

 Before attempting to operate this product, please read the instructions carefully.



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• ENGLISH

- ESPAÑOL
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22x SPEED DOME CAMERA Operation/Programming



Thank you for purchasing a SAMSUNG CCTV CAMERA. Before operating the camera, confirm the camera model and proper input power voltage. In order that you can understand this manual thoroughly, we'll introduce our model description.

■Model Description

SPD-2200 <u>x</u>

Signal System

• Signal System $N \rightarrow NTSC Model$ $P \rightarrow PAL Model$



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.

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

- Do NOT use power sources other than that specified.
- ◆ Do NOT expose this appliance to rain or moisture.

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

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Warning & Caution

Marning

Please read the instructions carefully for correct use of the product, and observe these cautions to prevent danger or physical damage while operating it.

Warning / Caution



Warning If you fail to read this information, or handle the product incorrectly, death or serious injury may result.

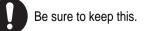


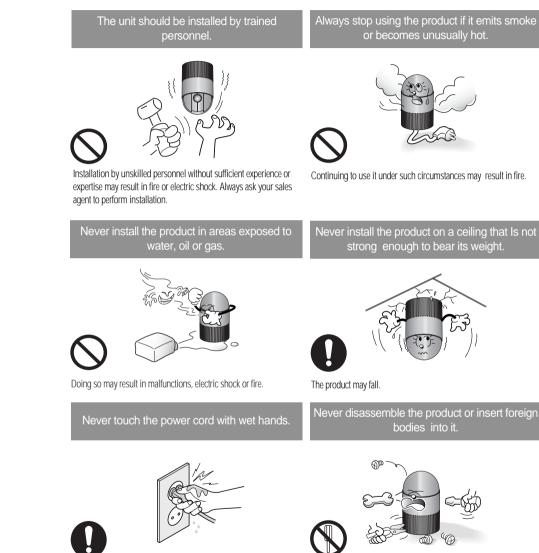
Caution If you fail to read this information, or handle the product incorrectly, serious injury or physical damage may result.

Sign



No disassembly.





Touching the power cord with wet hands may result in electric shock. Malfunction may result.

A Caution

Main Features

Never install the product in locations with extreme high or low temperature.



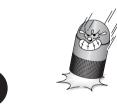
Installing the product in areas subject to temperatures of over 50°C or below 0°C may result in deterioration of picture quality or other problems. Pay special attention to ventilation when installing the product in high ambient temperatures.

roduct in high ambient temperatures.

Never drop the product, or subject it to severe

Never exp

impact or vibration.



Malfunction may result.

Never touch the glass on the front of the product.



This glass is one of the key components. Be careful not to leave fingerprints or other marks on the glass.



Never install the product in places where the

Frequent changes of illumination, for example from unstable fluorescent lighting, may result in malfunction.

Never expose the product to direct sunlight or harmful rays.

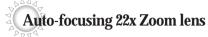


Direct sunlight or harmful rays may cause fatal damage to the CCD or internal circuitry.

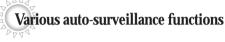
Never install the product in areas exposed to rain or water.



If water gets into the product it may cause failure.



The digital zoom function of the built-in 22x zoom lens, together with its auto-focus feature, zooms an image by up to 220x.



- PTZ trace Manually plays recorded images of up to about 120 seconds.
- Auto swing Repeats pan and tilt between two preset positions.
- Group sequence Switches to and checks a maximum of 128 preset positions in order.
- Tour sequence Switches to and checks a maximum of 6 group sequences in order.



Pan and tilt speed compensation function linked to zoom position allows fine manual operation even during zooming.

Area Masking for 8 points

Area Masking can be set up for up to 8 points. For Privacy, this device provides a function for hiding the points for which Area Masking is selected from the screen.



Slow-shutter and day and night switching enable optimum screen monitoring over 24 hours.

- * Slow-shutter function improves CCD sensitivity by electrically lengthening exposure time.
- * Day & Night function enables the color and black and white screens to be used respectively during the day and at night.



Provides character information displayed on the monitor, such as the camera ID address, camera name, preset number, preset name, area name and sequence status, and easily sets various camera functions from the OSD menu screen.



Returns the dome to a specified preset position at a fixed time after ending manual operation.

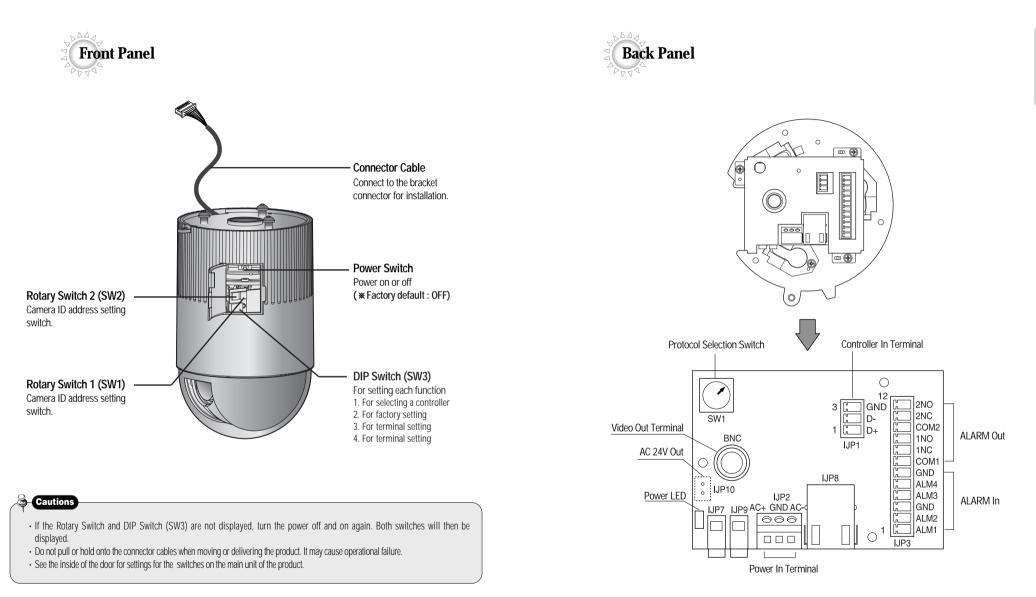


A maximum of 128 preset positions can be set. The preset function enables you to set the location you want to monitor at any time.



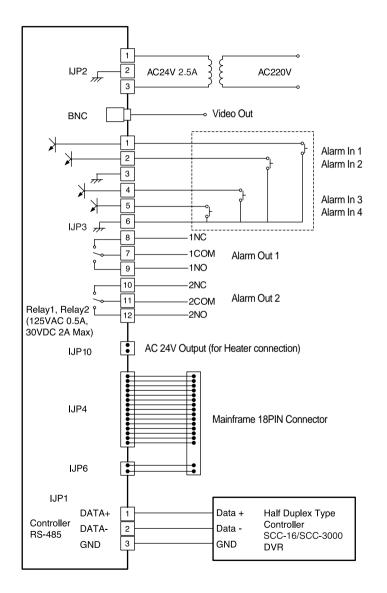
For monitoring an object moving below a camera, run Auto Flip using a joystick controller, and moving objects can be monitored without reversing, both up and down and left to right.

