# Speed Dome

# EPTZ3000/EPTZ3000I

# **USER MANUAL**



Date: Nov 2008

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## 1. EPTZ3000/EPTZ3000I OVERVIEW

### 1.1. Introduction

EPTZ3000/EPTZ3000I, an intelligent high-speed dome camera is ready to secure your property with its omni-directional and exact monitoring. A 30X optical and 8X digital zoom combining with a high-performance chip makes captured images clear and vivid. The other powerful camera functions EPTZ3000/EPTZ3000I equips with:

- Wide Dynamic makes objects clear in a high illumination background.
- Vertical double density interline CCD with a slower shutter and true Day/Night function.
- ➤ Electronics flip, no mechanical flip is necessary.
- > 520 color/570 B&W TVL; PAL/NTSC image formats support.
- Auto and fast focus increases the searching speed and precision.
- Auto Iris adjusts the monitoring image to the best brightness.
- White Balance function makes the shades of color more natural in different light conditions.
- Color / B&W images auto switching to enhance the sensitivity in a low light condition or at night.
- Private zone protects your privacy.

Furthermore, the micro control unit enables camera a nimble and exact movement from minimal 0.01°/sec to maximal 360°/sec. It can go to every preset position in 1 second. It also has other advantages such as:

- > 192 preset positions are available.
- ➤ 16 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.
- Auto heater and fan to fit all kinds of temperature (outdoor models).
- Built-in 4 alarm inputs and 1 alarm output.

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, and etc.

