SAMSUNG TECHWIN

12X SPEED DOME CAMERA

User Manual

SCP-3120/3120V/3120VH





12X SPEED DOME CAMERA

User Manual

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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.



The lightning flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

INFORMATION-This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

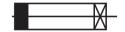
Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING

- CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE MANUFACTURER COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.
- TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

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

- The installation for this apparatus should be by a qualified service person and should conform to all local codes.
- Do NOT use power sources other than Class 2 power source.
- REPLACE WITH SAME TYPE 250V T3.15AL FUSE(F1)
- REPLACE WITH SAME TYPE 250V T2AL FUSE(F2)



This installation should be made by a qualified service person and should conform to all local codes.

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Features



A/F 12X Optical Zoom

The built-in 12X optical zoom lens with auto-focus is combined with a 16x digital zoom, providing a maximum of 192x zoom.

Versatile protocols and coaxial communication

RS-485. Coaxial communication methods are supported.

- RS-485 (10 protocols): Samsung-T, Pelco (D / P), Samsung-E, Panasonic, Honeywell, AD, Vicon, GE, BOCSH
- Coaxial Communications: Pelco Coaxitron (automatic detection)

Wide Range Auto Security 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 reduce visual fatique.
- 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 100 degrees to the other side of the tilt area without panning. The screen inversion starts to occur at 100 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.

OSD (On Screen Display)

The camera IDs, camera preset numbers, preset names, area names, and camera operation status are displayed on the monitor, allowing set up of various camera functions through the OSD menu screen.

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.

XDR (eXtended Dynamic Range)

For images with high contrast between bright and dark Areas from difficult lighting conditions such as backlighting, this camera selectively illuminates darker Areas while retaining the same light level for brighter Areas to even out the overall brightness.

Area Masking

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



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.

Warnings & Cautions

This information is provided to ensure your safety and to prevent any losses, financial or otherwise. Please read it carefully and use the product accordingly.

- * For product inquiries, please contact the retail shop where you bought the camera. The use of equipment such as an aerial ladder while providing after-sales service shall be at your expense.
- * Unplug the power plug during a thunder storm to prevent fire and damage to the product.
- *This product is support equipment for a security system. Therefore, we can't compensate for material losses and/or personal injuries by robbery, fire, natural disaster, or anything of the sort.

Warning/Caution/Special Mark Messages



Ignoring this information may result in material loss and/or serious personal injuries, including death.



Ignoring this information may result in material loss and/or slight iniuries.



Indicates "Prohibited".



Indicates "No Disassembly".



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

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of

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 this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

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Warnings & Cautions

▲ Warnings

Do not install on your own.



This installation should be made by a qualified service person. Installing this product on your own may result in fire or electric shock. For the installation service, contact the retail shop where you bought the product.

Do not install in high humidity or in a place that may be exposed to oil or gas.



May cause product malfunctions, electric shocks, and fire.

Do not handle the power plug with wet hands.



May cause electric shock.

Stop using the camera if smoke or abnormal heat is detected.



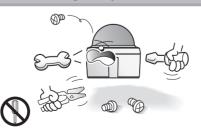
May cause fire.

Do not install on an unsubstantial wall that may be subject to vibrations.



May cause the product to fall.

Do not disassemble the camera or insert foreign subjects.



May cause fire and damage to the product.

▲ Cautions

Do not install under extreme temperature conditions.



Only use in the temperature range of between -10°C and +50°C to prevent low graphics quality and product malfunction. When using in high temperature conditions, provide good ventilation.

Do not drop the camera or subject it to physical shock.



May cause product malfunctions.

Avoid touching the camera lens.



The lens is the most important component of the camera. Be careful not to smear it with fingerprints.

Do not install under unstable lighting conditions.



Severe lighting changes or flickering may hinder normal camera operation.

Never keep the camera facing direct sunlight or any other strong lights.



May cause critical damage to the CCD.

Do not install in a place that may be exposed to rain, water, or radioactivity.



Water leakage into the camera may cause damage.



Warnings & Cautions



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.
- 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
- Do not drop the camera or subject it to physical shock or vibration; this can cause serious damage to the
- 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.
- This product is designed to be used indoors. When installed outdoors, the camera is exposed to environmental stress, such as water and high or low temperatures, which may degrade video quality and/or cause product malfunctions.
- Avoid installing and operating the camera in the following places.
- · Places whose temperature exceed the camera's recommended range.
- · 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
- 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.
- Select an installation site (ceiling or wall) that can hold at least 5 times of the camera's weight.
- Stuck-in or peeled-off cables can cause damage to the product or a fire.
- For safety purposes, keep anyone else away from the installation site. And put aside personal belongings from the site, just in case.
- This product is designed for indoor use and outdoor use, separately. Take an appropriate one that suits your needs.(Indoor: SCP-3120, Outdoor: SCP-3120V/VH)
- If you install the indoor unit outside of the building, rain, high or low temperature will affect the video quality or may cause damage to the unit.

- Only SCP-3120V/VH

- · If you turn on the camera that you have left in a place at below -50°C with no power supplied, the camera will display the OSD menu after about 3 minutes.
- · In a low-temp environment, the camera can't start operation right away so it takes some time to warm up and recover its normal operation.
- · If you install the camera at below 0°C or restart the camera after a power failure, the dome cover may be frosted. If the dome cover is frosted, you can defrost it within 3 hours after you turned on the camera. (However, it can be done only at higher than the minimum operation temperature of -50°C with no wind)

Component Names and Functions

SCP-3120



Body



Mount Bracket



User Guide



7Pin Terminal Block



8Pin Terminal Block



BNC Cable



Screw(M4x20, 4EA)



Templet

Component Names and Functions



SCP-3120V



Body



User Guide



7Pin Terminal Block



8Pin Terminal Block



BNC Cable



Screws/Plastic Anchor/Wrench

SCP-3120VH



Body



User Guide



7Pin Terminal Block



8Pin Terminal Block



BNC Cable



Wrench

Component Names and Functions

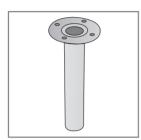


Accessories

The following items are sold separately from the camera.



SBP-302F Hanging Mount



SBP-302P Ceiling Mount



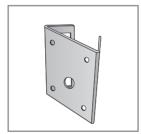
SBP-302W Wall Mount



SBP-302L Parapet Mount



SCX-300KM Corner Mount



SCX-300PM Pole Mount

- This camera is designed to be mounted onto the ceiling, and you can use one of the following adaptors for installation purposes according to the installation site. (Note that you should follow the applicable instructions for each mounting adaptor.)
- · Used to Mount the Camera(SCP-3120/3120V) onto the ceiling: Hanging Mount + Ceiling Mount
- · Used to Mount the Camera(SCP-3120VH) onto the ceiling: Ceiling Mount
- · Used to Mount the Camera(SCP-3120/3120V) onto the wall: Hanging Mount + Wall Mount
- · Used to Mount the Camera(SCP-3120VH) onto the wall: Wall Mount
- · Used to Mount "the Wall Mount" onto a cylindrical pillar : Pole Mount
- · Used to Mount "the Wall Mount" onto a corner of the wall: Corner Mount
- * For SCP-3120/3120V, above products are available only if the hanging mount is attached to the camera.

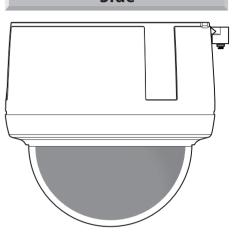
Components and Accessories

SCP-3120

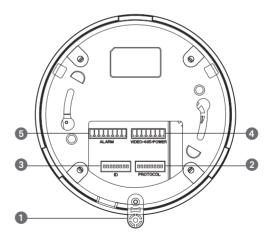
Front



Side



Bottom



- Screw Hole
- 2 Communication Setup Switch
- 3 ID Setup Switch
- 4 Video/Communication/Power
- 6 Alarm



Notes

• For the DIP switch settings, please refer to the "Installing Your Camera" on Page 19.

Components and Accessories

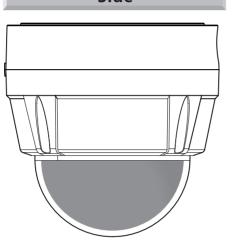


SCP-3120V

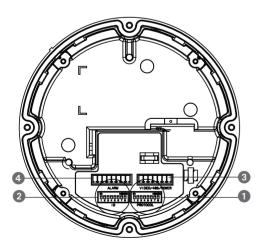
Front



Side



Bottom



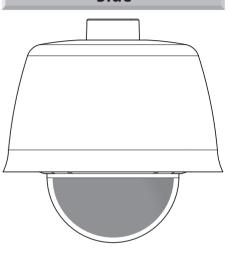
- Communication Setup Switch
- 2 ID Setup Switch
- 3 Video/Communication/Power
- 4 Alarm

SCP-3120VH

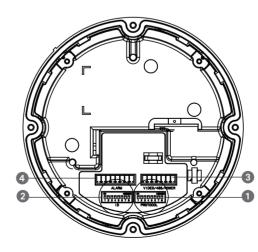
Front



Side



Bottom



- Communication Setup Switch
- 2 ID Setup Switch
- 3 Video/Communication/Power
- 4 Alarm

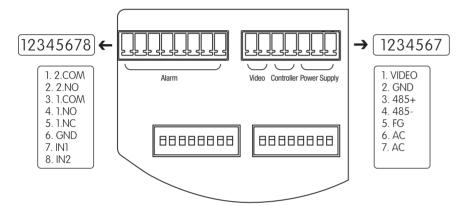
Components and Accessories



Camera Wiring Interface Board

For the camera wiring, please refer to the picture below. The camera's wiring interface board is fitted to the housing, this is sold separately.

