SS10W-C100H

10x Mini PTZ Camera

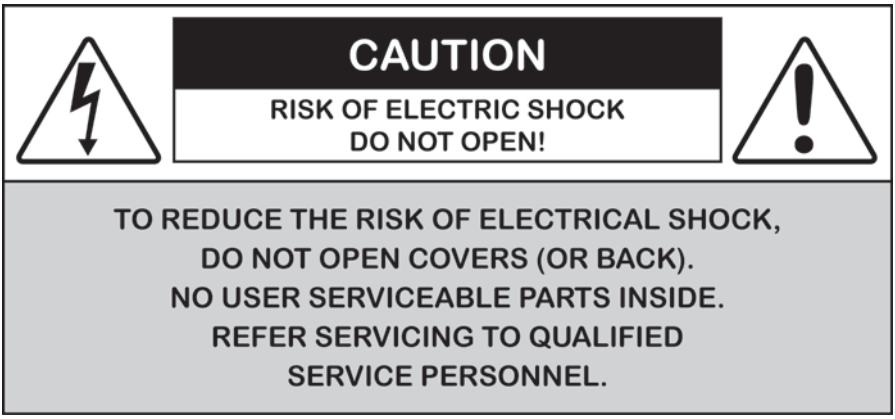
USER MANUAL

FEATURES

- 1/2.8” Sony CMOS CCD, 1000 TV Lines
- 10x Optical Zoom, 10x Digital Zoom (Max 100x Zoom)
- 5~50mm focal length
- 0.01 lux (color) / 0.001 lux (B&W)
- 360° Endless Pan ; 180° Auto-flip Tilt ; 95° Normal Tilt
- 256 Presets ; RS-485 Communication
- Pelco-D & Pelco-P Selectable protocols
- Built-in OSD
- 12V DC

Please read the Manual before attempting to use this product.
Specifications and appearance are subject to change without notice.

P-048
*** Replacing SS10W-C65H*
R201502-V26



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems).

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

CAUTION

1. Never point the camera toward the sun
Do not expose the lens directly to the sun or to strong light as this may damage the pick-up device.

2. Handle this camera with care
Avoid any shock or bumping of the camera. Improper handling could damage the camera.

3. Requires a proper operating environment
The wall mount camera is designed for outdoor use. The allowable temperature range for operation is between -22°F ~ 122°F / -30°C ~ 50°C.

4. Clean the front face or lens
It is recommended that the surface be cleaned every 3~6 months. Cleaning should be done by using a chamois, a very fine soft cloth, lens tissue, or cotton tipped applicator and ethanol to carefully remove any fingerprint or dust.

5. Check the power source voltage
The power source voltage should be within the specified range. (Camera must meet the specifications). Camera must be connected to a surge protector at all times.

6. Objects and liquid entry
Never push objects of any kind into this camera as this may touch dangerous voltage points of short out parts that could result in a fire or electric shock. Never spill any kind of liquid on the video product.

7. Servicing

Do not attempt to service this video product by yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all service to qualified servicing personnel.

8. Damage requiring service

Unplug this video product from the wall outlet and refer service to qualified servicing personnel under the following conditions:

a. When the power supply cord or plug is damaged.
b. If liquid has been spilled, or objects have fallen into the video product.
c. If the video product has been exposed to rain or water.
d. If the video product has been dropped or the cabinet has been damaged.
e. When the video product exhibits a distinct change in performance.

LIMITED WARRANTY

OKINA USA products are covered under warranty for one year from the date of purchase. The warranty will automatically be voided if any of the following occurs:

1. Camera sticker is removed

If the camera sticker is removed, we will not be able to confirm any information regarding when and where the product was purchased. We have no other way to verify the purchase record without the serial number on the camera sticker; therefore, it should not be removed.

2. Camera is modified in any way

If the camera is scratched, damaged, or modified in a manner not described in this manual, the warranty will be voided immediately. It is the customer's responsibility to keep the camera in good condition.

