSTALLING AN ENVIRONMENTAL MODEL

Fix the installation base with the bracket

1. Fix the base with the bracket by turning it clockwise.

- **2.** As shown in the picture below, gently press and lift up the handle of the hinged door on the bottom of the installation base. Please refer to the "Camera Wiring Interface Board" on page 18, connect the wires.
 - Do not connect the camera to a power outlet until the installation is complete. Supplying power while the installation is in progress may cause fire or damage the product.
- **3.** Connect the camera safety wire to the installation base.







- **4.** Assemble Camera and Installation Base Assemble the installation base and camera by matching the installation direction guides.
- UNICOCK POEM

5. Attach Camera

Turn the camera frame counterclockwise until the protrusions on the camera frame and installation base become matched perfectly.

- **6.** Secure Camera and Installation Base As shown in the picture below, secure the installation base and camera using 3 hexagon screws.



INTERFACE SYMBOLS

Motion Detection Standby/Operation Display :

When in standby mode, the "D" in the upper right of the screen blinks and then changes to "A" if motion is detected.

• Alarm Input Port Status Display :

"(1)", "(2)", "(3)", "(4)", "(5)", "(6)", "(7)", and "(8)" in the upper right of the screen blink.

• Current Alarm Port Display According to Input Alarm Ports(Priority) :

Only one of "**71**", "**72**", "**73**", "**74**", "**76**", "**76**", "**76**", "**78**" in the upper right of the screen blinks. * The alarm port indicator blinks only when the sequence is set .

• Preset Number Display Settings :

'*' : If a preset number is already available'H' : If a preset location is the camera's home position'T' : If a preset location is the camera's Auto Track starting point (SCP-XXXXT Only)

- PTZ Function Screen :
 Camera Name
 Motion Detect
 Alarm Input
 ID=001
 I234
 Area Display
 Area1 Area Name
 Sequence Status
 G-SEQ1
 PRESET : 001 Preset Name
 P:300 T:040 010X
- Preset Number Setting Screen :

Preset Setting Preset=011* (1~255)

USING AND SETTING THE MENUS

OSD (On-screen Display) Indicators



Operating Your Camera

• Panning and Tilting :

Use the joystick of the controller or its direction buttons.

• Controlling Zoom :

Move the joystick clockwise (Tele) or counterclockwise (Wide), or use the zoom buttons.

• Accessing Screen Menus: Press the Menu or OSD button on the controller.



For more detailed information about controls using a third party controller or a DVR, refer to the user's manual of the product.

OSD Commands, Function Chart, and Menu Controls (Applied to Samsung T/Samsung E protocol)

This camera can be operated using two methods: Using hot keys on its dedicated controller, or accessing the OSD (On Screen Display) on the video output. The OSD menu commands are as follows:

Command	Function
Move the joystick up/down/left/right	Moves the OSD menus up/down/left/right, respectively.
Enter/Focus Far	Selects a menu and allows access to the sub menus.
ESC/Focus Near	Cancels a command and moves back to an upper-level menu.

OSD Menu Chart

You can have an overall view of the menu structure. For more information, refer to the applicable page or section in the manual.



CAMERA SETUP

Zoom and Focus Settings

Focus Mode

- AUTO : Performs continuous auto-focus.
- MANUAL : Changes the camera mode to Manual Focus.
- ONE SHOT : Auto-focuses the camera once after the Pan, Tilt, or Zoom function is used.

Zoom Tracking

Through this menu you can set up the camera's focus mode when zooming.

- Mode

- Auto : Auto-focuses when zooming.
- Tracking : Focuses manually when zooming.
- Off : Disable the focus modes when zooming. (Full manual mode)

- Speed

• Slow/Medium/Fast : Adjusts the zooming speed.

Model	Fast	Medium	Slow
37x (SCP-3370)	2.8 sec	4.0 sec	7.1 sec
37x (SCP-2370)	2.5 sec	3.1 sec	5.6 sec
33x (SCP-2330)	2.2 sec	2.5 sec	4.7 sec
27x (SCP-2270)	1.8 sec	2.3 sec	4.5 sec

Digital Zoom

Enables the maximum digital zoom. Setting the digital zoom to 16x provides a total zoom of 592x.



Unlike the optical zoom, the graphics quality of the digital zoom decreases as its zoom ratio increases.

- The auto-focus function may not operate normally under the following conditions :
 - When background illumination is low
 - While Slow-Shutter is in operation
 - If the zoom level is set too high
 - When background illumination is too high
 - If a long distance object and a close distance object appear together within a monitoring area
 - If there is no contrast, e.g. the sky or a wall
 - If the camera is facing a thin horizontal line
- Auto Focus focuses on an object in the center of the screen; objects around the screen edges may not be properly in focus.

Camera Setting _↓	
Sequence Setting ₄ _	
P/T Setting ₄ _	
OSD Setting _←	
Alarm Setting ₄ _	
Initialize₄	
Password Setting _←	
Status₄⊔	J
•	
Camera Setting	
Zoom/Focus₄	
White Balance	AUTO
Exposure₄	
Back Light	OFF
AGC	High
SSNK	iviedium
OOUM∢- Day & Night	
Others, I	
Zoom/Focus	

SETUF

Main Menu

ONE SHOT

OFF

Focus Mode

Digital Zoom

Zoom Tracking

White Balance

The White Balance menu adjusts the balance of the screen colors under different lighting conditions.

- ATW : Adjusts the screen color automatically. (Color Temperature:1800~10500°K)
- INDOOR : Adjusts the screen color to be optimal in an indoor environment. (Color Temperature:4500~8500°K)
- OUTDOOR : Adjusts the screen color to be optimal in an outdoor environment. (Color Temperature:1700~11000°K)
- AWC : To obtain the optimal condition for the current lighting, put the focus of the camera to a white paper and press the SET button. If the lighting environment is changed, you should readjust the settings accordingly.
- MANUAL : Enables customization the Red and Blue gains.

Main Menu
Camera Setting
Sequence Setting
P/T Setting ₄ _
OSD Setting ↓
Alarm Setting
Initialize
Password Setting
Status

Camera Setting	
Zoom/Focus₄_	
White Balance	AUTO
Exposure₄	
Back Light	OFF
AGC	High
SSNR	Medium
SSDR₄	
Day & Night₊	
Others₊	

White Balance may not work properly under the following conditions.

- When the color temperature of the environment surrounding the subject is out of the control range.(e.g. Clear sky or sunset)
- **2** When the ambient illumination of the subject is dim.
- If the camera is directed towards a fluorescent light or is installed in a place where illumination changes dramatically, White Balance adjustments may not deliver consistent results.

Exposure

The Exposure settings are to control the camera's exposure meter.

- Brightness : Adjusts the screen brightness. (Over 50: Brighter, Under 50: Darker)
- Iris
 - AUTO : Automatically adjusts the exposure meter.
 - MANUAL : Enables manual adjustment of the exposure meter. (F1.6~Close: 18 levels)
- Shutter : Controls the camera's electronic shutter.
 - --- : The shutter speed is fixed at 1/60 for NTSC and 1/50 for PAL. Operates when Iris is on the Auto Mode.
 - ESC : Adjusts the shutter speed automatically according to the screen brightness. Operates when Iris is on the Manual Mode.
 - A.FLK : Select this setting when you experience picture flickering. Flickering can happen when artificial lighting frequencies clash with camera frame rates.
 - MANUAL : Enables manual adjustment of the shutter speed.
- Sens-Up
 - AUTO : Automatically detects light levels and maintains a cle picture at night or under low-light conditions.
 - Sens-Up Limit : Adjusts to the maximum-powered zoom pe frame

əar ər	AGC SSNR SSDR₊J Day & Night₊J Others₊J	High Medium
	•	
	Exposure	
	Brightness Iris	050 AUTO
ion	Shutter Sens-Up	 AUTO

- For optimal performance of the A.FLK mode, avoid using the mode in conjunction with Backlight.
- While the Internal Sync mode is in effect, setting the shutter to '---' and facing the camera directly to a bright light source may cause poor camera performance.
- Sens-Up is disabled when the shutter is in Manual or A. FLK mode.



SETUP

Initialize Password Setting

Status₄ L



<u>setup</u>

Back Light

The Backlight function is dedicated to SV-V DSP (SCP-3XX0) or W-V DSP (SCP-2XX0) chip, developed by Samsung Techwin, which, unlike the old models, provides a sharp image of both object and background against a severe counter-light condition.

Back Light Mode

- OFF : Disables the Backlight mode.
- WDR : Activates the Wide Dynamic Range mode.
- HLC : Activates the High Light Compensation mode.
- BLC : Activates a user defined backlight compensation mode.