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



Controller & Auxiliary Signal Connection

No.	Name	Usage				
1	2.COM	Alarm Output 2 (Common)				
2	2.NO	Alarm Output 2 (Normal Open)				
3	1.COM	Alarm Output 1 (Common)				
4	1.NO	Alarm Output 1 (Normal Open)				
5	1.NC	Alarm Output 1 (Normal Open)				
6	GND	Ground				
7	IN1	Alarm Input Sensor Terminal 1				
8	IN2	Alarm Input Sensor Terminal 2				

Control Signal Connection • •



Power, Video & Communication Signal Connection

No.	Name	Usage				
1	VIDEO	Video Output				
2	GND	Ground				
3	485+	Controller Data Line				
4	485-	Controller Data Line				
5	FG	Field Ground				
6	AC	AC 24V				
7	AC	AC 24V				

- * The provided BNC cable's blue line is Video Output, while the black line is the Ground.
- * Power supply adaptor (AC) has no polarities.

Notes

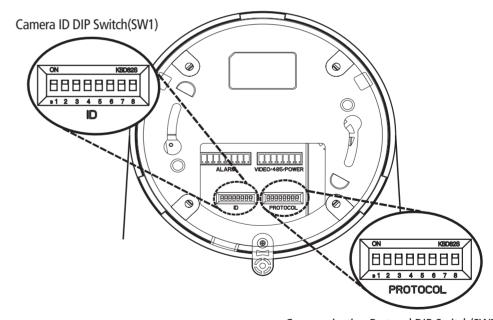
- The maximum power capacity of the builtin relay is 30V DC/2A, 125V AC/0.5A, and 250V AC/0.25A.
- . Connecting the power connector and GND incorrectly to the NC/NO and COM ports may cause a short circuit and fire, damaging the camera.

Installing Your Camera

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.

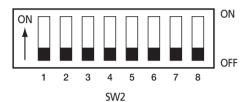
- 1. Detach the camera frame from the install base, and place the bottom of the frame toward you as shown in the picture below.
- 2. Set the switches according to your installation environment. For more detailed setup information, please refer to the chart on the next page.
- 3. The camera may malfunction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



Communication Protocol DIP Switch(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	Response Mode Settings		
8	Termination Settings		

Protocol Settings

Select a communication protocol for the camera

No	Protocol	SW2-#1	SW2-#2	SW2-#3	SW2-#4
1	AUTO DETECT	OFF	OFF	OFF	OFF
2	Samsung-T	OFF	OFF	OFF	ON
3	Pelco-D	OFF	OFF	ON	OFF
4	Pelco-P	OFF	OFF	ON	ON
5	Samsung-E	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	OFF
12	Resetved	ON	OFF	ON	ON
13	Resetved	ON	ON	OFF	OFF
14	Resetved	ON	ON	OFF	ON
15	Resetved	ON	ON	ON	OFF
16	Resetved	ON	ON	ON	ON

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 Response Settings

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

	Function		OFF
SW2- #7	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- #8
Termination of Longest Path	ON
On the Path	OFF

* This model is provided with factory defaults of all DIP switches set to OFF. The default settings are shaded in the table.



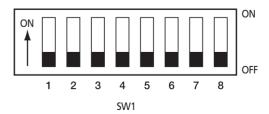
- To use a third party controller with this product, please contact our After-Sales Service or Technology Department.
- Controls Using Different Protocols

	AD Protocol	VICON Protocol	GE Protocol
Entering Camera OSD 3+Auxilary ON		IRIS OPEN	IRIS OPEN
Exiting Camera OSD	3+Auxilary OFF	IRIS CLOSE	IRIS CLOSE
ENTER	IRIS OPEN	IRIS OPEN	IRIS OPEN
ESC	IRIS CLOSE	IRIS CLOSE	IRIS CLOSE

• For more information about the protocols, refer to our official website.

Camera ID DIP Switch Settings (SW1)

To set up camera IDs, refer to the "Camera ID Chart" next.





• 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
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

ID	SW1-#1	SW1-#2	SW1-#3	SW1-#4	SW1-#5	SW1-#6	SW1-#7	SW1-#8
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
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



ID	SW1-#1	SW1-#2	SW1-#3	SW1-#4	SW1-#5	SW1-#6	SW1-#7	SW1-#8
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
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						

ID	SW1-#1	SW1-#2	SW1-#3	SW1-#4	SW1-#5	SW1-#6	SW1-#7	SW1-#8
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
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



ID	SW1-#1	SW1-#2	SW1-#3	SW1-#4	SW1-#5	SW1-#6	SW1-#7	SW1-#8
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
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

ID	SW1-#1	SW1-#2	SW1-#3	SW1-#4	SW1-#5	SW1-#6	SW1-#7	SW1-#8
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
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							

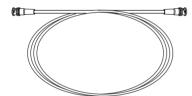
Preparing Adapter and Cables (Sold Separately)

Power Adapter
 Power adapter has the capacity AC24V 1.0A(SCP-3120)/2.5A(SCP-3120V/VH).



-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.

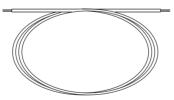


Distance	Recommended Cable Specification
300m	4C2V(RG-59/U)
450m	5C2V(RG-6/U)
600m	7C2V(RG-11/U)



Notes

- 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 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.



* Caution!

Depending on the camera's environment, the communications distance may vary.

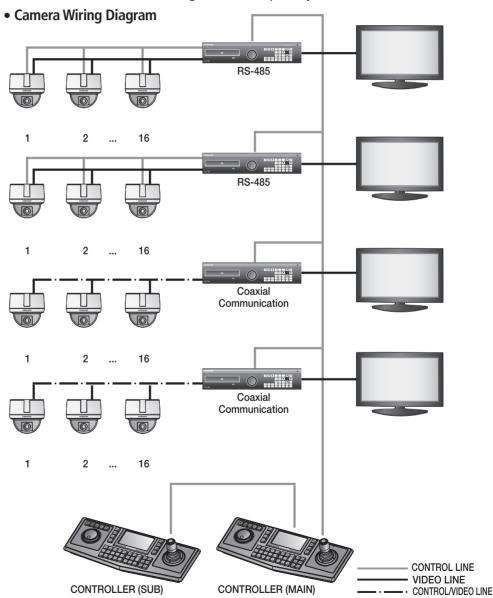


Notes

 Power Adapter, Video cable and communications cable are not provided in this product's package.

Preparing and Installing Camera Bracket

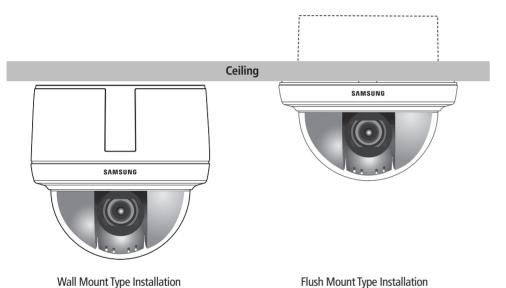
For the installation guidelines for the brackets and housings, refer to the user's manual enclosed with the bracket or housing that is sold separately.





Installation Examples

- The pictures below show the front view of the camera installed with a wall or flush bracket. For more instructions on installing the camera, please refer to the following quidelines.



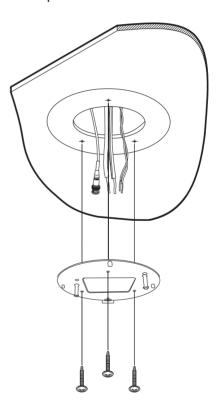
On-Ceiling Mount Type Installation Example

1. Attach Template

Attach the template on the ceiling, facing the "Front" mark to the main monitoring direction. Drill a hole in the ceiling according to the 60 mm diameter hole marked on the template, and then drop the camera cables down through the hole.

2. Mount Bracket

Using the 4 screws, install the mount brackets on the ceiling, matching its directional guides with those of the template.

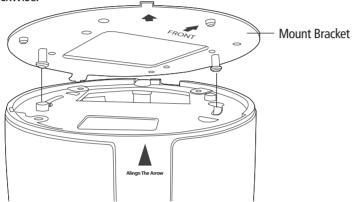


Notes

• 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.

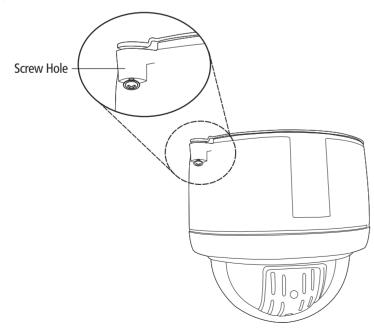
3. Assemble Camera & Bracket

- Cameras on the sides 'Align The Arrow' triangle corner mount bracket and the arrow shows a match to match.
- Insert the mount bracket to the matching holes in the camera, and then turn the camera clockwise.



4. Secure the Camera

Match the screw holes in the camera and mount bracket, and then fasten with the screw.

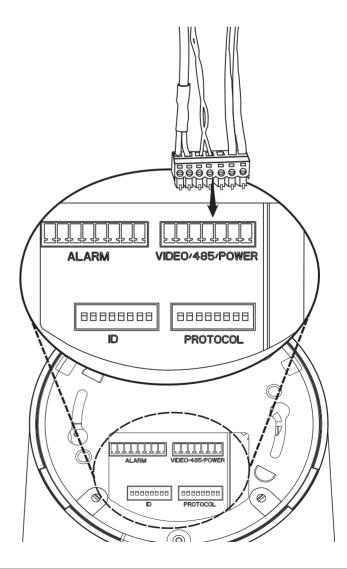


5. Connect Cables

Connect each camera cable to the proper terminals on the bottom of the camera. For more detailed instructions, please refer to Page 18: "Camera Wiring Diagram".