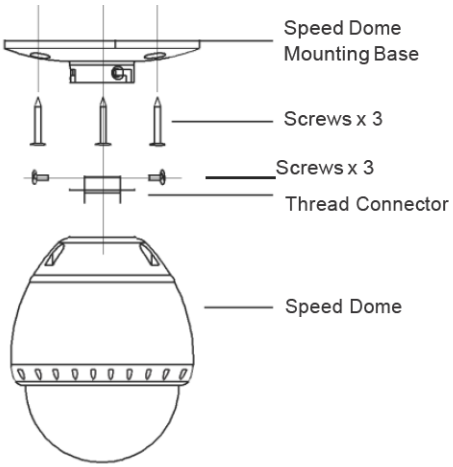
3. Video or power cable is cut

The video cable and the power cable should not be tampered with. Cutting or modifying of the cables will result in termination of the warranty.

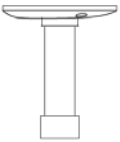
INDEX

PACKAGE CONTENTS

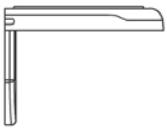
- One (1) 10x Mini PTZ Dome Camera
- One (1) Mounting Base
- Three (3) Mounting Base Screws
- Three (3) Thread Connector Screws
- One (1) Thread Connector
- One (1) User Manual



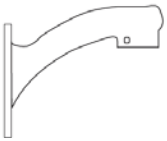
Options:



Pendant Pole Bracket
MB-CP10C



L Type Wall Mount Bracket
MB-CW1C



Arm Type Wall Mount Bracket
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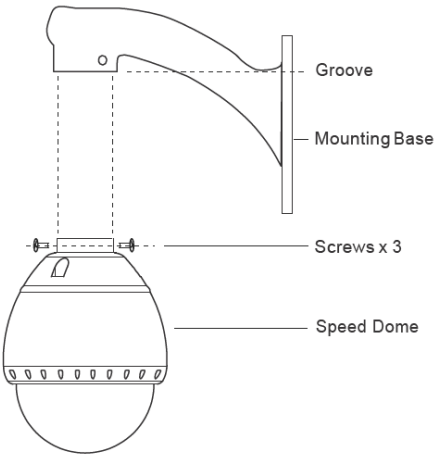
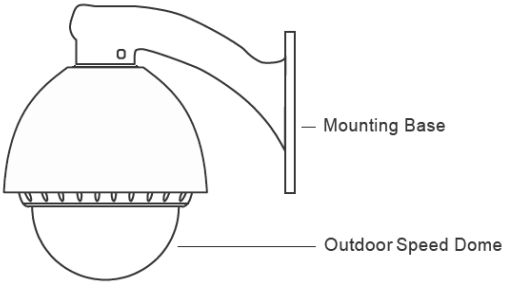
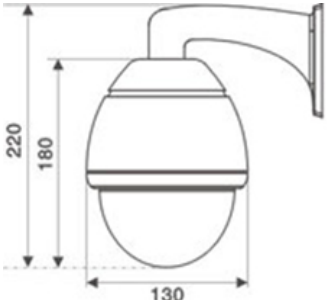
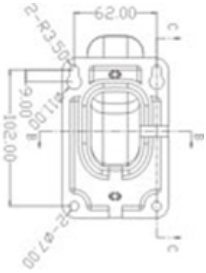




For any returns, please include all components listed above with original packaging in **Resalable Condition**. **Absolutely No Returns** will be accepted if any component is missing and/or damaged.

DIMENSIONS





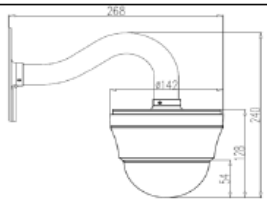


Figure 1

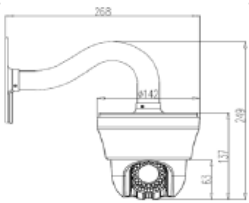


Figure 2

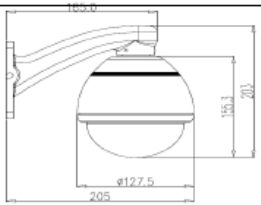


Figure 3

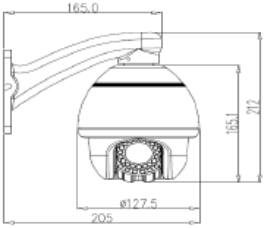


Figure 4

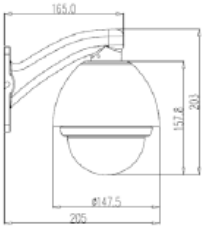


Figure 5

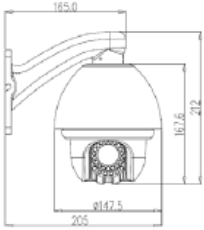


Figure 6

With Optional Brackets:

