# SIPSD37X & HTSD37X

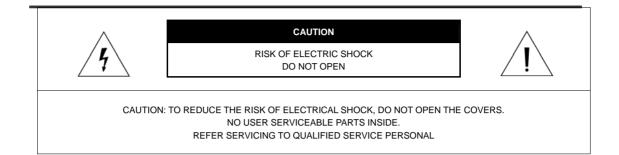
37X Optical Indoor / Outdoor Speed Dome Cameras



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This lightning flash with arrowhead symbol is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This exclamation point symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



This Device compiles with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interface, and

(2) This device must accept any interference received, including interference that may cause undesired operations.

### **Important Safety Guide**

- 1. Read and follow all the Instructions Read all the safety and operating instructions before using the product.
- 2. Keep this manual Keep this manual for reference in future.
- 3. Attachments / Accessories Use only the attachments or accessories specified by the manufacturer.
- 4. Installation
  - Do not install near any heat sources such as radiators, heat registers, stoves, or other appratus including amplifiers that product heat.
  - Improperly installed product may fall, cause serious injury to a child or adult and damage the product.
  - Do not block any ventilation holes or openings. Install in accordance with the manufacturer's instructions.
  - Use only with the cart, stand, tripod, bracket, mounting devices, or table specified by the manufacturer.
  - Installation should be done only by qualified personnel and conform to all the instructions by the manufacturer.
  - Refer all servicing to qualified service personnel.
  - Use stainless steel hardware to fasten the mount.
  - To prevent damage from water leakage when installing a mount outdoors on a roof or wall, apply sealant properly around holes.
  - These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other that contained in the operationg instructions unless you are qualified to do so.
  - Use only replacement parts specified by the manufacturer.

#### 5. Power source

This product should be operated only from the type of the power source indicated on the marking label.

# Caution

#### □ Operating

- Before using, make sure that the power supply is properly installed.
- While operating, if any abnormal condition or malfunction is observed, stop using the product immediately and then contact your local dealer.

#### □ Handling

- Do not disassemble or tamper with the parts inside the product.
- Do not drop or subject the product to shock and vibration as this can damage the product.
- Care must be taken when you clean the clear dome cover. Especially, scratch and dust will ruin the quality of the product.

#### Installation and Storage

- Do not install the product in areas of extreme temperature, which exceed the allowable range.
- Avoid installing in places where radiation is present.
- Avoid installing in places where there are strong magnetic fields and electric signals.
- Avoid installing in places where the product would be subject to strong vibrations.

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37X Speed Dome Camera

**INTRODUCTION 1** 

#### Features

#### Powerful Zoom Camera & Setup Options

- Image Sensor: Sony 1/4" Double density interline transfer CCD
- Zoom: 37X Optical Zoom, 12X Digital Zoom
- Day & Night, Privacy Mask and WDR
- SNR (Super Noise Reduction) Function
- Various Focus Modes: Auto-Focus, Manual Focus, Semi-Auto Focus
- Various Setup Options in OSD Menu.

#### Powerful Pan/Tilt Functions

- MAX. 360°/sec High Speed Pan/Tilt Motion
- With the Vector Drive Technology, Pan/Tilt motions are accomplished along the shortest path. As a result, the time to target view is remarkably shortened and the video on the monitor is very natural.
- With the Micro-Stepping Control Technology, the video looks very natural at high zoom magnification during a jog operation on a controller since the camera can be controlled by 0.05°/sec. Hence it is very easy to make the camera focus on desired target views at high zoom magnification. Additionally it is easy to make the camera focus on desired positions with zoom-proportional pan/tilt movement.

#### Dereset, Pattern, Swing, Group, Privacy Mask and More...

• MAX. 127 Presets are programmable and each preset can have its own parameter values independently from the other presets.

Preset No.	White Balance	Auto Exposure	•••	Label	Remarks
Preset 1	Case A	Case 3		"ENTRANCE"	
Preset 2	Case C	Case 5		"WAREHOUSE"	
•••					
Preset 95	_	_	_	_	Reserved for OSD Menu
•••					
Preset 128	Case K	Case 9		"TERRACE"	

For an example, refer to the below table.

- MAX. 8 sets of Swing are programmable. This function is that the camera moves repetitively between two preset positions at programmed speeds.
- MAX. 4 Patterns are programmable. This function is that the camera memorizes the path (mostly curve path) by the joystick of the controller and revives the trajectory operated by the joystick as closely as possible.
- MAX. 8 sets of Group are programmable. This function is that the camera memorizes the combination of Presets, Pattern and/or Swings sequently and runs Presets, Pattern and/or Swings repetitively. A Group can be combined upto 20 functions with any of Preset/Pattern/Swing.
- MAX. 8 or 4 Privacy Masks are programmable, not to intrude on any other's privacy.

#### PTZ(Pan/Tilt/Zoom) Control

- With the RS-485 communication connection, MAX. 255 units of cameras can be connected to a single controller.
- Pelco-D or Pelco-P protocols can be selected as a control protocol in the current firmware version.

#### **OSD(On Screen Display) Menu**

- OSD menu is provided to display the status of camera and to configure the functions interactively.
- The information such as Camera ID, Pan/Tilt Angle, Direction, Alarm Input and Preset is displayed on screen.

#### Alarm In/Out Function(Only for the models which have I/O function)

- 3 alarm sensor inputs and 1 alarm sensor outputs are available.
- Alarm sensor input is decoupled with photo-couplers to avoid external electric noise and shock perfectly.
- Both of N.O.(Normal Open) sensors and N.C.(Normal Close) sensors can be used and the signal range of the sensor input is from DC 5.0V to 12.0V for various applications.
- The camera can be set to move to a Preset position or to run functions such as Pattern, Swing and Group when there are external sensor activations. Also "Post Alarm" function is possible, which is supposed to activate after user-defined time period and sequentially in succession to the action by external sensor activations.

#### **Reserved Presets(Hot Keys)**

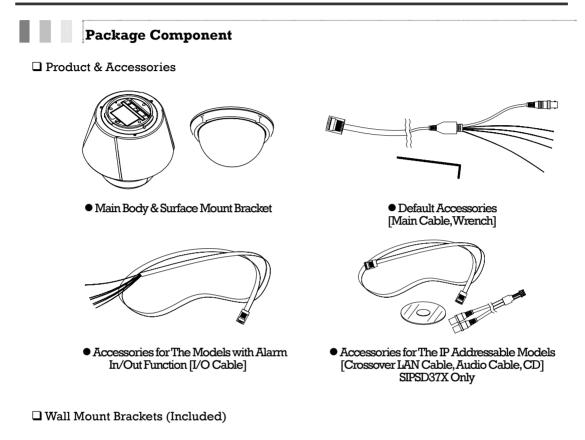
• Most camera setup options can be set up easily and directly with the reserved presets (Hot Keys), without entering into OSD menu. For more information, refer to "Reserved Presets(Hot Keys)" in this manual.

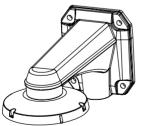
#### □ Network Function(Only for the SIPSD37X)

• Network functions including remote monitoring, bidirectional audio and others are available through IP based network such as LAN, ADSL/VDSL, and Wireless LAN. For more information, refer to the separated manual for IP Addressable models.