Components

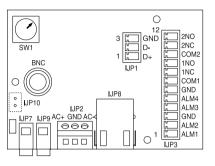


Getting started

Bracket Setup for Installation



Initial Setting



• Communication Protocol Setting (Installation Bracket)

Select and set SW1 on the installation bracket for setting the communication protocol.

Protocol	Baud Rate (BPS)
Samsung	9,600
Samsung	19,200
Pelco-D	2,400
Pelco-D	4,800
Pelco-D	9,600
Reserve	
	Samsung Pelco-D Pelco-D Pelco-D Pelco-D

Note) Factory Default : 0 (Samsung, 9600)

Baud Rate Setting by DVR Model

For control of the speed dome camera using DVR without a dedicated controller, set the baud rate by DVR model as described below.

Samsung	Pelco
9600,19200	9,600
9600,19200	4800, 9600
9600,19200	2400,4800,9600
	9600,19200 9600,19200

Note) A faster rate may degrade stability.

The control function may not be available depending on the DVR Firmware version. Be sure to install the latest DVR Firmware version.

• Camera ID Setting (Mainframe front panel)

• Set the Camera ID using the two rotary switches. SW1 and SW2 refer to the lower and upper positions, respectively.



• EX) If the camera ID is number 1, set as described below.



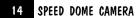
SPEED DOME CAMERA 13

Getting started

Camera ID Switch Setting

Camera ID	SW2	SW1	Remarks	Camera ID	SW2	SW1	Remarks
ID = 0	0	0	Not applicable	ID = 48	3	0	
ID = 1	0	1		ID = 49	3	1	
ID = 2	0	2		ID = 50	3	2	
ID = 3	0	3		ID = 51	3	3	
ID = 4	0	4		ID = 52	3	4	
ID = 5	0	5		ID = 53	3	5	
ID = 6	0	6		ID = 54	3	6	
ID = 7	0	7		ID = 55	3	7	
ID = 8	0	8		ID = 56	3	8	
ID = 9	0	9		ID = 57	3	9	
ID = 10	0	A		ID = 58	3	А	
ID = 11	0	В		ID = 59	3	В	
ID = 12	0	С		ID = 60	3	С	
ID = 13	0	D		ID = 61	3	D	
ID = 14	0	E		ID = 62	3	E	
ID = 15	0	F		ID = 63	3	F	
ID = 16	1	0		ID = 64	4	0	
ID = 17	1	1		ID = 65	4	1	
ID = 18	1	2		ID = 66	4	2	
ID = 19	1	3		ID = 67	4	3	
ID = 20	1	4		ID = 68	4	4	
ID = 21	1	5		ID = 69	4	5	
ID = 22	1	6		ID = 70	4	6	
ID = 23	1	7		ID = 71	4	7	
ID = 24	1	8		ID = 72	4	8	
ID = 25	1	9		ID = 73	4	9	
ID = 26	1	Å		ID = 74	4	Å	
ID = 27	1	В		ID = 75	4	В	
ID = 28	1	C		ID = 76	4	C	
ID = 29	1	D		ID = 77	4	D	
ID = 30	1	Ē		ID = 78	4	Ē	
ID = 31	1	F		ID = 79	4	F	
ID = 32	2	0		ID = 80	5	0	
ID = 33	2	1		ID = 81	5	1	
ID = 34	2	2		ID = 82	5	2	
ID = 35	2	3		ID = 83	5	3	
ID = 36	2	4		ID = 84	5	4	
ID = 37	2	5		ID = 85	5	5	
ID = 38	2	6		ID = 86	5	6	
ID = 39	2	7		ID = 87	5	7	
ID = 40	2	8		ID = 88	5	8	
ID = 41	2	9		ID = 89	5	9	
ID = 42	2	Á		ID = 90	5	Â	
ID = 43	2	B		ID = 91	5	B	
ID = 44	2	C		ID = 92	5	C	
ID = 45	2	D		ID = 93	5	D	
ID = 45 ID = 46	2	E		ID = 93 ID = 94	5	E	
ID = 40 ID = 47	2	F		ID = 94 ID = 95	5	L	

Camera ID	SW2	SW1	Remarks	Camera ID	SW2	SW1	Remarks
D = 96	6	0		ID = 144	9	0	
D = 97	6	1		ID = 145	9	1	
ID = 98	6	2		ID = 146	9	2	
ID = 99	6	3		ID = 147	9	3	
ID = 100	6	4		ID = 148	9	4	
ID = 101	6	5		ID = 149	9	5	
ID = 102	6	6		ID = 150	9	6	
ID = 103	6	7		ID = 151	9	7	
ID = 104	6	8		ID = 152	9	8	
ID = 105	6	9		ID = 153	9	9	
ID = 106	6	А		ID = 154	9	А	
ID = 107	6	В		ID = 155	9	В	
ID = 108	6	С		ID = 156	9	С	
ID = 109	6	D		ID = 157	9	D	
ID = 110	6	E		ID = 158	9	E	
ID = 111	6	F		ID = 159	9	F	
ID = 112	7	0		ID = 160	A	0	Not applicable
ID = 113	7	1		ID = 161	A	1	
ID = 114	7	2		ID = 162	A	2	
ID = 115	7	3		ID = 163	A	3	
ID = 116	7	4		ID = 164	A	4	
ID = 117	7	5		ID = 165	A	5	
ID = 118	7	6		ID = 166	A	6	
ID = 119	7	7		ID = 167	A	7	
ID = 120	7	8		ID = 168	A	8	
ID = 121	7	9		ID = 169	A	9	
D = 122	7	A		ID = 170	A	A	
D = 123	7	В		ID = 171	A	В	
ID = 124	7	C		ID = 172	A	C	
ID = 125	7	<u>D</u>		ID = 173	A	D	
ID = 126	7	Ē		ID = 174	A	E	
ID = 127	7	F		ID = 175	A	E	Not applicable
ID = 128	8	0		ID = 176	B	0	
ID = 129	8	1		ID = 177	B	1	
ID = 130	8	2		ID = 178	B	2	
ID = 131	8	3		ID = 179	B	3	
ID = 132	8	4		ID = 180	B	4	
ID = 133	8	5		ID = 181	B	5	
ID = 134	8	6		ID = 182	B	6	
ID = 135	8	7		ID = 183	B	7	
ID = 136	8	8		ID = 184	B	8	
ID = 137	8	9		ID = 185	B	9	
ID = 138	8	Â		ID = 186	B	Â	
ID = 139	8	<u>R</u>		ID = 187	B	B	
ID = 137 ID = 140	8	C		ID = 188	B	C	
ID = 140 ID = 141	8	D		ID = 189	B	D	
ID = 141 ID = 142	8	E		ID = 107	B	E	1
ID = 142 ID = 143	8	F		ID = 190	B	E	+



