## **Speed Dome**

# **EPTZ Series**

## **USER MANUAL**





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#### **EPTZ860 Overview**

#### 1.1. Introduction

EPTZ860 is outdoor type, using high sensitivity and high resolution CCD to display high quality image. The design of ICR (IR cut filter removable) can provide real color even under strong sunlight in day time. Under slight light in night time, a clear image can still be displayed. Fast moving function can reach to 360°/1sec. No matter high speed scanning or low speed scanning, the solid base can avoid vibration. This full-functioned speed dome can perform best quality images!

- \* 23X True Day/Night camera module with SONY 1/3" Exview HAD CCD II 960H sensor, 700 TVL resolution
- \* Auto white balance function creates natural shades of color
- \* Auto iris adjusts the monitoring image to the best brightness
- \* Support 360 degree horizontal rotation range and 94 degree tilt rotation range
- \* Extended IR range of up to 140m/450ft. with high power LEDs
- \* Intelligent IR function, the IR distance can be adjusted as the lens zooms
- \* Built-in heater and fan to tolerate low temperature
- \*Weatherproof IP66 rated to endure all weather conditions

Furthermore, the micro control unit enables camera a nimble and exact movement from minimal 0.01°/sec to maximal 300°/sec. It can go to every preset position in 1 second. It also has other advantages such as:

- > 200 preset positions are available.
- ➤ 4 cruise tours can be set, and each tour contains up to 16 positions.
- > Up to 256 speed domes can be supported on a RS-485 bus when all speed domes

are controlled by keyboard EKB500.

- Built-in fan to enhance heat dissipation at high temperature and circulate heat to keep system operation at low temperature.
- > Built-in 4 alarm inputs and 2 alarm outputs.

All of the features make the intelligent high-speed dome camera works for a wide range and demanding application such as banks, airports, stations, casinos, streets of cities, intelligent buildings, etc.

#### 1.2. Specifications

Product Model	EPTZ860
Pickup Device	1/3"SONY 960H CCD
Scanning System	NTSC or PAL
Min.Illumination	Color 0.2 LUX, B/W 0.01 LUX,0LUX(IR LED On)
S/N Ratio(AGC OFF)	≥52dB
Electronic Shutter	Auto/1/50—1/10,000SEC
Optical Zoom	23X Optical Zoom(F=1.4 f=3.9~89.7mm)
Auto Iris	Auto
Streaming Frame Rate	1~30fps(NTSC),1~25Ffps(PAL)
Focus Control	Auto/Manual
True Day/Night	Auto
Auto Gain Control	Rang Adjustable
Backlight Comp.	(NO/OFF) / (HSBLC)
White Balance	Auto/Auto tracking/Indoor/Outdoor/Manual module
Video Output	1.0Vp-p, (75Ω Composite video )
Manual Pan/Tilt Speed	Pan:0.01°~180°/S,Tilt:0.01°~180°/S
Position Accuracy	±0.1°
Horizontal Rotation Range	360°Unlimited rotation



Tilt Rotation Range	94°Pendulum motion
Auto Speed Control	control speed auto-adjusted according to zoom length changing
Auto Pan Speed	300°/s
Dwell Time at Preset Position	0.5-10S,4 groups
Tour	4 groups
Tour Point Per Group	16Preset positions
Pattern	4PCS
Communication	RS485 Bus
Communication Protocol	EVF-1,Pelco-D, Pelco-P
Baud Rate	1200/2400/4800/9600bps
Alarm	4 inputs and 2 outputs (Optional)
Environmental Rating	IP66 for outdoor
IR Testing Time	2-15s selectable
IR Illumination Distance	140M
Power Source	24VAC
Power Consumption	25w max
Operating Temperature	Outdoor: -40°~ +60°
Dimensions(W+H)	337.7×340.9mm/13.3"×13.4"
Weight	With Bracket 7.2kg,w/o bracket 6.6kg
Certificates	CE,FCC



#### 1.3. Feature

**Profile of EPTZ860** 



#### 1.4. Alarm

Function direction list:

Pin #	Function
1	ALMIN1 (Alarm Input 1)
2	ALMIN2 (Alarm Input 2)
3	ALMIN3 (Alarm Input 3)
4	ALMIN4 (Alarm Input 4)
5	GND (Alarm input Common)
6	ALARM NC OUT (Alarm Output Normal Close )
7	ALARM OUT COM (Alarm Output Common )
8	ALARM NO OUT (Alarm Output Normal Open)