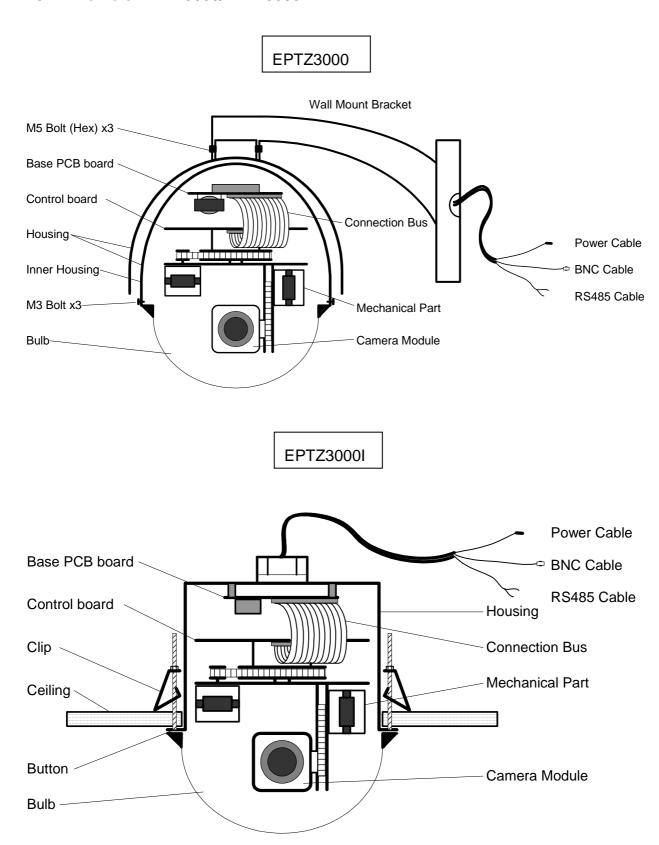
# 1.2. Specifications

Model	Pickup Device  1/4" Vertical double density interline CCD  Video Format  Scanning System  NTSC: 525 TV lines, 60 fields/sec PAL: 625 TV lines, 50 fields/sec PAL: 625 TV lines, 50 fields/sec Picture Elements  768 x 494 (NTSC), 752 x 582 (PAL)  Horizontal Resolution  520 TVL:Color; 570TVL:B/W  Sensitivity  0.3 Lux/F=1.6 Color; 0.05 Lux/F=1.6 B/W  S/N Ratio  Over 52dB  Electronic Shutter  128x (Slow Shutter ON)~1/60~1/120,000 sec (NTSC) 128x (Slow Shutter ON)~1/50~1/120,000 sec (PAL)  Digital Slow Shutter  OFF/4x/8x/12x/16x/32x/64x/128x selectable  Shutter Selection  AUTO/A.FLK/Manual (x8~1/120000) selectable Lens Type  30x optical zoom , f=3.3 mm (wide) to 99mm (tele) , F1.6 to 100 for the composition of the					
Video Format         NTSC or PAL           Scanning System         NTSC: 525 TV lines, 60 fields/sec           Picture Elements         768 x 494 (NTSC), 752 x 582 (PAL)           Horizontal Resolution         520 TVL:Color; 570TVL:B/W           Sensitivity         0.3 Lux/F=1.6 Color; 0.05 Lux/F=1.6 B/W           S/N Ratio         Over 52dB           Electronic Shutter         128x (Slow Shutter ON)-1/50-1/120,000 sec (NTSC)           128x (Slow Shutter ON)-1/50-1/120,000 sec (PAL)           Digital Slow Shutter         OFF/4x/8x/12x/16x/32x/64x/128x selectable           Shutter Selection         AUTO/A.FLK/Manual (x8-1/120000) selectable           Lens Type         30x optical zoom, f=3.3 mm (wide) to 99mm (tele), F1.6 to           Zoom Ratio         240x max (30x Optical and 8x Digital Zoom)           True Day/Night         Auto/Manual ICR           Black Light Comp.         No           Auto Gain Control         Auto/Manual           White Balance         Auto Indoor/Auto Outdoor/One push/Man 2000K,3200K,51 selectable           Video Output         BNC 1.0Vp-p, 75ohm           Sync. Mode         Line Lock/Internal Sync           Power Source         24VAC           Power Consumption         24VAC 18W Max. (without heater)           No         24VAC 18W Max. (without heater)	Video Format         NTSC or PAL           Scanning System         NTSC: 525 TV lines, 60 fields/sec           PAL: 625 TV lines, 50 fields/sec           Picture Elements         768 x 494 (NTSC), 752 x 582 (PAL)           Horizontal Resolution         520 TVL:Color; 570TVL:B/W           Sensitivity         0.3 Lux/F=1.6 Color; 0.05 Lux/F=1.6 B/W           S/N Ratio         Over 52dB           Electronic Shutter         128x (Slow Shutter ON)~1/60~1/120,000 sec (NTSC)           128x (Slow Shutter ON)~1/50~1/120,000 sec (PAL)           Digital Slow Shutter         OFF/4x/8x/12x/16x/32x/64x/128x selectable           Shutter Selection         AUTO/A.FLK/Manual (x8~1/120000) selectable           Lens Type         30x optical zoom, f=3.3 mm (wide) to 99mm (tele), F1.6 t           Zoom Ratio         240x max (30x Optical and 8x Digital Zoom)           True Day/Night         Auto/Manual ICR           Black Light Comp.         No           Auto Gain Control         Auto/Manual           White Balance         Auto Indoor/Auto Outdoor/One push/Man 2000K,3200K,5           selectable         Selectable           Video Output         BNC 1.0Vp-p, 750hm           Sync. Mode         Line Lock/Internal Sync           Power Source         24VAC	)				
NTSC: 525 TV lines, 60 fields/sec   PAL: 625 TV lines, 50 fields/sec   PAL: 625 TV	Scanning System  NTSC: 525 TV lines, 60 fields/sec PAL: 625 TV lines, 50 fields/sec Picture Elements  768 x 494 (NTSC), 752 x 582 (PAL)  Horizontal Resolution  520 TVL:Color; 570TVL:B/W  Sensitivity  0.3 Lux/F=1.6 Color; 0.05 Lux/F=1.6 B/W  S/N Ratio  Over 52dB  Electronic Shutter  128x (Slow Shutter ON)~1/60~1/120,000 sec (NTSC) 128x (Slow Shutter ON)~1/50~1/120,000 sec (PAL)  Digital Slow Shutter  OFF/4x/8x/12x/16x/32x/64x/128x selectable  Shutter Selection  AUTO/A.FLK/Manual (x8~1/120000) selectable  Lens Type  30x optical zoom, f=3.3 mm (wide) to 99mm (tele), F1.6 to 240x max (30x Optical and 8x Digital Zoom)  True Day/Night  Auto/Manual ICR  Black Light Comp.  No  Auto Gain Control  White Balance  Auto Indoor/Auto Outdoor/One push/Man 2000K,3200K,5 selectable  Video Output  BNC 1.0Vp-p, 75ohm  Sync. Mode  Line Lock/Internal Sync  Power Source	)				
PAL: 625 TV lines, 50 fields/sec  Picture Elements 768 x 494 ( NTSC ) , 752 x 582 ( PAL )  Horizontal Resolution 520 TVL:Color ; 570TVL:B/W  Sensitivity 0.3 Lux/F=1.6 Color ; 0.05 Lux/F=1.6 B/W  S/N Ratio Over 52dB  Electronic Shutter 128x (Slow Shutter ON)~1/60~1/120,000 sec (NTSC)  128x (Slow Shutter ON)~1/50~1/120,000 sec (PAL)  Digital Slow Shutter OFF/4x/8x/12x/16x/32x/64x/128x selectable  Shutter Selection AUTO/A.FLK/Manual (x8~1/120000) selectable  Lens Type 30x optical zoom , f=3.3 mm (wide) to 99mm (tele) , F1.6 to  Zoom Ratio 240x max ( 30x Optical and 8x Digital Zoom )  True Day/Night Auto/Manual ICR  Black Light Comp. No  Auto Gain Control Auto/Manual  White Balance Auto Indoor/Auto Outdoor/One push/Man 2000K,3200K,51  selectable  Video Output BNC 1.0Vp-p , 75ohm  Sync. Mode Line Lock/Internal Sync  Power Source 24VAC  Power Consumption 24VAC 18W Max. ( without heater ) 18W  24VAC 66W Max. ( with heater )  70W  Operating Temperature -40°C-50°C ; -40°F-122°F 0°C~ 50°C ; 32°F~122°F  Focus Control One push/Auto/Manual  Horizontal Rotation Speed 0.1°s~360°s (1-239 grade shift gears)  Horizontal Rotation Range 180° pendulum motion  Auto Pan, 2 Points Can set freely	PAL: 625 TV lines, 50 fields/sec	)				
Picture Elements         768 x 494 ( NTSC ) , 752 x 582 ( PAL )           Horizontal Resolution         520 TVL:Color ; 570TVL:B/W           Sensitivity         0.3 Lux/F=1.6 Color ; 0.05 Lux/F=1.6 B/W           S/N Ratio         Over 52dB           Electronic Shutter         128x (Slow Shutter ON)~1/50~1/120,000 sec (NTSC)           128x (Slow Shutter ON)~1/50~1/120,000 sec (PAL)           Digital Slow Shutter         OFF/4x/8x/12x/16x/32x/64x/128x selectable           Shutter Selection         AUTO/A.FLK/Manual (x8~1/120000) selectable           Lens Type         30x optical zoom , f=3.3 mm (wide) to 99mm (tele) , F1.6 to           Zoom Ratio         240x max ( 30x Optical and 8x Digital Zoom )           True Day/Night         Auto/Manual ICR           Black Light Comp.         No           Auto Gain Control         Auto Indoor/Auto Outdoor/One push/Man 2000K,3200K,51           Selectable         Video Output         BNC 1.0Vp-p , 75ohm           Sync. Mode         Line Lock/Internal Sync           Power Source         24VAC         24VAC           Power Consumption         24VAC 18W Max. ( without heater )         24VAC 18W Max. ( with heater )           ToW         24VAC 66W Max. ( with heater )         0°C~ 50°C ; 32°F~122°F           Focus Control         One push/Auto/Manual           Horizontal Rotati	Picture Elements Horizontal Resolution  520 TVL:Color; 570TVL:B/W  Sensitivity  0.3 Lux/F=1.6 Color; 0.05 Lux/F=1.6 B/W  S/N Ratio  Over 52dB  Electronic Shutter  128x (Slow Shutter ON)~1/60~1/120,000 sec (NTSC 128x (Slow Shutter ON)~1/50~1/120,000 sec (PAL)  Digital Slow Shutter  OFF/4x/8x/12x/16x/32x/64x/128x selectable  Shutter Selection  AUTO/A.FLK/Manual (x8~1/120000) selectable  Lens Type  30x optical zoom, f=3.3 mm (wide) to 99mm (tele), F1.6 to 240x max (30x Optical and 8x Digital Zoom)  True Day/Night  Auto/Manual ICR  Black Light Comp.  Auto Gain Control  White Balance  Auto Indoor/Auto Outdoor/One push/Man 2000K,3200K,5 selectable  Video Output  BNC 1.0Vp-p, 75ohm  Sync. Mode  Line Lock/Internal Sync  Power Source	)				