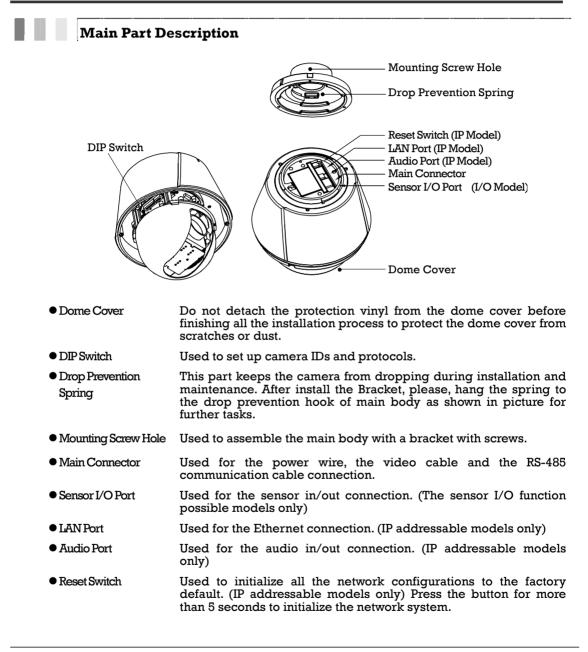
#### **D** Perfect Outdoor Environment Compatibility and Easy Installation

• The fans and heaters are built-in in the camera for cold and hot temperature environment. Also idealistic mechanical design protects the camera from water and dust. (IP67 when installed properly with wall mount bracket only / Only for outdoor models)





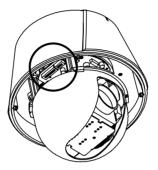
 $[\texttt{Screws:Machine M5}{\times}15,\texttt{Hex Lag \#}14{\times}50]$ 



37X Speed Dome Camera

# **DIP Switch Setup**

Before installing the camera, set up the DIP switch to configure the camera ID and the communication protocol.



#### Camera ID Setup

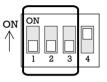
on ↑							7	
	1	z	3	4	5	6	1	8

• ID numbers of cameras are set up with binary numbers. See the examples shown below.

Pin	1	2	3	4	5	6	7	8
Binary Value	1	2	4	8	16	32	64	128
ex) ID=5 ex) ID=10	on off	off on	on off	off on	off off	off off	off off	off off

- The camera ID range is "1~255". <u>Camera ID must not be</u> <u>"0"!</u>
- The factory default of the camera ID is "1".
- Match the camera ID with the Cam ID setting of your DVR or Controller to control the camera.
- If you are connecting a single camera to a controller, terminate the camera. When connecting more than one camera to a single controller, terminate the last camera on the communication line. The last camera means the camera farthest in cable length from the controller.
- Note that the total length of the communication cable between a controller and the camera(s) on the same communication line must be less than 1.2Km.

#### Communication Protocol Setup



• Select an appropriate Protocol with the DIP switch combination.

Switch Mode			
P0 (Pin 1)	P1 (Pin 2)	P2 (Pin 3)	Protocol
OFF	OFF	OFF	PELCO-D, 2400 bps
ON	OFF	OFF	PELCO-D, 9600 bps
OFF	ON	OFF	PELCO-P, 4800 bps
ON	ON	OFF	PELCO-P, 9600 bps
Others			Reserved

- Match the camera protocol with the camera protocol in the setting of your DVR or controller to control the camera.
- Adjust the DIP switch after turning off the camera. If you changed the camera protocol by changing the DIP S/W, the change will be effective after you reboot the camera.
- The factory default protocol is "Pelco-D, 2400 bps". (HTSD37X)
- The factory default protocol is "Pelco-D, 9600 bps". (SIPSD37X)

#### Terminal Resistor Setup



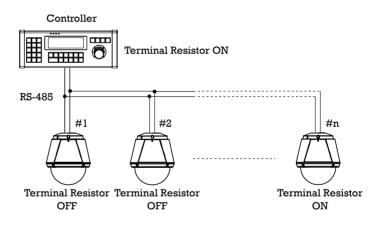
The terminal resistor is used for the following cases.

• Case 1 : In case that the control cable length between a camera and a controller is relatively very long (1:1 Connection)

If the communication cable length is very long, the electrical signal will bound in the terminal point. This reflected signal causes distortion of original signal. Accordingly, the camera can be out of control. In this case, the terminal resistor of both sides i.e. the camera and the controller must be set to 'ON' state.

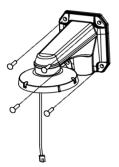
# • Case 2 : In case that multiple cameras are connected to a controller.

Due to similar reasons with the case 1, the terminal resister of the controller and the last camera must be set to 'ON' state. The last camera means the camera farthest in cable length from the controller. Do not turn on the terminal resistor of all the cameras on the same communication cable.



#### Installation with Wall Mount Bracket

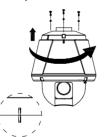
on the mounting surface to pass the wire(s) and cable(s) through the mounting surface. (In case of the wiring and cabling through the mounting surface only) Then prepare the wall mount bracket. Pull the wire(s) and cable(s) for the system as below. Attach the wall mount bracket to the mounting surface. (Hex Lag  $\#14 \times 50$ )



(1) Make a hole whose diameter is  $30 \sim 40$  mm (2) Hook up "Drop Prevention Spring" on main body to prevent camera from unexpected drop and pull the wire(s) and cable(s) for the system as below.



③ Line up the mold lines and assemble ④ Screw the dome cover to the main body main body to mount adaptor and turn it. And assemble the main both with the camera mount adaptor with the 3 screws. (Machine M5×15).



and remove the protection vinyl from the dome cover.

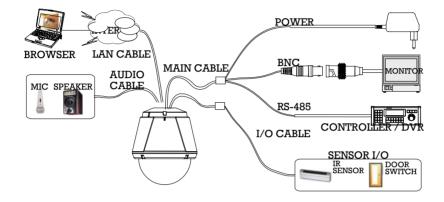


#### **Important Notice**

Before starting the installation, make sure that the Camera ID and Protocol are set up properly.

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# Wiring and Cabling



#### Port Description

• Main Cable

Port Pin Number (RJ45)	Connector / Wire Color	Signal
1	BNC Connector	Video +
2,4	bite connector	Video –
5	Red	RS-485 +
3	Yellow	RS-485 –
7	Orange	Power +
6,8	White	Power –

#### • I/O Cable

Port Pin Number (RJ25)	Wire Color	Signal
1	Blue	IN COM +
2	Yellow	IN 1 –
3	Green	IN 2 –
4	Red	IN 3 –
5	Black	OUT A
6	White	OUT B

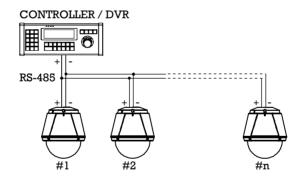
#### Power Description

• Carefully check the voltage and current capacity of the rated power. The rated power is indicated in the back of main unit.

24VAC is used on the HTSD37X (AC 17V~29V, 1.5A)

12VDC is used on the SIPSD37X (DC11V~18V, 3.0A)

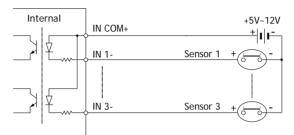
- For the DC input models, be careful with the polarity of DC power. The system should be permanentally damaged by wrong DC input.
- In case that the length of the power wire is very long, there may be voltage drop and the syatem may not work properly. Make the length of the power wire as short as possible.
- □ RS-485 Communication (HTSD37X ONLY)
  - For PTZ control, connect the cable(s) to your keyboard or DVR. To connect multiple cameras to a single controller, RS-485 communication should be connected in parallel as shown below. If you are connecting a single camera to a controller, terminate the camera. When connecting more than one camera to a single controller, terminate the last camera on the communication line. The last camera means the camera farthest in cable length from the controller. Note that the total length of the communication cable between a controller and the camera(s) on the same communication line must be less than 1.2Km.



#### UVideo

Use BNC coaxial cable only.