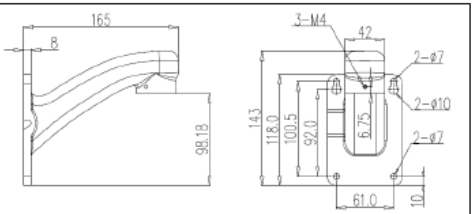


Figure 7

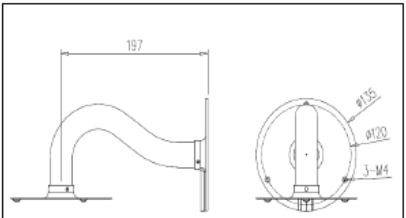
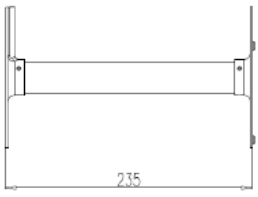


Figure 8



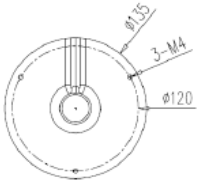


Figure 9

FUNCTION DESCRIPTION

1. **Set Address Coding, Baud Rate, Control Protocol**
   Any operation commands the camera has its own objectives address coding, baud rate, control protocol, a single camera only to respond with its own address coding, baud rate, control agreement under the operation of the command. Camera address coding, baud rate, control protocol specific settings please refer to the DIP settings.

2. **Target Tracking**
   Users can use the controls on the keyboard joystick control of the upper and lower turning left and right cameras can be used to track moving targets or moving horizon, while the focal length can be adjusted to change the perspective of the size or the target image size. In the auto-focus of the state, with the lens rotation, the camera will automatically adjust according to a rapid scene changes, instantly get a clear picture.

3. **Focal Length / Speed Automatic Matching Technique**
   Manual adjustment, the longer the focal length of the case, a reflection of high-speed ball machine makes a slight touch screen joystick may move back, resulting in data loss. Based on user-friendly design, intelligent ball according to the proximity of the focal length of the camera automatically adjusts the horizontal and vertical speed, so that manual operation is more simple and easy to track targets.

4. **Auto Turn Over**
   The operator will pull the bottom of the lens (vertical) after it is still holding down the joystick, this time the level of the lens auto-rotated 180 ° turning up immediately after the 90 °, can directly watch the back of the scene in order to achieve the full 180 ° continuous vertical surveillance.

5. **Set and Call Preset Position**
   Preset function is the current state of the ball under the PTZ function of the horizontal angle, tilt angle and camera lens focal length, etc. position parameters stored in memory, you need to call these parameters can be quickly and PTZ cameras will be adjusted to that location. The operator can quickly and easily by controlling the keyboard, infrared controller, control equipment such as storage and call the preset point, the ball machine to support 256 preset points.

6. **Lens Control**
   (1) Zoom Control
   Users can control the keyboard or through the ball machine to adjust the focus of the distance matrix of the host, receive the necessary panoramic images, or is a fine view.

   (2) Focus Control
   System default auto-focus, zoom, the camera lens will be the center of the screen features auto-focus, to maintain a clear picture; in exceptional circumstances, the user can manually focus, achieve the desired image effect. When in manual focus state, to restore the auto-focus, as long as the sway bar can be restored remotely auto-focus. There is also a dedicated control commands can be issued or to call an arbitrary way of restoring a preset bit auto-focus.

The camera lens in the following situations will not autofocus on the camera objectives:

a. Target is not to screen center;
b. Targets the same time in the far and near the place;
c. Target light objects, such as neon lighting, spotlights and other luminous objects;
d. Target with droplets or dust behind the glass;
e. Targets moving too fast;
f. Large area targets, such as walls;
g. Objectives are too dark or inherently ambiguous.