6. Camera DIP Switch Setup

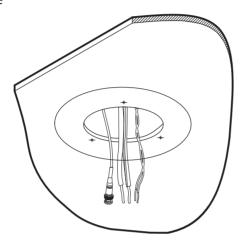
DIP switches for communication and ID setup are located on the bottom of the camera. For more instructions, please refer to Page 21.



Flush Mount Type Installation Example

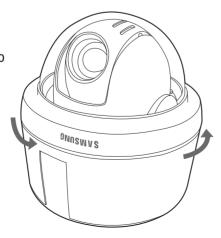
1. Drill Hole on the Ceiling

Attach the template, and then drill a hole according to the 120 mm diameter hole marked on the template. Drop down the camera cables through the hole. Drill another small hole for a screw to secure the camera.



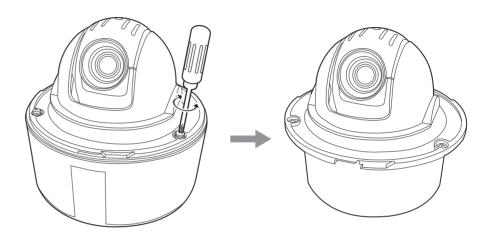
2. Exiting Camera OSD

Rotate the dome cover counterclockwise to detach it from the camera.



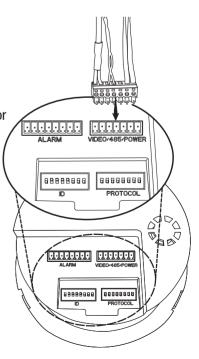
3. Detach the Mount Housing

Remove the 3 screws, and then detach the mount housing from the camera.



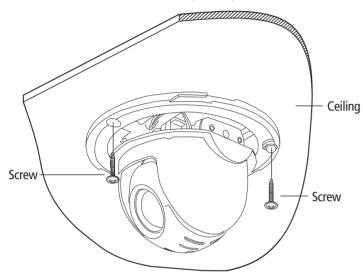
4. Connect Cables & Camera Setup

Connect each camera cable to the proper terminals on the bottom of the camera (Refer to Page 18: "Camera Wiring Diagram"). Configure the DIP switches on the bottom of the camera for communication and ID (Refer to Page 21).



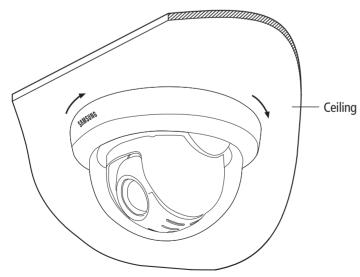
5. Install Camera

Install Camera Fit the camera to the hole on the ceiling, and then secure the camera using 3 Product-enclosed Fixture Screws (M4x20).



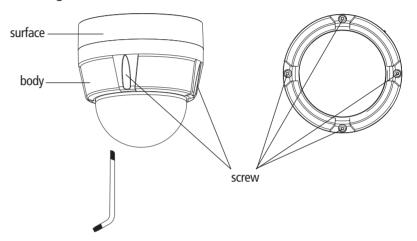
6. Assemble Dome Cover

Assemble Dome Cover Insert the grooves on the dome cover into ones on the camera, and then turn clockwise to fasten.



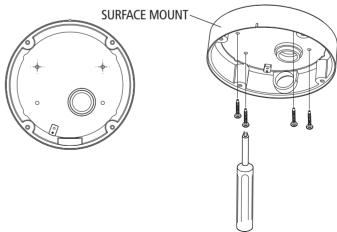
SCP-3120V (Ceiling Mount)

1. Use the provided L-shaped wrench to remove the surface mount by loosening 4 screws counter clockwise.

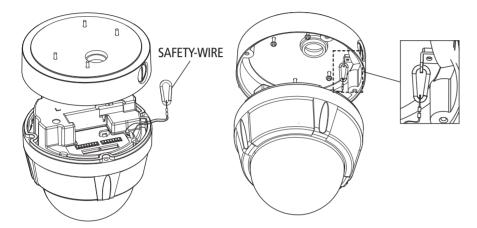


2. Drill holes (5 mm in diameter and at least 35 mm in depth for each) for the screws (x4) to be inserted in the bottom of the surface mount, and insert the provided plastic anchor (HUD5) to the end.

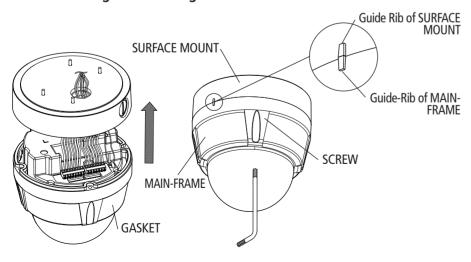
Insert the cables into the cable hole, and fix the SCREW-TAPPING (TH M4xL30) to the plastic anchor that was inserted in the hole for fixing the surface mount. (x4)



3. Connect the safety wire (attached to the camera) to the surface mount as shown. Then, arrange the cables. (For more information about the wiring, refer to "Camera Wiring(18 Page)".)

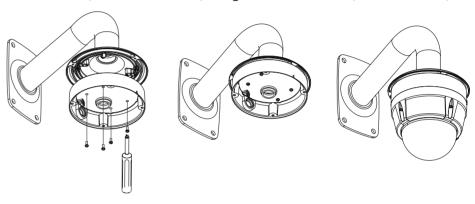


4. Arrange the cables inside the surface mount so that they should not be entangled or stuck in, and align the guide rib of the camera with that of the surface mount. Use the L-shaped wrench to tighten the screws (x4) so that the camera is secured to the mount. To ensure waterproofness, take caution lest that the outer gasket should get loose or be stuck in.



SCP-3120V (mount onto the optimal adaptor)

- 1. Follow step 1 in "Ceiling Mount" above and remove the surface mount.
- 2. Insert the cables into the cable hole on the surface mount and fix them to SBP-302F (HANGING MOUNT) using SCREW-MACHINE (BH, M4xL10, x4).

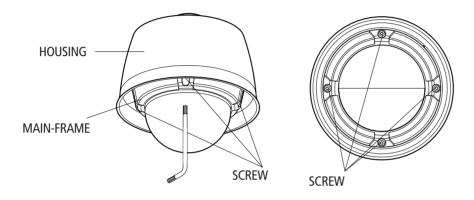


3. Repeat step 3 through step 4 in "Ceiling Mount" above to complete the installation.

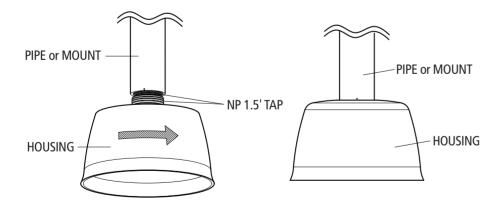


SCP-3120VH

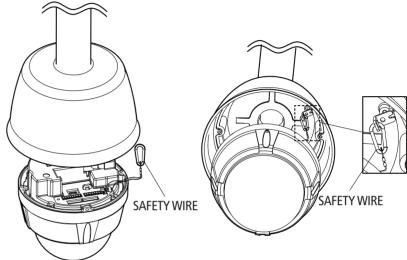
1. Use the provided L-shaped wrench to loosen 4 screws counter clockwise, which will help removing the housing.



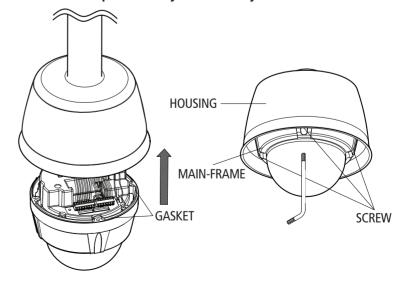
2. Fix the housing to the NP 1.5" tapped pipe, wall mount (SBP-302W) or ceiling mount (SBP-302P) by turning it clockwise. For waterproofness and lock between the two component parts, use the Teflon tape to wrap them around.



3. Secure the safety wire (attached to the product) to the housing as shown. (For details about the cable connection, refer to the "Connecting the cables" section in this manual.)

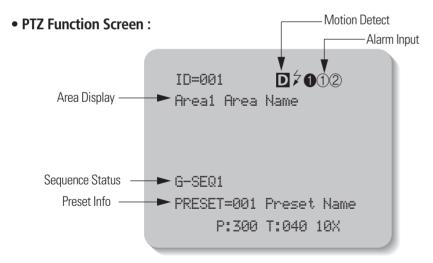


4. Arrange the cables inside the housing lest they be damaged or stuck in, and use the L-shaped wrench to tighten 4 screws to the housing. To ensure waterproofness, this step needs your special care. Otherwise, the gasket on the outer side of the product may be loose or just stuck in.



Interface Symbols

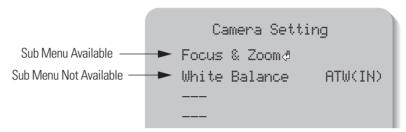
- Motion Detection Standby/Operation Display:
- When in standby mode, the "D" in the upper right of the screen blinks and then
- Alarm Input Port Status Display:
- "(1)", "(2)" in the upper right of the screen blink.
- Current Alarm Port Display According to Input Alarm Ports(Priority):
- Only one of " 71", " 72" in the upper right of the screen blinks.
- Preset Number Display Settings :
 - '*': If a preset number is already available
 - 'H': If a preset location is the camera's home position
- If an OSD Menu has Sub Menus:
- " / displays at the end of the menu.
- If an OSD Menu Does Not Have Sub Menus:
- No symbol appears at the end of the menu.



• Preset Number Setting Screen:

Preset Edit Preset=011* (1~255)

• OSD Menu Screen:



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

This dome 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.