Camera ID	SW2	SW1	Remarks	Camera ID	SW2	S
ID = 192	С	0		ID = 240	F	
ID = 193	С	1		ID = 241	F	
ID = 194	С	2		ID = 242	F	
ID = 195	С	3		ID = 243	F	
ID = 196	С	4		ID = 244	F	
ID = 197	С	5		ID = 245	F	
ID = 198	С	6		ID = 246	F	
ID = 199	С	7		ID = 247	F	
ID = 200	С	8		ID = 248	F	
ID = 201	С	9		ID = 249	F	
ID = 202	С	А		ID = 250	F	
ID = 203	С	В		ID = 251	F	
ID = 204	С	С		ID = 252	F	
ID = 205	С	D		ID = 253	F	
ID = 206	С	E		ID = 254	F	
ID = 207	С	F		ID = 255	F	
ID = 208	D	0		·		
ID = 209	D	1				
ID = 210	D	2				
ID = 211	D	3				
ID = 212	D	4				
ID = 213	D	5				
ID = 214	D	6				
ID = 215	D	7				
ID = 216	D	8				
ID = 217	D	9				
ID = 218	D	A				
ID = 219	D	В				
ID = 220	D	С				
ID = 221	D	D				
ID = 222	D	E				
ID = 223	D	F				
ID = 224	E	0				
ID = 225	E	1				
ID = 226	E	2				
ID = 227	E	3				
ID = 228	E	4				
ID = 229	E	5				
ID = 230	E	6				
ID = 231	E	7				
ID = 232	E	8				
ID = 233	E	9				
ID = 234	E	А				
ID = 235	Ē	В]		
ID = 236	E	С				
ID = 237	Ē	D				
ID = 238	E	E		1		
	E	F	1	-		

Camera ID	SW2	SW1	Remarks
ID = 240	F	0	
ID = 241	F	1	
ID = 242	F	2	
ID = 243	F	3	
ID = 244	F	4	
ID = 245	F	5	
ID = 246	F	6	
ID = 247	F	7	
ID = 248	F	8	
ID = 249	F	9	
ID = 250	F	А	
ID = 251	F	В	
ID = 252	F	С	
ID = 253	F	D	
ID = 254	F	E	
ID = 255	F	F	

Note

 Factory Default : Camera ID = 1 The rotary switch is on the controller board (controllable from the initial PAN position)

The three kinds of camera ID below cannot be used.

Camera ID	R-SW2	R-SW1
ID = 0	0	0
ID = 160	А	0
ID = 175	А	F

• Controller Model Setting (Mainframe front panel)

• Set the controller model by switching Dip Switch No. 1



	Functions	ON	OFF
SW3-#1	Controller Setting	SVR-430/900 /1620/1630	SCC-16, SCC-3000

Note) Factory Default : OFF

Simultaneous control by a controller and a DVR is not allowed.

• Factory Default (Mainframe front panel)

	Functions	ON	OFF
SW3-#2	Factory Default	OFF for bot	h switches

Note) Factory Default : OFF

• RS-485 Terminal Setting (Mainframe front panel)

• Set the terminal by switching Dip Switch No. 3 and 4 On/Off.

Camera Connection Position	SW3-#3	SW3-#4
Longest Route Terminal	ON	ON
On the route	OFF	OFF

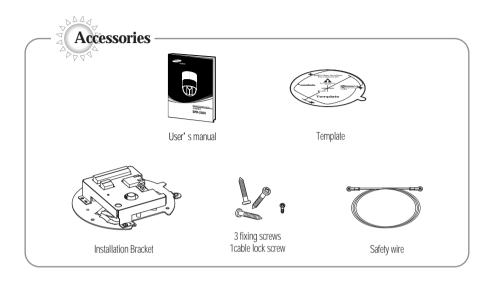
Note) Factory Default: On for both switches

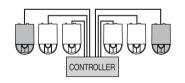
Getting started

It is necessary to connect the terminating resistance to the two units that are furthermost from the relevant camera/controller on the RS-485 Interface in order to prevent signal attenuation.

Since cameras have embedded terminating resistance, select whether to activate or deactivate their terminating resistance by using the DIP Switch. Refer to the connection layout below for deciding which unit is to be connected to the terminating resistance. Set the terminating resistance to the gray colored unit.

The maximum distance for setting the terminating resistance is 1.2Km.





% Options

The components below are options

Component	Model	Description
Camera Controller	SCC-16, SCC-3000	Pan/Tilt/Zoom/Focus Control, OSD Action, a variety of function settings
Indoor Housing	STH-160PI	Housing for Indoor Installation
Indoor Embedded Housing	STH-128PE	Ceiling Embedded Indoor Housing
Outdoor Housing	STH-160PO	Housing (with built-in fan and heater) for outdoor installation
Wall mounted	STB-270PW	Wall mounted type
Ceiling mounted	STB-496PP	Ceiling mounted type
AC Adapter	STA-110 STA-230	Input : AC 110V Input : AC 230V

How to Install

Cable

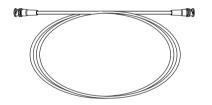
Preparation

For SPD-2200 installation, the cables listed below have to be prepared.

• Power adapter cable

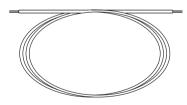
The cable to be connected to the power in the SPD-2200 terminal includes the power adapter, for which the rated voltage is AC24V, 2.5A as described below. (Use UL listed class 2 power source.)

• Video Cable The cable connecting the SPD-2200 video out terminal and the monitor is the BNC cable as described below.



RS-485 Communication Cable

The cable connecting the controller for the SPD-2200' s RS-485 communication is described below.

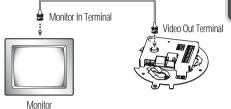




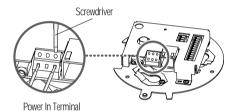
· Adapter, Video and RS-485 communication cables not supplied.



- 1. First, connect one end of the BNC cable to the video out terminal.
- 2. Connect the other end of the BNC cable to the video in terminal of the monitor.



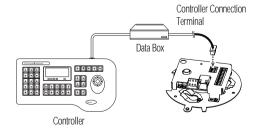
3. Connect one end of the power adapter, comprising two lines, to the Power In Terminal of the bracket using the flathead screwdriver as shown in the figure below.



4. Connect the power adapter plug to the power outlet.



5. Connect the connection terminal of the SPD-2200 controller to the external controller.







Accessories (option)

• Cautions

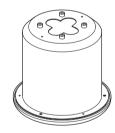
- Confirm that the installation location is strong enough to bear more than 4 times the total weight of the assembly and the speed dome camera (SPD-2200).
- Only install the camera where there is more than 500mm of space above the ceiling board.
- In installing the bracket, use the installation guide template, screws and cables supplied with the camera.
- There is a risk that the camera may be dropped during installation. Prevent any possibility of the camera falling by using the security cable during installation. Unauthorized persons should be prevented from gaining access to the installation site.

• Options related to installation

The options below, when purchased, will facilitate the installation in a variety of different sites.

1) Indoor embedded Housing (STH-128PE)

This housing is used when a speed dome camera is embedded in a double ceiling.



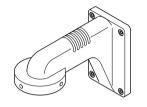
2) Indoor and Outdoor Housing (STH-160PI, STH-160PO)

This housing is used when a speed dome camera is mounted on a wall or ceiling inside or outside.



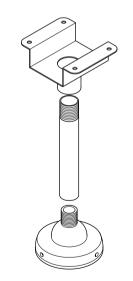
4) Wall Mounting (STB-270PW)

Assembly used when an indoor and outdoor housing for a speed dome camera is to be mounted on a wall.



5) Ceiling Mounting (STB-496PP)

Assembly used when an indoor and outdoor housing for a speed dome camera is to be mounted on a concrete ceiling.