Main Menu

Camera Setting ↓ Sequence Setting ↓ P/T Setting ↓ OSD Setting ↓ Alarm Setting ↓ Initialize ↓ Password Setting ↓ Status ↓

Camera Setting	
Zoom/Focus₄⊔ White Balance	AUTO
Exposure₄	
Back Light	OFF
AGC	High
SSNR	Medium
SSDR₊⊔	
Day & Night₄	
Others₄	

WDR (SCP-3XX0 Only)

When there are both bright and dark areas at the same time, this mode makes both areas distinctive.





WDR Setting	
Limit	LOW
Level	50
Mode	ON
Anti Rolling	ON

WDR ON

WDR OFF

- Limit : Three WDR sensitivity levels are available in 3: Low, Medium , and High. Note that the higher the sensitivity level, the lower the contrast in the light and dark areas becomes.

- Level : Adjusts the screen brightness in WDR mode.

- MODE : Select a mode that is suitable to the indoor or outdoor backlight condition.
- ANTI ROLLING : Reduces the difference of ambient colors to lessen the rolling that occurs under the fluorescent lighting.



- If you set both Iris and Shutter to "MANUAL", WDR will be disabled.
- If you are using VPS, WDR will be disabled.
- During WDR operation, noise, discoloration, spots, and whitish symptoms may occur depending on lighting conditions. If they occur, stop using WDR.

HLC Setting

Mask Tone

Level

HLC Setting

The HLC settings selectively eliminates high lights in a limited environment such as the entrance to an apartment parking lot or gas station, and is useful to detect a small objects like car license plates.

HLC is disabled during the daytime. While monitoring nigh time car traffic, if car headlights reflects too much bright light on the screen, the camera automatically eliminates the headlamp lights and adjusts the color of the license plate accordingly.

HLC Masking Area



<HLC OFF>

- Level : Adjusts the HLC sensitivity level.
- Mask Tone : Adjusts the mask color on the high lighted area.



Even if HLC is on, car license plates may not be detectable depending on the location and angle of the camera as well as the lighting condition.

For SCP-2xxx series, the HLC function will be disabled while using Digital Zoom, Freeze or Stabilizer. (However, SCP-3370 can enable HLC with any of these functions.)

U
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C
τ

LOW

50

BLC Setting

You can selectively choose a screen area to see objects within the area more clearly than others.

- Four-direction Joystick Controls : Moving the joystick in all four directions—upward, downward, left, and right—adjusts the location and size of a selected area.
- Zoom Control :
- Zoom Tele : Enlarges the size of a selected area.
- Zoom Wide : Reduces the size of a selected area.



AGC (Automatic Gain Control) adjusts the camera's gain control and the screen brightness if the camera has captured an object under low-light conditions.

• OFF:

AGC does not function.

• LOW/MEDIUM/HIGH:

As the level increases to HIGH, brighter the captured screen in a dark lighting.

• MANUAL:

AGC can be fine tuned by adjusting the level (5dB ~ 41dB).

BLC	MEDIUM
1 + PST : Level Change 1: Up ↓: Down ←: Left →: Right W: Decrease T: Increase	e

Main Menu
Camera Setting ↓
Sequence Setting₄_
P/T Setting₄_
OSD Setting ₄ _
Alarm Setting ₄ _
Initialize
Password Setting _↓
Status₄J

Camera Setting	
Zoom/Focus₄J White Balance	ATW
Exposure₄ Back Light	OFF
AGC	High
SSNR	Medium
SSDR₊⊣	
Day & Night₄	
Others₊	

SSNR significantly reduces the amount of low luminance noise.

- OFF : Disables the noise reduction function.
- LOW : Reduces only a small amount of noise, but generates almost no afterimage.
- MEDIUM : The most commonly used mode. Reduces a suitable amount of noise while generating a subtle afterimage.
- HIGH : Reduces noise significantly, but generates obvious afterimages.

Camera Setting ↓	
Sequence Setting _↓	
P/T Setting	
OSD Setting ₄ _	
Alarm Setting ₄ _	
Initialize₄	
Password Setting	
Status₄⊔	J
•	
Camera Setting	
Zoom/Focus₄_	
White Balance	ATW
Exposure₄	
Back Light	OFF
AGC	High
SSNR	Medium
SSDR₊⊥	
Day & Night₄	
Others₄	

Main Menu



SSNR is not available if AGC is set to OFF or MANUAL.

SSDR(Samsung Super Dynamic Range)

SSDR illuminates darker spots of an image while retaining the same light level for brighter spots to even out the overall brightness of the image with high contrast between bright and dark spots.



SSDR ON



	Main Menu	
	Camera Setting Sequence Setting	
	P/T Setting	
	OSD Setting ↓	
	Alarm Setting ₄ _	
	Initialize	
	Password Setting	↓
	Status₊	
	ų	1
	Camera Setting	
	Zoom/Focus₄⊔	
	White Balance	ATW
	Exposure₄	
	Back Light	OFF
		High Modium
	SSDR	INECIUM
	Day & Night	
	Others₊	
	4	1
ſ	SSDR	
ŀ	►Mode	ON
ľ	Range	NARROW
	Level	08

- Mode : Enables or disables SSDR.
- Range : Defines a range of SSDR. (SCP-2370 Series)
- Level : Changes the contrast between bright and dark spots by the level.

Day & Night

The Day & Night function allows the camera to switch between the Color and B/W modes.

MODE

- AUTO : Operates in Color mode most times, and switches to B/W mode if a low light level is detected during nighttime.
- COLOR : Operates in Color mode at all times.
- B/W : Operates in B/W mode at all times. By using the Burst On/Off sub menu, burst signals can be retained or disabled.
- * If the camera is in B/W mode and connected to equipment that requires external sync through burst signals, set the Burst On/Off option to "On".

• Duration :

- The camera's light sensitivity is adjustable as in the chart below. The camera's ambient light diversion performance may vary depending on its environment.

	Color → B/W	B/W → Color
FAST	2.5Lux	4Lux
SLOW	0.8Lux	6Lux

• Dwell Time :

- The duration of both the lighting conditions can be customized to let the camera divert between the daytime and nighttime settings.

Main Menu

Camera Setting _↓
Sequence Setting →
P/T Setting
OSD Setting
Alarm Setting ₄ _
Initialize₄
Password Setting →
Status₄

Camera Setting	
Zoom/Focus	
White Balance	ATW
Exposure₄	
Back Light	OFF
AGC	High
SSNR	Medium
SSDR₊	
Day & Night₄⊔	
Others₊⊔	
•	1
Day/Night	
Mode	AUTO
Duration	SLOW

Dwell Time



Auto mode is not available if AGC is set to OFF or MANUAL. Only available if it is set to COLOR or B/W.

Using B/W mode under sunlight or a halogen lamp may decrease the focusing performance.

05 SEC

Others

- Sync : Select Internal or Line Lock (Not applied to SCP-XXXT).
 - INTERNAL : Synchronizes the camera's output timing to the internal crystal.
 - LINE LOCK : Synchronizes the camera's output timing to the AC adapter power to synchronize multiple cameras. This option is useful when using a switch such as Matrix Switcher.
 - LINE LOCK PHASE : Enables setting the adapter's synchronization phase between 0 and 359°.
- Image Adj :
 - Sharpness : Sharpens outlines of an image.
 - Color : Adjusts the color density of an image.
- Freeze : Stops or reanimates an image.
- Stabilizer : The Stabilizer compensates for any small movements of the camera caused by due to the wind and other reasonable causes
 - The Stabilizer uses the digital zoom and may cause low picture quality.
 - The Stabilizer is disabled if the ambient light is too low.
 - The Stabilizer is disabled if the field of view has very low or no contrast, e.g. The sky or a white wall.
- VPS (Virtual Progressive Scan) (SCP-3370 Series) :

Virtual Progressive Scan provides a clearer view of objects, which is used for high-quality video. It is suitable for highquality recording and Internet transfer.

- OFF : Switch the video recording system to 2:1 Interlace Scan.
- ON : Switch the video recording system to Virtual Progressive Scan.
- PIP (Picture in Picture) (SCP-3370 Series) : PIP enables you to display the main image along with a collapsed version of the main image.



The PIP feature will be disabled if using Auto Tracking or Area Masking.

• Dome Cover (Indoor Model) :

The existence of the dome cover will minimize the quality difference according to the image formation position.

- OFF : If removing the dome cover before use
- ON : If using the product by factory default (using the dome cover)

Main Menu Camera Setting I Sequence Setting I P/T Setting I OSD Setting I Alarm Setting I Initialize I Password Setting I Status I

Camera Setting	
Zoom/Focus₄J White Balance	٨٣١٨/
Exposure	AIW
Back Light	OFF
AGC	High
SSNR	Medium
SSDR₄	
Day & Night₊⊔	
Others₄⊥	

_	
Others	
Sync	INTERNAL
Image Adj _∢ _	
Freeze	0FF
Stabilizer	0FF
VPS	0FF
PIP	0FF
Dome Cover	ON

Sequence Setting

Preset

This function enables the memorization of a selected location and activates the Pan, Tilt, and Zoom functions at that location. Saved locations can be recalled using the Preset Execute command.