#### 🛛 Alarm Input



Before connecting sensors, check driving voltages and output signal types of the sensors. Since output signal types of the sensors are divided into Open Collector type and Voltage Output type in general, the wiring must be done properly after considering those types.

Signal	Description
IN COM+	The electric power source to drive input circuit. Connect the (+) wire of electric power source to drive the Sensors to this port as shown in the above circuit.
IN1 -, IN2 -, IN3 -	Connect the outputs of sensors to each port as shown in the above circuit.

If you want to use Alarm Input, the types of sensors must be selected in OSD menu. The sensor types are divided into Normal Open and Normal Close. If wrong sensor types are selected, alarms should be activated reversely to sensor inputs.

⊙ Normal Open	Output Voltage is high state when sensor is activated	
$\odot$ Normal Close	Output Voltage is high state when sensor is not activated	

#### Relay Output



The maximum loads are as follows.

Power Type	DC Power	AC Power
Maximum Load	MAX. 24VDC, 1A	MAX. 125VAC, 0.5A

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# Check Points before Operation

- Before turning on the system, check if the wire(s) and cable(s) are connected properly.
- Check if the camera ID on the controller is properly selected. The camera ID must be identical to that of the target camera. The camera ID can be checked by reading the DIP switch of the camera or on OSD.
- If your controller supports multi-protocols, the protocol must be changed to match to that of the camera.
- Adjust the DIP switch after turning off the camera. If you changed the camera protocol by changing the DIP S/W, the change will be effective after you reboot the camera.
- Since the operation method can be different by controllers, refer to your controller manual if the camera can not be controlled properly. The operation of this manual is based on the standard Pelco® Controller.

#### **Check Points for Preset and Pattern Function before Operation**

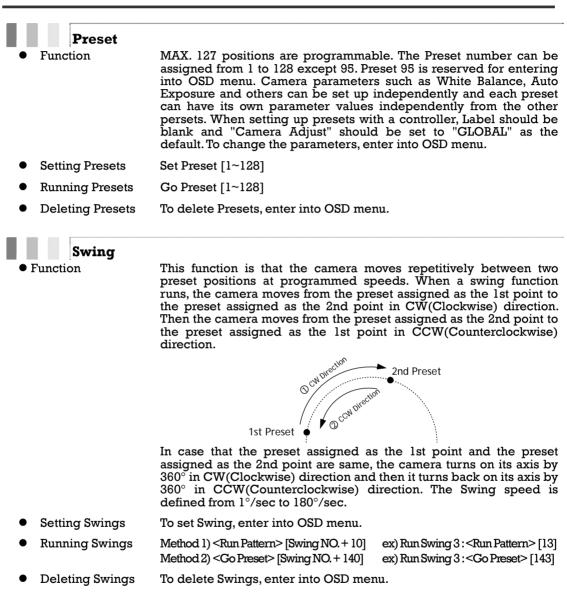
- Check fully how to operate preset function and pattern function with your controller or DVR in advance to operate the camera functions when using a controller or a DVR.
- Refer to the following table when using standard Pelco® protocol controllers.

< Go Preset >	Input [Preset Number] and press [Preset] button shortly.	
< Set Preset >	Input [Preset Number] and keep pressing [Preset] button for more than 2 seconds.	
< Run Pattern >	Input [Pattern Number] and press [Pattern] button shortly.	
< Set Pattern >	Input [Pattern Number] and keep pressing [Pattern] button for more than 2 seconds.	

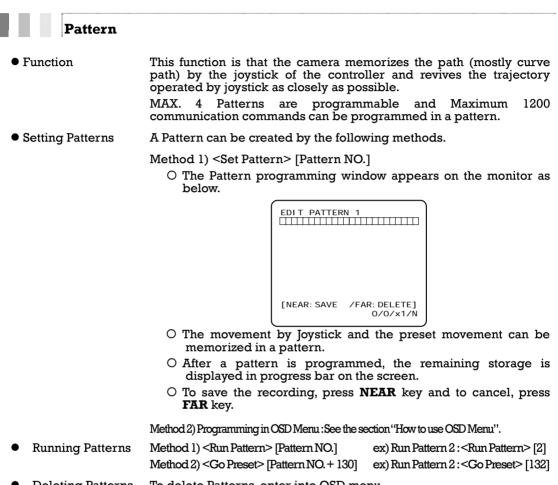
• If your controller or DVR has no pattern button or function, use the Hot Keys with preset numbers. For more information, refer to "Reserved Presets(Hot Keys)" in this manual.

OSDI	Menu	
• Function	With OS applicati	D menu, the system can be properly configured for each ion.
• Entering into	o OSD Go Prese	et [95]
Reser	ved Presets (Hot	Keys)
Description	•	rs are reserved to change some parameters without entering
<ul> <li>Hot Keys</li> </ul>	Go Preset [95]	:Entering into OSD menu
	Go Preset [131~134]	: Running Pattern Function $1 \sim 4$
	Go Preset [141~148]	:Running Swing Function 1~8
	Go Preset [151~158]	:Running Group Function 1~8
	GoPreset [161]	:Turning off Relay Output
	Set Preset [161]	:Turning on Relay Output
	GoPreset [167]	:Setting Zoom Proportional Function to ON
	Set Preset [167]	:Setting Zoom Proportional Function to OFF
	Go Preset [170]	:Setting Camera BLC/WDR Mode to OFF
	Go Preset [171]	:Setting Camera BLC/WDR Mode to ON
	GoPreset [174]	:Setting Camera Focus Mode to AUTO
	Go Preset [175]	:Setting Camera Focus Mode to Manual
	GoPreset [176]	:Setting Camera Focus Mode to SEMI-AUTO
	GoPreset [177]	:Setting Day & Night Mode to AUTO
	Go Preset [178]	:Setting Day & Night Mode to NIGHT
	GoPreset [179]	:Setting Day & Night Mode to DAY
	GoPreset [190]	:Setting OSD Display Mode to AUTO (Except Privacy Mask)
	Go Preset [191]	:Setting OSD Display Mode to OFF (Except Privacy Mask)
	Go Preset [192]	:Setting OSD Display Mode to ON (Except Privacy Mask)
	Go Preset [193]	:Setting all Privacy Mask Display to OFF
	Go Preset [194]	:Setting all Privacy Mask Display to ON

**OPERATION 3** 



37X Speed Dome Camera

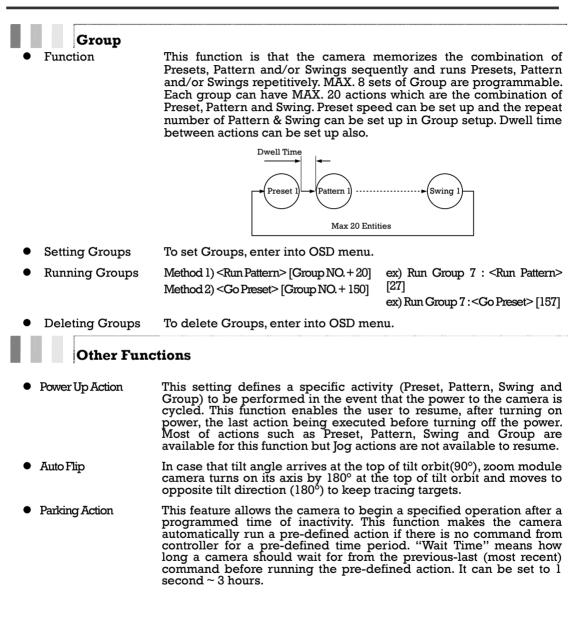


• Deleting Patterns To delete Patterns, enter into OSD menu.