Label as below :

1 2 3	: AL1 : AL2 : AL3	
4	: AL4	
5	:GND	
6		
7	-	
8		

#### 1.5. EPTZ860 Quick Operation Guide (Work with EKB500)

EPTZ860 and EKB500 (Keyboard) can work together by using factory default setting. You just need to connect cables by the following steps:

- 1. Connect the RS-485 cable to EPTZ860 and a keyboard (EKB500).
- 2. Connect a video cable from EPTZ860 to a monitor.
- 3. Connect the power to the EPTZ860 and a keyboard (EKB500).

After the EPTZ860 finishes the self-test mode, you can start to operate the EPTZ860 via the keyboard.

#### To operate the EPTZ860:



- 1. Shift the Joystick up/down or right/left to view from camera.
- 2. Turn the top of the Joystick to zoom in/out.
- 3. Press Zoom In/Out, Focus F. /N. and IRIS +/- function keys to operate the EPTZ860.

#### 1.6. Packing List

There are main body with a camera module, housing with a base board, bracket, power adapter,

Manual, plus one tool packet in the package. The detail accessories are listed below:

#### <u>Standard</u>

- Camera Main Body x1
- Bracket x1
- Housing x1
- Tool packet
  - ♦ RS485 Terminal Block
  - ♦ 1 desiccant packs

#### 1.7. Cable Needed



#### **Power Cable**

Power source with 24VAC/25W max.provides the power to the EPTZ860. An extension power line may be needed.

**Note:** The input AC voltage range of an adapter depends on different area.

Please make sure the voltage range before installing.

#### Video Cable

A BNC cable is used for connecting an EPTZ860 to a DVR or a monitor. An amplifier may be needed if the video cable is too long.

#### RS485 Cable

Yellow wire represents RS485+, orange wire represents RS485-. Connect RS485 to EKB500 and you will be able to control the speed dome by a keyboard. If you are unable to control the speed dome with EKB500, it is probably due to a mis-connection. Please try to switch RS485 wires and connect again.

#### 1.8. Initial Setup

Initial setup includes dome address, communication protocol, transmission speed, and terminal resistance settings. All of the settings should be confirmed before the dome is installed. The control-related setting that is address, communication protocol and transmission speed have to be set consistently with the control device such as a keyboard or a DVR.

**Notice:** Please make sure the power is off before setting, and restart the EPTZ860 to enable a new value after changing.

#### **Address Setting**

The address code of the EPTZ860 should be set to correspond properly with a control device to control multiple dome cameras. The address codes are made up by the dip switch on the camera main body. The 8 bits dip switch indicates the binary coded of the address, and there are 256 addresses can be selected (0 ~ 255). It also means that there are up to 256 dome cameras that can cascade on the RS-485 bus. The dip switch setting and the indicated address are represented in the following diagram.

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Note: The factory default address is 1.

Notice: Please make sure the power is off before setting, and restart the EPTZ860 to enable a

new value after changing.



**Note:** You will see the label of Protocol & Baud Rate as well as RS-485 ID address show on the speed dome. White part represents the switch key. For example: for EVF protocol, white keys are all switched downward; for ID Address 0, white keys are all switched downward.



Settings of SW2

The 1st-3rd DIP Switch are for reserved .The 4th and 5th DIP set the Baud rate, factory-default setting is 2400bps(Baud rate: 1200bps, 2400bps, 4800bps, 9600bps selectable)

The 8th bit of DIP switch SW2 is to select the matching resistor.