7. Aperture Control

Users can control the keyboard to manually adjust the aperture size to get the required picture brightness.

8. Auto Backlight Compensation

When the backlight compensation function is open, the camera lens in the light background can be automatically targets the more the dark luminance compensation. On the bright background light adjustment, to avoid the background brightness caused by a mass of light throughout the picture, goals and not identifiable because of the darkness to gain a clear image.

9. Auto White Balance

According to the changes in ambient light, automatic adjustment, the true color reproduction.

10. Night Vision Function (Color / Monochrome Conversion)

Cameras with night vision function, automatic color / monochrome conversion mode, in accordance with changes in ambient light automatic conversion CCD illumination. Such as: adequate lighting during the day due to the use of general illumination to ensure colorful images. In the night illumination can be automatically changed to black and white images show a clear interest.

11. Cruise

Can be pre-set cruise preset point, certain preset points, organized in the order required to auto-cruise in the queue, only an external command can be in an indoor speed ball set automatically according to preset points in order to provide the time interval constant movement back and forth.

12. Pattern Scanning

Pattern scanning machines to run the ball through the menu, the trajectory is stored down by power-on action, free movement, alarm linkage, etc. to call the stored scan line.

13. Continuous Scan

Just an external command or through a power-on action, free movement, alarm linkage, etc. to call, can make the ball machine horizontal direction to a certain speed the cycle of continuous scanning.

14. Batch Scanning

Just an external command or through a power-on action, free movement, alarm linkage, etc. to call, can make the horizontal direction the ball machine cycle of a certain speed intermittent scan.

15. Area Scan

Just an external command or through a power-on action, free movement, alarm linkage, etc. to call, can make the ball machine horizontal direction to a certain speed, within the limits set by the community and from scanning.

DIP SWITCH SETTING

Four DIP switch is the baud rate and the control protocol switch.
Eight DIP switch is the address code setting switch
DIP switch to “ON” means to “1”, DIP switch to "OFF" means "0".
The baud rate and control protocol as the following table:

No.	1	2	3	4	
Baud Rate	OFF	OFF			PELCO-P
Control Protocol	ON	OFF			PELCO-D
	OFF	ON			PELCO-D/P
	ON	ON			PELCO-D/P
(BPS)			OFF	OFF	9600
			ON	ON	9600
			OFF	ON	4800
			ON	OFF	2400

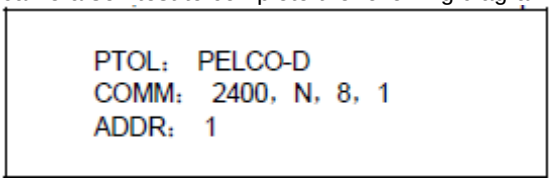
8-bit DIP switch is used to set the dome camera address coding. Address set binary mode can be set to a total of 256 different dome camera address coding, see coding table address.

Camera Address	Camera Address Coding Form							
	1	2	3	4	5	6	7	8
0	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
1	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
2	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
3	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
4	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
5	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF
6	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF
7	ON	ON	ON	OFF	OFF	OFF	OFF	OFF
8	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
9	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF
10	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF
11	ON	ON	OFF	ON	OFF	OFF	OFF	OFF
12	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF
246	OFF	ON	ON	OFF	ON	ON	ON	ON
247	ON	ON	ON	OFF	ON	ON	ON	ON
248	OFF	OFF	OFF	ON	ON	ON	ON	ON
249	ON	OFF	OFF	ON	ON	ON	ON	ON
250	OFF	ON	OFF	ON	ON	ON	ON	ON
251	ON	ON	OFF	ON	ON	ON	ON	ON
252	OFF	OFF	ON	ON	ON	ON	ON	ON
253	ON	OFF	ON	ON	ON	ON	ON	ON
254	OFF	ON	ON	ON	ON	ON	ON	ON
255	ON	ON	ON	ON	ON	ON	ON	ON

OSD MENU SETTINGS

Power-On Self-Test

When power is connected to the dome camera, the camera in horizontal and vertical direction movement, the screen will appear system-related information, the dome camera self-test to complete the following diagram.