Note) When the system memorizes Patterns, the commands are stored in the momories, not the positions of Pan/Tilt/Zoom. Hence there might be small differences between the original path and the revived path by path type of Patterns. Note that it is not a problem in position precision.

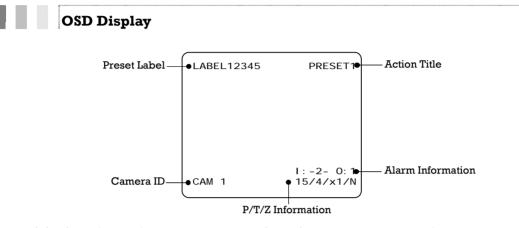
37X Speed Dome Camera

**OPERATION 3** 



37X Speed Dome Camera

- Alarm Input 3 Alarm Inputs are available. When external sensors activate, the camera runs pre-defined actions such as Preset, Pattern, Swing and Group. After the pre-defined time period passed, "Post Alarm" activates, which is pre-defined. Note that only the latest alarm input is effective when multiple sensors are activated at the same time.
- Privacy Zone Mask Privacy Zone Mask allows the user to program 8(or 4) rectangulars that can not be viewed by the operator of the system. To protect others' privacy, MAX. 8(or 4) Privacy Masks can be created on the arbitrary position to hide objects such as windows, shops or private house. With the Spherical Coordinates system, powerful Privacy Zone Mask function is possible. A mask area will move with pan and tilt functions and automatically adjust in size as the lens zooms telephoto and wide.
- GLOBAL/LOCAL Image Setup WB(White Balance) and AE(Auto Exposure) can be set up independently for each preset. There are 2 modes, "Global" mode & "Local" mode. The Global mode is that WB and/or AE are/is set up totally and simultaneously for all presets. The Global parameter setup such as WB and AE can be done in "ZOOM CAMERA SETUP" menu. The Local mode is that WB and/or AE are/is set up independently or separately for each preset. The Local parameter setup for WB and AE can be done in each preset setup menu. Each Local parameter such as WB and AE activates correspondingly when the camera arrives at each preset position. During jog operation, Global WB/AE value should be applied. All Local WB/AE values do not change although Global WB/AE value changes. The Local mode has the prior to the Global mode.
- Semi-Auto Focus This mode automatically exchanges focus modes between Manual Focus mode and Auto Focus mode by operation. Manual Focus mode activates in preset operation and Auto Focus mode activates during jog operation. With Manual mode at presets, Focus data is memorized in each preset in advance and the camera calls focus data in correspondence with presets as soon as the camera arrives at presets. It should shorten time to get focuses. The focus mode automatically changes to Auto Focus mode when jog operation starts.

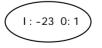


- P/T/Z Information Displays the amount of pan from zero degree vertical, the amount of tilt from zero degree horizontal and current compass direction. Also identifies the amount of the zoom magnification.
- Camera ID Displays the selected Camera ID (Address).
- ActionTitle Identifies Actions

"SET PRESET xxx"When Preset xxx is memorized."PRESET xxx"When the camera reaches Preset xxx."PATTERN x"When Pattern x is in action."SWG\*/PRESET xxx"When Swing x is in action. Displays both of Swing number and Preset number."UNDEFINED"When a undefined function is called to run

- Preset Label Displays preset labels when the camera arrives at presets.
- Alarm Information Displays activated alarms. This information shows current state of Alarm Inputs and Relay Outputs. If an Input point is ON state, it will show a number corresponding to each point. If an Input point is OFF state, '-' will be displayed.
   Example) The point 2 & 3 of inputs are ON and Output is ON, OSD will

Example) The point 2 & 3 of inputs are **ON** and Output is **ON**, OSD will show as below.



37X Speed Dome Camera

# Quick Programming Guide

- The menu items with < > always have sub-menus.
- To go to submenus or make the cursor move to the right, press NEAR key.
- To go to the previous-upper level menus, press **FAR** key.
- To make a selection, press NEAR key
- To cancel a selection, press FAR key
- To move the cursor in the menu, use the joystick to the Up/Down direction or Left/Right direction.
- To change a value of an item, use **Up/Down** of the joystick in the controller.
- To save changes, press **NEAR** key.
- To cancel changes, press FAR key.

### Main Menu

SPEED DOME CAMERA → <system information=""> <display setup=""> <dome camera="" setup=""></dome></display></system>	• System Information	Displays the system information and configuration. The system setting can not be changed using the OSD menu and the information is for reference only.
<system initialize=""></system>	$\bullet$ Display Setup	Enables the user to program how labels are displayed on the monitor.
ΕΧΙΤ	<ul> <li>Dome Camera</li> <li>Setup</li> </ul>	Enables the user to configure various functions of the camera.
	• System Initialize	Initializes all system configurations and all data to the factory default

parameters.

#### **Display Setup** Display setup allows you to program how labels are DI SPLAY SETUP displayed on the monitor. In case of AUTO, the labels are \_ \_ \_ displayed on the monitor when there are any changes in →CAMERA ID ON PTZ INFORMATION AUTO parameters. ACTION TITLE AUTO Camera ID [ON/OFF] PRESET LABEL AUTO ALARM I/O AUTO Displays the selected Camera ID <SET NORTH DIRECTION> (Address). <PRI VACY ZONE> PTZ Information [ON/OFF/AUTO] BACK EXIT Displays the amount of pan from zero degree vertical, the amount of tilt from zero degree horizontal and current compass direction. Also identifies the amount of the zoom magnification. Action Title [ON/OFF/AUTO] Identfies Actions. "SET PRESET xxx" "PRESET xxx" "PATTERN x" "SWG/PRESET xxx" "UNDEFINED" Preset Label [ON/OFF/AUTO] Displays the preset labels when the camera arrives at presets. Alarm I/O [ON/OFF/AUTO] Displays the activated alarms. This information shows the current state of Alarm Inputs and Relay Outputs. If an Input point is **ON** state, it will show a number corresponding to each point. If an Input point is **OFF** state, '-' will be displayed. Example) The point 2 & 3 of inputs are **ON** and Output is **ON**, OSD will show as below. I: -23 0: 1

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#### Compass Direction Setup

SET NORTH DIRECTION
MOVE TO TARGET POSITION [NEAR: SAVE /FAR: CANCEL

Move the camera to a target position and press **NEAR** button to save the direction as North. The direction is the reference direction to assign other compass directions.

# Privacy Zone Mask Setup

PRIVACY ZONE	
→MASK NO	1
	UNDEFINED
DI SPLAY	OFF
CLEAR MASK	CANCEL
<edit mask=""></edit>	
BACK	
EXIT	

Privacy Zone Mask allows the user to program 8 rectangulars that can not be viewed by the operator of the system. To protect privacy, MAX. 8 Privacy Masks can be created on the arbitrary position to hide objects such as windows, shops or private house. With the Spherical Coordinates system, powerful Privacy Zone Mask function is possible. A mask area will move with pan and tilt functions and automatically adjust in size as the lens zooms telephoto and wide.

• Mask NO [1~8] or [1~4]

Selects a Mask number to program. If the selected mask has already data, the camera moves as it was programmed. Otherwise, "UNDEFINED" will be displayed under the Mask number.

• Display [ON/OFF] Sets if the mask of the selected mask number shows or not on the screen.

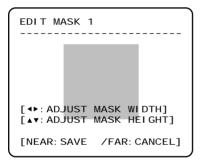
 Clear Mask [CANCEL/OK] Deletes the mask data of the selected mask number.

Privacy Zone Mask Area Setup

EDIT MASK 1
MOVE TO TARGET POSITION [NEAR: SELECT/FAR: CANCEL]

Move your camera to an area to mask. Then a mask and the menu to adjust the mask size will be displayed.