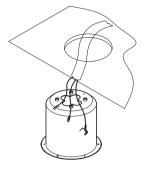


When installing the speed dome camera in an indoor/outdoor housing, remove the dome cover (front glass) to obtain a clearer image.

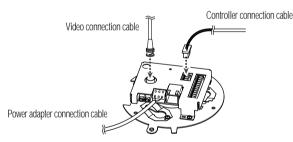
How to Install

How to Install the Camera (using the Embedded Housing)

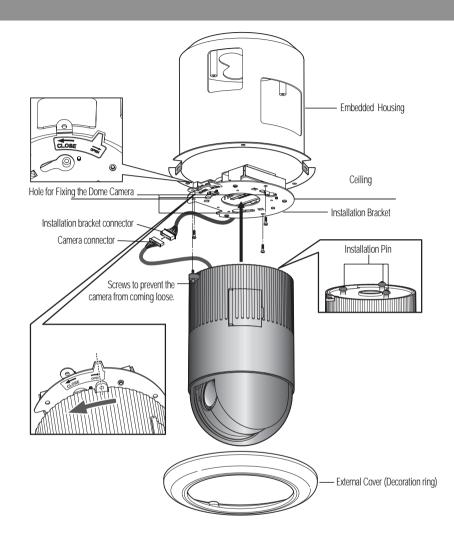
① Make a hole of 155mm in diameter in the ceiling to install the camera. Pull the cable down through it.



(2) Connect the video cable, controller cable and power adapter cable to the mounting bracket. (See Page 19)



- ③ Fix the mounting bracket to the Embedded housing using three screws.
- ④ Fasten the eye bolt on the housing and fix the housing to the ceiling, using the cable to prevent it from falling.
- (5) Fix the housing to the ceiling using three screws.
- (6) Connect the Installation bracket to the connector of the speed dome camera.
- ⑦ Insert the pin at the bottom of the camera into the bracket fixing hole and turn it anticlockwise to secure.
- (8) Fasten the lock screw.
- (9) Place the external cover over the housing and then rotate and fix it.





- · Check the power adapter input power before connecting the power supply
- Install the camera using the installation template and cable and fixing screws that are supplied separately for installations without a housing.
- Note that the locking screws should be fastened. If one of the locking screws is not properly fastened, the camera may fall due to vibration or impact once it is installed.

OSD Menu Configuration

This model enables dome camera setting, using the OSD (On Screen Display) menu displayed on the video output, by exclusive control.

The joystick in the OSD menu modes is controlled as described below. This function is also enabled by sending the exclusive control code from a PC to a dome camera.

Menu	Functions
TILT Up	Up on the OSD
TILT Down	Down on the OSD
PAN Left	Left on the OSD
PAN Right	Right on the OSD

Menu Configuration

P1	P2	P3	P4	Defaults
	F	Focus Mode	Auto/Manual/One Shot AF	One Shot AF
	Focus	Digital Zoom		4X
			AUTO/AWC/MANUAL	Auto
	White Balance	AWB Mode	/OUTDOOR/INDOOR	
	While Dalance	AVID NIOLE	Manual : WB RED	000
			WB BLUE	000
			AUTO/AGC OFF/ALL/AGC/IRIS/SHUTTER	Auto
		AE Mode	- Shutter SPD	1/60
	Exposure		- Iris Adjust	170
			- AGC Adust	-
Camera		D&N Mode	Auto/Day/Night	Auto
Setting		Slow Shutter	0(OFF), 1~9 (2Fields~128Fields)	OFF
	Back Light	Mode	ON/OFF	OFF
		Area	Center/Upper/Lower/Left/Right	Center
		Weight	Low/High	Low
	C: in a	Internal		Internal
	Sync	Line Lock	Line Lock Phase	225
	Brightness			050
	Flickerless	ON/OFF		OFF
		Sharpness		10
	Others	Mirror	ON/OFF	OFF
		Nega/Posi	Negative/Positive	Positive

	Set Preset Pan Swing	Setting/Execute/Clear/Status		
	0	Setting/Execute/Clear		_
•	Tilt Swing	Setting/Execute/Clear		
Sequence	Swing Focus Mode	Auto/Manual		MANUA
Setting	Group SEQ	Group1~Group6	Setting/Execute/Clear	_
	Tour SEQ	Setting/Execute/Clear		
	PTZ Trace	Replay/Memorize		
	Power On Resume	ON/OFF		OFF
	Pan Limit	Position/ON/OFF		
	Tilt Limit	Position/ON/OFF		
	Area Setting	Area 1~ Area 8	Name/Position/Clear/On/Off	
	Area Masking	Mask1~Mask8	Position ON/OFF	
P/T Setting		ON/OFF		
i , i coulig	Home Position	Setting		
		ON/OFF		
	Smart P/T	ON/OFF		ON
	Auto Filp	ON/OFF		ON
	Camera ID	ON/OFF		ON
	Camera Name	Edit, ON/OFF		
	Preset Number	ON/OFF		ON
OSD Setting	Preset Name	Edit, ON/OFF		
	Sequence Status	ON/OFF		ON
	Area Name	ON/OFF		OFF
	Alarm Enable	ON/OFF		OFF
			NC/NO/OFF	-
	Alarm Input	Alarm1~Alarm4	1~4(Priority)	
	, usuri input		Preset/Group/Tour	
			1~4	
		Out1 SET~Out2 SET	MD	
			1~60(Sec)	
Alarm	Alarm Out	Out1 Time~Out2 Time	1~60(Min)	
Setting			1~60(Hour)	
•		Out1 Off~Out2 Off		_
		MD Execute		
	Motion	Detect Area	Whole/Upper/Lower/Center	Whole
	Detection	Sensitivity	Whole, opper/ Lower, ochief	12
	Deteotion	Preset No.		12
	Power On Reset	Cancel / Execute		
	Fower Off Reset	Cancel / Execute		
lutioline.	Camera Default Set	Cancel / Execute		
InItialize				7 Dour
<u> </u>	Auto Refresh	OFF, 1~7 Days		7 Days
Status				1

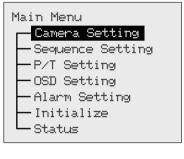
• Dome Camera Users' Menu Settings

How to Use the OSD Menu

Check whether the camera is set to manual mode and press the OSD Menu Key, or 1 and the MENU Key at the same time.

The screen will then display the contents as shown below.

Main Menu



Move the cursor downwards to the submenu to set. Press the Enter key on the selected submenu. You can then change and set the submenu. Press the ESC KEY, and the OSD menu closes.

For more details, please see the Controller User Manual.

FOCUS

The Focus menu sets the focus mode to either Auto or Manual Mode.

1) Focus Mode

- Auto : Automatically focuses by continuous monitoring in Auto Mode. Since the focus is automatically adjusted when the Zoom key is controlled, Focus key input is not applied.
- Manual : The Manual mode enables the user to manually adjust the focus.
- One Shot AF : One Shot AF activates auto-focusing when the camera stops moving.
 When the camera stops, it works as in Manual Mode.

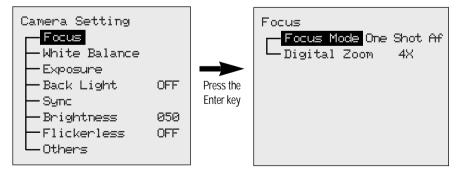
② Digital Zoom

- Changes the digital Zoom factors.
- * We recommend setting the digital zoom factor before presetting.