Horizontal Resolution   S20 TVL:Color; 570TVL:B/W	Horizontal Resolution  Sensitivity  O.3 Lux/F=1.6 Color; 0.05 Lux/F=1.6 B/W  S/N Ratio  Over 52dB  Electronic Shutter  128x (Slow Shutter ON)~1/60~1/120,000 sec (NTSC)  128x (Slow Shutter ON)~1/50~1/120,000 sec (PAL)  Digital Slow Shutter  OFF/4x/8x/12x/16x/32x/64x/128x selectable  Shutter Selection  AUTO/A.FLK/Manual (x8~1/120000) selectable  Lens Type  30x optical zoom , f=3.3 mm (wide) to 99mm (tele) , F1.6 to 240x max ( 30x Optical and 8x Digital Zoom )  True Day/Night  Black Light Comp.  Auto Gain Control  White Balance  Auto Indoor/Auto Outdoor/One push/Man 2000K,3200K,5 selectable  Video Output  BNC 1.0Vp-p , 75ohm  Line Lock/Internal Sync  Power Source  24VAC	)				
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Lens Type 30x optical zoom , f=3.3 mm (wide) to 99mm (tele) , F1.6 to Zoom Ratio 240x max ( 30x Optical and 8x Digital Zoom )  True Day/Night Auto/Manual ICR  Black Light Comp. No  Auto Gain Control Auto/Manual  White Balance Auto Indoor/Auto Outdoor/One push/Man 2000K,3200K,51 selectable  Video Output BNC 1.0Vp-p , 75ohm  Sync. Mode Line Lock/Internal Sync  Power Source 24VAC  Power Consumption 24VAC 18W Max. ( without heater ) 18W  24VAC 66W Max. ( with heater ) 70W  Operating Temperature -40°C~50°C; -40°F~122°F 0°C~ 50°C; 32°F~122°F  Focus Control One push/Auto/Manual  Horizontal Rotation Speed 0.17s-360°s (1-239 grade shift gears)  Horizontal Rotation Range 360° unlimited rotation  Tilt Rotation Range 180° pendulum motion  Auto Zoom Speed Control Control speed auto-adjusted according to zoom length char Auto Pan, 2 Points Can set freely	Lens Type 30x optical zoom , f=3.3 mm (wide) to 99mm (tele) , F1.6 to Zoom Ratio 240x max ( 30x Optical and 8x Digital Zoom )  True Day/Night Auto/Manual ICR  Black Light Comp. No  Auto Gain Control Auto/Manual  White Balance Auto Indoor/Auto Outdoor/One push/Man 2000K,3200K,5 selectable  Video Output BNC 1.0Vp-p , 75ohm  Sync. Mode Line Lock/Internal Sync  Power Source 24VAC					
Zoom Ratio       240x max ( 30x Optical and 8x Digital Zoom )         True Day/Night       Auto/Manual ICR         Black Light Comp.       No         Auto Gain Control       Auto/Manual         White Balance       Auto Indoor/Auto Outdoor/One push/Man 2000K,3200K,51 selectable         Video Output       BNC 1.0Vp-p , 75ohm         Sync. Mode       Line Lock/Internal Sync         Power Source       24VAC         Power Consumption       24VAC 18W Max. ( without heater ) 18W         24VAC 66W Max. ( with heater ) 70W       24VAC 66W Max. ( with heater ) 12°F         Operating Temperature       -40°C~50°C ; -40°F~122°F       0°C~ 50°C ; 32°F~122°F         Focus Control       One push/Auto/Manual         Horizontal Rotation Speed       0.1%s~360%s (1-239 grade shift gears)         Horizontal Rotation Range       360° unlimited rotation         Tilt Rotation Range       180° pendulum motion         Auto Zoom Speed Control       Control speed auto-adjusted according to zoom length char         Auto Pan, 2 Points       Can set freely	Zoom Ratio  240x max ( 30x Optical and 8x Digital Zoom )  True Day/Night  Black Light Comp.  Auto/Manual ICR  No  Auto/Manual  White Balance  Auto Indoor/Auto Outdoor/One push/Man 2000K,3200K,5 selectable  Video Output  BNC 1.0Vp-p , 750hm  Sync. Mode  Power Source  24VAC					
True Day/Night Black Light Comp. Auto Gain Control White Balance Auto Indoor/Auto Outdoor/One push/Man 2000K,3200K,519 Selectable Video Output BNC 1.0Vp-p , 750hm Sync. Mode Line Lock/Internal Sync Power Source 24VAC Power Consumption 24VAC 18W Max. ( without heater ) 18W 24VAC 66W Max. ( with heater ) 70W Operating Temperature Focus Control One push/Auto/Manual Horizontal Rotation Speed Horizontal Rotation Range Tilt Rotation Range Auto Pan, 2 Points Auto Indoor/Auto Outdoor/One push/Man 2000K,3200K,519 Auto/Manual Outdoor/One push/Manual Auto/Manual OC~ 50°C; -40°F~122°F OC~ 50°C; 32°F~122°F OC~ 50°C; 32°F~12	True Day/Night  Auto/Manual ICR  Black Light Comp.  Auto Gain Control  White Balance  Auto Indoor/Auto Outdoor/One push/Man 2000K,3200K,5 selectable  Video Output  BNC 1.0Vp-p , 75ohm  Sync. Mode  Power Source  24VAC	o F3.2				
Black Light Comp.  Auto Gain Control  Auto Manual  White Balance  Auto Indoor/Auto Outdoor/One push/Man 2000K,3200K,510 selectable  Video Output  BNC 1.0Vp-p , 75ohm  Sync. Mode  Line Lock/Internal Sync  Power Source  Power Consumption  24VAC  Power Consumption  24VAC 18W Max. (without heater ) 18W  24VAC 66W Max. (with heater ) 70W  Operating Temperature  -40°C-50°C; -40°F-122°F  Focus Control  Horizontal Rotation Speed  0.1%s-360% (1-239 grade shift gears)  Horizontal Rotation Range  180° pendulum motion  Auto Zoom Speed Control  Control speed auto-adjusted according to zoom length chandal Can set freely	Black Light Comp.  Auto Gain Control  White Balance  Auto Indoor/Auto Outdoor/One push/Man 2000K,3200K,5 selectable  Video Output  BNC 1.0Vp-p , 75ohm  Sync. Mode  Power Source  24VAC					
Auto Gain Control  White Balance Auto Indoor/Auto Outdoor/One push/Man 2000K,3200K,510 selectable  Video Output BNC 1.0Vp-p, 75ohm  Sync. Mode Line Lock/Internal Sync  Power Source 24VAC  Power Consumption 24VAC 18W Max. ( without heater ) 18W 24VAC 66W Max. ( with heater ) 70W  Operating Temperature -40°C~50°C; -40°F~122°F  Focus Control One push/Auto/Manual Horizontal Rotation Speed Horizontal Rotation Range Tilt Rotation Range 180° pendulum motion  Auto Zoom Speed Control Control speed auto-adjusted according to zoom length chark Auto Pan, 2 Points  Can set freely	Auto Gain Control  White Balance  Auto Indoor/Auto Outdoor/One push/Man 2000K,3200K,5 selectable  Video Output  BNC 1.0Vp-p , 75ohm  Sync. Mode  Line Lock/Internal Sync  Power Source  24VAC	Auto/Manual ICR				