Privacy Zone Mask Size Setup



Adjusts the mask size. Use the joystick or the arrow buttons of your controller to adjust mask size.

- • (Left/Right) Adjusts the mask width.
- • (Up/Down) Adjusts the mask height.

### **Camera Setup**

SEMI AUTO

ON

OFF

16

ZOOM CAMERA SETUP

STABILIZATION OFF <WHITE BALANCE SETUP>

<AUTO EXPOSURE SETUP>

→FOCUS MODE

DIGITAL ZOOM

IMAGE FLIP

SHARPNESS

BACK

EXI T

• Focus Mode [AUTO/MANUAL/SEMIAUTO]

#### Sets camera Focus mode.

#### O SEMIAUTO Mode

This mode automatically exchanges focus modes between Manual Focus mode and Auto Focus mode by operation. Manual Focus mode activates in preset operation and Auto Focus mode activates during jog operation. With Manual mode at presets, Focus data is memorized in each preset in advance and the camera calls focus data in correspondence with presets as soon as camera arrives at presets. It should shorten time to get focuses. Focus mode automatically changes to Auto Focus mode when jog operation starts.

• Digital Zoom [ON/OFF]

Sets the digital zoom functions to ON/OFF. If this is set to OFF, the optical zoom function runs but the zoom function stops at the end of optical zoom magnification.

Image Flip [ON/OFF]

Sets System Image Flip Function to ON/OFF. When this function is set to ON, flipped images always come out. When the camera is installed as Desktop type, set to ON to get proper images.

#### • Sharpness [0-32] or [0~31] Sets image sharpness to enhance pictures.

• Stabilization [ON/OFF]

Compensates image vibrations by wind or others. The images with vibrations are compensated by Digital Zoom function and the image resolution with this function should be lower than normal image resolution when this function is turned on. Also this function may not work properly in the following cases.

- Dark scene or Low contrast scene
- High frequency vibration
- During Pan/Tilt/Zoom/Focus moving
- During Iris/Shutter/Gain moving

#### U White Balance Setup

WB SETUP - GLOBA	L	• WB Mode	[AUTO/MANUAL]
→WB MODE ●RED ADJUST ●BLUE ADJUST	AUTO  	feature automatically processes	temperature range. In auto mode, this feature automatically processes the viewed image. In Manual mode, Red and
BACK		● Red Adjust	[0-255] or [10~60] Adjusts the picture output in the red range.
		<ul> <li>Blue Adjust</li> </ul>	[0-255] or [10~60] Adjusts the picture output in the blue range.

#### Auto Exposure Setup

AE SETUP - GLOB	AL
→BACKLI GHT DAY/NI GHT	OFF AUTO
BRI GHTNESS	50
I RI S SHUTTER	AUTO ESC
AGC SSNR	MI DDLE MI DDLE
SENS-UP BACK	<auto></auto>
EXIT	

Backlight

#### [OFF/WDR/BLC/HLC] or [OFF/BLC/HLC] or [ON/OFF]

Sets Backlight Compensation. If a bright backlight is present, the subjects in the picture may appear dark or as a silhouette. Backlight compensation enhances objects in the center of the picture. The camera uses the center of the picture to adjust the iris. If there is a bright light source outside of this area, it will wash out to white. The camera will adjust the iris so that the object in the sensitive area is properly exposed.

Some modles has WDR(Wide Dynamic Range) function, which are better function than BLC. HLC(High Light Compensation) function removes the high light in a limited environment such as parking garage.

Day/Night [AUTO/DAY/NIGHT] or

[AUTO1/AUTO2/DAY/NIGHT]

Sets Day&Night mode.

There are 2 AUTO modes in  $\times 10$  model

# AUTO1 Mode : The sensitivity to change a mode is fixed.

# AUTO2 Mode : The sensitivity to change Night mode to Day mode is adjustable. The sensitivity range is 1~255. The higher numeric value is selected, the lower illumination Night mode changes to Day mode at. If this is set to AUTO2 mode, ACG is fixed to HIGH.

• Brightness [0~100] Adjusts the brightness of the image

Adjusts the brightness of the images. Iris, The Shutter Speed and Gain are adjusted automatically in correspondence with each numeric value.

IRIS	[AUTO/MANUAL(F1.6~F28)] or
	[AUTO/MANUAL(0~100)]
	Sets Iris to operate automatical

Sets Iris to operate automatically or at a userdefined level. If Iris is set to Auto, Iris has higher priority in adjusting AE and Shutter Speed is fixed. Auto iris is the lens function that automatically opens closes the iris in response to changing light conditions.

If Iris is set to Manual, Iris is fixed and Iris has lower priority in adjusting AE, in comparison with others.

• Shutter Speed [ESC/A.Flicker/Manual(256X~1/120000 sec)] or [ESC/A.Flicker/Manual(128X~1/120000 sec

> Sets Shutter Speed. Shutter Speed is the duration of the electronic shutter. If Iris is set to Manual and Shutter Speed is set to ESC, Shutter Speed has higher priority. If Shutter Speed is set to A.Flicker, to remove Flicker, Shutter Speed should be set to 1/100 sec. for NTSC and 1/120 for PAL.

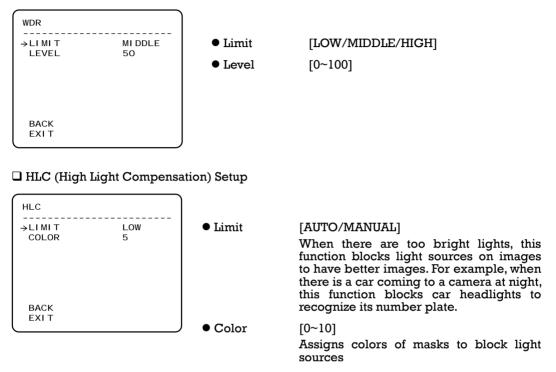
#### • AGC [OFF/LOW/MIDDLE/HIGH/MANUAL(5~41dB)] or [OFF/NORMAL/HIGH]

Sets AGC. This setting enhances image brightness automatically in case that luminance level of image signal is too low.

- SSNR [OFF/LOW/MIDDLE/HIGH] Sets SSNR. This setting enhances the images by deducting noises when the gain level of the mages is too high.
- SENS-UP [AUTO(2~256)/OFF] or [AUTO(2~128)/OFF] Sets SENS-UP. This setting activates Slow Shutter function when luminance of image (signal) is too dark.

It is possible to set up the maximum number of frames piled up one on another by Slow Shutter function.

#### UWDR (Wide Dynamic Range) Setup



# **Motion Setup**

#### MOTION SETUP

→MOTION LOCK	OFF
PWR UP ACTION	ON
AUTO FLIP	ON
JOG MAX SPEED	120/SEC
JOG DIRECTION	I NVERSE
FRZ IN PRESET	OFF
<parking action<="" td=""><td>SETUP&gt;</td></parking>	SETUP>
<alarm input="" set<="" td=""><td>rup&gt;</td></alarm>	rup>
BACK	
EXIT	

Sets the general functions of Pan/Tilt motions.

Motion [ON/OFF]

If Motion Lock is set to ON, it is impossible to set up and delete Preset, Swing, Pattern and Group. It is possible only to run those functions. To set up and delete those functions, enter into OSD menu.

• Power Up [ON/OFF]

Action Refer to "Other Functions" section.

• Auto Flip [ON/OFF] Refer to "Other Functions" section.