1) Camera Setting

Select Camera Setting in the Main Menu Window, and the Camera Setting Menu appears.

Camera Setting Menu



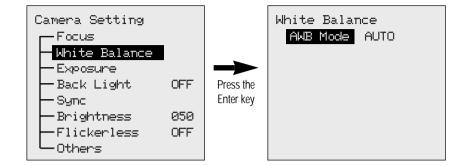
Cautions

Digital Zoom

 \cdot The higher the digital zoom factor, the lower the image quality.

Auto-focus

- The Auto-Focus may not work properly under the conditions below.
- If the illumination in a monitoring zone is low
- If the Slow-Shutter is activated
- If the amplification degree is increased
- If the illumination in a monitoring zone is excessively high
- If both remote objects and close objects are included in a monitoring zone
- If there is no contrast (black and white), such as the sky or a wall, within the picture
- If there is a thin horizontal line within an image



White Balance

The White Balance menu activates the white balance function, which adjusts the correct white color for lighting with any color temperature.

Select from Auto/AWC/Indoor/Outdoor/Maunual

AWB Mode

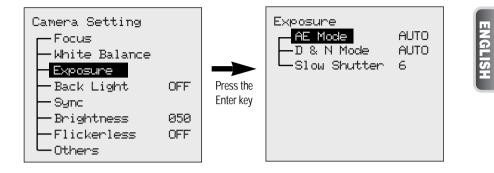
- · Auto : Automatically adjusts the colors according to changes in the light source.
- AWC : Sets the lighting condition for an object and forcibly adjusts its color to white. Images can only
 be captured under this preset condition
- Manual : Sets the color temperature with the appropriate ratio of RED to BLUE.
- WB Manual

Users can adjust the colors by adding or reducing the percentage of Red or Blue.

- WB Red

The Red Gain can be changed.

- WB Blue
- The Blue Gain can be changed.
- Outdoor : Sets the color temperature to 5,600K.
- Indoor : Sets the color temperature to 3,200K.



Exposure

Controls the camera exposure

1 AE Mode

- · Auto: Automatically adjusts the video signal brightness according to the light intensity.
- · AGC OFF : Sets AGC Gain as OFF.
- All: Manually sets the electronic Shutter, Iris and AGC.
- · AGC: Manually sets AGC.

-AGC Adjust : The AGC (Automatic Gain Control) menu sets whether or not to control the gain automatically when an object is viewed in poor lighting, such that the image brightness is below a certain level. Select the AGC Adjust menu, and you can increase or decrease the level value.

IRIS: Manually sets the Iris.

-Iris Adjust : Sets the video signal brightness on the screen by adjusting the Iris level.

Shutter: Manually sets the electronic Shutter rate.

-Shutter SPD : The Shutter SPD supports 8 shutter speed rates from 1/60 sec. to 1/10,000 sec.

[Table-1 Step-by-Step Setting]

High-Speed Shutter	1	2	3	4	5	6	7	8
(Sec)	1/60	1/125	1/250	1/500	1/1,000	1/2,000	1/4,000	1/10,000

② D&N Mode (Day & Night Mode)

Automatically detects the degree of darkness at night, or in poor lighting conditions, and so keeps the screen bright and clear.

- Auto : When the Auto Mode is selected, it automatically switches to Color mode to maintain optimum color during the day, and to Black and White mode at night for clearer pictures in poor lighting. However, the Slow Shutter doesn't work in Auto Mode.
- · Day : Maintains color images. The Slow Shutter function is activated in this mode.
- · Night : Maintains black and white images. The Slow Shutter function is deactivated in this mode.

③ Slow Shutter

The Slow Shutter is activated only in Day Mode and keeps the screen bright and clear in low lighting conditions.

Increase the level in the menu, and the maximum level can be adjusted. (X2-X128) The larger the scale, the brighter the screen. However, the after-image of moving objects is also increased.

[Table-2 Step-by-Step Setting]

Low-Speed Shutter	0	1	2	3	4	5	6	7	8	9
(Fields)	Shutter OFF	X2	X4	X8	X12	X16	X24	X32	X64	X128

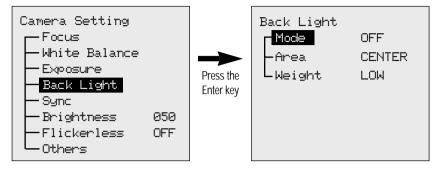
Solution Note

The relationship between AE Mode and D&N Mode is described below.

AE D&N	Shutter	Iris	AGC
Day(OFF)	Adjustable	Adjustable	Adjustable
Auto	Auto Mode	Keep the Day status value (No change allowed)	Keep the Day status value (No change allowed)
Night(ON)	Auto Mode	Keep the Day status value (No change allowed)	Keep the Day status value (No change allowed)

The relationship between AE Mode and D&N Mode is described below.

AE D&N	AUTO	Manual
Day(OFF)	Slow Shutter Mode available	Slow Shutter Mode not available
Auto	Automatic D&N switching available	Automatic D&N switching not available



Back Light Ctrl

· BLC Mode

Use when the difference between light levels at the center of the screen and the edge of the screen is great – for example when there is backlight.

ON activates the Backlight function and OFF deactivates it. The default is OFF.

 $\cdot \text{ Area Mode}$

Set the area for backlight compensation. The default is Center.

- Center : compensates for backlight in the center area of the screen.
- Upper : compensates for backlight in the upper area of the screen.
- Lower : compensates for backlight in the lower area of the screen.
- Left : compensates for backlight in the left area of the screen.
- Right : compensates for backlight in the right area of the screen.



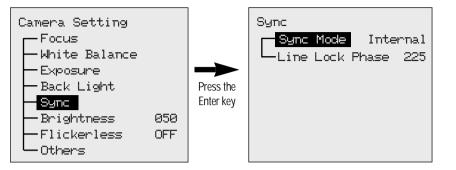
• Weight

Set the level of backlight compensation. The default is High.

- Low : slightly improves the backlight compensation.
- High : substantially improves the backlight compensation.

Sector Note

• The Area and Weight set by BLC Mode are only effective only when a camera is not moving. When the camera is rotating, as with Preset/Group/Tour/Trace, the camera works with the Area on Center and the Weight on High.



Sync

Selects Internal synchronization/Line Lock. The default is Internal synchronization.

- · Internal : Internal sync method
- Line Lock : The internal sync method is the power-frequency synchronization method. The power phases of several units can be adjusted.
- \cdot Line Lock Phase : With the Line Lock, the phase can be adjusted from 0° to 360°. The default is 225°.

* For Internal, the Line Lock Phase cannot be adjusted.

Brightness

Sets video signal brightness on the screen.

Flickerless

Flickerless Mode

Sets the Flickerless Mode ON or OFF. Fluorescent tube flicker is eliminated.

Solution Note

· D/N Mode is not activated when the Flickerless mode is ON.

Others

Sharpness

Highlights image contour by increasing the Aperture Gain of the camera.

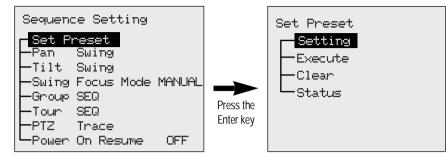
Mirror

Reverses the video output signal from left to right and vice versa

③ Nega/Posi

The video output signal is changed to positive or negative.