• Setting Up Preset Numbers :

Selecting the Preset Setting menu brings up a screen as shown below. Move the joystick in all four directions to select the desired number.

Preset Setting			
Preset =	001 (1~255)
001:0000	00000	00000	00000
021:0000	00000	00000	00000
041:00000	00000	00000	0000
061:00000	00000	00000	00000
081:00000	00000	00000	00000
101 : 00000	00000	00000	00000
121 : 00000		00000	00000

• Saving Preset Locations :

Selecting a preset number and pressing the Enter key redirects the menu to the screen shown below.

Using the joystick, adjust the location of the Pan and Tilt functions and then set the Zoom and Focus command.

In Preset Settings, the Zoom and Focus command is controllable only by the Zoom command.

Preset Setting	
1+PST:ZOOM	2+PST:FOCUS



Clear₊ Status₊ SETUP

PTZF Setting

- 1. If you open the PTZF setup menu, you will see the following window. You can use the joystick to select a desired number.
- Select a preset number and press ENTER. You will move to the setup screen. Using the joystick, adjust the location of the Pan and Tilt functions and then set the Zoom and Focus command. In Preset Settings, the Zoom and Focus command is controllable only by the Zoom command.

For switching modes, refer to the menu bar in the bottom.

Preset Setting

L



Preset	
Setting₄	
Edit₄⊔	
Home Position	OFF
Execute₄	
Clear₄	
Status₄J	



┛

Preset Edit	[001]
PTZ Focus Brightness Iris Back Light Day & Night After Action Scene Adi₊	180/025/1X ONE SHOT 050 AUTO OFF AUTO OFF

Edit

With this feature, you can edit or save the video-related settings for each preset of the camera.

- PTZ : Recalls saved locations using the Preset Settings command.
- Focus : Refer to the section entitled Setting Up Your Camera.
- Brightness : Refer to the section entitled Setting Up Your Camera.
- Iris : Refer to the section entitled Setting Up Your Camera.
- Back Light : Refer to the section entitled Setting Up Your Camera.
- Day & Night : Refer to the section entitled Setting Up Your Camera.
- After Action : Enables setting up an automatic action after the camera arrives at a selected preset location.
- \cdot AUTO TRACK : Commands the camera to perform the Auto Tracking function.
- MD : Commands the camera to perform the Motion Detection function. If Focus mode is set to Auto, the MD function may not work properly in a challenging environment.
- \cdot OFF : Select this when no action is desired.
- Others : You can set AGC, Stabilizer, SSNR, SSDR, Shutter, Sens-Up and White Balance functions. For terms related to settings, refer to the camera settings commands.

Motion Detection / Intelligence (SCP-3370 Series)

This will enable you to detect and trace a moving object. SCP-3370 series support the intelligent motion detection feature.

For the compatibility of this feature, refer to the table below.

Model	Features Applied
SCP-2370/2370H/2330/23370H/2270/2270H	OFF / MD
SCP-2370TH	OFF / MD / AutoTrack
SCP-3370/3370H	OFF / Detection / Tracking / Fixed/Moved
SCP-3370TH	OFF / Detection / Tracking / Fixed/Moved / AutoTrack

AutoTrack :

Perform Auto Track after arriving to the preset position.

• Detection :

Perform the intelligent motion detection.

- Detect Box: Display an object in a box that is detected to move in your specified type.
- Detect Area : You can specify a motion detection area.
- Mask Area : You can specify an exceptional area to motion detection by masking the area. You can set up to 4 areas, for each of which you can change the mask coordinates.
- Sensitivity : Specify the sensitivity level of the motion detection. The lower the level is, the stronger the sensitivity becomes.
- Detect Size : Specify the size of an object to detect on the screen. The higher the level is, the greater the size becomes.

• Fixed/Moved :

Detect if an existing object (on the screen) disappears or if an object appears from nowhere and stays for a certain time.

- In following situations, FIXED/MOVED detection may not work properly.
 - 1 If multiple motions continue at random.
 - 2 If a fixed object continues to move in the same position.
 - (3) If a newly appearing object conceals another object that is moving.
 - 5 to 15 seconds of recognition time is required if the [Intelligence] function is activated.
 - The focus mode will be controlled manually if [Intelligence] is enabled.
 - The performance of [Intelligence] may be deteriorated if the camera vibrates due to unstable installation.

DETECTION Detect Box ON Detect Area₊J Mask Area₊J Sensitivity₊J

Det. Size₊

SETUF

60_ setup

<u>setup</u>

• Tracking :

This will detect and trace a moving object. You can use the fence function to count the moving objects. The default setting is the same as in the Detect menu, to which the Fence Position function is added.

- Fence : Specify the position and detectable direction of the line fence or area fence, depending on the fence type.
- Display: Specify the display of the fence status.
- Type : You can select one of two types for the fence LINE and AREA.
- Count : Display the number of times that an object enters or exits from the fence.



In some cases, the Count function may have a difference between number of the detected objects and counter number.

- Fill : Specify the use of color fi lling on the selected fence.
- Position : Specify the position and detectable direction of the line fence or area fence, depending on the fence type.
 - LINE FENCE
 - SEL POS: Select a changing point from position 1 and position 2.
 - X POS/Y POS: Specify the position of the changing point that you have selected in the SEL POS menu.
 - DIRECTION:

DIR 1: Detect an object that moves from left to right based on the specified fence line.

- DIR 2: Detect an object that moves from right to left based on the specified fence line.
- DIR 1/2: Detect an object that moves in any direction of right to left or left to right based on the specified fence line.
- AREA FENCE
 - SEL POS:Select a changing point from position 1 through position 4.
 - X POS/Y POS:Specify the position of the changing point that you have selected in the SEL POS menu.
 - DIRECTION:

IN: Detect any object that enters the specified fence area.

OUT: Detect any object that exits from the specified fence area.

IN/OUT: Detect any object that enters or exits from the specified fence area.

TRACKING		
Fence		
Detect Box	ON	
Detect Area₄J		
Mask Area₄J		
Sensitivity₄		
Det. Size₄J		

Fence	
Display	ON
Туре	LINE
Count	OFF
Fill	OFF
Position₄	

		_
Fence		
SEL POS	POS1	
X POS	20	
Y POS	3	
DIRECTION	DIR 1	
	Ť.	



Preset Name Setting

Using this function, you can add names to preset locations.

up to 12 characters.

Once a name is entered, use the joystick and the Enter key to perform the Set command and save the name.





Home Position

Sets one of the currently configured preset positions as the home position.

Preset	
Setting₄	
Edit₄J	
Home Position	OFF
Execute₄	
Clear₄	
Status₄	

Execute

Recalls a saved preset location.

While in Sequence mode operation, the actual movement can be slower than the specified when moving the camera in the direction of Pan and Tilt at the same time.

Preset	
Setting₄	
Edit₄	
Home Position	OFF
Execute₄	
Clear₄	
Status₄	

Preset	
Setting₊	
Edit₄⊔	
Home Position	OFF
Execute₄	
Clear₄	
Status₄J	

Preset	
Setting₄	
Edit₄⊒	
Home Position	OFF
Execute₄	
Clear₄	
Status₄⊔	

Clear Deletes

Deletes the selected preset location.

Status

Opens a map of saved preset locations. An area saved as a preset location is displayed with the 'V' icon.

Preset Status		
001:20000		

001:0000	00000	00000	00000
021:00000	00000	00000	00000
041:00000	00000	00000	00000
061:00000	00000	00000	00000
081:00000	00000	00000	00000
101 : 00000	00000	00000	00000
121 : 00000	00000	00000	00000
141 : 00000	00000	00000	00000

Pre	set Status	
161 181 201	: 00000 : 00000 · 00000	
221 241	: 00000	

Swing SEQ

The Swing function commands the camera to move between 2 selected locations, monitoring the route.

• Pan Swing :

Activates the Pan function for the Swing operation.

• Tilt Swing :

Activates the Tilt function for the Swing operation.

• P/T Swing :

Activates both the Pan and Tilt functions for the Swing operation.

• Swing Setting/Execute/Clear

Each of the Swing menus have sub menus with the settings.



Select 2 preset locations by using the joystick.

Speed indicates the camera's movement speed. DWELL TIME indicates the camera's duration of stay at a preset location.

- Execute: Executes the Swing operation.
- Clear: Deletes data in the Swing memory.



While in Sequence mode operation, the actual movement can be slower than the specified when moving the camera in the direction of Pan and Tilt at the same time.