[INVERSE/NORMAL]

● Jog Max [1°/sec ~360°/sec]

Sets the maximum jog speed. Jog speed is inversely proportional to the zoom magnifications. As the zoom magnification goes up, the pan/tilt speed goes down.

● <u>J</u>og

Lock

Direction

Speed

Sets the Jog Direction. If this is set to 'Inverse', the view direction in the screen is same as the direction of joystick. If this is set to 'Normal', the view direction in the screen is the reverse dirction of joystick.

Freeze [ON/OFF]

in Preset

Sets Frame Freeze Function. This feature freezes the scene on the monitor when going to a preset. At the start point of a preset movement, a camera starts freezing the image of the start point. Camera keeps displaying the image of the start point during preset movement and does not display the images which camera gets during preset movement. As soon as camera stops at preset end point, camera starts displaying live images which it gets at the end preset point. This feature also reduces bandwidth when working with digital systems or digital network systems.

This function availability should be different by models.

#### Parking Action Setup

PARKI	NG ACTION	SETUP
WALT	ENABLE TIME ACTION	OFF 00: 10: 00 HOME
BACK EXI T		

This feature allows the camera to begin a specified action after a programmed time of inactivity.

• Park Enable [ON/OFF]

If Park Enable is set to ON, the camera runs an assigned function automatically if there is no PTZ command during the programmed "Wait Time".

- Wait Time [1~59 sec. / 1~180 min.] Wait Time can be programmed from 1 second to 180 minutes.
- Park Action [HOME/PRESET/PATTERN/SWING/GROU P/PREV ACTION]

This feature defines the activity when the camera parks. If Park Action is set to "HOME", the camera moves to the home position which is memorized when the system boots. If Park Action is set to "PREV. ACTION", the camera runs the previous action which it ran most recently.

#### Alarm Input Setup

ALARM INPUT S	ETUP
→ALARM NO.	1
TYPE ACTION HOLD TIME POST ACTION	N. OPEN NOT USED ENDLESS HOME
BACK EXI T	

Defines Alarm Function. When an alarm is receive, an input signal to the camera triggers the user-defined action programmed for the alarm.

- Alarm No [1~3] Selects a sensor number to set up.
   Type [Normal OPEN/Normal CLOSE]
  - Selects sensor operation type.
- Action [NOT

USED/PRESET/PATTERN/SWING/GROUP] Selects an action to run when a sensor signal is input.

• Hold Time [ENDLESS / 1~59 SEC. / 1~180 MIN.]

Sets the time period for the action which is run by external sensor activation. After the time period passes, the action pre-defined in "Post Action" runs sequentially in succession to the action by external sensor activation. If this option is set to "ENDLESS", "Post Action" does not activate.

 Post Action [HOME/PRESET/PATTERN/SWING/GROUP /PREV ACTION]
 Selects the action that a camera will run after the time period in "HOLD TIME" passes. If Post Action is set to "PREV. ACTION", the camera runs the previous action which it ran most recently.

## **Preset Setup**

PRESET SETUP →PRESET NO.	1
CLR PRESET <edit scene=""></edit>	CANCEL
<edit label=""></edit>	LABEL123
RELAY OUT	OFF
CAM ADJUST	GLOBAL
BACK EXI T	

 Preset Number

Clear

• Edit

• Edit

Preset

[1~128]

Selects a preset number to set up. If a selected preset is already defined, the camera moves to the pre-defined position and preset parameters such as Label and CAM Adjust show on the monitor. If a selected preset is not defined. "UNDEFINED" shows on the monitor.

[CANCEL/OK]

Deletes the data of the selected Preset.

- Re-defines the scene position of the selected Preset. Preset Scene
- Edits the label of the selected Preset to show on the monitor when the preset runs. Preset Label MAX. 10 alphanuberic characteristics are allowed.

Defines the relay output.

- Relay Out
- CAM Adjust [GLOBAL/LOCAL]

WB(White Balance) and AE(Auto Exposure) can be set up independently for each preset. There are 2 modes, "Global" mode & "Local" mode. The Global mode is that WB and/or AE are/is set up totally and simultaneously for all presets. The Global parameter setup such as WB and AE can be done in "ZOOM CAMERA SETUP" menu. The Local mode is that WB and/or AE are/is set up independently or separately for each preset. The Local parameter setup for WB and AE can be done in each preset setup menu. Each Local parameter such as WB and AE activates correspondingly when the camera arrives at each preset position. During jog operation, Ĝlobal WB/AE value should be applied. All Local WB/AE values do not change although Global WB/AE value changes. The Local mode has the prior to the Global mode.

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### Preset Scene Setup

EDIT SCENE - PRESET 1
MOVE TO TARGET POSITION
[NEAR: SAVE /FAR: CANCEL]

### Preset Label Setup

EDIT LAB	EL – PRE	ESET 1
[	]	
efghi opqrs	FGHI J	OK CANCEL

 ${\rm I\!\!I}$  Use the Joystick to move the camera to a desired position.

- ② Save the preset position by pressing **NEAR** key.
- ③ Press **FAR** key to cancel targeting the preset position.

Edit the label of the selected preset to show on the monitor when camera arrives at the preset. In the Edit Label menu, the dark rectangular is the cursor. As soon as finishing selecting an alphabet or a number, the cursor moves to the next digit.



 With Left/Right/Up/Down of the joystick, move to a desired Alphabet or a desired number in the Alphanumeric set. To select a desired Alphabet or a desired number, press the NEAR key.

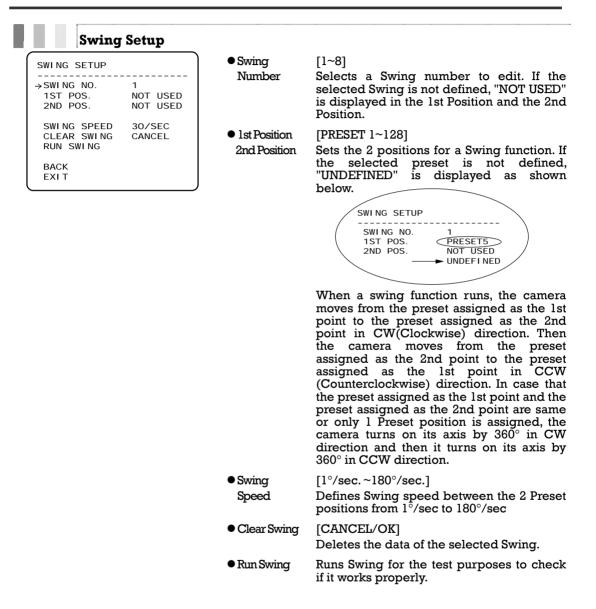


Space Char. Back Space Char.

If you want to use a blank, select the double quotation mark (" "). If you want to delete an Alphabet or a number, use the back space character ("  $\leftarrow$ ").

② If you complete the Label editing, move the cursor to "OK" and press the NEAR key to save the completed label. To abort the current change, move the cursor to "Cancel" and press the NEAR key.

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37X Speed Dome Camera

## **Pattern Setup**

PATTERN SETUP	
→PATTERN NO.	1
	UNDEF1 NED
CLR PATTERN	CANCEL
RUN PATTERN	
<edit pattern<="" td=""><td>&gt;</td></edit>	>
BACK EXI T	

### Pattern Edit

EDIT PATTERN 1
MOVE TO START POSITION [NEAR: START /FAR: CANCEL]

EDIT PATTER	N 1
[NEAR: SAVE	/FAR: DELETE] 0/0/x1/N

● Pattern Number [1~4]

Selects a Pattern number to edit. If the selected pattern number is not defined, "UNDEFINED" will be displayed under the selected pattern number.