Operating Your Camera



*OSD Menu Chart

P1	P2	P3	P4	P5			
	Zoom/Focus	Focus Mode	AUTO/MANUAL	/ONESHOT			
	Z00III/F0CuS	Digital Zoom	OFF/2X/3X/4X/5X	V/16X			
		ATW(IN)/ATW(ATW(IN)/ATW(OUT)				
	White Balance	AWC					
	vviille balafice	Manual	Red	0~255			
			Blue	0~255			
		Brightness	0~64				
		Iris	AUTO				
		IIIS	MANUAL	Iris Value(0~64)			
			OFF				
	Exposure	Shutter	A.FLK				
			MANUAL	Shutter Speed			
			OFF				
		Sens-Up	Auto	Sens-up Limit			
			Auto	2X/4X512X			
	Back Light	OFF					
Camera Setting		WDR	Limit	LOW/MEDIUM/HIGH			
			Level	1~18			
		BLC	Up/Down/Left/Right/Increase/Decrease				
	AGC	OFF/LOW/MEDIUM/HIGH					
		MANUAL	AGC Level	1~16			
	DNR	OFF/LOW/MEDIUM/HIGH					
	XDR	OFF/LOW/MED	OFF/LOW/MEDIUM/HIGH				
			Auto				
	Day/Night	Mode	Color				
	Dayringin		BW	Burst ON/OFF			
		Dwell Time	2/3/5/10/15/20	/25/30 SEC			
		Sync	INTERNAL				
			LINE LOCK	Line Lock Phase 0~359			
	Others	Sharpness	0~3				
	Ouicis	Freeze	ON/OFF				
		Stabilizer	ON/OFF				
		VPS	ON/OFF				

	Preset	Setting/Edit/Home Position/Execute/Clear/Status				
		Pan Swing	Setting/Execute/Clear			
	Swing SEQ.	Tilt Swing	Setting/Execute/Cle	ear		
		P/T Swing	Setting/Execute/Clear			
	Group SEQ.	Group1~6	Setting/Execute/Clear			
	Tour SEQ.	Setting/Execute/Clear				
	PTZ Trace	Trace1~4	Replay/Replay Once	e/Memorize/Clear		
			OFF			
Sequence			SCHEDULE	Sunday~Saturday		
Setting			A.PAN	AutoPan Speed/Tilt Angle		
Setting			TRACE	Trace(1~4)		
		Mode	TOUR			
	Auto Run	ivioue	GROUP	Group No(1~4)		
			SWING	Swing Mode		
				(PAN,TILT,P/T)		
			PRESET	Preset No(1~255)		
			HOME			
		Time	5~30(SEC), 1~5(MIN)			
	Power On Resume		ON/OFF			
		Motion	OFF/DETECTION/TRACKING			
Sequence		Advanced	OFF/ FIXED/MOVED			
Setting	Motion Det.	Display	OFF/ON			
(Preset Edit)		Sensitivity	1~7			
(Freset Euit)		Resolution	1~5			
	The rest of the installation steps are the same as in the camera setting section.					
	Pan Limit	Position				
	rdii Liiiiil	Activation	ON/OFF			
	Tilt Limit	Position				
	IIIL LIIIIL	Activation	ON/OFF			
			Area Name			
	Area Setting	Area1~8	Position			
			Activation	ON/OFF		
P/T Setting	Avea Maaking	Mask Set	MASK1~12	Activation(OFF/ON), Edit		
	Area Masking	Position				
		Style	MOSAIC1~4/GRAY			
	Prop.P/T	ON/OFF				
	Digital Flip	ON/OFF				
	Image Hold	ON/OFF				
	Jog Speed	Manual/10/20/30	/40/50/60			
	Max Speed Level	1/2/3/4/5/6/7				
	•					

Operating Your Camera



	Camera ID	ON/OFF			
	Camara Nama	ON/OFF			
	Camera Name	Edit	Camera Name		
	Preset Number	ON/OFF			
	Dun and Marina	ON/OFF			
	Preset Name	Edit			
	Seq. Status	ON/OFF			
	Area Name	ON/OFF			
	PTZ Position	ON/OFF			
OSD Setting	Language		SE/FRENCH/GERMAN	/SPANISH/ITALIAN/	
	Language	PORTUGUES/KO			
		Direction	On/Off	ON/OFF	
		Direction	Set North Dir.	Set North Direction	
			Display	ON/OFF	
	Others		Date Format		
		Clock Setting	Set Date		
		Clock Setting	Time Format		
			Set Time		
			Calibration		
	Alarm Enable	ON/OFF			
		ln1	MOD:NC/NO/OFF, P:1~2		
	Alarm Input	In?	SEQ:OFF/HOME/PRESET/SWING/GROUP/		
		ln2	TOUR/TRACE/A.PA	N	
Alarm Catting		Setting 1~2	1~2,MD,AUX		
Alarm Setting	AL 0		OFF/MOMENTARY		
	Alarm Output	Timer 1~2	ON	1~60(Sec), 1~60(Min	
		Out Off 1~2			
		OFF			
	MD Dwell Time	ON	1~60(Sec), 1~60(Min)		
	Power On Reset	Cancel/Execute	1 2 2 (2 2 2)/ 1 2 2 (1	,	
	Factory Default Set	Cancel/Execute			
Initialize	Camera Default Set	Cancel/Execute			
		OFF			
	Auto Refresh	ON	1~7Day(s)		
	On/Off	ON/OFF	, ()		
Password Setting	Edit Password	Old Pwd/New Pv	vd		
Status			•		

Functional Description

Camera Setting

1. Zoom/Focus Settings

- 1.1 Focus Mode and Digital Zoom Setting Menu
 - ► Main Menu/Camera Setting/Focus & Zoom

Main Menu
ظم Camera Setting
Sequence Setting ⊄
P/T Setting <∄
OSD Setting ₫
Alarm Setting⊲
Initialize⊲⁵
Password Setting ⁄₫
Status ⊘
1



- AUTO: Performs continuous auto-focus.
- MANUAL : Changes the camera mode to Manual Focus.
- ONESHOT: Auto-focuses the camera once after the Pan,

Tilt, or Zoom function is used.

Digital Zoom :

Enables the maximum digital zoom. Setting the digital zoom to 16X provides a total zoom of 192X.



Back Light OFF AGC DNR MEDIUM XDR OFF Day/Night ⊲

Others ♂

Focus & Zoom	
Focus Mode	ONESHOT
Digital Zoom ⊄	OFF



- 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. Ceiling 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.

2. White Balance

Main Menu/Camera Setting/White Balance

Main Menu
Camera Setting ₄
Sequence Setting 🗗
P/T Setting ⊄
OSD Setting ♂
Alarm Setting 🕭
Initialize∢
Password Setting ⊲∄
Status∢∄



Camera Setting	
Zoom/Focus 🐗	
White Balance	ATW(IN)
Exposure 🗗	
Back Light	OFF
AGC	
DNR	MEDIUM
XDR	OFF
Day/Night ⊲∄	
Others⊲	

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

- ATW(IN): Adjusts the screen color to be optimal in an indoor environment. (Operating Temperature: about 2,500°K ~ about 9,300°K)
- ATW(OUT): Automatically adjusts the screen color to be optimal in bright outdoors environments. (Operating Temperature: about 2,000°K ~ about 10,000°K)
- AWC: Adjusts the screen color to be optimized to the current lighting and monitor conditions. Using this setting may require an readjustment if the lighting conditions changes.
- MANUAL: Enables customization of the Red and Blue gains.

3. Exposure

► Main Menu/Camera Setting/Exposure

Main Menu
Camera Setting & Sequence Setting & P/T Setting & OSD Setting & Alarm Setting & Initialize & Password Setting &
_Status∢



Camera Setting	
Zoom/Focus∢ White Balance	ATW(IN)
Exposure↓ Back Light AGC	OFF
DNR	MEDIUM
XDR Day/Night ⊘	OFF
Others⊲∄	



○ Brightness: Adjusts the screen brightness.

(Over 32: Brighter, Under 32: Darker)

It may not fully operable under extremely low lighting condition. Iris:

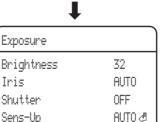
- AUTO : Automatically adjusts the exposure meter.
- MANUAL: Enables manual adjustment of the exposure meter. (Over 32: Brighter, Under 32: Darker)
- Shutter: Controls the camera's electronic shutter.
 - OFF: The shutter speed is fixed at 1/60 for NTSC and 1/50 for PAL. Operates when Iris is on the Auto 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 clear picture at night or under low-light conditions.
 - SENS-UP LIMIT : Adjusts to the maximum-powered zoom per frame.



Notes

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.
- 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.





Notes

- 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.
- Brightness is disabled when the Iris is in Manual mode.
- Shutter is disabled when the WDR is turned on.
- Sens-Up is disabled when the shutter is in Manual mode.



4. Backlight

- 4.1 Backlight Mode Settings
 - ► Main Menu/Camera Setting/Back Light

Main Menu
Camera Setting∉
Sequence Setting 🗗
P/T Setting⊲
OSD Setting <₫
Alarm Setting 🗗
Initialize∢
Password Setting⊿
Status∢

Camera Setting Zoom/Focus ♂ White Balance ATW(IN) Exposure⊲5 Back Light OFF AGC DNR MEDIUM XDR NFF Day/Night 々 Others ⊄

Unlike other cameras, Samsung Techwin's unique A1 DSP chip gives you a clear image of the subject even with bright backlight.

Back Light Mode :

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

4.2 WDR

► Main Menu/Camera Setting/Back Light/WDR

Main Menu Camera Setting₄ Sequence Setting ⊲∄ P/T Setting⊲ OSD Setting⊿ Alarm Setting⊿ Initialize⊲ Password Setting ◢ Status∢

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





WDR ON

WDR OFF

Camera Setting Zoom/Focus ⊿ ATW(IN) White Balance Exposure⊲∄

Back Light WDR ₫ AGC DNR MEDIUM XDR WDR Day/Night ⊲∄ Others ₫

WDR Setting Limit **MEDIUM** 09 Level

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.