## Analogue IR speed dome series

Switch	Address	Switch	Address	Switch	Address	Switch	Address
ON 1 2 3 4 5 6 7 8	0	ON 1 2 3 4 5 6 7 8	32	ON 1 2 3 4 5 6 7 8	64	ON 1 2 3 4 5 6 7 8	96
ON 1 2 3 4 5 6 7 8	] 1	ON 1 2 3 4 5 6 7 8	33	ON 1 2 3 4 5 6 7 8	65	ON 1 2 3 4 5 6 7 8	97
ON 1 2 3 4 5 6 7 8	] 2	ON 1 2 3 4 5 6 7 8	] 34	ON 1 2 3 4 5 6 7 8	66	ON 1 2 3 4 5 6 7 8	98
ON 1 2 3 4 5 6 7 8	] 3	ON 1 2 3 4 5 6 7 8	35	ON 1 2 3 4 5 6 7 8	67	ON 1 2 3 4 5 6 7 8	99
ON 1 2 3 4 5 6 7 8	] 4	ON 1 2 3 4 5 6 7 8	] 36	ON 1 2 3 4 5 6 7 8	68	ON 1 2 3 4 5 6 7 8	100
ON 1 2 3 4 5 6 7 8	] 5	ON 1 2 3 4 5 6 7 8	] 37	ON 1 2 3 4 5 6 7 8	69	ON 1 2 3 4 5 6 7 8	101
ON 1 2 3 4 5 6 7 8	] 6	ON 1 2 3 4 5 6 7 8	38	ON 1 2 3 4 5 6 7 8	70	ON 1 2 3 4 5 6 7 8	102
ON 1 2 3 4 5 6 7 8	] 7	ON 1 2 3 4 5 6 7 8	] 39	ON 1 2 3 4 5 6 7 8	71	ON 1 2 3 4 5 6 7 8	103
ON 1 2 3 4 5 6 7 8	8	ON 1 2 3 4 5 6 7 8	40	ON 1 2 3 4 5 6 7 8	72	ON 1 2 3 4 5 6 7 8	104
ON 1 2 3 4 5 6 7 8	] 9	ON 1 2 3 4 5 6 7 8	41	ON 1 2 3 4 5 6 7 8	73	ON 1 2 3 4 5 6 7 8	105
ON 1 2 3 4 5 6 7 8	] 10	ON 1 2 3 4 5 6 7 8	42	ON 1 2 3 4 5 6 7 8	74	ON 1 2 3 4 5 6 7 8	106
ON 1 2 3 4 5 6 7 8	] 11	ON 1 2 3 4 5 6 7 8	43	ON 1 2 3 4 5 6 7 8	75	ON 1 2 3 4 5 6 7 8	107
ON 1 2 3 4 5 6 7 8	12	ON 1 2 3 4 5 6 7 8	44	ON 1 2 3 4 5 6 7 8	76	ON 1 2 3 4 5 6 7 8	108
ON 1 2 3 4 5 6 7 8	13	ON 1 2 3 4 5 6 7 8	45	ON 1 2 3 4 5 6 7 8	77	ON 1 2 3 4 5 6 7 8	109
ON 1 2 3 4 5 6 7 8	14	ON 1 2 3 4 5 6 7 8	46	ON 1 2 3 4 5 6 7 8	78	ON 1 2 3 4 5 6 7 8	110
ON 1 2 3 4 5 6 7 8	15	ON 1 2 3 4 5 6 7 8	47	ON 1 2 3 4 5 6 7 8	79	ON 1 2 3 4 5 6 7 8	111
ON 1 2 3 4 5 6 7 8	16	ON 1 2 3 4 5 6 7 8	48	ON 1 2 3 4 5 6 7 8	80	ON 1 2 3 4 5 6 7 8	112
ON 1 2 3 4 5 6 7 8	17	ON 1 2 3 4 5 6 7 8	49	ON 1 2 3 4 5 6 7 8	81	ON 1 2 3 4 5 6 7 8	113
ON 1 2 3 4 5 6 7 8	18	ON 1 2 3 4 5 6 7 8	50	ON 1 2 3 4 5 6 7 8	82	ON 1 2 3 4 5 6 7 8	114
ON 1 2 3 4 5 6 7 8	19	ON 1 2 3 4 5 6 7 8	51	ON 1 2 3 4 5 6 7 8	83	ON 1 2 3 4 5 6 7 8	115
ON 1 2 3 4 5 6 7 8	20	ON 1 2 3 4 5 6 7 8	52	ON 1 2 3 4 5 6 7 8	84	ON 1 2 3 4 5 6 7 8	116
ON 1 2 3 4 5 6 7 8	21	ON 1 2 3 4 5 6 7 8	53	ON 1 2 3 4 5 6 7 8	85	ON 1 2 3 4 5 6 7 8	117
ON 1 2 3 4 5 6 7 8	22	ON 1 2 3 4 5 6 7 8	54	ON 1 2 3 4 5 6 7 8	86	ON 1 2 3 4 5 6 7 8	118
ON 1 2 3 4 5 6 7 8	23	ON 1 2 3 4 5 6 7 8	55	ON 1 2 3 4 5 6 7 8	87	ON 1 2 3 4 5 6 7 8	119
ON 1 2 3 4 5 6 7 8	24	ON 1 2 3 4 5 6 7 8	56	ON 1 2 3 4 5 6 7 8	88	ON 1 2 3 4 5 6 7 8	120
ON 1 2 3 4 5 6 7 8	25	ON 1 2 3 4 5 6 7 8	57	ON 1 2 3 4 5 6 7 8	89	ON 1 2 3 4 5 6 7 8	121
ON 1 2 3 4 5 6 7 8	26	ON 1 2 3 4 5 6 7 8	58	ON 1 2 3 4 5 6 7 8	90	ON 1 2 3 4 5 6 7 8	122
ON 1 2 3 4 5 6 7 8	27	ON 1 2 3 4 5 6 7 8	59	ON 1 2 3 4 5 6 7 8	91	ON 1 2 3 4 5 6 7 8	123
	28		60		92		124
	29		61		93		125
ON 1 2 3 4 5 6 7 8	30	ON 1 2 3 4 5 6 7 8	62	ON 1 2 3 4 5 6 7 8	94	ON 1 2 3 4 5 6 7 8	126
UN 1 2 3 4 5 6 7 8	31	UN 1 2 3 4 5 6 7 8	63	UN 1 2 3 4 5 6 7 8	95	UN 1 2 3 4 5 6 7 8	127