- Clear Pattern [CANCEL/OK] Deletes the data of the selected pattern.
- Run Pattern Runs the Pattern for the test purposes to check if it works properly.
- Edit Pattern Edits the selected pattern.
- (1) With the Joystick of your controller, move the camera to the start position with an appropriate zoom magnafication. To start the pattern recording, press **NEAR** key. To exit, press **FAR** key.

- ② Move camera with joystick of controller or run preset function to memorize the path (mostly curve path) in the selected pattern. The movement by Joystick and preset movement will be memorized in a pattern. After a pattern is programmed, the remaining storage is displayed in progress bar on the screen.
- ③ To save the data and exit, press **NEA**R key. To cancel saving the data and delete the data, press **FAR** key.

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**Group Setup** 

GROUP SETUP	● Grou
→GROUP NO. 1 UNDEFI NED	
CLEAR GROUP CANCEL	
RUN GROUP	
<edi group="" t=""></edi>	
	● Clea
ВАСК	
EXIT	● Run (

- up Number [1~8] Selects a Group number to edit. If the selected Group number is not "UNDEFINÊD" defined, will be displayed under the selected Group number. ar Group [CANCEL/OK] Deletes the data of the selected Group. Runs the Group for the test purposes to Group check if it works properly.
  - Edit Group Edit the selected Group.

Group Edit

EDIT GROUP 1
→NO ACTION ### DWELL OPT
1 NONE
2 NONE
3 NONE
4 NONE
5 NONE
SAVE
CANCEL [NEAR: EDI T]

EDIT GROUP 1
NO ACTION ### DWELL OPT
→ 1 NONE
2 NONE
3 NONE
4 NONE
5 NONE
SAVE [NEAR: EDIT ACT]
CANCEL [FAR : EDIT END]

1 Press **Near** key when the cursor is at "NO" to start editing the selected Group.

② Note that MAX. 20 actions are allowed in a Group. Move the cursor up/down to select an Action. Press Near key to edit.

r
EDIT GROUP 1
NO ACTION ### DWELL OPT
1 NONE
2 NONE
3 NONE
4 NONE
5 NONE
SAVE [ .: MOVE CURSOR]
CANCEL [▲▼: CHANGE VAL.]

NO ACTION ### DWELL OPT 1 PRESET 1 00: 03 360

CANCEL [▲▼: CHANGE VAL.]

[ **♦** : MOVE CURSOR]

EDIT GROUP 1

2 NONE 3 NONE 4 NONE 5 NONE SAVE

- ③ Define Action, Dwell time and Option. Note that the dark rectangular is the cursor. Move the cursor Left/Right to select an item and move cursor Up/Down to change each parameter.
  - Action #### [NONE/PRESET/SWING/PATTERN]
  - DWELL [0 SEC. ~ 4 MIN.] Sets the Dwell Time between functions.
  - OPT Option. It is a preset speed when a preset is selected in the Action. It is the number of repeat when a Pattern or a Swing is selected in the Action.
- 4 Edit the items such as Action, ###, Dwell and OPT by moving the cursor.

EDIT GROUP 1
NO ACTION ### DWELL OPT
→ 1 PRESET 1 00:03 360
2 NONE
3 NONE
4 NONE
5 NONE
SAVE [NEAR: EDIT_ACT]
CANCEL [FAR : EDIT END]
CANCEL LIAR . EDIT END

(5) After finishing editing a Action, press Near key to go to the previous-upper level menu (Step 2). Move the cursor Up/Down to select an Action number and repeat Step 2 ~ Step 4 to keep editing the selected Group.

EDIT GROUP 1
NO ACTION ### DWELL OPT
1 PRESET 1 00:03 360
2 NONE
3 NONE
4 NONE
5 NONE
→SAVE CANCEL

<sup>(6)</sup> After finishing setting up, press **FAR** key to exit. Then the cursor will move to "SAVE". Press **Near** key to save the data.

# System Initialization

```
SYSTEM INITIALIZE

→CLEAR ALL DATA NO

●CLR DISPLAY SET NO

●CLR CAMERA SET NO

●CLR MOTION SET NO

●CLR EDIT DATA NO

REBOOT CAMERA NO

REBOOT SYSTEM NO

BACK

EXIT
```

● Clear All Data	Deletes all configuration data and the system is set to the factory default.	
<ul> <li>Clear Display Set</li> </ul>	Initializes all the configuration data for Display.	
<ul> <li>Clear Camera Set</li> </ul>	Initializes all the configuration data for Camera.	
<ul> <li>Clear Motion Set</li> </ul>	Initializes all the configuration data for Motion.	
<ul> <li>Clear Edit Data</li> </ul>	Deletes all the configuration data for Preset, Swing, Pattern and Group.	
<ul> <li>Reboot Camera</li> </ul>	Reboots the zoom camera module.	
<ul> <li>Reboot System</li> </ul>	Reboots the system.	

### □ Factory Default

ы.

Display Parameters		Camera Parameters	
Camera ID	ON	Focus Mode	SemiAuto
PTZ Information	AUTO	Digital Zoom	ON
Action Title	AUTO	Image Flip	OFF
Preset Label	AUTO	Sharpness	16
Alarm I/O	AUTO	Stabilization	OFF
North Direction	Pan 0°	White Balance	AUTO
Privacy Zone	Undefined	Backlight	OFF
		Day&Night	AUTO ro AUTO2
		Brightness	50 or 25
		Iris	AUTO
		Shutter	ESC
<ul> <li>Motion Parameters</li> </ul>		AGC	MIDDLE or HIGH
Motion Lock	OFF	SSNR	MIDDLE
Power Up Action	ON	SENS-UP	AUTO
Auto Flip	ON		
Jog Max Speed	120°/sec	<ul> <li>User-Defined Data</li> </ul>	
Jog Direction	INVERSE	Preset 1~128	Undefined
Freeze In Preset	OFF	Swing 1~8	Undefined
Park Action	OFF	Pattern 1~4	Undefined
Alarm Action	OFF	Group 1~8	Undefined

37X Speed Dome Camera

# **SPECIFICATIONS 5**

# Specifications

HTSD37X / SIPSD37X		
Video Signal Format	NTSC	
Image Sensor	Sony 1/4" Double Density Interline Transfer CCD	
Total Pixels	811(H)×508(V) 410K	
Effective Pixels	768(H)×494(V) 380K	
Horizontal Resolution	550 TV Lines(Co	olor), 680 TV Lines(B/W)
Video Signal-to-Noise	50 dB (AGC Off)	
Zoom	37X Optical Zoom, ×12 Digital Zoom	
Forcal Length	F1.6~3.9, f=3.5~129.5mm	
Angle of View	H : 55.5°(Wide)~1.59°(Te	ele) / V : 42.5°(Wide)~1.19°(Tele)
Zoom Speed	2.5 sec	: (Wide to Tele)
Minimum Illuminance	0.7 Lux (Color) / 0.	06 Lux (B/W), 50 IRE / F1.6
Day & Night	Auto / Day / Night(ICR)	
Focus	Auto / Manual / SemiAuto	
Iris	Auto / Manual	
Shutter Speed	256X ~	~ 1/120000 sec
AGC	Low / Middle	/ High / Manual / Off
White Balance	Auto / Manual(Red, Blue (	Gain Adjustable. 1800°K~10500°K)
BLC	WDR /	BLC / HLC / Off
Flickerless	S	electable
SSNR	Low / Mi	ddle / High / Off
Privacy Zone	8 Masks, Sp	oherical Coordinate
Stabilization	(	ON / OFF