	Camera Setting _↓	
	Sequence Setting ←	
	P/T Setting₄_	
	OSD Setting₄_	
	Alarm Setting ₄ _	
	Initialize₄	
	Password Setting	
	Status₄	
	•	
	Sequence Setting	
	Preset 🗸	
	Swing SEQ 🖵	
	Group SEQ 🖵	
	Tour SEQ ↓	
	PTZ Trace	
	Auto Kun 🗸	
	Power On Resume	UN
	•	
	Swing SEQ	
ſ	Pan Swing 🖵	
	Tilt Swing 🖵	
	P/T Swing 🖵	

Main Menu

Group SEQ

Selecting Group SEQ recalls a group of multiple preset locations in a consecutive manner. Up to 6 groups can be defined and up to 128 presets can be memorized for each group.

• Setting :

Using the joystick, enter desired preset numbers into the PSET section. DWT indicates the camera's duration of stay at a preset location.

The speed is adjusted in 64 levels.

Group SEQ 1			
NO	PSET	DWT(s)	SPD
001:	*** .	003 :	64
002:	*** .	003 :	64
003:	*** .	003 :	64
004:	*** .	003 :	64
005:	*** .	003 :	64
006:	*** .	003 :	64
007:	*** .	003 :	64

• Execute :

Executes the group operation.

• Clear :

Deletes the selected group.



- About 8 seconds of recognition time is required if [Intelligence] of the preset is activated from the Group menu.
- For a proper operation of [Intelligence], set [Time (sec)] of the Group menu to more than 8 seconds.

Main Menu		
Camera Setting _↓		
Sequence Setting		
P/T Setting		
OSD Setting ₄ _		
Alarm Setting ₄ →		
Initialize₄		
Password Setting ↓		
Status₄⊥		
•		
Sequence Setting		
Preset 🗸		
Swing SEQ 🖵		
Group SEQ 🖵		
Tour SEQ ↓		
PTZ Trace		
Auto Kun 🗸		
	UN	
•		
Group SEQ	,	
Group 1		
Group 2		
Group 3		
Group 4		
(_		
•		
Group SEQ 1		
Setting 🖵		
Execute 🗸		
Clear ₊		

Tour SEQ

Selecting Tour SEQ recalls groups of preset locations in a consecutive manner. Up to 6 groups can be listed for this function.

• Setting :

Selecting the Settings menu brings up the following screen. Using the joystick, you can enter desired group numbers to the Group section. DWT indicates the camera's standby time before a new group is recalled.

			_
Tour SEQ			
NO	Group	DWT(s)	
01:	*	003	
02:	*	003	
03:	*	003	
04:	*	003	
05:	*	003	
06:	*	003	

• Execute :

Executes the group operation.

• Clear :

Deletes the selected group.

Main Menu	
Camera Setting	
Sequence Setting	
P/T Setting	
OSD Setting₄_	
Alarm Setting ₄ □	
Initialize	
Password Setting ↓	
Status₄⊔	
•	
Sequence Setting	
Preset 🗸	
Swing SEQ	
Group SEQ 🗸	
Tour SEQ ↓	
PTZ Trace	
Auto Kun 🚽	
Power On Resume	
•	
Tour SEQ	
Setting 🗸	
Execute 🗸	
Clear 🗸	

<u>setup</u>

PTZ Trace

Maximum 4 patterns of the manual operation paths (for Pan, Tilt, Zoom and Focus) are memorized and replayed.

Replay :

Replays a route saved by the Trace function.

Replay Once :

Replays a saved Trace route once.

• Memorize :

The time for storing the event differs depending on the complexity of PTZ operations of your choice. When the memory is full, any further storing will be stopped. You can use the Menu button (OSD access key) to stop the

memorize function during its process.

5	Substance of the state of the s			
	Protocol	Representative Model	Stop saving the trace	
	PELCO-D/P	KDB300A	Ack, Iris Open	
	SAMSUNG-E	SSC-5000	OSD ON, Iris Open	
	PANASONIC	WV-CU161C	OSD ON	
	VICON	V1300X-DVC	Iris Open	
	HONEYWELL	HTX-3000	Iris Open	
	AD		OSD ON, Iris Open	
	GE	KTD-405	Iris Open	
	Bosch		Iris Open	

• Clear : Deletes a saved Trace route.

Main Menu Camera Setting ↓ Sequence Setting P/T Setting OSD Setting Alarm Setting Initialize Password Setting Status₊ L Sequence Setting Preset 🚚 Swing SEQ Group SEQ Tour SEQ 🖵 PTZ Trace Auto Run 🖵 Power On Resume ON ┶ PTZ Trace Trace 1 Trace 2 Trace 3 Trace 4 🖵 J Trace 1 Replay **Replay Once** Memorize Clear

Auto Run

If there is no controller operation by the user for a certain time, the sequence operation designated by the user will be executed.

Mode :

- HOME : Auto run Home Position (Refet to the Preset Menu.)
- PRESET : Auto run a selected preset number.
- SWING : Auto run a selected Swing mode.
- GROUP : Auto run a selected Group mode.
- TOUR : Auto run a selected Tour mode.
- TRACE : Auto run a selected trace mode.
- A.PAN : Auto run a 360-degree pan. To activate the panning command, you need to set up the camera's tilt angle and auto pan speed manually.
- SCHEDULE : Execute Auto Run on the selected day of the week.

• Time :

Enables setting up an Auto Run duration. (The duration can be $5 \sim 30$ seconds, or $1 \sim 5$ minutes.)



- Camera Setting Sequence Setting P/T Setting SD Setting Alarm Setting
- Initialize₄
- Password Setting ↓
- Status₊⊔



L

Auto Run	
Mode	0FF
Time	20 SEC

Schedule

Schedule enables you to schedule a sequencing action by day and time.

• Select Day :

At Auto Run, select SCHEDULE to set up each day of the week, as shown on the side picture. Select a day, change to ON, and then press Enter.

• Select Time :

When turning ON a day, a timetable appears as shown on the side picture. (Up to 6 timelines can be selected for a day.) Select the beginning time and sequencing action to schedule the action.

Auto Run		
Mode	SCHEDULE₊	
Time	20SEC	

Schedule Set	
Sunday	ON₊
Monday	OFF
Tuesday	OFF
Wednesday	OFF
Thursday	OFF
Friday	OFF
Saturday	OFF
L	

		•	
Sch	edule Set		
No	START	SEQ	No
1	09:00	HOME	
2	00:00	OFF	
3	00:00	OFF	
4	00:00	OFF	
5	00:00	OFF	
6	00:00	OFF	
Clea	ar₄		,

Power On Resume

• Power On Resume :

This is useful when the power is disconnected and reconnected due to power failures or other power interruptions.

If the camera was performing a sequence action prior to a power disconnection, the camera automatically resumes the action when the power is reconnected.

Main Menu

Camera Setting ↓

Sequence Setting_↓

P/T Setting₄_



P/T Setting

Pan/Tilt Limit

The moving ranges in the Pan/Tilt directions can be limited.

Position :

Selecting the Position menu brings up the following screen if it is for the Pan Limit setting. Move the joystick left and right to select a movement range from the starting point to the end.



The following picture shows the Tilt Limit setting.

Move the joystick left and right to select a movement range from the starting point to the end.



Activation :

Sets the configured Pan/Tilt Limit function to use or not.





Activation

SETUP

OFF

Area Setting

The Area Setting menu enables selecting certain locations in the course of the Pan and Tilt operation, and then display the areas with the OSD (On Screen Display) texts when the camera passes through them. Up to 8 areas can be selected.

• Area Name :

You can add names to selected areas. Names can be up to 12 characters and can be entered via the joystick and the Enter key. Once a name is entered, use the joystick and the Enter key to perform the Set command and save the name.



• Position :

As shown in the picture below, move the joystick to select the upper left corner and lower right corner of an area.



The effective positioning range is between -45° and 40° in the tilting angle at the zoom factor of 1x.

Activation :

Cancels or activates the display function of selected areas.

Camera Setting, Sequence Setting, P/T Setting, OSD Setting, Alarm Setting, Initialize, Password Setting, Status,

P/T Setting	
Pan/Tilt Limit₊	
Area Setting _↓	
Area Masking _←	
Prop. P/T	ON
Digital Flip	ON
Image Hold	OFF
Auto Tracking	
Jog Speed	MANUAL
Max Speed Level	6



Area Masking

If a monitoring location includes a highly private area, the area can be selectively excluded from monitoring.

• Position :

- SCP-2XXX Series

As shown in the picture below, move the joystick to select the upper left corner and lower right corner of an area.



- SCP-3370 Series

As shown, specify the masks in the order of: top left \rightarrow top right \rightarrow bottom right \rightarrow bottom left.



Use the joystick in four directions to specify the masks that you want to exclude from the area masking.

* However, SCP-3370TH operates the same as SCP-2XXX series.

Activation :

Activate or deactivate the display of specified masks.



For a product model supporting Auto Track (SCP-XXXXTH), the PIP feature will be disabled if using Area Masking.