Switch	Address	Switch	Address	Switch	Address	Switch	Address
ON 1 2 3 4 5 6 7 8	128	ON 1 2 3 4 5 6 7 8	160	ON 1 2 3 4 5 6 7 8	192	ON 1 2 3 4 5 6 7 8	224
ON 1 2 3 4 5 6 7 8	129	ON 1 2 3 4 5 6 7 8	161	ON 1 2 3 4 5 6 7 8	193	ON 1 2 3 4 5 6 7 8	225
ON 1 2 3 4 5 6 7 8	130	ON 1 2 3 4 5 6 7 8	162	ON 1 2 3 4 5 6 7 8	194	ON 1 2 3 4 5 6 7 8	226
ON 1 2 3 4 5 6 7 8	131	ON 1 2 3 4 5 6 7 8	163	ON 1 2 3 4 5 6 7 8	195	ON 1 2 3 4 5 6 7 8	227
ON 1 2 3 4 5 6 7 8	132	ON 1 2 3 4 5 6 7 8	164	ON 1 2 3 4 5 6 7 8	196	ON 1 2 3 4 5 6 7 8	228
ON 1 2 3 4 5 6 7 8	133	ON 1 2 3 4 5 6 7 8	165	ON 1 2 3 4 5 6 7 8	197	ON 1 2 3 4 5 6 7 8	229
ON 1 2 3 4 5 6 7 8	134	ON 1 2 3 4 5 6 7 8	166	ON 1 2 3 4 5 6 7 8	198	ON 1 2 3 4 5 6 7 8	230
ON 1 2 3 4 5 6 7 8	135	ON 1 2 3 4 5 6 7 8	167	ON 1 2 3 4 5 6 7 8	199	ON 1 2 3 4 5 6 7 8	231
ON 1 2 3 4 5 6 7 8	136	ON 1 2 3 4 5 6 7 8	168	ON 1 2 3 4 5 6 7 8	200	ON 1 2 3 4 5 6 7 8	232
ON 1 2 3 4 5 6 7 8	137	ON 1 2 3 4 5 6 7 8	169	ON 1 2 3 4 5 6 7 8	201	ON 1 2 3 4 5 6 7 8	233
ON 1 2 3 4 5 6 7 8	138	ON 1 2 3 4 5 6 7 8	170	ON 1 2 3 4 5 6 7 8	202	ON 1 2 3 4 5 6 7 8	234
ON 1 2 3 4 5 6 7 8	139	ON 1 2 3 4 5 6 7 8	171	ON 1 2 3 4 5 6 7 8	203	ON 1 2 3 4 5 6 7 8	235
ON 1 2 3 4 5 6 7 8	140	ON 1 2 3 4 5 6 7 8	172	ON 1 2 3 4 5 6 7 8	204	ON 1 2 3 4 5 6 7 8	236
ON 1 2 3 4 5 6 7 8	141	ON 1 2 3 4 5 6 7 8	173	ON 1 2 3 4 5 6 7 8	205	ON 1 2 3 4 5 6 7 8	237
ON 1 2 3 4 5 6 7 8	142	ON 1 2 3 4 5 6 7 8	174	ON 1 2 3 4 5 6 7 8	206	ON 1 2 3 4 5 6 7 8	238
ON 1 2 3 4 5 6 7 8	143	ON 1 2 3 4 5 6 7 8	175	ON 1 2 3 4 5 6 7 8	207	ON 1 2 3 4 5 6 7 8	239