# SPECIFICATIONS 5

MECHANISM PART			
Movement	Pan	360°(Endless)	
Range	Tilt	90°	
	Preset	360°/sec.	
Speed	Jog	$0.05 \sim 360^{\circ}$ /sec. (Proportional to Zoom)	
	Swing	l∼ 180°/sec.	
Preset		127 Presets (Label, Independent Camera Parameter Setting)	
Pattern		4 Patterns [1200 Commands(Approx. 5 Minute) / Pattern]	
Swing		8 Swings	
Group		8 Groups (MAX. 20 Actions with The Combination of Preset, Pattern and Swing)	
Other Pan/Tilt Functions		Auto Flip, Auto Parking, Power Up Action and etc.	
Communication		RS-485 (HTSD37X ONLY)	
Protocol		Pelco-D, Pelco-P Selectable	
OSD		English, Menu / PTZ information etc	
Sensor Input		3 Inputs, Photo-Coupler Type, DC 5V~12V	
Alarm Outpu	ts	l Output, Relay Output, MAX. Load DC24V 1A / AC125V 0.5A	
Fan		Always ON	
Heater		Operation Start from Internal Temperature 10°C	
Operating Temperature		$-22^{\circ}F \sim +122^{\circ}F$	

# **SPECIFICATIONS 5**

		MECHANICAL	
		Ceiling Mount	Wall Mount
	Dome	Polyca	rbonate
Material	Internal	Polycarbonate, ABS	
	External	Aluminium	
	Dome Size	Ø150mr	m/∅5.9"
EBO/EBI model	Dimension	Ø192×265.3 mm	296×276.6 mm
	Weight	Approx 3.2 Kg	Approx 3.8 Kg

[Note]

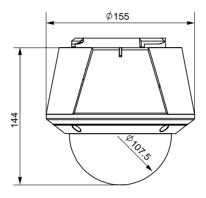
1) Specification and features are subject to change without prior notice.

2) Check the voltage and current capacity of rated power carefully.

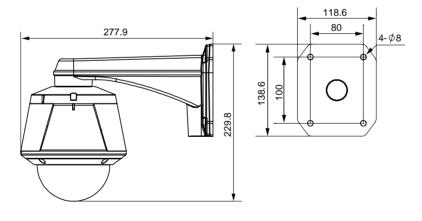
HTSD37X : 24VAC ONLY SIPSD37X : 12VDC ONLY

# Dimension

### • Main Body



• Wall Mount Type



[Unit mm]



### LIMITED WARRANTY

THIS WARRANTY IS VALID ONLY ON PRODUCTS PURCHASED AND USED IN THE UNITED STATES OF AMERICA THIS WARRANTY APPLIES ONLY TO THE ORIGINAL USER.

SUBJECT TO CONDITIONS AND EXCLUSIONS FOUND BELOW, THIS PRODUCT IS WARRANTED AGAINST MANUFACTURING DEFECTS IN MATERIAL AND WORKMANSHIP FOR THE FOLLOWING PERIOD FOR PARTS AND LABOR:

SPECO TECHNOLOGIES CAMERAS:	5 YEARS
SPECO TECHNOLOGIES MONITORS:	1 YEAR
BALANCE OF SPECO TECHNOLOGIES LINE:	1 YEAR*
* IR LEDs, Time lapse VCR Drum Assemblies & Heads:	90-DAYS

SPECO TECHNOLOGIES WILL REPAIR OR REPLACE (AT OUR DISCRETION) ANY PARTS FOUND TO BE DEFECTIVE FOR THE WARRANTY PERIOD SPECIFIED, WE WILL PROVIDE A REPLACEMENT FOR ANY DEFECTIVE PART.

#### CONDITIONS

1.YOU MUST OBTAIN A RETURN AUTHORIZATION NUMBER FOR ANY MERCHANDISE BEING RETURNED TO SPECO TECHNOLOGIES, WHETHER FOR RETURN/EXCHANGE OR REPAIR, WHETHER IN OR OUT OF WARRANTY.

2. THIS WARRANTY WILL BE HONORED ONLY UPON PRESENTATION OF THE ORIGINAL DATED BILL OF SALE OR SALES SLIP

- 3. TRANSPORTATION OF THE PRODUCT TO OUR SERVICE DEPARTMENT IS THE RESPONSIBILITY OF THE USER.
- REPAIRED OR REPLACED PRODUCT WILL BE RETURNED PREPAID DURING THE WARRANTY PERIOD

### EXCLUSIONS

- 1. THIS WARRANTY SHALL NOT COVER ADJUSTMENT OF CUSTOMER OPERATED CONTROLS AS EXPLAINED IN THE APPROPRIATE MODEL'S INSTRUCTION MANUAL OR PRODUCTS WHICH HAVE BEEN ALTERED, ABUSED, OR HAVE MISSING OR ALTERED SERIAL NUMBERS.
- 2. THIS WARRANTY SHALL NOT APPLY TO UNCRATING, SETUP, INSTALLATION, OR THE REMOVAL AND REINSTALLATION OF PRODUCTS AFTER REPAIR.
- 3. THIS WARRANTY SHALL NOT APPLY TO REPAIRS OR REPLACEMENTS NECESSITATED BY ANY CAUSE BEYOND THE RESULT OF MANUFACTURE INCLUDING, BUT NOT LIMITED TO, ANY MALFUNCTION, DEFECTS OR FALURE CAUSED BY OR RESULTING FROM UNAUTHORIZED SERVICE OR PARTS, IMPROPER MAINTENANCE, MODIFICATION OR REPAIR BY THE USER, ABUSE, MISUE, NEGLECT, ACCIDENT, FIRE, FLOOD, OR OTHER ACTS OF NATURE, INCORRECT LINE VOLTAGE, DAMAGE OR IMAGE BURNS TO TELEVISION PICTURE TUBES CAUSED BY OR ATTRIBUTABLE TO THE USE OF ANY ACCESSORY, ELECTRONICS GAME OR DEVICE, OR DAMAGE CAUSED TO IMAGE PICKUP DEVICES BY EXCESSIVE LIGHT.

THE FOREGOING IS IN LIEU OF ALL OTHER EXPRESSED WARRANTIES AND WE DO NOT AUTHORIZE ANY PARTY TO ASSUME FOR US ANY OTHER OBLIGATION OR LIABILITY. IN NO EVENT SHALL WE BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF THIS PRODUCT, OR FOR ANY DELAY IN THE USE OF THIS PRODUCT DUE TO CAUSES BEYOND OUR CONTROL.

SOME STATES DO NOT ALLOW LIMITATIONS OF HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF CONSEQUENTIAL DAMAGES. THE ABOVE LIMITATIONS ON IMPLIED WARRANTY AND CONSEQUENTIAL DAMAGES MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE

NOTE: FOR YOUR PROTECTION IN THE EVENT OF THEFT OR LOSS OF THIS PRODUCT, PLEASE FILL IN THE INFORMATION REQUESTED BELOW AND RETAIN WITH YOUR SALES RECEIPT.

MODEL NO.: (LOCATED ON BACK OR BOTTOM OF UNIT)	SERIAL NO.:	
DATE OF PURCHASE:		
WHERE PURCHASED:	PURCHASE PRICE:	
Speco Technologies	FOR MORE INFORMATION REGARDING	
200 NEW HIGHWAY AMITYVILLE, NY 11701 www.specotech.com	SERVICE OR RETURN, CALL US TOLL FREE: 1-800-645-5516 IN METRO NY: 631-957-8700	

AUDIO RECORDING OR SURVEILLANCE EQUIPMENT. PARTY CONSENT MAY BE REQUIRED

37X Speed Dome Camera



200 New Hightway Amityville, NY 11701 631-957-8700 www.specotech.com

Rev.03082010

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http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com