Main Menu	
Camera Setting _€ _	
Sequence Setting	
P/T Setting	
OSD Setting	
Alarm Setting ↓	
Initialize	
Password Setting	
Status₄	
•	
P/T Setting	
Pan/Tilt Limit₊	
Area Setting ↓	
Area Masking ↓	
Prop. P/T	ON
Digital Flip	ON
Image Hold	OFF
Joy Speed Level	MANUAL 6
•	
Area Masking	
Mask 1₊	
Mask 2₄	
Mask 3₄	
IVIASK 4₄J	
•	
Mask 1	
Position	
Activation	OFF

Prop. P/T

This commands the camera to change the Pan and Tilt speed automatically according to the current zoom ratio. Moving the joystick clockwise (Tele) slows down and counterclockwise (Wide) accelerates the Pan and Tilt speed, allowing detailed adjustments. Turning this "Off" executes the function the optical 1x zoom speed regardless of how far the lens is zoomed in.

Main Menu			
Camera Setting, Sequence Setting, P/T Setting, OSD Setting, Alarm Setting, Initialize, Password Setting, Status,			
•			
P/T Setting			
Pan/Tilt Limit₊ Area Setting₊ Area Masking₊	ON		
Prop. P/1 Digital Elip	ON		
I Image Hold	OFF		
Auto Tracking			
Joa Speed	MANUAL		
Max Speed Level	6		
Digital Flip

Digital Flip is useful to monitor a moving object or a person passing directly under the camera.

When the object passes straight under the camera, tilting can be traced up to the opposite tilting area without the need of the pan operation. The reverse screen that occurs when the object gets through the 90-degree point will be corrected in digital processing.

- $0^{\circ} \rightarrow 180^{\circ}$: Image flip at the 93-degree point
- $180^\circ \rightarrow 0^\circ$: Image flip at the 87-degree point

IVIAILI IVICILIA	
Camera Setting _← 」	
Sequence Setting	
P/T Setting ₄ _	
OSD Setting ₄ _	
Alarm Setting ₄	
Initialize₄	
Password Setting	
Status₄⊐	
•	
P/T Setting	
P/T Setting Pan/Tilt Limit	
P/T Setting Pan/Tilt Limit₊J Area Setting₊J	
P/T Setting Pan/Tilt Limit₊ Area Setting₊ Area Masking₊	
P/T Setting Pan/Tilt Limit₊⊐ Area Setting₊⊐ Area Masking₊⊐ Prop. P/T	ON
P/T Setting Pan/Tilt Limit₄→ Area Setting₄→ Area Masking₄→ Prop. P/T Digital Flip	ON ON
P/T Setting Pan/Tilt Limit₊ Area Setting₊ Area Masking₊ Prop. P/T Digital Flip Image Hold	ON ON OFF
P/T Setting Pan/Tilt Limit₄→ Area Setting₄→ Area Masking₄→ Prop. P/T Digital Flip Image Hold Auto Tracking₄→	ON ON OFF
P/T Setting Pan/Tilt Limit ↓ Area Setting ↓ Area Masking ↓ Prop. P/T Digital Flip Image Hold Auto Tracking ↓ Jog Speed	ON ON OFF MANUAL

Main Monu

Image Holding

This will display the preset video in still images until the orientation of the camera reaches the preset position at a group or tour movement.

This is useful if you want to monitor the video while preventing a possible visual distraction of the observer.

Camera Setting₊ Sequence Setting₊	
P/T Setting	
OSD Setting ↓	
Alarm Setting	
Initialize	
Password Setting ↓	
Status₄⊒	,
¥	
P/T Setting	
Pan/Tilt Limit₊	
Area Setting	
Area Masking ₄	
Area Masking₊ Prop. P/T	ON
Area Masking₊ Prop. P/T Digital Flip	ON ON
Area Masking Prop. P/T Digital Flip Image Hold	ON ON OFF
Area Masking Prop. P/T Digital Flip Image Hold Auto Tracking	ON ON OFF
Area Masking₊ Prop. P/T Digital Flip Image Hold Auto Tracking₊ Jog Speed	ON ON OFF MANUAL

Main Menu

Auto Track (SCP-XXXXT)

This function is to instruct the camera to track a moving object on the screen.

- Auto Track :
 - ON/OFF : Turns Auto Tracking on or off.
- Camera Height :
 - Adjusts the height of the camera. Tracking performance may decrease if the camera height is not adjusted properly.
 (Height: 2.5m ~ 30m)
- Object Size :

Sets a maximum zoom ratio to zoom in on an object if the Zoom function is used for the tracking operation.

- Small : Zooms in on a tracking object up to 1/4 of the screen height.
- Medium : Zooms in on a tracking object up to 2/4 of the screen height.
- Large : Zooms in on a tracking object up to 3/4 of the screen height.

Sensitivity :

Specify the sensitivity of tracking an object when using Auto Track.

- LOW/MEDIUM/HIGH: The higher the sensitivity is, the camera can track a slightest movement. Decreasing it will track only a greater movement.

Zoom Control :

The function's zoom control settings are as follows.

- Off : Disables the Zoom control.
- ONE SHOT : Performs the Zoom control once during the Motion Detection and Auto Track operations. Depending on the movement detection, the camera performs the Zoom control multiple times.
- Continuous : Performs the Zoom control continuously.

• Auto Release :

Enables setting a maximum duration to follow an object. When the duration expires, the camera stops following the object and returns to the start position to follow another objects.

• Auto Return :

- Off : Commands the camera to stay on the location the last object stopped at instead of returning to the initial position.
- Time Setting : Sets a duration for the camera to standby upon the Auto Release expiration and then return to the start position.

Lost Mode :

Sets up an action for the camera in case the object it is following goes out of the detection range.

- Stop : Commands the camera to stop and abort tracking at the spot where its object disappeared.
- Research : Commands the camera to stop and standby at the spot where its object disappeared.
- Zoom Out : Commands the camera to zoom out and look for a new object in case its current object disappears.

Sequence Setting	
P/T Setting _↓	
OSD Setting₄	
Alarm Setting	
Initialize₄	
Password Setting]
Status₄	
•	
P/T Setting	
Pan/Tilt Limit₊	
Area Setting ₄ ∟	
Area Masking₊	
Prop. P/T	ON
Digital Flip	ON
Image Hold	OFF

Main Menu

Camera Setting

Auto Tracking	
Auto Track	OFF
Camera Height	2.5M
Object Size	SMALL
Sensitivity	HIGH
Zoom Control	OFF
Auto Release	OFF
Auto Return	OFF
	510P
Utners	

Jog Speed

Max Speed Level

MANUAL

6

<u>setup</u>

• Others :

Here you can configure the settings of other options than Auto Track.

- Zone Setting :
- Position : Enables the designation of certain areas as zones for the Auto Track operation. The setting procedures are the same as for Area Mask.
- Mode : Two modes are available: Mask and Alarm. When Mask is selected, the camera does not follow the object entering the masked zone. This is useful if the camera catches swaying objects such as tree branches and flags during the Auto Track peration. When Alarm is selected, the camera activates an alarm if an object enters the zone.
- ► ON/OFF : Activates or deactivates the Zone function.
- Indicator : Indicates objects with icons on the screen.
- ► OFF: Do not display the indicator.
- ► ON (:::): Indicates both the pointer and target.
- ▶ POINTER (---): If a movement is detected, a cross mark will be displayed in the center of the screen.
- ► TARGET ([]): when a moving object is detected, a square grid appears and surrounds the object.
- Target Lock : Target Lock is useful to select and follow an object using the Auto Track mode while operating the camera with the joystick. Target Lock can be turned On or Off. To activate the Auto Track mode, turn on Target Lock, select an object to follow, and then press Enter.

Notes for using Auto Track

- Auto Track is specifically to track down intruders. Thus, it may not be suitable to monitor a crowd.
- If the camera is not safely secured, tracking errors may occur.
- An error may occur due to impurities or stains piling up on the dome cover of the camera.
- Auto Track may not perform what you expected in a certain environment or condition.
- The camera may not follow an object or tracking errors may occur under the following conditions:
 - If the contrast between an object and the background is low
 - If the camera lens is smeared with foreign substances, e.g. raindrops or snowflakes
 - If the lighting is changing dramatically
 - If many movements around an object are detected
 - If an object moves vertically on the optic angle of the camera
 - If an object moves right under the camera installation position
 - If an object creates inconsistent light levels, e.g. the object is too shiny or flickering
 - In environments where there are light reflections causing internal reflections of camera, e.g. windows, shiny road surfaces, and backlights
 - If an object moves behind large and tall objects, e.g. telephone poles
 - If an object moves too quickly
 - If the camera is vibrating

Jog Speed

You can adjust the speed of the pan or tilt operation. The pan/tilt speed changes according to the tilt of the joystick, or you can control the operation in a fixed speed.

• MANUAL :

The pan/tilt speed depends on how much the joystick of the controller is tilted. The more the joystick is tilted, the faster the operation is performed.