Notes

- WDR is disabled when the VPS mode is turned on.
- WDR is disabled if the Iris is in Manual mode.
- During WDR operation, noise, discoloration, spots, and whitish symptoms may occur depending on lighting conditions. If they occur, stop using WDR.



4.3 BLC Setting

► Main Menu/Camera Setting/Back Light/BLC

Main Menu Camera Setting ₄ Sequence Setting ⊲∄ P/T Setting⊲ OSD Setting⊿ Alarm Setting⊿ Initialize⊲ Password Setting⊲ Status 🗗

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.



Camera Setting	
Zoom/Focus ⊲ White Balance Exposure⊲∄	ATW(IN)
Back Light	BLC
AGC	
DNR	MEDIUM
XDR	OFF
Day/Night ⊄ ∩*! #	
Others ⊲∄	



- BLC is disabled if the Iris is in Manual mode.
- Color saturation may occur depending on the environment.

5. AGC

► Main Menu/Camera Setting/AGC

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.

The OFF, LOW, MEDIUM, HIGH, and MANUAL modes are available.



Camera Setting	
Zoom/Focus ⊲	
White Balance	ATW(IN)
Exposure<	000
_	UFF
	MEDILIM
	Wi i
Others 🗗	
Back Light AGC DNR XDR Day/Night ⊅ Others ⊅	OFF MEDIUM OFF

BLC

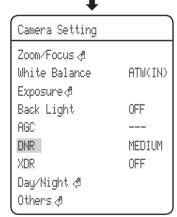


6. DNR (Dynamic Noise Reduction)

► Main Menu/Camera Setting/DNR

Main Menu Camera Setting 🚜 Sequence Setting ♂ P/T Setting∢ OSD Setting⊿ Alarm Setting⊲ Initialize⊲5 Password Setting ⊄

Status⊲∄



DNR 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.

7. XDR(eXtended Dynamic Range)

▶ Main Menu/Camera Setting/XDR

Main Menu
Camera Setting ₄
Sequence Setting ♂
P/T Setting ₫
OSD Setting 々
Alarm Setting ⊄
Initialize 々
Password Setting ♂
Status∢



Camera Setting	
Zoom/Focus ⋪ White Balance	ATW(IN)
Exposure∢ Back Light AGC	OFF
DNR XDR	MEDIUM OFF
Day/Night ⊲∄ Others⊲∄	

XDR 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.





XDR OFF

The OFF, LOW, MEDIUM and HIGH modes are available.



8. Day & Night

► Main Menu/Camera Setting/Day/Night



Day &	Night	
Mode		AUTO
Dwell	Time	3 SEC

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

Modes :

- 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.
- BW: 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."

Dwell Time :

The duration of both the lighting conditions can be customized to let the camera delay the switching between the daytime and night-time settings.

9. Others

Main Menu/Camera Setting/Others

Main Menu
Camera Setting 🚜
Sequence Setting∉
P/T Setting∢
OSD Setting⊲
Alarm Setting⊲
Initialize∢ ¯
Password Setting ⊲
Status∢

.			
Camera Setting			
Zoom/Focus <∄			
White Balance	ATW(IN)		
Exposure∢			
Back Light	OFF		
AGC			
DNR	MEDIUM		
XDR	OFF		
Day/Night⊲			
Others 🍎			



- 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
- Sharpness: Sharpens outlines of an image.
- **Freeze**: Stops or reanimates an image.
- movements of the camera caused by due to the wind and other reasonable causes.
- > VPS: This function enhances the outline of moving subject, which improves the sharpness of a captured image as fine as a still image.





- The Stabilizer uses the digital zoom and may cause low picture quality.
- The Stabilizer is disabled if the ambient light is too
- The Stabilizer is disabled if the field of view has very low or no contrast, e.g. The sky or a white wall.
- VPS is disabled when the Freeze is turned on.



Notes

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



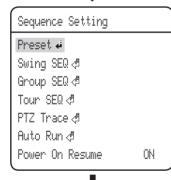
Sequence Setting

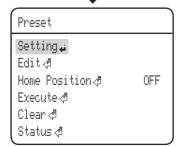
10. Preset

10.1 Preset Location Saving

► Main Menu/Sequence Setting/Preset/Setting

Main Menu
Camera Setting⊿
Sequence Setting ₄
P/T Setting ₫
OSD Setting ⊲
Alarm Setting ⊲∄
Initialize ⊄
Password Setting⊲
Status ∕₫

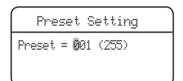




This function enables the memorization of a selected location and activates the Pan, Tilt, and Zoom functions at that location. Saved locations can be recalled using the Preset Execute command.

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. (Only SCC-3100A, SCC-1000)



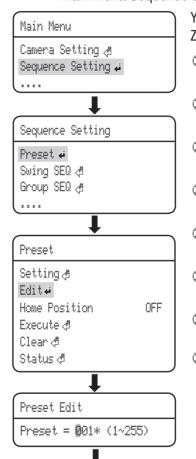
Saving Preset Locations :

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. To switch between Zoom and Focus, use the Preset 1 and 2 commands as shown below.

> Preset Setting 1+PST:ZOOM 2+PST:FOCUS Use W/T Preset

10.2 Preset Edit

▶ Main Menu/Sequence Setting/Preset/Edit



Preset Edit

Brightness

Back Light

Day/Night

Motion Det.⊲

Scene Adj.⊲

PTZ

Focus

Iris

[001]

000/-05/X1

ONESHOT

32

AUTO

OFF

AUTO

You can edit the 13 preset items such as Pan/Tilt location. Zoom and Focus, which are selected among camera functions. □ PTZ : Recalls saved locations using the Preset Settings command.

Focus Mode :

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.

Backlight :

Refer to the section entitled Setting Up Your Camera.

Day/Night : Refer to the section entitled Setting Up Your Camera.

Motion Det.

Refer to the '10.3 Motion Detection'.

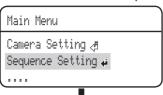
Scene Adj :

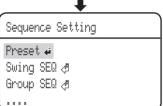
Enables setting the Shutter, AGC, DNR, XDR, Sens-Up, White Balance, Stabilizer and for more information about interface terminology, please refer to the section entitled Setting Up Your Camera.

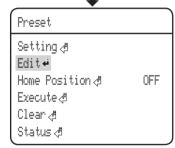


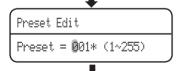
10.3 Motion Detection

▶ Main Menu/Sequence Setting/Preset/Edit/Motion Det.









Preset Edit	[001]
PTZ Focus Brightness Iris Back Light Day/Night Motion Det. &	000/-05/X1 ONESHOT 32 AUTO OFF AUTO
Scene Adj.⊲	

Commands the camera to perform Motion Detection after it arrives at a selected preset location.

Motion

- You can enable the motion detection and tracking functions.
- DETECTION: You can enable the motion detection function.
- TRACKING: You can enable the tracking function.

Advanced

- You can detect motions and mark the video that contains such motion, and enables tracking of the movement. Selecting the <FIXED/MOVED> option will mark a region if an existing object disappears, or a new object appears and fixed for a certain period of time.

Sensitivity

Sets the sensitivity of motion sensor.

Resolution

- The bigger the resolution setting, the smaller the object that can be detected.

Motion Detection	
Motion Advanced	OFF
Display Sensitivity	1
Resolution	1

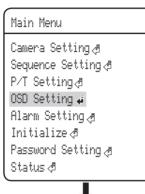
Notes

SPEED DOME CAMERA 60 User Guide

- If you set it to <DETECTION>, the <FIXED/MOVED> option of ADVANCED menu will not be available.
- In following situations, motion detection and tracking function may not work properly.
- When there is sudden changes of brightness
- When the device moves
- When a certain object's movement fills most of the framing area
- When there is difficulties in distinguishing the moving object and background

10.4 Preset Name Setting

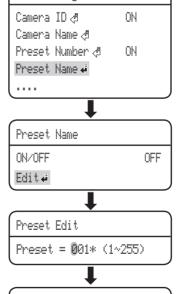
► Main Menu/OSD Setting/Preset Name/Edit



OSD 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.



PSET Name[ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopgrstuvwxyz 1234567890 () []-/#*!?.. BACK SPACE CLR SET



10.5 Preset Execution/Deletion/Memory Check

► Main Menu/Sequence Setting/Preset

Main Menu Camera Setting∠∰ Sequence Setting 🐗 P/T Settina⊲ OSD Setting⊿ Alarm Setting⊲ Initialize⊲5 Password Setting 🖪 Status ⊲∄



Sequence Setting

Preset 🐗

Swing SEQ భ Group SEQ ⊄

Tour SEQ ⊲∄

PTZ Trace ₫

Auto Run⊲5

Power On Resume



ON

OFF

Preset

Settina⊿ Edit♂

Home Position⊲

Execute 🗗

Clear⊲∄

Status 🗗

Home Position :

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

Execute:

Recalls a saved preset location.

Clear:

Deletes the selected preset location.

Status :

Opens a map of saved preset locations.

An area saved as a preset location is displayed with the 'g' icon.

Preset Status

001: 00000 00000 00000 00000

061: 00000 00000 00000 00000

101: 00000 00000 00000 00000

121: 00000 00000 00000 00000

Preset Status

161 : 00000 00000 00000 00000

221 : 00000 00000 00000 00000

241 : 00000 00000 00000 00000

11. Swing SEQ

▶ Main Menu/Sequence Setting/Swing SEQ

Main Menu

Camera Settino⊿

Sequence Setting 🐗

P/T Setting⊲ OSD Settina ≉

Alarm Setting⊿

Initialize ♂

Password Setting ⊿ Status 🗗

Sequence Setting

Preset.⊲5

Swing SEQ ቆ

Group SEQ ⊄

Tour SEQ ♂

PTZ Trace ♂

Auto Run⊲

Power On Resume ON



Swing SEQ

Pan Swinq⊲∄

Tilt Swinq⊿ P&T Swinq⊿

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:

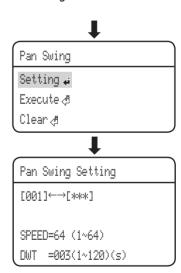
Activates the Tilt function for the Swing operation.