ON 1 2 3 4 5 6 7 8	144	ON 1 2 3 4 5 6 7 8	176	ON 1 2 3 4 5 6 7 8	208	ON 1 2 3 4 5 6 7 8	240
ON 1 2 3 4 5 6 7 8	145	ON 1 2 3 4 5 6 7 8	177	ON 1 2 3 4 5 6 7 8	209	ON 1 2 3 4 5 6 7 8	241
ON 1 2 3 4 5 6 7 8	146	ON 1 2 3 4 5 6 7 8	178	ON 1 2 3 4 5 6 7 8	210	ON 1 2 3 4 5 6 7 8	242
ON 1 2 3 4 5 6 7 8	147	ON 1 2 3 4 5 6 7 8	179	ON 1 2 3 4 5 6 7 8	211	ON 1 2 3 4 5 6 7 8	243
ON 1 2 3 4 5 6 7 8	148	ON 1 2 3 4 5 6 7 8	180	ON 1 2 3 4 5 6 7 8	212	ON 1 2 3 4 5 6 7 8	244
ON 1 2 3 4 5 6 7 8	149	ON 1 2 3 4 5 6 7 8	181	ON 1 2 3 4 5 6 7 8	213	ON 1 2 3 4 5 6 7 8	245
ON 1 2 3 4 5 6 7 8	150	ON 1 2 3 4 5 6 7 8	182	ON 1 2 3 4 5 6 7 8	214	ON 1 2 3 4 5 6 7 8	246
ON 1 2 3 4 5 6 7 8	151	ON 1 2 3 4 5 6 7 8	183	ON 1 2 3 4 5 6 7 8	215	ON 1 2 3 4 5 6 7 8	247
ON 1 2 3 4 5 6 7 8	152	ON 1 2 3 4 5 6 7 8	184	ON 1 2 3 4 5 6 7 8	216	ON 1 2 3 4 5 6 7 8	248
ON 1 2 3 4 5 6 7 8	153	ON 1 2 3 4 5 6 7 8	185	ON 1 2 3 4 5 6 7 8	217	ON 1 2 3 4 5 6 7 8	249
ON 1 2 3 4 5 6 7 8	154	ON 1 2 3 4 5 6 7 8	186	ON 1 2 3 4 5 6 7 8	218	ON 1 2 3 4 5 6 7 8	250
ON 1 2 3 4 5 6 7 8	155	ON 1 2 3 4 5 6 7 8	187	ON 1 2 3 4 5 6 7 8	219	ON 1 2 3 4 5 6 7 8	251
ON 1 2 3 4 5 6 7 8	156	ON 1 2 3 4 5 6 7 8	188	ON 1 2 3 4 5 6 7 8	220	ON 1 2 3 4 5 6 7 8	252
ON 1 2 3 4 5 6 7 8	157	ON 1 2 3 4 5 6 7 8	189	ON 1 2 3 4 5 6 7 8	221	ON 1 2 3 4 5 6 7 8	253
ON 1 2 3 4 5 6 7 8	158	ON 1 2 3 4 5 6 7 8	190	ON 1 2 3 4 5 6 7 8	222	ON 1 2 3 4 5 6 7 8	254
ON 1 2 3 4 5 6 7 8	159	ON 1 2 3 4 5 6 7 8	191	ON 1 2 3 4 5 6 7 8	223	ON 1 2 3 4 5 6 7 8	255