Display: PELCO-D protocol, Baud Rate 2400, Address Code 1

Preset point setting and calling

Set Preset points:

- Selected camera (see manual control of the keyboard);
- Operation Rocker, zoom button, focus button, buttons adjust the camera aperture screen;
- Press the number keys + PRESET (input designated preset) to preserve the scene preset parameters.

Call preset points:

- Selected camera;
- Press the number keys (inputs the designated preset) + PREVIEW button, the camera immediately move to the preset position, the lens zoom, focus and Iris is also automatically change to the preset parameters; if the input is a special function preset point (see "Preset Point menu"), the dome camera will perform with special features preset point of the corresponding functions (such as: Enter the 80th presets, the camera will perform auto-tracking feature).

Preset point function table:

Dial the 95th preset	Enter main menu
Dial the 82nd preset	Auto cruise
Dial the 83rd preset	Clear all presets
Dial the 84th preset	Use pattern scan 1
Dial the 85th preset	Use pattern scan 2
Dial the 86th preset	Use pattern scan 3
Dial the 87th preset	Use patter scan 4
Dial the 96th preset	360-degree gap scan
Dial the 97th preset	Scan between two presets
Dial the 98th preset	Presets cruise
Dial the 99th preset	360-degree continuing scan

<MAIN MENU>

The dome camera power on and working properly, call the 95 preset points into the main menu. Screen display as shown in the Table 3-1 below. (Note:<IR SETTING> is for intelligent infrared dome camera special function)

TABLE 3-1:

MAIN MENU	Menu Function Description
SYSTEM INFORMATION	Displays camera basic information (refer to table 3-2)
ADDR SETTING	Used to set the camera address (refer to table 3-3)
MOTION	PTZ setup menu (refer to table 3-4)
PATTERNS	Fancy scan setting (refer to table 3-5)
CAMERA	Lens setting (refer to table 3-6)
CRUISE SETTING	Preset point cruise setting (refer to table 3-7)
IR SETTING	Infrared light setting (refer to table 3-8)
DISPLAY SETUP	Screen display setting (refer to table 3-9)
RESTORE FACTORY DEFAULT	Restore the factory default setting
REBOOT SYSTEM	System restart; the dome camera to power on reset
EXIT	Exit the OSD menu setting

<SYSTEM INFORMATION>

TABLE 3-2:

SYSTEM INFORMATION	Menu Function Description
COM: 2400, N, 8, 1	Serial information; display the dome camera serial baud rate, parity, data bits, stop bits of information
ADDRESS: 1	Display the current dome camera address code
PROTOCOL PELCO-D	Display the current dome camera communication protocol
PRESETS: 256	Display the current dome camera preset number
SOFTWARE VERSION: V5.2	Display the current software version
BACK	Return to main menu
EXIT	Exit the menu setting

Note: The system information menu items under this menu cannot be changed.

<ADDR SETTING>

TABLE 3-3:

ADDR SETTING	Menu Function Description
ADDR TYPE: HARD	Divides HARD and SOFT; select the SOF can directly determine the dome camera address
ADDR SOFT: 1	Within 1~254
ADDR HARD: 1	
BACK	Returns to main menu
RESET	Restore to default setting
EXIT	Exit the menu setting

Note: The soft and hard address settings cannot be mixed up. If so, it will cause the dome camera to be out of control and will require a setting reboot.

<MOTION>

Menu is used to set PTZ parameters such as movement and orientation angles. As shown in the following table.

TABLE 3-4:

MOTION	Menu Function Description
SET FRAME: SCAN	Set the area scan to the left and right limit (refer to table 3-4-1)
POWER UP: NONE	Power on setting menu (refer to table 3-4-5)
PARK TIME: 15 sec	How long to perform an action when the dome camera is idle
PARK ACTION: NONE	Perform an action when the dome camera is idle (refer to table 3-4-6)
FRAME SCAN SPEED: 16	Set the area scan speed of the dome camera Within 1 (slowest) ~ 32 (fastest)
RANDOM SCAN SPEED: 16	Set the intermittent scan speed of the dome camera Within 1 (slowest) ~ 32 (fastest)
BACK	Return to main menu
EXIT	Exit the menu setting

<SET FRAME SCAN> (Setting area scan)

Setting area scanning range, specific operations as shown in the following table.