• 30/35/40/45/50/55/60 :

The pan/tilt operation will be performed at the selected speed; the greater the number is, the faster the operation is performed.

However, the speed at each level may differ according to the zooming status, and depending on the use of synchronized zooming.

Main Menu	
Camera Setting₊	
Sequence Setting ↓	
P/T Setting ₄ _	
OSD Setting ↓	
Alarm Setting	
Initialize	
Password Setting ↓	
Status₄J	
•	
P/T Setting	
Pan/Tilt Limit₊	
Area Setting ₄ _	
Area Masking ₄ _	
Prop. P/T	ON
Digital Flip	ON
Image Hold	OFF
Image Hold Auto Tracking₄⊔	OFF
Image Hold Auto Tracking₊ Jog Speed	OFF MANUAL

Max Speed Level

Adjusts the maximum speed of Pan and Tilt while performing the Preset and Sequencing actions.

• 1~7 :

Pan and Tilt operations can be set up to 600°/ sec.

* Preset speed for each level

Level	Speed (Unit: °/sec)
7	600
6	560
5	500
4	450
3	400
2	360
1	300

Iviali i Ivieriu	
Camera Setting, Sequence Setting, P/T Setting, OSD Setting, Alarm Setting, Initialize, Password Setting, Status,	
•	
P/T Setting	
Pan/Tilt Limit Area Setting Area Masking Prop. P/T Digital Flip Image Hold Auto Tracking Jog Speed	ON ON OFF MANUAL
IVIAX Speed Level	0

Main Monu



The Pan/Tilt speed will be reduced at below -40°.

OSD SETTING

In this menu, you can configure the OSD (On Screen Display) settings.

• Camera ID :

Displays or hides Camera ID in the upper left of the screen.

• Camera Name :

Add a name to the camera. (First check the Note.)

• Preset Number :

Displays or hides Preset Numbers on the screen.

• Preset Name :

Add names to preset locations. (First check the Note.)

• Seq. Status :

Displays or hides the status of a sequence action that is in progress.

• Area Name :

Displays or hides the Area Name for the Area Settings on the screen.

• PTZ Position :

Displays or hides the status of the Pan, Tilt, and Zoom operation that is in progress.

Language :

Enables changing the system language. This camera supports ENGLISH, CHINESE, FRENCH, GERMAN, SPANISH, ITALIAN, PORTUGUES, POLISH, RUSIAN, CZECH, TURKISH, KOREAN, JAPANESE, TAIWANESE.

Others

- Direction : Indicates the current angle of the camera:

East, West, South, North, Southeast, Southwest, Northeast, or Northwest.

- Clock Setting : You can configure the time related settings.



- Ø
 - When selecting the Camera Name and Preset Name, the screen displays the Left keypad.
 - Names can be up to 12 characters and can be entered via the joystick and the Enter key. Once a name is entered, use the joystick and the Enter key to perform the Set command and save the name.

Camera Setting →	
Sequence Setting _€ _	
P/T Setting _€ _	
OSD Setting ↓	
Alarm Setting ₄	
Initialize₄	
Password Setting ₄ _	
Status₄⊥	
•	
OSD Setting	
Camera ID	ON
Camera Name₄	
Preset Number	ON
Preset Name	
Seq. Status	
Area Name	
Language	ENGLISH

SETUF

Main Menu

<u>setup</u>

ALARM SETTING

Alarm Enable

• ON/OFF :

Enables or disables the Alarm function.

Alarm Input

MOD

Enables selecting an Alarm Input method.

- NO (Normally Open)



< Alarm input when N.O. is enabled >

- NC (Normally Closed)





3 OFF

IN3 OFF

....

Main Menu

As shown in the picture above, the Alarm Input must be entered with the Open or Closed switch signals. Supplying power without entering the signals may damage the product.

K

SETUP

• P(Priority) :

Set the priority of Alarm Inputs. If more than one alarm is simultaneously activated, the alarm with the highest priority activates before the others. Once the alarm is canceled, the next highest priority alarm activates.

• SEQ. :

Enables setting up a sequence action for the camera in response to an alarm. You can configure the settings of: HOME/PRESET/SWING/GROUP/TOUR/TRACE/A.PAN/OFF

Alarm/AUX Output

• Setting 1, 2, 3 :

Enables selecting an Alarm Output method.

- DETECT MODE : Displays the alarm input ports (1~8) and the motion detection input. If you set MD Input, you can select one from: OFF/MD/A.TRACK/ MD+A.TRK.
- AUX MODE : Both Alarm OUT/AUX OUT 1 and 2 are NC/NO while Alarm OUT/AUX OUT 3 performs NO only.

• Timer 1, 2, 3 :

- On : Retains an alarm output for a set duration from a minimum of 1 second to a maximum of 60 hours upon the alarm occurrence.
- MOMENT : The output operation will last until an alarm/AUX event is released since its occurrence.
- The Alarm/AUX output system is equipped with a relay circuit, whose output port operates as below: (based on "NO")



Alarm Out OFF

Alarm Out ON

• OUT Off 1, 2, 3 :

- Output of an alarm/AUX event can be forcibly terminated when it occurred.



2

3

OFF

OFF

Timer

Timer

Out Off 1 Out Off 2 Out Off 3

<u>setup</u>



- Connecting the power connector and GND incorrectly to the NC/NO and COM ports may cause a short circuit and fire, damaging the camera.
- The maximum power capacity of the built-in relay is 30VDC/2A, 125VAC/0.5A, and 250VAC/0.25A. Operating the camera beyond the capacity may decrease the camera's lifespan and damage it.

MD Dwell Time

When Motion Detection under the Preset Edit menu is selected, MD Dwell Time performs the Tour or Group function.

While the camera is performing a sequence action, if motion is detected from a selected preset location, the camera pauses the sequence action operation and starts monitoring the location instead for a duration that is set under the MD Dwell Time menu.

If the motion is no longer detectable or the duration expires, the camera aborts the monitoring operation and then resumes the sequence action.

Main Menu	
Camera Setting ↓	
Sequence Setting _←	
P/T Setting₄	
OSD Setting ₄ _	
Alarm Setting ₄ ⊥	
Initialize₄	
Password Setting	
Status₄⊥	
•	
Alarm Setting	
Alarm Enable	OFF
Alarm Input₄	
Alarm/AUX Output	
MD Dwell Time	OFF
ALM Dwell Time	HOLD

ALM Dwell Time

You can specify the time of sequence operation that will be activated if an event occurs from the alarm input.

• SET:

The sequence operation will proceed for a specified time.

HOLD:

The sequence operation will be maintained until the user deactivates it.

• Power On Reset :

Restarts the camera.

Factory Default Set :

Enables resetting the camera to its factory default settings. When the mode is selected, all custom data such as preset locations is deleted from the camera.

Use this function if it is necessary to reset the settings of the camera.

Camera Default Set :

Reset the zoom module of the camera to the factory default. Use this if you want to return the camera settings of such as Exposure or Backlight to the factory default.

• Auto Refresh :

Optimizes the settings of the electric circuits and component parts of the camera on a regular basis.

This is useful for maintenance purpose, especially when the camera faces a specific light source, or if the camera settings are not maintained properly due to an extended time of recording while rotating the camera in four directions.

- Off, 1~7 Days : Selecting Off disables Auto Refresh and selecting 1~7 Days automatically executes it after 1~7 days has passed.
- * Auto Refresh takes about 10 seconds or less. Any sequence operation that is being performed will be stopped and resume after Auto refresh is completed.
- Auto Track Default (Applied only to Auto Tracking models) : Enables resetting the Auto Track settings.
- Fan Life (Applied only to Environmental models) : Enables setting the Fan Life.
 - Message Display: The following warning message will appear 2 months before the expiry of the fan life. "Fan Life Expired. Replace the Fans"
 - ► ON: Display the warning message. (Default)
 - ► OFF: Do not display the warning message.
 - × [OFF] is to hide the message, rather than to delete it. Set it back to [ON]. Then, the warning message will appear. (Only if you didn't clear the message [Message Clear])
 - Message Clear: Use this if you want to delete the warning message when it pops up.
 - * If you set [Message clear] to [On]after performing the command, no warning message will appear on the screen.
 - Time Reset: Set to count the fan life again after replacing the fan. (However, this is available only after you see a warning message that the fan life has expired.)
 - $\ensuremath{\mathbb{X}}$ The fan life is counted only for an actual operation so the fan can be used longer than the displayed time.
 - Time Remain.(hour):
 - ▶ 49000 : Remaining life of fan (unit: hour)
 - ► The fan life will be updated when you access the [Fan Life] menu and if you press [ENTER] on the [Time Remain.(hour)] item.

Main Menu

Camera Setting₄⊐ Sequence Setting₄⊐

P/T Settina₄

OSD Setting

Alarm Setting

Initialize

Password Setting →

┛

Status₄

Initialize

Power On Reset₄ Factory Default Set₄ Camera Default Set₄ Auto Refresh OFF Auto Track Default₄ Fan Life₄

PASSWORD SETTING

The Password feature enables you to configure a password for rebooting the camera and accessing the OSD and preventing unauthorized modification of existing camera settings.