#### **Communication Protocol Setting**

The 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> bits are used to set communication protocol. The factory default protocol is EVF.



Notice: Please make sure the power is off before setting, and restart the EPTZ860 to enable a

new value after changing.

Set all of protocol switches to ON; the speed dome EPTZ860 will enter a self-test mode.

#### Transmission Speed Setting (Baud Rate Setting)

The 4<sup>th</sup> and 5<sup>th</sup> bits on the PCB board are used to set the Baud Rate. The default baud rate setting is 9600.



Notice: Please make sure the power is off before setting, and restart the EPTZ860 to enable a

new value after changing.

#### 1.9. Bracket and Speed Dome Installation

#### **Installation Requirements**

- Installation should be handled by a qualified service agent and should comply with all local regulations. Service personnel should expect potential problems such as surface strength, surface material, falling objects, outer breaches, building vibration or other similar conditions.
- 2. Check for all necessary materials, and ensure if the selected installation location is suitable for the EPTZ860.



**EPTZ860** overview



#### EPTZ860 Speed Dome Camera Wall Mount Simple Installation



1. Screw the top housing to bracket by using a hexagon wrench.

2. Put the waterproof silicon pad on top of the bracket base for waterproof purpose.



3. Connect the cable you detached from base board to the RS485 cable, Power cable and video cable you thread from the wall or ceiling. RS485 cable has to be connected via a terminal block. If you need to connect alarm cable, thread the alarm cable through the second hole. **Note:** Since video cable and power cable are bare wires, installers have to prepare their own BNC connector and power cord connector.



4. Screw in 4 screws for mounting the bracket base.



5. Screw in 4 long screws to fix the bracket to bracket base.

**Note :** The camera module on the mechanical part is very sensitive. Please be careful when

installing this part.

6. Turn on the power, and start to operate the EPTZ860.



Note: When turning on the power, EPTZ860 will enter self-inspection mode, and carry out a

self-testing program. After finishing self-inspection, you can start to operate the EPTZ860.

#### EPTZ860 Camera Setup Menu

In this section, setup and operation guide of EPTZ860 will be introduced. There are 9 items of the setting menu.

#### 1.10. Structure of the Setup Menu

Press MENU to enter camera setup menu.

Turn the Joystick up/down to change subentries, and right/left to change the setting. If there is an arrow at the end of selection, it means that selection has a sub-menu, please press Enter key of keyboard to enter sub-menu.



<system></system>
<dome></dome>
<camera></camera>
<ir></ir>
<display></display>
<time></time>
<language></language>
<reset></reset>
EXIT
<time> <language> <reset> EXIT</reset></language></time>

(diagram 3.1)

#### 1.11. System

In main menu, turn joystick Up / Down to select SYSTEM option. Turn joystick Left / Right to enter

SYSTEM sub-menu (see diagram 3.2).



(diagram 3.2)

Turn joystick Left / Right to enter COMM SET sub-menu (see diagram 3.3).

<protocol></protocol>	PELCO-D/P
<comm></comm>	2400.N.8.1
<dome id=""></dome>	1
<module></module>	wx
<version></version>	V3.614P
<comm set=""></comm>	
EXIT	



DEVICE ID	0000~9999
CHECK ID	0000~9999
TARGET ID	
BAUD TATE	
EXIT	

(diagram 3.3)

- 1.10.0 <PROTOCOL> ( PELCO-D/P)
- 1.10.1 <COMM> (2400.N.8.1)
- 1.10.2 <DOME ID> (1)
- 1.10.3 <MODULE> (WX)
- 1.10.4 <VERSION> (V3.614P)
- 1.10.5 <COM SET>
  - a. DEVICE ID (0000~9999)

Default value is 1185

b. CHECK ID ( 0000~9999)

Default value is 0

- c. TARGET ID
- d. BAUD TATE

#### 1.12. Dome

In main menu, turn joystick Up or Down to select DOME option. Press Enter key or turn joystick Left / Right to enter DOME sub-menu (See diagram 3.4).







#### 1.11.0 PRESET

- a PRESET NO.001 (The default is PRESET NO.001)
- b CALL PRESET
- C SET PRESET

Press Enter key of keyboard to enter PRESET sub-menu.



1.11.1 SCAN

- 1.11.2 GUARD TOURS
- a GUARD TOUR NO.1
- b CALL GUARD TOUR
- C GUARD TOUR

Press Enter key of keyboard to enter GUARD TOURS sub-menu.