TABLE 3-4-1:

FRAME SCAN	Menu Function Description
SET SCAN POSITION	Set area scan position (refer to table 3-4-2)
CLEAR FRAME SCAN	Clear area scanning setting; clear left and right limit position (refer to table 3-4-4)
BACK	Return to the previous menu
EXIT	Exit the menu setting

Set Scan Position

TABLE 3-4-2:

FRAME SCAN	Menu Function Description
LEFT LIMIT POSITION IRIS OPEN TO CONTINUE	Shake the joystick to select the left limit position; Press IRIS+ button to confirm the current position of the left limit position, and enter the following table 3-4-3.

TABLE 3-4-3:

FRAME SCAN	Menu Function Description
RIGHT LIMIT POSITION IRIS OPEN TO CONTINUE	Shake the joystick to select the right limit position; Press IRIS+ button to confirm and return to the table 3-4.

Clear Frame Scan (Clear area scan location)

TABLE 3-4-4:

FRAME SCAN	Menu Function Description
CLEAR FRAME SCAN IRIS OPEN TO CONTINUE	Press IRIS+ to clear the left and right limit position and return to the table 3-4.

<POWER UP>

The dome camera is powered on, didn't receive any instructions to perform action. Parameters in the following table.

TABLE 3-4-5:

POWER UP	Menu Function Description
NONE	Don't perform any actions
AUTO SCAN	Perform continuous scanning action
RANDOM SCAN	Perform intermittent scanning action
FRAME SCAN	Perform area scanning action
PRESET 1	To reach the No. 1 preset point
PRESET 8	To reach the No. 8 present point
PATTERN 1	Perform the pattern scan line 1
PATTERN 2	Perform the pattern scan line 2
PATTERN 3	Perform the pattern scan line 3
PATTERN 4	Perform the pattern scan line 4
CRUISE	Perform the cruise action of preset point

<PARK ACTION>

In the idle time, the dome camera doesn't receive any instructions to perform an action. Idle movement parameters as shown in the following table.

TABLE 3-4-6:

PARK ACTION	Menu Function Description
NONE	Don't perform any actions
AUTO SCAN	Perform continuous scanning action
RANDOM SCAN	Perform intermittent scanning action
FRAME SCAN	Perform area scanning action (It will come into effect after the SET FRAM SCAN is set)
PRESET 1	To reach the No. 1 preset point
PRESET 8	To reach the No. 8 present point
PATTERN 1	Perform the pattern scan line 1
PATTERN 2	Perform the pattern scan line 2
PATTERN 3	Perform the pattern scan line 3
PATTERN 4	Perform the pattern scan line 4
REPEAT LAST	Automatic recovery to the previous action
CRUISE	Perform the cruise scanning action

<PATTERNS>

TABLE 3-5:

PATTERNS	Menu Function Description
PATTERN No. 1	Select pattern number (1~4)
PROGRAM PATTERN	To select pattern scan line; Operations shown in table 3-5-1
CLEAR CURRENT PATTERN	Clear current pattern scan line
CLEAR ALL PATTERN	Clear all the pattern lines
BACK	Return to previous menu
EXIT	Exit the main setting

<PROGRAM PATTERN>

TABLE 3-5-1:

PROGRAM PATTERN	Menu Function Description
USE THE JOYSTICK OR KEYBOARD TO MOVE THE CAMERA TO THE STARTING POSITION IRIS OPEN TO CONTINUE	Use the joystick or keyboard to move the camera to the starting position, and press the IRIS+ key to continue, and go to the table 3-5-2.

TABLE 3-5-2:

PATTERN	Menu Function Description
STORAGE USED: 1	Shake the joystick to editing the scanning line and action, from the movement 1 began to record, up to 100 movements. Press IRIS+ key to save the settings and return to table 3-5.