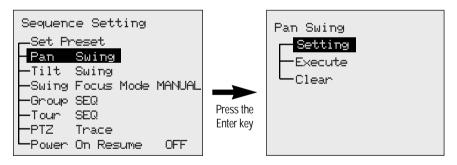
2) Sequence Setting



1 Set Preset

When users set their own chosen PAN/TILT positions or ZOOM and FOCUS, they can call frequently and monitor the status. Up to 128 positions can be preset. (1~128)

- Setting : Select the preset No. to set, adjust the PAN/TILT/ZOOM and press Enter.
- Execute : Select the preset No. to run, and the relevant camera starts running.
- Clear : Select the preset No. to clear, and the relevant setting is deleted.
- Status : Displays the current preset No.



2 Pan Swing

Activates and sets Swing monitoring in the Pan direction and deletes data

- Setting : Selects the preset swing position with the joystick and sets the position with the Enter key.
 - SPD is the speed the camera moves.(001~240°/sec)
 - DWL is the dwell time for the camera.(1~128sec)
 - Completes the setting by pressing the Enter key on the selected position.
- · Execute: Starts swing monitoring.
 - Stops it with the Stop key.
- Clear : Deletes the swing data

Sequence Setting Tilt Swing -Set Preset Setting -Pan Swing Execute Tilt Swing -Clear -Swing Focus Mode MANUAL Press the Enter key -Group SEQ -Tour SEQ -PTZ Trace -Power On Resume OFF

③ Tilt Swing

Activates and sets Swing monitoring in the Tilt direction and deletes data

\cdot Setting

SSelects the preset swing position with the joystick and sets the position with the Enter key.

SPD is the speed with which the camera moves.(001~240°/sec)

DWL is the dwell time for the camera.(1~128sec)

Completes the setting by pressing the Enter key on the selected position.

\cdot Execute

Starts swing monitoring.

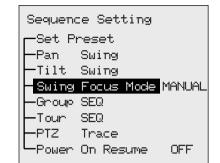
Stops it with the Stop key.

Clear

Deletes the swing data

Notes

 For 0° Till in Wide mode, about a third of the object does not appear on the screen. Some objects may appear whiter than the actual colors as a result of the AGC effect.

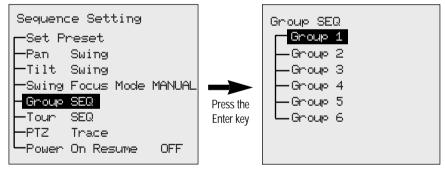


④ Swing Focus Mode

This mode is for activating the Auto Focus during continuous operation of Pan or Tilt Swing. Note) Excessively fast Pan or Tilt Swing may disrupt the Auto Focus.

· AUTO/MANUAL

AUTO activates the Auto Focus.



(5) Group SEQ

Starts and sets Sequence monitoring and deletes the data. Registers up to 6 groups.

· Setting

Select the Preset Position to monitor using the joystick, and set the position using the Enter Key. SPD is the speed with which the camera moves. (001~240°/sec)

DWL is the dwell time for the camera. (1~128sec)

Completes the setting by pressing the Enter key on the selected position.

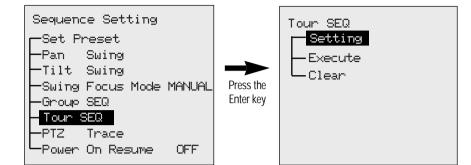
• Execute

Starts Group monitoring.

Stops it with the Stop key.

Clear

Deletes the group data.



6 Tour

Starts and sets Group monitoring and deletes the data.

Setting

Selects the procedure for the registered Group Sequence with the joystick and sets it with the Enter key.

If an unregistered number is designated, the number cannot be entered.

Completes the setting by pressing the Enter key on the selected position.

SPD is the speed the camera moves. (001~240°/sec)

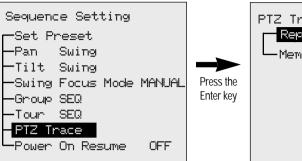
DWL is the dwell time for the camera.(1~128 sec)

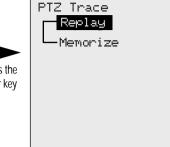
Execute

Starts Group monitoring.

Clear

Deletes the Group monitoring data.





⑦ PTZ Trace

Memorizes and plays the manual control routes (Pan, Tilt, Zoom and Focus)

Replay

Repeatedly plays the manual control routes

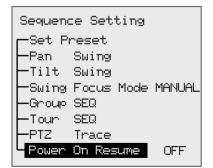
Stops it with the Stop key.

* If the control range is restricted to ① Pan Limit and ② Tilt Limit, the operation is not allowed beyond the controlled range. Exercise caution.

Memorize

While the manual setting is memorized in the internal memory for at least 120 seconds after this function is activated, the memory time varies depending on the PTZ operation.

- OVER means that the Memorize function is ended.
- * When the control range is restricted to ① Pan Limit and ② Tilt Limit, it is memorized.

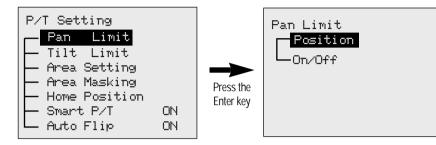


(8) Power On Resume

When the power supply is resumed after suspension due to power failure, the Sequence operation set before the power failure is maintained.

3) P/T Setting

P/T Setting Menu



1) Pan Limit

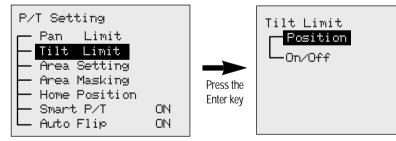
Limits the range of movement in the PAN direction

Position

Sets the range of movement. Determines the position measured from the left using the joystick and the Enter key. The end position can be changed to the initial operation when power is resumed, depending on the setting position. This represents normal operation.

• ON/OFF

Limit starts working when ON is selected.



② Tilt Limit

Limits the range of movement in the Tilt direction.

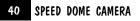
Position

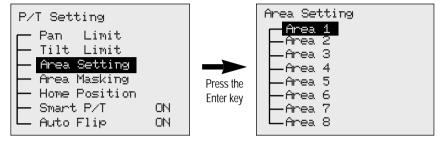
Sets the range of movement. Determines the position measured from above using the joystick and the Enter key. The end position can be changed to the initial operation when power is resumed depending on the setting position. It is the normal operation.

• ON/OFF

Limit starts working when ON is selected.







③ Area setting

Indicates the zone. Sets up to 8 areas.

• Area Name

Sets the area names. Up to 12 characters (English, Chinese, Numbers, etc.) can be entered using the joystick and the Enter key. After input, put the area marks to SET using the joystick and press the Enter key. The setting is then completed.

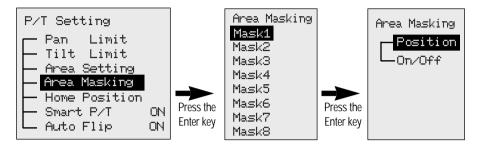
Position

Sets the range of an area. Determines the position measured from the left using the joystick and the Enter key. When the range of an area is overlapped, the area with the lower number indicates the overlapped area.