P&T Swing :

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

Swing Settings/Execute/Clear :

- Settings: 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. DWT indicates the camera's duration of stay at a preset location.

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



12. Group SEQ

► Main Menu/Sequence Setting/Group SEQ

Main Menu Camera Settino⊿ Sequence Setting 👍 P/T Settina⊿ OSD Setting ォ Alarm Setting⊲ Initialize⊲ Password Setting ⊲5 Status 🗗

Selecting Group SEQ recalls a group of multiple preset locations in a consecutive manner. A group can contain up to 128 preset locations.

Setting:

Using the joystick, enter desired preset numbers into the PSET section. DWT indicates the camera's duration of stay at a preset location. SPD shows the camera's movement speed by 64 different levels.

Sequence Setting	
Preset ⊲	
Swing SEQ⊄	
Group SEQ 🝜	
Tour SEQ 々	
PTZ Trace <⊅	
Auto Run <⊅	
Power On Resume ON	

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

Group SEQ Group 1 ቆ Group 2⊲∄ Group 3⊄ Group 4₫



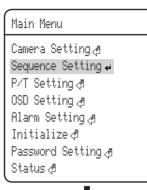
Executes the group operation.

Clear : Deletes the selected group.

Group SEQ 1 Setting 🐗 Execute ⊲5 Clear⊲5

13. Tour SEQ

► Main Menu/Sequence Setting/Tour SEQ



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

Settings :

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.

•		
Sequence Setting		
Preset ⊲∄		
Swing SEQ⊄		
Group SEQ⊄		
Tour SEQ ≠		
PTZ Trace <∄		
Auto Run⊲		
Power On Resume	ON	
1		

Tour	3EQ		
NO	Group	DWT(s)	
01	*	003	
02	*	003	
03	*	003	
04	*	003	
0 5	*	003	
06	*	003	

Execute:

Executes the group operation.

Clear :

Deletes the selected group.

Tour SEQ	
Setting 🚜	
Execute <₽	
Clear⊄	



14. PTZ Trace

► Main Menu/Sequence Setting/PTZ Trace

Main Menu Camera Settino⊿ Sequence Setting 🐗 P/T Settina⊿ OSD Setting⊿ Alarm Setting⊲ Initialize⊲5 Password Setting ≉ Status ⊲∄



Sequence Setting Preset ₫ Swing SEQ々 Group SEQ ⊄ Tolum SEQ ₫ PTZ Trace 🐗 Auto Run⊲ Power On Resume ON



PTZ Tr	race
Trace	1 🚜
Trace	2 🖪
Trace	34
Trace	4 🗗



Replau Replau Once Memorize Clear

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. Use the OSD button to stop the replay.

Replay Once :

Replays a saved Trace route once.

Memorize :

Up to 120 seconds of a memory can be saved. The memory duration varies depending on the difficulty level of the PTZ Trace action. As a trace is saved, the remaining capacity of the memory card is displayed. When the memory card is full, it turns off with a message, "Mem. Left: 000%", on

- * Use the OSD On button to pause while saving a trace. (When using the SCC-3100A/SCC-1000 controller)
- * When Using Different Protocols

Product	Memorize Pause
KBD300A	Ack, Iris Open
SCC-5000	OSD On, Iris Open
WV-CU161C	OSD ON
V1300X-DVC	Iris Open
HTX-3000	Iris Open
	OSD On, Iris Open
KTD-405	Iris Open
	Iris Open
	KBD300A SCC-5000 WV-CU161C V1300X-DVC HTX-3000

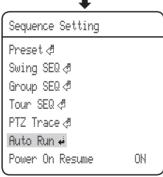
Clear:

Deletes a saved Trace route.

15. Auto Run

► Main Menu/Sequence Setting/Auto Run

Main Menu Camera Setting⊿ Sequence Setting 👍 P/T Setting⊲5 OSD Setting 🚜 Alarm Setting⊿ Initialize ♂ Password Setting <₫ Status⊲





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

- 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: Schedule a sequencing action by day and time. Refer to the next page.

Time:

Enables setting up an Auto Run duration. (The duration can be 5~60 seconds, or 1~5 minutes.)



16. Schedule

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

Auto	Run
Mode	SCHEDULE ❖
Time	30 SEC

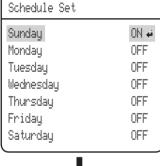


At Auto Run, select SCHEDULE to set up each day of the week, as shown on the side picture. Select a day, change to ON, and then press Enter.



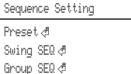
Select Time :

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.





$\overline{}$			
Schedule Set			
	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	
Clear⊲∄			



Main Menu

Camera Setting⊲∄

P/T Setting⊲5

OSD Setting⊿

Initialize ♂

Status∢

Alarm Setting⊿

Password Setting 🖪

Sequence Setting 🍎

Power On Resume :

17. Power On Resume and MD Dwell Time

Main Menu/Sequence Setting

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.



Auto Run⊲∄

Group SEQ∮ Tour SEQ∮ PTZ Trace∮

Power On Resume ON



Notes

Auto mode is disabled when AGC is turned OFF. This function is only available when Color
or B/W mode is selected. The camera time must be setup properly prior to using this
option. If the camera does not perform a scheduled sequencing action, please reconfigure
the camera time under OSD Setting > Others > Clock Setting (Refer to Page 80).



Notes

 'Power On Resume' cannot resume a sequence action if the camera's internal battery is completely discharged after the camera was left without power supply for a long time. (The data of the sequence action, however, remains safe even if the internal battery is completely discharged.)



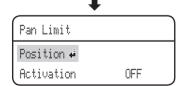
P/T Setting

18. Pan Limit

► Main Menu/P/T Setting/Pan Limit

Main Menu Camera Setting⊿ Sequence Setting∢ P/T Setting ₄ OSD Setting⊲5 Alarm Setting⊲∄ Initialize∢ Password Setting ⊿ Status⊲∄

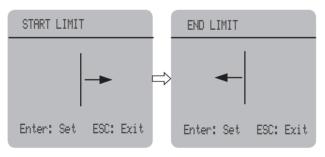




The moving ranges in the Pan directions can be limited.

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.



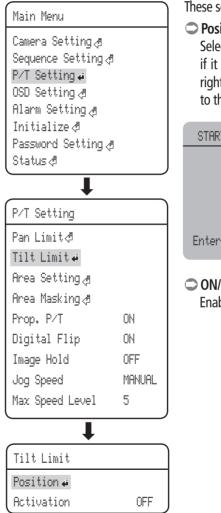
The following picture shows the Tilt Limit setting. Move the joystick left and right to select a movement range from the starting point to the end.

ON/OFF:

Cancels or activates the Pan/Tilt Limit functions.

19. Tilt Limit

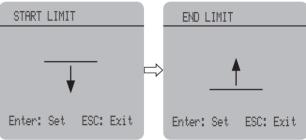
► Main Menu/P/T Setting/Pan/Limit



These settings limit the movement range of the Tilt operation.

Position :

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



ON/OFF:

Enables or disables Tilt Limit.



20. Area Setting

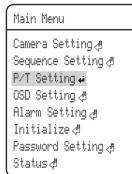
► Main Menu/P/T Setting/Area Setting

OFF

5

MANUAL

OFF



P/T Setting

Pan Limit⊲

Tilt Limit⊲

Area Setting 👍

Area Maskino⊲

Digital Flip

Max Speed Level

Image Hold

Jog Speed

Activation

Prop. P/T

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.

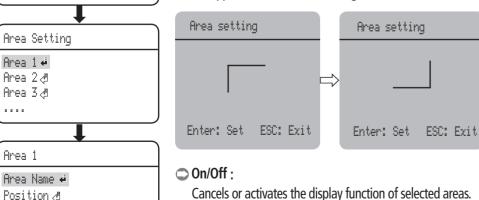
Area Name :

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.



21. Area Masking

► Main Menu/P/T Setting/Area Masking

Main Menu Camera Setting⊿ Sequence Setting∢ P/T Settina ₄i OSD Setting ⊲∄ Alarm Setting⊿ Initialize ♂ Password Setting ≉ Status∢

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

Mask Set

You can set up to 12 privacy zones that will be hided for privacy of the subject when recording.

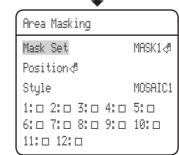
Area Masking	
Activation	OFF
Edit⊄	,

P/T Setting Pan Limit⊲ Tilt Limit⊲ Area Settino⊿ Area Masking⊲ Prop. P/T ON Digital Flip ON Image Hold OFF Jog Speed MANUAL Max Speed Level 5

Position You can set the Masking Area.

Style

You can set the four kinds mosaic.





- For better privacy protection, make your privacy zone bigger than the required, bigger by about
- Video portion of mosaic pattern or colored by the privacy zone setup is not recoverable.



22. Prop. P/T

► Main Menu/P/T Setting/Prop. P&T

Main Menu
Camera Setting<∄
Sequence Setting∢
P/T Setting ₄
OSD Setting⊲
Alarm Setting 🚜
Initialize⊲
Password Setting⊲∄
Status⊄

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.