White Balance Auto Indoor/Auto Outdoor/One push/Man 2000K,3200K,510 selectable  Video Output BNC 1.0Vp-p , 750hm  Sync. Mode Line Lock/Internal Sync  Power Source 24VAC  Power Consumption 24VAC 18W Max. ( without heater ) 18W 24VAC 66W Max. ( with heater ) 70W  Operating Temperature -40°C~50°C ; -40°F~122°F  Focus Control One push/Auto/Manual Horizontal Rotation Speed 0.1%s~360% (1-239 grade shift gears) Horizontal Rotation Range 360° unlimited rotation Tilt Rotation Range 180° pendulum motion  Auto Zoom Speed Control Control speed auto-adjusted according to zoom length characterists.	White Balance  Auto Indoor/Auto Outdoor/One push/Man 2000K,3200K,5 selectable  Video Output  BNC 1.0Vp-p , 75ohm  Sync. Mode  Line Lock/Internal Sync  Power Source  24VAC	No				
Selectable  Video Output  BNC 1.0Vp-p , 75ohm  Sync. Mode  Line Lock/Internal Sync  Power Source  24VAC  Power Consumption  24VAC 18W Max. ( without heater ) 18W  24VAC 66W Max. ( with heater )  70W  Operating Temperature  -40°~50°C ; -40°F~122°F  Focus Control  One push/Auto/Manual  Horizontal Rotation Speed  0.1%s~360% (1-239 grade shift gears)  Horizontal Rotation Range  360° unlimited rotation  Tilt Rotation Range  180° pendulum motion  Auto Zoom Speed Control  Control speed auto-adjusted according to zoom length chark  Auto Pan, 2 Points  Can set freely	Selectable  Video Output  BNC 1.0Vp-p , 75ohm  Sync. Mode  Line Lock/Internal Sync  Power Source  24VAC					
Video Output  Sync. Mode  Line Lock/Internal Sync  Power Source  Power Consumption  24VAC 18W Max. ( without heater ) 18W  24VAC 66W Max. ( with heater )  70W  Operating Temperature  -40°C~50°C; -40°F~122°F  Focus Control  One push/Auto/Manual  Horizontal Rotation Speed  Horizontal Rotation Range  780° unlimited rotation  Auto Zoom Speed Control  Control speed auto-adjusted according to zoom length chanal  Auto Pan, 2 Points  Can set freely	Video Output BNC 1.0Vp-p , 75ohm Sync. Mode Line Lock/Internal Sync Power Source 24VAC	100K				
Sync. Mode  Power Source  24VAC  Power Consumption  24VAC 18W Max. (without heater) 18W  24VAC 66W Max. (with heater)  70W  Operating Temperature  -40°C~50°C; -40°F~122°F  Focus Control  One push/Auto/Manual  Horizontal Rotation Speed  0.1%s~360% (1-239 grade shift gears)  Horizontal Rotation Range  360° unlimited rotation  Tilt Rotation Range  180° pendulum motion  Auto Zoom Speed Control  Control speed auto-adjusted according to zoom length chance and the control of the control o	Sync. Mode  Line Lock/Internal Sync  Power Source  24VAC					
Power Source  Power Consumption  24VAC 18W Max. ( without heater ) 18W  24VAC 66W Max. ( with heater )  70W  Operating Temperature  -40°C~50°C; -40°F~122°F  Focus Control  One push/Auto/Manual  Horizontal Rotation Speed  0.1%s~360%s (1-239 grade shift gears)  Horizontal Rotation Range  360° unlimited rotation  Tilt Rotation Range  180° pendulum motion  Auto Zoom Speed Control  Control speed auto-adjusted according to zoom length chance have a company to the company t	Power Source 24VAC					
Power Consumption  24VAC 18W Max. (without heater) 18W  24VAC 66W Max. (with heater)  70W  Operating Temperature  -40°C~50°C; -40°F~122°F  Focus Control  One push/Auto/Manual  Horizontal Rotation Speed  0.1%s~360% (1-239 grade shift gears)  Horizontal Rotation Range  360° unlimited rotation  Tilt Rotation Range  180° pendulum motion  Auto Zoom Speed Control  Control speed auto-adjusted according to zoom length change  Auto Pan, 2 Points  Can set freely						
heater ) 18W 24VAC 66W Max. ( with heater ) 70W  Operating Temperature -40°C~50°C ; -40°F~122°F 0°C~ 50°C ; 32°F~122°F  Focus Control One push/Auto/Manual  Horizontal Rotation Speed 0.1%s~360% (1-239 grade shift gears)  Horizontal Rotation Range 360° unlimited rotation  Tilt Rotation Range 180° pendulum motion  Auto Zoom Speed Control Control speed auto-adjusted according to zoom length chan Auto Pan, 2 Points Can set freely	Power Consumption 24VAC 18W Max. ( without 24VAC 18W Max.					
24VAC 66W Max. ( with heater ) 70W  Operating Temperature  -40℃~50℃; -40℉~122℉  Focus Control  One push/Auto/Manual  Horizontal Rotation Speed  0.1∜s~360∜s (1-239 grade shift gears)  Horizontal Rotation Range  360° unlimited rotation  Tilt Rotation Range  180° pendulum motion  Auto Zoom Speed Control  Control speed auto-adjusted according to zoom length chan Auto Pan, 2 Points  Can set freely						
70W  Operating Temperature -40℃~50℃; -40♥~122♥ 0℃~ 50℃; 32♥~122♥  Focus Control One push/Auto/Manual  Horizontal Rotation Speed 0.1%~360% (1-239 grade shift gears)  Horizontal Rotation Range 360°unlimited rotation  Tilt Rotation Range 180°pendulum motion  Auto Zoom Speed Control Control speed auto-adjusted according to zoom length chan Auto Pan, 2 Points Can set freely	heater ) 18W					
Operating Temperature       -40℃~50℃; -40♥~122♥       0℃~ 50℃; 32♥~122♥         Focus Control       One push/Auto/Manual         Horizontal Rotation Speed       0.1%s~360%s (1-239 grade shift gears)         Horizontal Rotation Range       360° unlimited rotation         Tilt Rotation Range       180° pendulum motion         Auto Zoom Speed Control       Control speed auto-adjusted according to zoom length change         Auto Pan, 2 Points       Can set freely	24VAC 66W Max. ( with heater )					
Focus Control One push/Auto/Manual Horizontal Rotation Speed O.1%s~360% (1-239 grade shift gears) Horizontal Rotation Range Tilt Rotation Range Auto Zoom Speed Control Control speed auto-adjusted according to zoom length chan Auto Pan, 2 Points Can set freely	70W					
Horizontal Rotation Speed 0.1% ~ 360% (1-239 grade shift gears)  Horizontal Rotation Range 360% unlimited rotation  Tilt Rotation Range 180% pendulum motion  Auto Zoom Speed Control Control speed auto-adjusted according to zoom length chan Auto Pan, 2 Points Can set freely	Operating Temperature $-40$ °C $\sim$ 50°C; $-40$ °F $\sim$ 122°F $0$ °C $\sim$ 50°C; $32$ °F $\sim$ 122	F				
Horizontal Rotation Range 360° unlimited rotation  Tilt Rotation Range 180° pendulum motion  Auto Zoom Speed Control Control speed auto-adjusted according to zoom length chan Auto Pan, 2 Points Can set freely	Focus Control One push/Auto/Manual	One push/Auto/Manual				
Tilt Rotation Range 180° pendulum motion  Auto Zoom Speed Control Control speed auto-adjusted according to zoom length chan Auto Pan, 2 Points Can set freely	Horizontal Rotation Speed 0.1%-360% (1-239 grade shift gears)	0.1%s~360%s (1-239 grade shift gears)				
Auto Zoom Speed Control Control speed auto-adjusted according to zoom length chan Auto Pan, 2 Points Can set freely	Horizontal Rotation Range 360° unlimited rotation	360° unlimited rotation				
Auto Pan, 2 Points Can set freely	Tilt Rotation Range 180° pendulum motion					
	Auto Zoom Speed Control   Control speed auto-adjusted according to zoom length cha					
Commission	Auto Pan, 2 Points Can set freely	anging				
Scanning	Scanning	anging				
Auto Pan Speed 1~239 grades available	Auto Pan Speed 1~239 grades available	anging				