• ON/OFF

Sets the area display On or Off. This setting is valid from when a camera moves from the current area to another area.

Set the OSD Setting ON. When the OSD Setting is OFF, this function doesn't work. The default is OFF.



Area Masking

The area to be excluded from the monitoring operation is displayed in white. Up to 8 areas can be set to be in white.

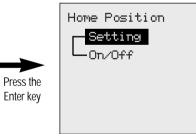
Position

Select the scope of the display using the joystick and Enter Key.

• ON/OFF

Sets the area display function On or Off.





(5) Home position

If any motion is detected within a certain period, the camera moves to the preset position.

Setting

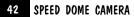
Sets the preset position number to which a camera moves, and when it moves.

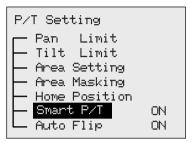
Preset Position : 01 ~ 128

Time: 00~60 Min. (00 means 30 seconds)

ON/OFF

Sets the activation of this function.





6 Smart P/T

Changes the speed of PAN and TILT according to the zoom factor. In Tele, Pan/Tilt becomes slow. In Wide, Pan/Tilt becomes fast. One rotation in Tele and Wide takes about 15 seconds and 3 seconds respectively.



⑦ Auto Flip

When Tilt is set to the 90° Limit using the joystick, and the setting is kept for a certain period, the Auto Flip function makes PAN automatically rotate 180° and enables the Tilt area to be seen on the opposite side of the screen.

With this function, the Tilt range is extended to 180°. For monitoring a moving object under a camera, activate Auto Flip using the controller joystick, and you can monitor the object without the screen turning upside down or reversing left to right.

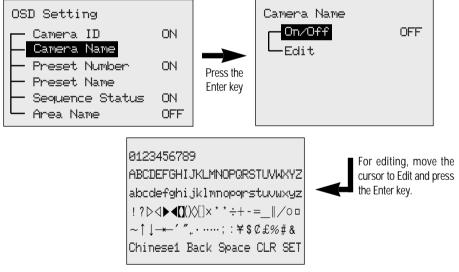
4) OSD Setting

OSD Setting Menu

OSD Setting	
Camera ID	ON
— Camera Name	
- Preset Number	ON
- Preset Name	
- Sequence Status	ON
🖵 Area Name	OFF

Camera ID

Sets the camera ID display.



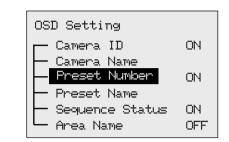
② Camera Name

• Edit

Sets the camera names using up to 12 characters in English (or Chinese), numbers and special characters.

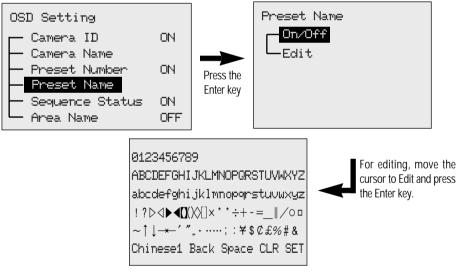
• On/Off

Set whether to display a camera name.



3 Preset Number

Sets the preset numbers.

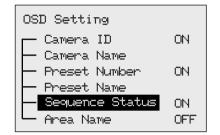


Preset Name

• Edit

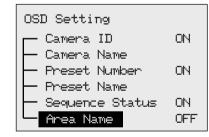
Sets the preset names using up to 12 characters in English (or Chinese), numbers and special characters.

 On/Off Set whether to display a preset name.



(5) Sequence Status

Sets the sequence groups

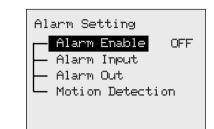


6 Area Name

Sets the area names

* With the area name off, the area can' t be displayed.

5) Alarm Setting Alarm Setting Menu

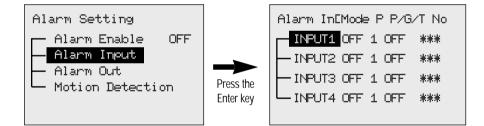


1 Alarm Enable

To determine whether to activate the alarm, set to Alarm Enable.

• ON/OFF

The alarm is activated with ON.



② Alarm Input

Sets the Alarm Input Mode, Priority and Alarm Activation Method

· NC/NO/OFF

Selects NC, NO or OFF depending on the alarm sensor types.

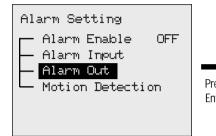
· 1~4 (Priority)

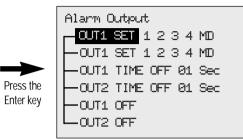
Sets the priority of four alarm inputs and reacts to the alarm input in accordance with the priority.

Preset/Group/Tour Number

Sets the Preset, Group or Tour for reaction to the alarm input.

In case of alarm, moves to the Preset/Group/Tour/Off corresponding to each alarm. If there are several alarms in sequence, stays in the Preset/Group/ Tour position during the Dwell Time according to the input sequence. The pattern- linked alarm then carries out the relevant pattern motion in sequence.





(3) Alarm Out

Matches each alarm input to one of two Alarm Outs

OUT1 SET/OUT2 SET

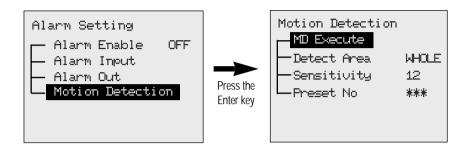
Matches two alarm outputs to one of four alarm inputs and MD.

• OUT1 TIME/OUT2 TIME

Sets the ON/OFF and operating time in units of seconds, minutes or hours for two alarm outputs. (1~59 sec., 1~59 min., 1~59 hours)

OUT1 OFF/OUT2 OFF

When each alarm output is activated, select this function to forcibly release the alarm outputs. The alarm output is then deactivated.



(4) Motion Detection

Motion Detection sets the motion detection function, areas to detect motion, and sensitivity of motion detection. With Motion Detection on, the movements of an intruder can be detected. When motion is detected, an alarm signal is sent to the Alarm Out.

- MD Execute
- With Motion Detection On, moves to the preset position and then to On.
- Detect Area
- Sets the area to detect.
- Whole : Detects motion on the whole screen.
- Upper : Detects motion on the upper side of the screen
- Lower : Detects motion on the lower side of the screen
- Center : Detects motion on the center of the screen

WHOLE		UPPER

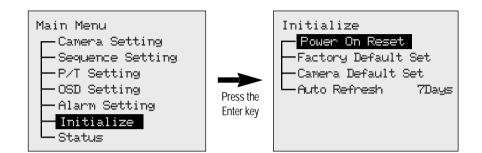
CENTER

LOWER	

Sensitivity

Sets the detection sensitivity. The higher the number, the smaller the motion the sensor reacts to. Preset No

Sets the preset number to which to move a camera when motion is detected.



6) Initialize Setting

1 Power On Reset

· Initialize a camera to the status prior to power supply

② Factory Default Set

 Initialize to the factory default. Data such as preset is deleted. This function is used to initialize a variety of settings. However, the digital zoom factor is not changed.

③ Camera Default Set

• When a single camera module is replaced due to a defect only in that camera, Camera Default Set is used to set the replacement camera module to the setting of the previous camera.

④ Auto Refresh

 Optimize the built- in electrical circuit and the status of fixtures and devices in a camera at a pre-determined interval (operating intervals can be set).