P/T Setting	
Pan Limit⊄	
Tilt Limit∢	
Area Setting⊲	
Area Masking⊲	
Prop. P/T	ON
Digital Flip	ON
Image Hold	OFF
Jog Speed	MANUAL
Max Speed Level	5

23. Digital Flip

► Main Menu/P/T Setting/Digital Flip

Main Menu
Camera Setting⊲ Sequence Setting⊲
P/T Setting ₄
OSD Setting த Alarm Setting த
Initialize∢∄ Password Setting∢∄
Status∢

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

When an object or a person passes directly under the camera, the camera tilt monitor follows the object or person over 100 degrees to the other side of the tilt area without panning. The screen inversion occurs at 100 degrees or higher and is digitally adjusted.



P/T Setting	
Pan Limit⊄	
Tilt Limit⊄	
Area Setting⊲	
Area Masking⊲∄	
Prop. P/T	ON
Digital Flip	ON
Image Hold	OFF
Jog Speed	MANUAL
Max Speed Level	5
(



24. Image Hold

► Main Menu/P/T Setting/Image Hold

Main Menu
Camera Setting⊲
Sequence Setting⊄
P/T Setting ቆ
OSD Setting 🖪
Alarm Setting⊲
Initialize⊄
Password Setting⊲
Status <₽

When the camera is moving between presets locations, this function freezes the cameras image until the camera reached the next location. This is useful to help the screen observer keep sharp eyes and to monitor multiple locations within a network.



P/T Setting	
Pan Limit⊄	
Tilt Limit∢	
Area Setting∉	
Area Masking∢	
Prop. P/T	ON
Digital Flip	ON
Image Hold	OFF
Jog Speed	MANUAL
Max Speed Level	5

25. Jog Speed

► Main Menu/P/T Setting/Jog Speed

If the speed of your controller or DVR's Pant/Tilt command protocol is fixed and causes slow panning and tilting, you can use Manual mode.

- MANUAL : The angle of the controller handle determines the speed of Pan and Tilt; the more you tilt the controller, the faster the camera spins.
- 10~60: Maintains speed regardless of the angle of the controller handle.



P/T Setting	
Pan Limit⊄	
Tilt Limit∢	
Area Setting⊲	
Area Masking⊲	
Prop. P/T	ON
Digital Flip	ON
Image Hold	OFF
Jog Speed	MANUAL
Max Speed Level	5



26. Max Speed Level

▶ Main Menu/P/T Setting/Max Speed Level

Main Menu Camera Settino⊿ Sequence Setting∢ P/T Setting ቆ OSD Setting⊲ Alarm Setting⊿ Initialize⊲ Password Setting ⊲∄ Status∢∄

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 650°/ sec.



P/T Setting	
Pan Limit⊄	
Tilt Limit⊄	
Area Setting∢	
Area Masking⊲	
Prop. P/T	ON
Digital Flip	ON
Image Hold	OFF
Jog Speed	MANUAL
Max Speed Level	5
(

OSD Setting

27. OSD Setting

▶ Main Menu/OSD Setting

Main Menu	
Camera Setting⊲	
Sequence Setting⊲	
P/T Setting⊲	
OSD Setting 🚜	
Alarm Setting 々	
Initialize∢	
Password Setting⊲	
(Status⊄	

OSD Setting	
Camera ID Camera Name⊲∄	ON
Preset Number Preset Name∢∄	ON
Sequence Status Area Name	ON OFF
PTZ Position Language	ON ENGLISH
(Others ⊲∄	

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.)

Sequence 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, Portuguese, Korean and Italian.

XXX Name 001	
ABCDEFGHIJKL	MNOPQRSTUVWXYZ
abcdefghijkl	mnopqrstuvwxyz
123456	7890 ()
[]-/:	# *!? ,.
BACK SPA	CE CLR SET

*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.



28. OSD Setting(Others)

▶ Main Menu/OSD Setting/Others

Main Menu Camera Setting⊲ Sequence Setting⊲ P/T Settina⊲5 OSD Setting 🚜 Alarm Setting<₫

Initialize⊲5 Password Setting⊲ Status∢∄



OSD Setting	
Camera ID	ON
Camera Name∢	
Preset Number	ON
Preset Name∢	
Sequence Status	ON
Area Name	OFF
PTZ Position	ON
Language	ENGLISH
Others 🐗	



OSD Setting Direction⊲5 Clock Setting⊲ OSD Setting is to set up the OSD (On Screen Display) functions.

- **Direction**: Indicates the current angle of the camera: East, West, South, North, Southeast, Southwest, Northeast, or Northwest.
- Setting North Set up a North direction for the camera.
- ➡ Time Setup : Customize the camera clock; you can schedule sequence actions to perform automatically.
 - Display Shows or hides the clock from the screen.
 - Date Format Changes the display format of the camera date: DD/MM/YYYY or MM/DD/YYYY.
 - Set Date Enter a date.
 - Time Format Changes the display format of the camera time: 24 or 12 hours.
 - Time Setup Enter a time
 - Calibration

This will correct the time difference or error that may be found in the camera.

Select "+" if the camera time is behind, select "-" if ahead, and provide how many seconds the time error occurs per

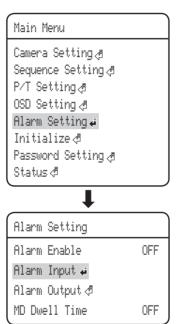
* If the error is one second for a day, enter "+1 SEC/DAY".

Alarm Setting

29. Alarm Setting

29.1. Setting Up Alarm Input

► Main Menu/Alarm Setting/Alarm Input



ALM MOD P SEQ. NO

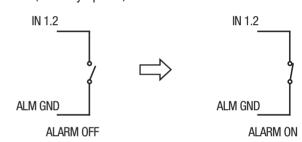
IN1 OFF 1 OFF

IN2 OFF 2 OFF

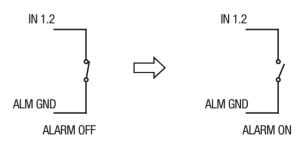
- Alarm Enable :
- On/Off: Enables or disables the Alarm function.
- MOD :

Enables selecting an Alarm Input method.

- NO (Normally Opened)



- NC (Normally Closed)







Notes

• 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.

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.

SEO:

Enables setting up a sequence action for the camera in response to an alarm. Available sequence actions are Home, Preset, Swing, Group, Tour, Trace and A.Pan.

* For the Auto Pan settings, the first number under the Number menu indicates the speed while the second is the Tilt angle. (Refer below.)

ALM	MOD	Р	SEQ	NO	
			Auto Pan		
Input 2	NC	2	Auto Pan	20/20 T T	1
					—— Tilt Angle —— Speed

MD Dwell Time :

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

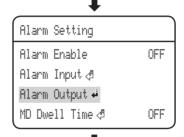
While the camera is performing a sequence action, if motion is detected from a selected preset location, the camera pauses the sequence action operation and starts monitoring the location instead for a duration that is set under the MD Dwell Time menu.

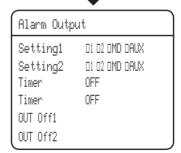
If the motion is no longer detectable or the duration expires, the camera aborts the monitoring operation and then resumes the sequence action.

29.2. Alarm Output

Main Menu/Alarm Setting/Alarm Output

Main Menu Camera Setting⊲ Sequence Setting⊲∄ P/T Setting<₫ OSD Settina⊿ Alarm Setting Initialize⊲5 Password Setting <₫ Status⊲





Setting 1,2:

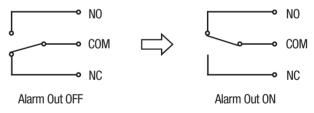
Enables selecting an Alarm Output method.

- 1, 2, Motion, and Support Device indicate alarm input ports, Motion Detection, and support device input. A total of 4 alarms, Motion Detection, and support devices can be set up to output alarms. 1 alarm output port can be used for more than 2 alarm inputs and Motion Detection.

□ Timer 1.2 :

Enables selecting an Alarm Output method.

- On: Retains an alarm output for a set duration from a minimum of 1 second to a maximum of 60 minutes upon the alarm occurrence.
- Momentary: Retains an alarm output only until the alarm is canceled.
- * The Alarm Output is equipped with a relay circuit. The operation of the alarm output port is as shown in the diagram below. (Normally Opened)





Notes

- 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.



AUX Output menu is to operate the camera's peripheral devices such as lamps and sirens through the controller and switches as well as through network communications.

OUT Off 1,2:

- When an alarm event occurs, the output force can be terminated.





Notes

- Connecting the power connector and GND incorrectly to the Aux terminal's 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.

Initialize

30. Initialization Menu

Main Menu/Initialize

Main Menu

Camera Settino⊿ Sequence Setting⊲ P/T Setting⊲ OSD Settina⊿ Alarm Setting⊲5 Initialize 🐗

Password Setting ⊲∄ Status 🗗



Initialize

Power On Reset ₫ Factory Default Set⊄ Camera Default Set ⊄ Auto Refresh OFF Power On Reset :

Restarts the camera.

Factory Default :

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 :

Resets the camera zoom module to the Factory Default mode; use if you want to reset all camera settings including Exposure and Backlight.

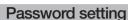
Auto Refresh :

Enables optimizing the status of the camera's built-in electric circuits and components on a regular basis. (A regular operation can be scheduled.)

This mode can be used to maintain and repair the current settings of the camera when anomalous operations occur: e.g. The camera happened to directly face a light source, or the settings have been canceled after the camera repeatedly rotated in all four directions for a long time to monitor a specific location.

The default setting is Off.

- 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 approximately 10 seconds to finish. If Auto Refresh activates in the middle of a sequence action. the camera pauses the sequence action and performs an Auto Refresh, then resumes the sequence action once the refresh is complete.



31. Password setting

Main Menu/Password setting







Modi	ify Pas	SSU	VOľ	rd		
Old	Pwd:0	*	*	*		
Менг	Piid:*	*	*	*		

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".

Status

32. Status

▶ Main Menu/Status

Main Menu

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



A . .