Dwell Time (2 points)	1~127 seconds available				
Preset Positions	128 positions				
Running to Position Speed	1~239 grades available				
Dwell Time at Preset	1~239 secon	ds available			
Position					
Tour	16 grd	oups			
Tour Point per Group	16 preset	positions			
Fan & Heater	Fan & Heater auto starts	No			
Position Accuracy	±0.1°				
Alarm	4 in 1 out with tour/position auto triggering				
Built-in Menu for	Yes				
Functions					
Communication	RS-4	485			
Communication Speed	1200/2400/48	00/9600 bps			
Built-in Protocols	EVF-1 ; Pelco-P ; Pelc	o-D ; A –type ; Plus-D			
Address Editable	Yes (through DIP switch)				
Speed Dome Address	0-255				
Manual Pan/Tilt Speed	Pan: 0.01° ~ 360°/s ; Tilt: 0.01° ~ 360°/s				
Weatherproof Ratings	IP66	Indoor			
Safety	CE ; FCC				
Dimensions	330mm(W) x 365mm(H) x	208mm(W) x 215mm(H) x			
	220mm(O.D) /	208mm(O.D) /			
	13"(W) x 14.4" (H) x 8.7"(O.D)	8.7"(W) x 12.2" (H) x 8.7"(O.D)			
Weight	4.2kg/9.25lbs	2.15kg/4.8lbs			