• On/Off :

Enables or disables Password protection.

Edit Password

Change the password; enter the current password and then a new one, consisting of 4 hexadecimal characters (0~F).

* The default password is "0000".

Main Menu Camera Setting, Sequence Setting, P/T Setting, OSD Setting, Alarm Setting, Initialize, Password Setting, Status, Password Setting On/Off OFF

Edit Password ↓

STATUS

Displays the settings and version of the camera.

- CAM MODEL : Indicates the model name of the camera.
- CAM VER. : Indicates the software version of the camera.
- DOME VER. : Indicates the version of the camera control board.
- COAX VER. : Indicates the software version of the Coax communication
- TRACK VER. (Applied only to Auto Tracking models): Indicates the Auto Track software version of the camera.
- **PROTOCOL :** Indicates the status of the current protocol.
- DOME ID : Dome Camera ID
- **CONTROLLER :** Indicates the settings of the current communications mode.

Main Menu Camera Setting J Sequence Setting J P/T Setting J OSD Setting J Alarm Setting J Initialize J Password Setting J Status J

Camera Status	
CAM MODEL	= SCM2370/PAL
CAM VER.	= V2. 02-101024
DOME VER.	= V0. 08-101023
COAX VER.	= V0. 02-101207
TRACK VER.	= V1. 14-101206
PROTOCOL	= SAMSUNG-T
DOME ID	= 001
CONTROLLER	= Simplex

English - 85

TROUBLESHOOTING

If the product does not function properly, please see the below for trouble shooting.

Problem	Cause and Solution	Page
Controller doop not work	Check if the camera and peripheral devices are properly connected.	
► Verify the setups of ID, protocol, and baud rates.		21~32
	Check if power cable is securely connected to the camera and the monitor. Check if the video cable is properly connected. Consult the operation manual of the system controller connected to the camera.	18~20
No picture is displayed on monitor.	 Check if the iris of the lens is closed. Adjust the menu for the iris of the lens. 	49
	 Check the camera's fixed shutter speed. Adjust the camera's shutter menu. 	49
The picture is too dark/bright.	 Check the camera's Brightness menu. Adjust the camera's Brightness menu. 	49
The monitor displays a white image.	 Check if the iris of the lens is open. Adjust the menu for the iris of the lens. 	49
	Check if the dome cover or the camera lens is dirty or smudged. If it is, clean the dirt off.	-
	Verify the distance between the camera and the subject, as well as the subject's surroundings. Camera may have difficulty focusing on a subject against a white background.	-
Picture is out of focus.	ture is out of focus. If Auto Focusing is having difficulty focusing on a particular subject, set Focus Mode to Manual and adjust the focus by yourself.	47
► Use the camera's reset me default.	 Use the camera's reset menu to restore the camera settings in order to default. 	83
	► Adjust Sharpness level.	56
	Check if the video cable is properly connected.	-
Digital noise appears in picture.	Make sure that the power cable and video cable do not exceed the recommended maximum lengths.	33
	► Adjust Sharpness level.	56

troubleshooting

Problem	Cause and Solution	Page
	► Check the White Balance.	48
Picture's colors are not good.	► Adjust Color Menu in Image Adj.	56
	Check if the dome cover or the camera lens is dirty or smudged. If it is, clean the dirt off.	-
The picture is flickering. Check if the camera is pointing directly at a fluorescent light or sunlight. If so, change the camera's direction to remove the flickering.		-
Afterimages appear in picture.	Afterimages appear in picture. Check Sens-Up settings.	
Camera switches between color and B&W modes frequently. Adjust Duration and Dwell Time in Day & Night menu.		55
Pan tilt zoom and/or focus do	 Check if power cable is securely connected to the camera and the monitor. Check if the video cable is properly connected. Consult the operation manual of the system controller connected to the camera. 	18~20
not work.	 Check if Pan Limit and/or Tilt Limit are set. If so, remove the limit(s). 	69
	A motor or the lens may be overheated. If so, contact your service personnel or system provider for assistance.	-
The camera's position differs from the position defined in a preset. This phenomenon may happen, since the motors have a margin error of ±0.1°.		-
Sequence configuration of the camera does not work.	the ► Check if Preset or another operation mode has been set. ► Check the Auto Refresh settings.	
The upper side of the picture is dark when the camera is on the horizontal reference point. You are seeing the camera's internal cover. The camera is functioning normally.		-
Camera suddenly turns on or moves to a preset position by	Check the Auto Run settings. Auto Run puts a camera through a predefined action sequence if the user does not use the Controller to operate the camera for a certain period of time.	67
itself.	 Check the Auto Refresh settings. Auto Refresh optimizes the camera's circuitry and components according to a predefined schedule. 	83

Problem	Cause and Solution	Page
	Check if the subject is in an area set of Area Masking.	71
Although The subject is moving, but Auto Tracking does not work.	Check the Auto Release settings. Auto Release stops tracking a subject after a preset period of time, and returns the initial position of the camera to track a new subject.	75~76
	 Sensitivity may be set too low for the camera to detect a moving subject. Adjust a higher Sensitivity setting. 	75~76
	 Check if the subject is too small. Adjust picture angle to increase the subject size. 	75~76
	Check if there are trees, grass, flags, or other subjects being moved by wind, and/or water, glass, paved roads, or other subjects with a highly reflective surface. If so, set Area Masking of the area containing such subjects.	76
Auto Tracking suddenly functions incorrectly.	The sensitivity of the camera's threshold detection may be set too high. Adjust a lower Sensitivity setting.	77
	Check the weather conditions around you. If the dome cover is contaminated with raindrops or snow, or is shrouded in mist, it may not operate properly or at all.	-
	 Check Object Size settings. If Object Size is set too small, adjust it to a larger value. 	75
A subject being Auto-Tracked is out of screen immediately.	Check if the monitored area contains multiple moving subjects. Auto Tracking is intended for monitoring intruders, and may not be suitable for crowd monitoring.	-
Covial communication does not	► Check the distance between the camera and the monitor.	33
work.	If the distance between the camera and the monitor exceeds the recommended maximum, please use an auxiliary video amp.	33
	▶ Please check the environment temperature; the camera may not operate properly if it has been left at temperatures lower than -50° for a prolonged duration.	6~7
I turned on the power, but the camera didn't start running. (SCP-XXXXH Only)	The motor may malfunction at temperatures lower than -20°; please turn on the camera in Standby mode instead of [Initialize].	6~7
	Keep in Standby mode for at least 120 minutes. Once the internal temperature reaches -20° or higher, the camera automatically resets itself and activates the [Initialize] mode for normal operation.	6~7

troubleshooting

Problem	Cause and Solution	Page		
Loop't oco the corecep	When the camera's internal temperature drops down to -20° or lower, it becomes unable to transmit video signals and may cause a black screen.	6~7		
(The screen is black.)	A black screen does not indicate camera breakage; it resets itself and starts displaying video again once its internal temperature reaches -20° or higher.	6~7		
The camera stops in the Initialize mode and won't proceed to the next mode.	The motor may malfunction at temperatures lower than -20°; please turn on the camera in Standby mode instead of [Initialize].	6~7		
I can use the controller, but I can't activate the Sequence	When the camera's internal temperature is between -10° to -20°, the motor may malfunction, limiting the use of the Sequence and Turbo commands.	6~7		
command.	 Once the internal temperature reaches -10° or higher, all Sequence modes become reactivated normally. 	6~7		
l can't get rid of this message from the screen: " Fan life Expired. Replace the Fans."	Please make sure to "Clear" the message from the screen.	6~7		
The camera suddenly resets itself while displaying the black screen.	Such symptoms may occur if the camera's temperature increases from -20° or lower to -20° or higher.	6~7		
"Auto Refresh(Wait)" appears and the camera reboots.	' appears ► Such symptoms may occur if the camera's temperature increases from -10° or lower to -10° or higher to prevent the malfunction of motor.			
"Please Check Heater System" appears.	Ise Check Heater System" The heater may malfunction. Turn off the camera and call where you bought.			
Check the Power cord's by periods				
 The Power cord's coating has been damaged. The power cord is hot to touch when the product is in operation. The power cord gets hot after being folded or pulled on. 	Continuing to use the product when its power cord is damaged constitutes an electrical and fire hazard. The power plug must be removed from the outlet immediately, and a qualified service personnel or your system provider should be contacted for assistance.	-		

product specifications

PRODUCT SPECIFICATIONS (SCP-2XXX SERIES)