Camera Status		
CAM MODEL	=	12N(A1)
CAM VERSION	=	V1.3
DOME VERSION	=	V1.00
COAX VERSION	=	V1.00
CON PROTOCOL	=	AUTO DET.
DOME ID	=	001
CONTROLLER	=	Simplex

Displays the settings and version of the dome camera.

- Cam Model:
 Indicates the model name of the camera.
- Cam Version:
 Indicates the software version of the camera.
- Dome Version :
 Indicates the version of the camera control board.
- COAX VERSION : Indicates the software version of the Coax communication.
- CON Protocol: Indicates the status of the current protocol.
- Camera ID

 Controller:
 - Indicates the settings of the current communications mode.



Notes

- In case you have forgotten the current password, use the controller and perform Preset 255 to access the OSD without the password.
- Upon using "Factory Default Set" at "Main Menu > Initialize," the password is reset to the default, "0000".

Troubleshooting



Problem	Cause and Solution	PAGE
Controller does not work.	Check if the camera and peripheral devices are properly connected.	29
Controller does not work.	Verify the setups of ID, protocol, and baud rates.	20~27
No picture is displayed on monitor.	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
	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.	-
Picture is out of focus.	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.	-
	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 menu to restore the camera settings in order to default.	85
	► Adjust Sharpness level.	57

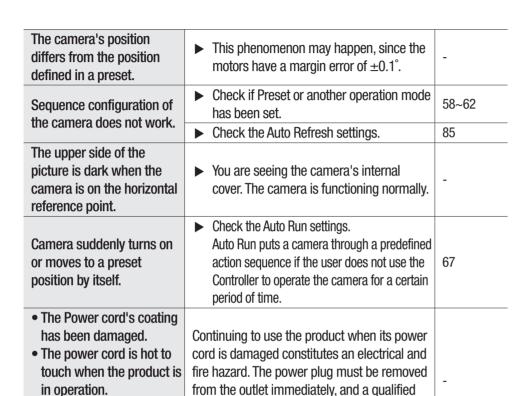
	► Check if the video cable is properly	
	connected.	-
Digital noise appears in picture.	Make sure that the power cable and video cable do not exceed the recommended maximum lengths.	28
	Adjust Sharpness level.	57
Picture's colors are not good.	► Check the White Balance.	41
	Check if the dome cover or 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.	► Check Sens-Up settings.	49
Camera switches between color and B&W modes frequently.	Adjust Duration and Dwell Time in Day & Night menu.	56
A circular object appears on screen when the camera is pointing straight down.	 You are seeing a pinpoint-like injection artifact on the dome cover. The camera is functioning normally. 	-
Pan, tilt, zoom, and/or focus	 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
do not work.	► Check if Pan Limit and/or Tilt Limit are set. If so, remove the limit(s).	70~71
	► A motor or the lens may be overheated. If so, contact your service personnel or system provider for assistance.	-

Troubleshooting 0

• The power cord gets hot

after being folded or

pulled on.



service personnel or your system provider

should be contacted for assistance.



	SCP-3120	SCP-3120V	SCP-3120VH	
Imaging Device	SONY 1/4ir	nch, ExView-HAD PS CCD(IC)	(-448/449)	
TV Standard		NTSC / PAL		
Total Pixel	NTSC : 81	11(H) × 508(V) / PAL: 795(H)	× 596(V)	
Effective Pixels	NTSC : 768(H) × 494(V) / PAL: 752(H) × 582(V)			
Scanning System		2:1 Interlace		
Synchronization		Internal/Line Lock		
Horizontal Scan Rate	NTSC : 15.734 KHz / PAL:15.625 KHz			
Vertical Scan Rate		NTSC : 59.94 Hz / PAL:50Hz		
Horizontal Resolution	600	TV Line(Color) / 700 TV Line(B/W)	
Min. Illumination	0.7Lux(50I	RE @ F1.67), 0.03Lux(50IRE	@ F1.67)	
S/N(Y Signal)		Over 50dB(AGC OFF)		
Video Output		VBS 1.0Vp-p/75Ω		
Zoom Ratio		12X (Optical), 16X (Digital)		
Focal Length	3.6~44.3mm (F1.6~F2.0)			
Min. Object Distance	Wide:0.2m, Tele:0.8m			
Angular Field of View		l: 54.44°(Wide) ~ 4.64°(Tele ': 41.42°(Wide) ~ 3.52°(Tele	,	
Focus	ļ.	AUTO / MANUAL / ONE-SHO	Γ	
Zoom Speed		1.9Sec(Wide~Tele)		
IRIS		AUTO / MANUAL		
Lens Initialization		Built-In		
Horizontal Rotation Angle	360°Endless			
Horizontal Rotation Speed	Manual: 0.05~120°/Sec(Turbo: 200°/Sec), Preset: Max. 650°/Sec			
Vertical Rotation Angle	-5°~ 185°			
Vertical Rotation Speed	Manual : 0.05~120°/Sec, Preset : Max. 650°/Sec			
Preset Position	255			
Preset Accuracy	±0.1°			
Camera ID	1~255			
Day & Night	AUTO / COLOR / BW			
Backlight	BLC / WDR / OFF			
Motion Detection	ON / OFF			
Privacy Mask		ON / OFF (12 Areas)		
DNR		LOW / MEDIUM / HIGH / OFF		
Sens-up	Auto / Off (Selectable limit X2~ 512X)			

SPEED DOME CAMERA 90 User Guide



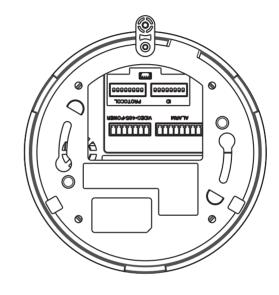
Product Specification

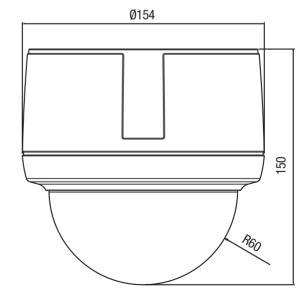


SCP-3120			
N.P-31/11	CNI	79 -	חמו
	. IC.		

(Unit:mm)



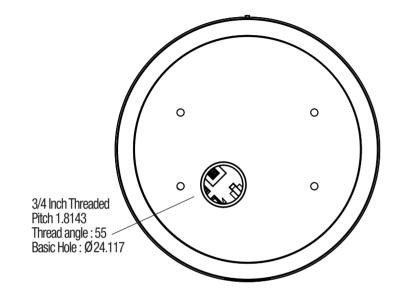


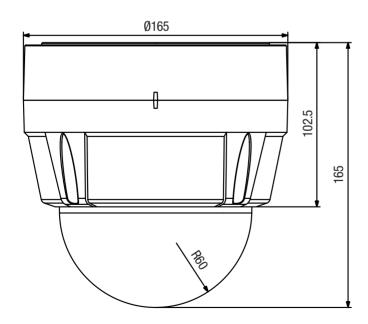


Gain Control OFF / LOW / MEDIUM / HIGH / MANUAL White Balance ATW(IN) / ATW(OUT) / AWC / MANUAL Electronic Shutter NTSC:1/60~10,000sec, PAL:1/50~10,000sec Serial Communication RS485, Coaxial Communication SAMSUNG-T, SAMSUNG-E, Pelco-D, Pelco-P, Pelco Coaxitron, Protocol Panasonic, Honeywell, AD, Vicon, BOSCH, GE 2 ln, 2 Out Alarm Digital Flip ON/OFF Waterproof Standards IP66(IEC-60529) IP66(IEC-60529) Operating Place Indoor Indoor/Outdoor Indoor/Outdoor -10°C ~ +50°C -50°C ~ +50°C -50°C ~ +50°C Operating Temperature Less than 90% RH Operating Humidity AC24V ± 10% Input Voltage Power Consumption Max. 12W Max. 45W Max. 45W External Dimensions($\Phi \times D$) Φ154×150mm Φ165×165mm Ф200×203mm Weight Approx. 1.0Kg Approx. 1.8Kg Approx. 2.4Kg

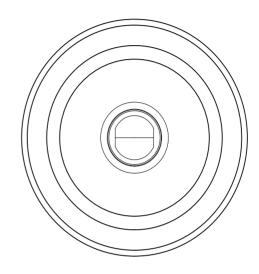
Dimension

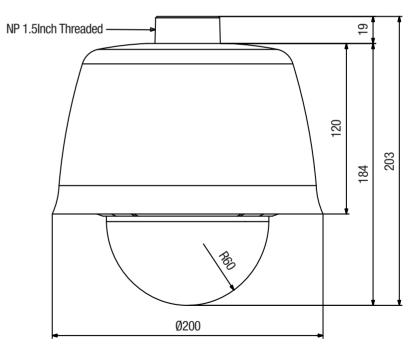
SCP-3120V





SCP-3120VH





DECLARATION OF CONFORMITY

Application of Council Directive(s) 2004/108/EC

Manufacturer's Name SAMSUNG TECHWIN CO., LTD

Manufacturer's Address SAMSUNG TECHWIN CO., LTD

42, SUNGJU-DONG CHANGWON-CITY,

KYUNGNAM, KOREA, 641-716

European Representative Name

European Representative Address

Equipment Type/Environment Speed Dome Camera

Model Name SCP-3120/3120V/3120VH

Beginning Serial NO. C59A

Year of Manufacture 2009.1.27

Conformance to EN 55022 : 2006

EN 50130-4:2003

Date

We, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s).

Manufacturer SAMSUNG TECHWIN CO., LTD Legal Representative in Europe

Signature

Full Name

BONJENG GU

Full Name

Position

QUALITY CONTROL MANAGER

Position

Place

CHANGWON, KOREA

Place

2009.1.27

Date

MEMO





SALES NETWORK

SAMSUNG TECHWIN CO., LTD.

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