## 1.3. Feature

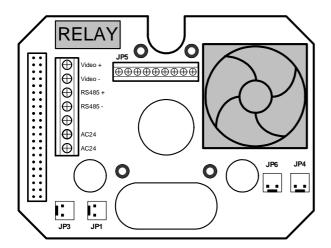
### 1.3.1. Profile of EPTZ3000/EPTZ3000I



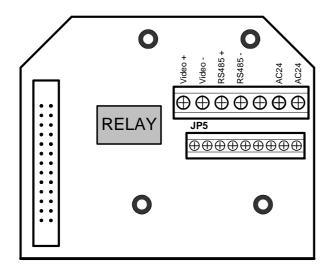
#### 1.3.2. EPTZ3000/EPTZ3000I Base Board

The base board that is on the bottom of the housing connects to power cable, video cable, control cable, alarm cable, fan and heater. In order to connect to cables, the board needs to be taken off, and put back after finishing connecting to all cables. The connectors of cable names are marked on the board in white text. The details of the alarm connector (JP5) are shown on the APPENDIX A.

For EPTZ3000 outdoor model, JP1, JP3 and JP6 that are two-pin connectors need to be taken off during installing. JP1 and JP3 are connectors for heater, and they can be switched. JP6 is a fan controller connector that turns on/off of the fan. The 3 cables are too short to be connected to a wrong connector when putting them back.



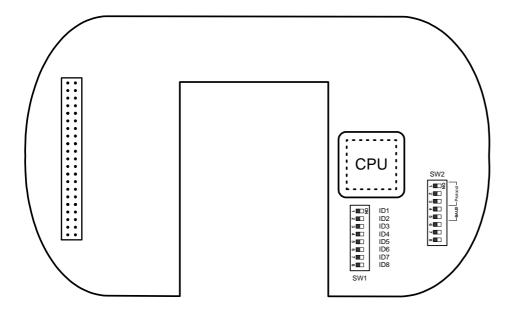
EPTZ3000 Baseboard



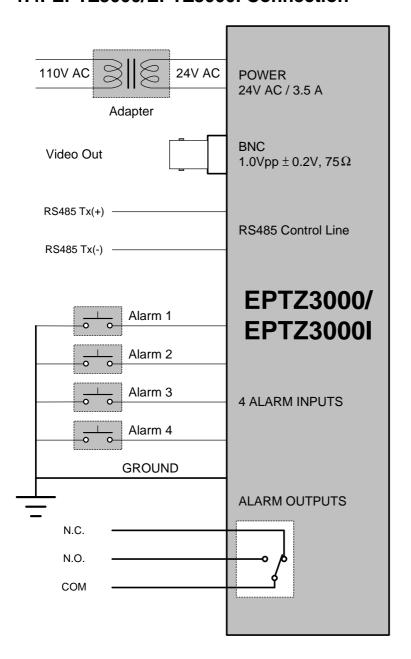
EPTZ3000I Baseboard

## 1.3.3. EPTZ3000/EPTZ3000I Control Board

The PCB board with two dipswitches is the control board of EPTZ3000/EPTZ3000I. The two switches are used to set address, protocol, Baud Rate, video format and terminal resistance.



## 1.4. EPTZ3000/EPTZ3000I Connection



## 1.5. EPTZ3000/EPTZ3000l Quick Operation Guide (Work with EKB500)

EPTZ3000/EPTZ3000I 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 EPTZ3000/EPTZ3000I and a keyboard (EKB500).
- 2. Connect a video cable from EPTZ3000/EPTZ3000I to a monitor.
- 3. Connect the power to the EPTZ3000/EPTZ3000I and a keyboard (EKB500).

  After the EPTZ3000/EPTZ3000I finishes the self-test mode, you can start to operate the EPTZ3000/EPTZ3000I via the keyboard.

## To operate the EPTZ3000/EPTZ3000I:



- 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 EPTZ3000/EPTZ3000I.

### 2. EPTZ3000/EPTZ3000I INSTALLATION

## 2.1. Packing List

There are 3 boxes that are housing, bulb and mechanical part with a camera module, one wall mount bracket, one power adapter and one tool packet in the package. The detail accessories list below:

- Housing x1
- ➤ Bulb x1
- Mechanical part with a camera module x1
- Wall mount bracket x1
- Adapter x1
- Tool packet
  - ♦ Glove x2
  - ♦ M5 Hex Allen wrench x1
  - ♦ Pin connector x1
  - ♦ M5 screw (Hex) x3 for wall mount bracket fixing
  - ♦ M3 screw x3 for bulb fixing

#### 2.2. Cable Needed

#### **Power Cable**

An adapter with 24V AC/3.5A output provides the power to the EPTZ3000/EPTZ3000I. 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 EPTZ3000/EPTZ3000I to a DVR or a monitor. An

amplifier may be needed if the video cable is too long.

**Control Cable** 

Basically, EPTZ3000/EPTZ3000I uses a differential pair to connect to other devices by

cascading. A cable that has low signal decline can be used as a control cable.

**Alarm Cable** 

An alarm cable is not included in the packing list. A suitable wire that has low signal

decline can be used as an alarm cable.

2.3. Initial Setup

Initial setup includes dome address, communication protocol, transmission speed, video

format, 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

EPTZ3000/EPTZ3000I to enable a new value after changing.

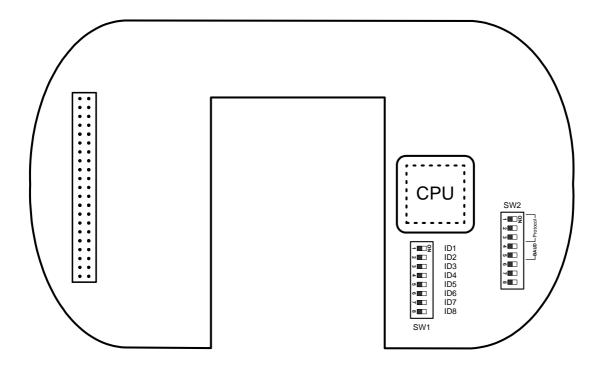
2-13

## 2.3.1. Address Setting

The address code of the EPTZ3000/EPTZ3000I should be set to correspond properly with a control device to control multiple dome cameras. The address codes are made up by the dipswitch SW1 (8 bits) on the PCB board. The 8 bits dipswitch indicates the binary coded of the address, and there are 256 addresses can be selected (0  $\sim$  255, 2 $^8$  = 256). It also means that there are up to 256 dome cameras that can cascade on the RS-485 bus. The dipswitch setting and the indicated address are represented in the following chart.