Model	SCP-2370TH	SCP-2370H/2270H/2330H	SCP-2370/2330/2270	
Image Device	1/4" Super HAD CCD II			
Total Divala		NTSC : 811(H) x 508(V)		
Total Pixels	PAL : 795(H) x 596(V)			
Effective Divelo		NTSC : 768(H) x 494(V)		
Ellective Fixels	PAL :752(H) x 582(V)			
Scanning System		2:1 Interlace		
Synchronization	Internal Internal / Line Lock			
Frequency	NTSC : H : 15.734kHz / V : 59.94Hz			
Пециенсу	PAL : H : 15.625KHz / V : 50Hz			
Horizontal Resolution	Color: 600TV lines / BW: 700TV lines			
Min. Illumination	COLOR : 0.2 Lux (50 IRE @ F1.6), 0.0004 Lux (50 IRE, Color, Sens-up 512x)			
S / N Ratio	B/W: U.U2 LUX (50 IKE @ F1.6), U.U0004 LUX (50 IKE, B/W, Sens-up 512X)			
Video Output				
Focal Length				
(Zoom Ratio)	3.5~129.5mm (37x) / 3.5~115.5mm (33x) / 3.5~94.5mm (27x)			
Max. Aperture Ratio	1:1.6 (Wide) ~ 3.9 (Tele) (37x)/1:1.6 (Wide) ~ 3.6 (Tele) (33x)/1:1.6 (Wide) ~ 2.9 (Tele) (27x)			
	H : 55.5°(Wide) ~ 1.59°(Tele) / V : 42.5°(Wide) ~ 1.19°(Tele) (37x)			
Angular Field of View H : 55.5°(Wide) ~ 1.77°(Tele) / V : 42.5°(Wide) ~ 1.33°(Tele) (33x)			.33°(Tele) (33x) 70°(Tele) (27x)	
Min. Object Distance	1800mm			
Focus Control	AUTO / MANUAI / ONF SHOT			
Zoom Movement Speed	2 5sec (37x)/2 2sec (33x)/1 8sec (27x)			
Pan Range	360° Endless			
Pan Speed	Preset : 600°/sec / Manual : 0.024°/sec ~ 120°/sec			
Tilt Range	-5° ~ 185°			
Tilt Speed	Preset : 600°/sec / Manual : 0.024°/sec ~ 120°/sec			
Preset	255			
Preset Accuracy	±0.1°			
Auto Tracking	Built-in	-		
OSD	NTSC: ENGLISH, FRENCH, SPANISI PAL: ENGLISH, CHINESE, FRENCH, TURKISH	H, Portugues, Korean, Japanes German, Spanish, Italian, Port	e, Taiwanese Tugues, Polish, Rusian, Czech,	
Camera Title	Off / On (Displayed 12 Characters)			

product specifications

Model	SCP-2370TH	SCP-2370H/2270H/2330H	SCP-2370/2330/2270
Day & Night	Auto (ICR) / Color / B/W		
Back Light	BLC / HLC / Off		
Contrast Enhancement		SSDR (Off/On)	
Digital Noise Reduction		SSNR III (Off/On)	
Digital Image Stabilization	Off/On		
Motion Detection		Off/On	
Privacy Masking		Off/On (8 programmable zones)	
Sens-up	2x ~ 512x		
Gain Control	Off/Low/Medium/High/Manual		
White Balance	ATW / ATW (IN) / ATW (OUT) / Manual / AWC		
Electronic Shutter		NTSC :1/60~1/120,000sec	
Speed	PAL: 1/50~1/120,000sec		
Digital Zoom	Off/On (2x ~ 16x)		
Digital Flip	Off/On		
Schedule	Day/Time		
Alarm	8 In 3 Out		
Communication	RS-485/422, Coaxial Control		
Protocol	Coax : Pelco-C (Coaxitron) RS-485: Auto Detected, SAMSUNG-T, SAMSUNG-E, Pelco(D/P), Panasonic, Vicon,Honeywell,AD,GE,BOSCH		
Operating Temperature / Humidity	-50°C ~ +50°C /	Less than 90% RH	-10°C~+50°C / 20~80% RH
Ingress Protection	IP	66	-
Input Voltage	24V AC ±10%		
Power Consumption	Max. 15W / 60W (Fan & Heater) Max. 15W		
Color / Material	Ivory, Aluminum, Plastic	c (Dome Cover : Clear)	lvory, Plastic (Dome Cover : Clear)
Dimension (\$\Delta H)	0248 x 316.5mm 0155 x 243.4mm		
Weight	4.5	Kg	2 Kg

* The specification for this product may change without prior notice for product improvement.

PRODUCT SPECIFICATIONS (SCP-3370 SERIES)

Model	SCP-3370TH	SCP-3370H	SCP-3370	
Image Device	EX-view HAD CCD			
Tatal Divala	NTSC: 811(H) x 508(V)			
Total Pixels		PAL : 795(H) x 596(V)		
Effective Divelo	NTSC : 768(H) x 494(V)			
Ellective Fixels	PAL :752(H) x 582(V)			
Scanning System		2:1 Interlace		
Synchronization	Internal Internal / Line Lock			
Frequency	NTSC : H : 15.734kHz / V : 59.94Hz			
Пециенсу	PAL : H : 15.625KHz / V : 50Hz			
Horizontal Resolution	C	olor : 600TV lines / BW : 700TV line	S	
Min. Illumination	COLOR : 0.7 Lux (50 IRE @ F1.6), 0.001 Lux (50IRE, Color, Sens-up 512x) B/W : 0.07 Lux (50 IRE @ F1.6), 0.0001 Lux (50IRE, B/W, Sens-up 512x)			
S / N Ratio		52 dB (AGC off, Weight On)		
Video Output	CVBS : 1.0 Vp-p / 75Ω conposite			
Focal Length (Zoom Ratio)	3.5~129.5mm			
Max. Aperture Ratio	1:1.6 (Wide) ~ 3.9 (Tele)			
Angular Field of View	H : 55.5°(Wide) ~ 1.59°(Tele) / V : 42.5°(Wide) ~ 1.19°(Tele)			
Min. Object Distance	1800mm			
Focus Control	AUTO / MANUAL / ONE SHOT			
Zoom Movement Speed	2.8 sec			
Pan Range	360° Endless			
Pan Speed	Preset : 600°/sec / Manual : 0.024°/sec ~ 120°/sec			
Tilt Range	-5° ~ 185°			
Tilt Speed	Preset : 600°/sec / Manual : 0.024°/sec ~ 120°/sec			
Preset	255			
Preset Accuracy	±0.1°			
Auto Tracking	Built-in	-		
OSD	NTSC: ENGLISH, FRENCH, SPANISH, PORTUGUES, KOREAN, JAPANESE, TAIWANESE PAL: ENGLISH, CHINESE, FRENCH, GERMAN, SPANISH, ITALIAN, PORTUGUES, POLISH, RUSIAN, CZECH, TURKISH			
Camera Title	Off / On (Displayed 12 Characters)			
Day & Night	Auto (ICR) / Color / B/W			
Back Light	BLC / HLC / Off			

product specifications

Model	SCP-3370TH	SCP-3370H	SCP-3370
WDR	Low / Medium / High		
Contrast Enhancement	SSDR (Off/On)		
Digital Noise Reduction	SSNR III (Off/On)		
Digital Image Stabilization	Off/On		
Motion Detection		Off/On	
Privacy Masking		Off/On (8 programmable zones)	
Sens-up		2x ~ 512x	
Gain Control		Off/Low/Medium/High/Manual	
White Balance	ATW	/ ATW (IN) / ATW (OUT) / Manual / J	AWC
Electronic Shutter		NTSC :1/60~1/120,000sec	
Speed	PAL: 1/50~1/120,000sec		
Digital Zoom		Off/On (2x ~ 16x)	
Digital Flip	Off/On		
VPS	Off/On		
Intelligent Video	Off / Detection / Tracking / Fixed/Moved		
PIP	Off/On		
Schedule	Day/Time		
Alarm	8 ln 3 Out		
Communication	RS-485/422, Coaxial Control		
Protocol	Coax : Pelco-C (Coaxitron) RS-485: Auto Detected, SAMSUNG-T, SAMSUNG-E, Pelco(D/P), Panasonic, Vicon, Honeywell, AD, GE, BOSCH		
Operating Temperature / Humidity	-50°C ~ +50°C /	Less than 90% RH	-10°C~+50°C / 20~80% RH
Ingress Protection	IP	66	-
Input Voltage	24V AC ±10%		
Power Consumption	Max. 15W / 60W (Fan & Heater) Max. 15W		Max. 15W
Color / Material	Ivory, Aluminum, Plastic	c (Dome Cover : Clear)	Ivory, Plastic (Dome Cover : Clear)
Dimension ($\Phi \times H$)	Ф248 x З	316.5mm	0 155 x 243.4mm
Weight	4.5 Kg 2 Kg		

* The specification for this product may change without prior notice for product improvement.

DIMENSIONS

Indoor Model



Ø155

Environmental Model











SALES NETWORK

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