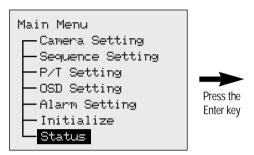
This is used for keeping, maintaining and correcting the camera settings when a camera directly faces a specific light source, or the setting is not preserved because the camera has been rotating left, right, up and down in a specific area for a long time.

- The default is 7 Days.
- OFF, 1~7Days

Auto Refresh won't run when OFF is selected. Select between 1~7 Days, and Auto Refresh will run at the selected intervals.

Auto Refresh takes less than about 10 seconds.

The message "Auto Refresh" disappears when the operation is completed.



Cam Model =22NC Cam Version=03.05 Dome Version=01.00 Con Protocol=SAMSUNG Dome ID=001 Come Mode=DUPLEX Factory Set=ON

7) Status

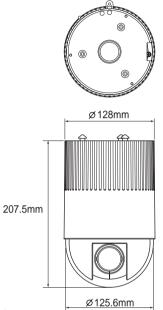
Displays the dome camera setting.

Mounted Camera Model
Mounted Camera S/W Version
Control Board S/W Version
Setting Protocol
Dome Camera ID
Communication Mode Setting Status

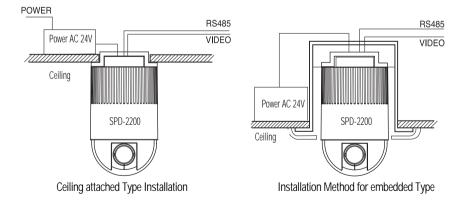
Product Appearance and Installation Method

System configuration

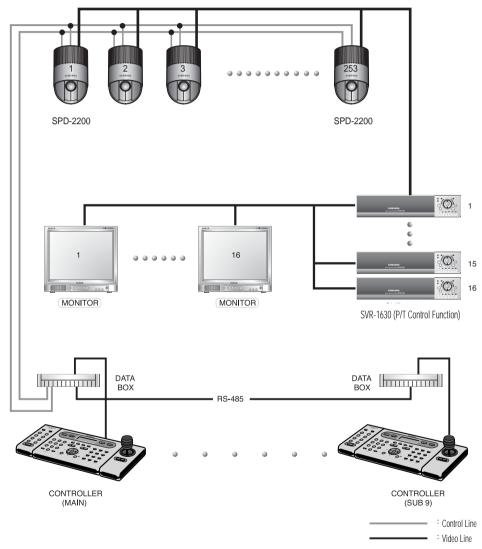
• Dimension



Installation Method



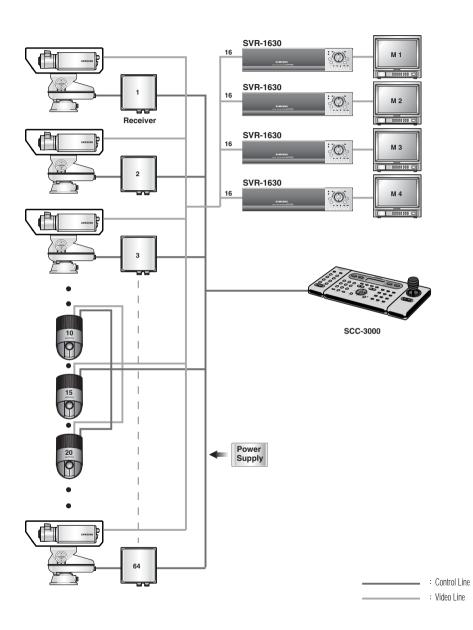
** Other Installation Methods : You can use the camera in a variety of circumstances with accessories for outdoor installation that you need to purchase separately. (See Page 17 and 20 for the accessories that you can purchase)



52 SPEED DOME CAMERA

System configuration





Item	NTSC	PAL
Image Sensor	1/4-inch Color Interline-Transfer CCD. 410.000pixel	
ТV Туре	NTSC Type	PAL Type
Total Pixels	811(V) × 508(H)	795(V) × 596(H)
Effective Pixels	768(V) × 494(H)	752(V) × 582(H)
Horizontal Scanning Frequency	15.734kHz	15.625kHz
Vertical Scanning Frequency	59.94kHz	50.00kHz
Synchronization	Internal/External (AC Line Lock)	
Video Output	1.0p-p/75 Ω	
S/N Ratio	More than 48dB (AGC OFF)	
Horizontal Resolution	480TV lines	460TV lines
Minimum Illumination	2.0Lux(Normal)/(@30IRE), 0.3Lux(Day & Night Mode)/(@30IRE)	
	0.03Lux(Slow-Shutter Mode)/(@30IRE)	
Electronic Shutter	Auto/Manual (1/60 ~ 1/10,000)	Auto/Manual (1/50 ~ 1/10,000)
Slow-Shutter	ON(x2-x128Fields) /OFF	
Backlight Compensation	ON/OFF	
White Balance	Auto/AWC/Manual/Outdoor/Indoor	
Flickerless control	Shutter speed fixed (1/100)	Shutter speed fixed (1/120)
Iris	Auto/Manual (Iris fix mode)	
Gain control	Auto/Manual	
OSD Display	ON/OFF	
Aperture Compensation	Level Controllable	
Focal Length	3.9 ~ 85.8mm (Optic zoom 22x)	
Digital Zoom	10x (Total 220x Zoom)	
Max. Focal Ratio	Wide 1:1.6 Tele 1:3.7	
Covering Angle	f=3.9mm 51.26° (H) × 39.03° (V)f=85.8.mm 2.39° (H) × 1.80° (V)	
Min. Focus Distance	1.0m (Tele)~0.01m (Wide)	
Pan Rotation Angle	360° Continuous	
Pan Rotation	Manual/Program	
Pan Speed	Manual : 0.5°/S~120°/s (64 levels) Preset : 0.5°/s~240°/s (64 levels)	

Specifications

Item	NTSC PAL	
Pan Resolution	0.05°	
Pan Rotation Stop Accuracy	0.30°	
Tilt Rotation Angle	+0° ~ 90° (Auto Flip to 180° available by Controller)	
Tilt Rotation	Manual/Program	
Tilt Speed	Manual : 0.5° /s~120° /s(64 levels) Preset : 0.5° /s~240° /s(64 levels)	
Tilt Resolution	0.04°	
Tilt Rotation Stop Accuracy	0.30°	
Preset Position	Max.128 points	
Area Masking	8points	
Alarm	Alarm 4 Input	
	Alarm 2 OUT(Relay : NC/NO/COM,0.5A 125VAC,2A 30VDC Max)	
Operating Temperature	0°C ~ +50°C	
Operating Humidity	20% ~ 75% (No Condensation)	
Storage Temperature	-20°C ~ +60°C	
Storage Humidity	20% ~ 95% (No Condensation)	
Power Source, Voltage	AC 24V±10%	
Power Consumption	8 Watts in standby, 13 Watts in operation	
Dimensions	∲ 128 × 207.5mm	
Weight	Approx. 1.8kg	
Environment	Indoor : Indoor Housing (STH-160PI), Indoor embedded Housing (STH-128PE)	
	Outdoor : Outdoor Housing (STH-160PO)	
	Wall Mount : STB-270PW	
	Ceiling Mount : STB-496PP	

* External Design and specification are subject to change without notice for improvement of product performance.

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