Note: The factory default address is 1.

**Notice:** Please make sure the power is off before setting, and restart the EPTZ3000/EPTZ3000I to enable a new value after changing.

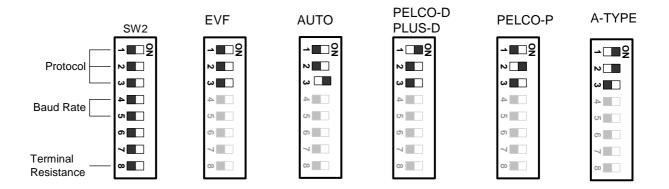


Switch	Address	Switch	Address	Switch	Address	Switch	Address
ON 1 2 3 4 5 6 7 8	0	ON 1 2 3 4 5 6 7 8	32	ON 1 2 3 4 5 6 7 8	64	ON 1 2 3 4 5 6 7 8	96
ON 1 2 3 4 5 6 7 8		ON 1 2 3 4 5 6 7 8	33	ON 1 2 3 4 5 6 7 8	65	ON 1 2 3 4 5 6 7 8	97
ON 1 2 3 4 5 6 7 8	2	ON 1 2 3 4 5 6 7 8	34	ON 1 2 3 4 5 6 7 8	66	ON 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	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	1 /	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		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	ij is	ON 1 2 3 4 5 6 7 8	45	ON	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	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	79	ON	111
ON	16	ON 1 2 3 4 5 6 7 8	48	ON 1 2 3 4 5 6 7 8	80	ON	112
ON	17	ON 1 2 3 4 5 6 7 8	49	ON	81	ON	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	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	84	ON	116
ON 1 2 3 4 5 6 7 8	21	ON 1 2 3 4 5 6 7 8	53	ON	85	ON	117
ON 1 2 3 4 5 6 7 8	22	ON 1 2 3 4 5 6 7 8	54	ON	86	ON	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	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	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	91	ON	123
ON 1 2 3 4 5 6 7 8	28	ON 1 2 3 4 5 6 7 8	60	ON 1 2 3 4 5 6 7 8	92	ON 1 2 3 4 5 6 7 8	124
ON 1 2 3 4 5 6 7 8	29	ON 1 2 3 4 5 6 7 8	61	ON 1 2 3 4 5 6 7 8	93	ON 1 2 3 4 5 6 7 8	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
ON 1 2 3 4 5 6 7 8	31	ON 1 2 3 4 5 6 7 8	63	ON	95	ON	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	143	ON 1 2 3 4 5 6 7 8	175	ON 1 2 3 4 5 6 7 8	207	ON	239
ON	144	ON 1 2 3 4 5 6 7 8	176	ON 1 2 3 4 5 6 7 8	208	ON	240
ON	145	ON 1 2 3 4 5 6 7 8	177	ON 1 2 3 4 5 6 7 8	209	ON	241
ON		ON 1 2 3 4 5 6 7 8	178	ON 1 2 3 4 5 6 7 8	210	ON	242
ON	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	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	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	246
ON	151	ON 1 2 3 4 5 6 7 8	183	ON 1 2 3 4 5 6 7 8	215	ON	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	_	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	190	ON 1 2 3 4 5 6 7 8	222	ON 1 2 3 4 5 6 7 8	254
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

## 2.3.2. Communication Protocol Setting

The 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> bits of the SW2 are used to set communication protocol. The factory default protocol is EVF.

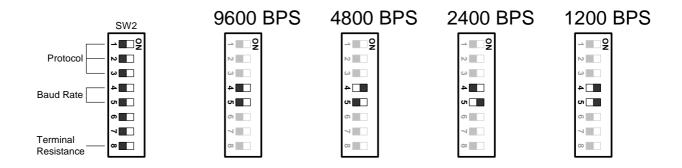


Notice: Please make sure the power is off before setting, and restart the EPTZ3000/EPTZ3000I to enable a new value after changing.

Set all of protocol switches to ON; the speed EPTZ3000/EPTZ3000I will enter a self-test mode.

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

The 4<sup>th</sup> and 5<sup>th</sup> bits of the SW2 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 EPTZ3000/EPTZ3000I to enable a new value after changing.

## 2.4. Rack and Speed Dome Installation

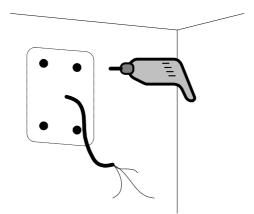
## 2.4.1. Installation Requirements

- 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 EPTZ3000/EPTZ3000I.

#### 2.4.2. EPTZ3000 Dome Camera Wall Mount Installation

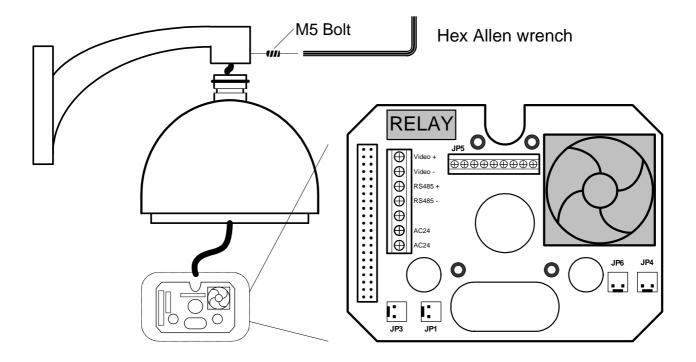
**Note:** Installation location that is a wall, a pole or a ceiling needs to support above five times the total weight of the camera assembly (about 16 kg) to avoid shaken images, and dropping.