#### 1.11.3 PATTERN

- a PATTERN NO.1
- b CALL PATTERN
- C PATTERN

Press Enter key of keyboard to enter PATTERN sub-menu.



#### 1.11.4 PRIVACY ZONE

#### 1.11.5 OTHER

Press Enter key of keyboard to enter OHTER sub-menu.



(diagram 3.8)

a PARK MODE (NONE/ PATTERN 1/ TOUR 1/ 360SCAN/ AB SCAN/ PRESET 1~PRESET 8)

Press Enter key of keyboard to enter PARK MODE sub-menu.



(diagram 3.9)

b PARK TIME (1 ~ 60)

The default is 5

C POWER ON ACT

MEMORY (The default is MEMORY)/ PATTERN 1/ TOUR 1/ 360SCAN/ AB SCAN/ PRESET 1~PRESET 8

Г

Press Enter key of keyboard to enter POWER ON ACT sub-menu.

	MEMORY The default is MEMORY
PARK MODE	PATTERN1
PARK TIME	TOUR1
POWER ON ACT	360SCAN
RATIO SPEED	AB SCAN
AUTO FLIP	PRESET1~PRESET8
EXIT	EXIT

(diagram 4.0)

#### d RATIO SPEED ( ON/ OFF)

The default is ON

Press Enter key of keyboard to enter RATIO SPEED sub-menu.







#### e AUTO FLIP ( ON/ OFF)

The default is ON

Press Enter key of keyboard to enter AUTO FLIP sub-menu.





#### 1.11.6 ALARM

Press Enter key of keyboard to enter ALARM sub-menu.







- a ALARM IN (ON/OFF)
- b ALARM IN ( NC/ NO)
- C PATROL TIME (05S~10S)
- d ALARM 1 ( PR BIG/ PRESET 1~ PRESET 16)
- e ALARM 2 ( PR LOW/ PRESET 1 ~ PRESET 16)
- f ALARM 3

Turn joystick up ( PRESET 21/ PRESET43/ PRESET 65/ PRESET 87/ PRESET 109/ PRESET 121/ PRESET 43/

PRESET 65)

Turn joystick down ( PRESET 1~ PRESET 16)

g ALARM 4 ( PR OFF/ PRESET 1~ PRESET 16)

#### 1.13. Camera

#### 1.14. IR

In main menu, turn joystick Up or Down to select IR option. Press Enter key or turn joystick Left / Right to enter IR sub-menu (See diagram 4.4).







- 1.13.0 IR MODE
  - a AUTO
  - b LARGE LIGHT
- C SMALL LIGHT
- d MANUAL
- e OFF

Press Enter key of keyboard to enter IR MODE sub-menu.



(diagram 4.5)

- 1.13.1 OUTPUT POWER (1~9)
- 1.13.2 TESTING TIME (02S ~15S)
- 1.13.3 STANDBY POWER (1~9)
- 1.13.4 STANDBY TIME (15S~30S)
- 1.13.5 ILLUMINATION ON( 00L~25L)
- 1.13.6 IR SWITCH ZOOM( 0~20)
- 1.13.7 AMBIENT LIGHT (37L)

#### 1.15. Display

In main menu, turn joystick Up or Down to select DISPLAY option. Press Enter key or turn joystick Left / Right to enter DISPLAY sub-menu (See diagram 4.6).





- 1.14.0 DOME ID (ON/ OFF)
- 1.14.1 ZOOM (ON/ OFF)
- 1.14.2 P AND T (ON/ OFF)
- 1.14.3 ACT (ON/ OFF)
- 1.14.4 TIME (ON/ OFF)
- 1.14.5 IR (ON/ OFF)

#### 1.15. Time( DATE/TIME/<SCHEDULE>)

#### 1.16. Language

In main menu, turn joystick Up or Down to select LAGUAGE option. Press Enter key or turn

joystick Left / Right to enter LANGUAGE sub-menu (See diagram 4.7).





#### 1.17. Reset

In main menu, turn joystick Up or Down to select RESET option. Press Enter key or turn joystick

Left / Right to enter RESET sub-menu (See diagram 4.8).



- 1.17.1 SYS DATA
- 1.17.2 FACTORY DEFAULT
- 1.17.3 CALIBRATION
  - a. Off
- b. 1D~15D, the default is 15D

#### 1.18. Exit

Select Exit to save settings and exit from current page.

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