<CAMERA> (Lens setting)

TABLE 3-6:

Languages	Chinese / English
Multiples Display	ON / OFF
AGC	180
Back Light Compensation	ON / OFF
Shutter Setting	AUTO
Focus Setting	AUTO
Brightness Setting	110
Sharpness Setting	013
Day & Night Switch	AUTO
Negative Setting	OFF
Lens Setting	OFF
Default Setting	OFF

<CRUISE> (Preset points, cruise settings)

TABLE 3-7

CRUISE	Menu Function Description
DWELL TIME: 6 sec	Cruise waiting time between preset points
PRESET LIST: 1	Cruise list of present points. Total 3 pages, each page can select up to 10 preset points
1 ON 0 OFF 1234567890 PRESET 1111111111 [1-10]	Select preset points need to be involved in cruise scan. The corresponding parameter is 0 and 1. Press IRIS+ key to change, 1 is selected, 0 is skipped.
BACK	Return to the previous menu
EXIT	Exit the menu setting

<IR SETTING> (IR speed dome special function)

TABLE 3-8:

IR SETTING	Menu Function Description
IR MODE: AUTO	ON: IR light is forced to open; OFF: Infrared light is forced to close; AUTO: IR light is switch automatically.
IR ON SENS: 250	Light intensity of IR light is open (81~254)
IR OFF SENS: 230	Light intensity of IR light is closed (81~254)
BACK	Return to the previous screen
EXIT	Exit the menu setting

<DISPLAY SETUP>

TABLE 3-9:

DISPLAY SETUP	Menu Function Description
ZOOM: ON / OFF	Zoom display ON / OFF
P/T DEG: ON / OFF	Horizontal / Vertical angular coordinate display ON / OFF
BRIGHT DATA: ON / OFF	Light Source data display ON / OFF
IR DATA: ON / OFF	IR light data display ON / OFF
BACK	Return to the previous screen
EXIT	Exit the menu setting

TROUBLE SHOOTING & MAINTENANCE

Failure	Possible Cause	Solutions
Electricity without action, no images, light does not shine	Connect the wrong power cord	Corrections
	Power supply is damaged	Replace
	Bade fuse	Replace
	Power cord connection is bad	Exclusion
Power are self-test, there are images, not control	IR uniform dome camera address codes, the baud rate setting does not	To reset the high speed dome address code and baud rate
	Wrong protocol	Corrections
	RS485 line reversed or open	Check wiring RS485 control line
Unable to complete self-test, there are images associated with motor tweet sound	Mechanical failure	Maintenance
	Camera tilt	Straightenl
	Power is not enough	Replacement to meet the requirements of the power supply. It is best to power the camera on the near-infrared uniform
Image instability	Video line connection is bad	Exclusion
	Power is not enough	Replace
Blur	Manual focus on the state	Operation of any infrared high speed dome camera or call a preset point
IR control of a high speed dome camera non-stop or delay	Power is not enough	Replacement to meet the requirements of the power supply. It is best to power on the high speed dome camera in the vicinity
	Check control of the most distant high speed dome camera match whether to join resistance	The most far away from the control of the ball-type cameras by adding matching resister
	Far from 485 the signal attenuation	Bold line of control
	Converter 485 is not enough driving force	Replacement of a source converter

SPECIFICATION

Model	SS10W-C100H
Image sensor	1/2.8" Sony CMOS
Signal model	PAL/NTSC
Horizontal resolution	1000 TVL
Effective pixel	1280（Horizontal）x 720（Vertical）
Minimum illumination	Color to B/W, Color: 0.01Lux, B/W: 0.001Lux
S/N radio	>60dB (Enhanced)
Backlight compensation	On/Off
White balance	Auto
Electronic shutter	1/60~1/12000 seconds
Focus length	5~50mm
Optical focus	10X
Digital focus	10X
Focus	Auto/manual, take high-performance DSP to realize complete digit and ultra-high speed focus function
Presets	256
Patrol track	4groups, each can record 200 actions
Cruise track	Total 30 presets can join cruise, can setting the presets' residence time
Other scan	Support Horizontal scan, deuce area scan, scan random
Rotation range	Horizontal 360°unlimted rotation, Vertical 90°,auto reversal
Rotation speed	Horizontal & Vertical Min 0.01°,Max 200°/S
Communications	RS-485, PELCO D, PELCO P
OSD	Yes
Temperature control	Built-in
Power supply	12V DC / 2A
Material	Aluminum shell
Work environment	-20℃~+50℃(select temperature control accessories), <95%RH
Bracket	Wall Mount

* Specifications are subject to change without notice.

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