 Set wall mount bracket on the wall. Mark the center of the holes on the wall against the bracket holes. Use a drill to make 4 holes that can be nailed 4 0.25" X 1.25" screws at the marks.



**Note:** The length of the screws depends on the surface material. The mentioned screws are used in the normal concrete surface.

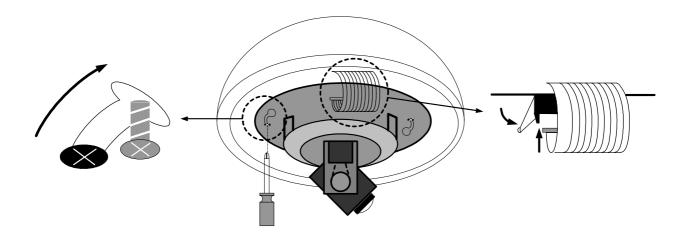
- 2. Thread the cable through the hole in the wall mount bracket, and screw in 4 M8 nuts for mounting the bracket.
- 3. Take off the housing from the packing, and take off the PCB board (4 bolts on it.) inside the housing. Thread the cable through the top of the housing. Fix the housing on the wall mount bracket, and screw in 3 M5 bolts (Hex) on the top of the bracket with the attached Hex Allen wrench to fix the housing.



4. Connect the cable connectors to the nodes on the PCB board, and then fix the PCB board in the housing by screwing 4 bolts on it.

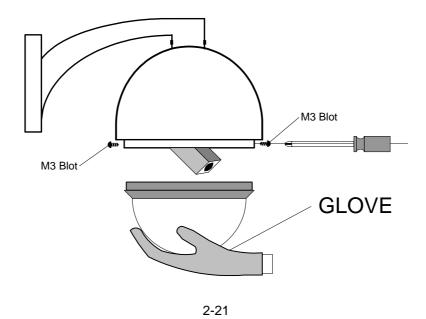
**Note:** Please notice the polarity of control line. The EPTZ3000 will not work if the polarity of control line is mis-connected.

5. Align the two screw holes on the bottom of mechanical part to the two bolts on the base of the housing, and twist the mechanical part clockwise a little bit in order to engage it with the base. Screw the two bolts on the base, and then connect and fix the connection bus to the PCB board on the mechanical part.



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

6. Remove the lens protection cover before installing the bulb. Align the 3 bolt holes into the 3 housing bolt holes, and screw three M3 bolts with the attached small screw driver to fix the bulb.



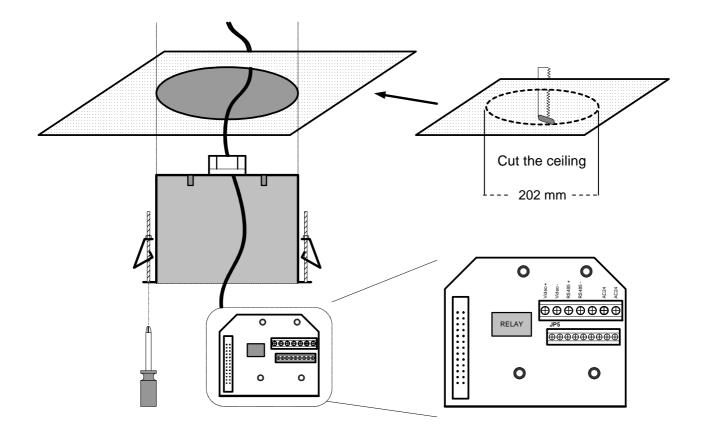
**Note:** In order to protect the bulb from dirt and scrape, please put on the gloves before installing the bulb.

7. Turn on the power, and start to operate the EPTZ3000.

**Note:** When turning on the power, EPTZ3000 will enter self-inspection mode, and carry out a self-testing program. After finishing self-inspection, you can start to operate the EPTZ3000.

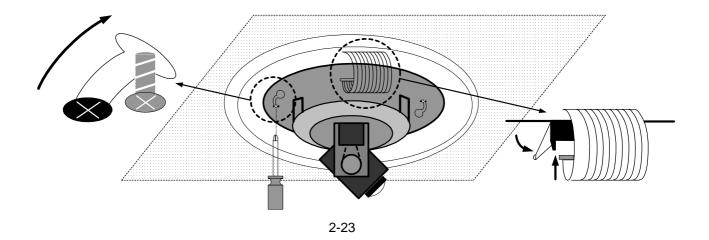
#### 2.4.3. EPTZ3000I Dome Camera Installation

- Take off the housing from the packing, and take off the PCB board (4 bolts on it) inside the housing.
- 2. Cut the ceiling against the housing's shape with a saw.
  - The exact diameter for cutting circle is 202 mm. It cannot exceed 213 mm, because speed dome housing may across the ceiling without any support. Please leave a profound space of 144.5 mm, so that the housing can be perfectly inserted to the ceiling.
- Thread the cable through the screw and the hole on the top of the housing, and tighten up the screw to fix the cable
- 4. Place the housing into the hole that you just made. Fix the housing on the ceiling with two clips, adjust the screws of clips to make the housing perfectly fit to the ceiling.
- 5. Connect the cable connectors to the nodes on the base board, and then fix the base board in the housing by screwing 4 bolts on it.



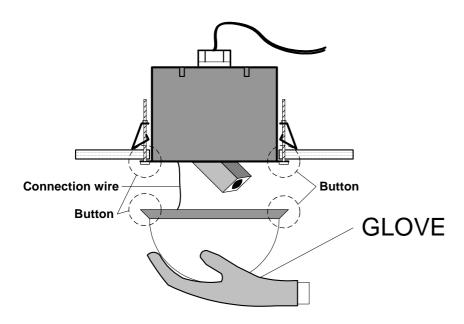
**Note:** Please notice the polarity of control line. The EPTZ3000I will not work if the polarity of control line is mis-connected.

6. Align the two screw holes on the bottom of mechanical part to the two bolts on the base of the housing, and twist the mechanical part clockwise a little bit in order to engage it with the base. Screw the two bolts on the base, and then connect and fix the connection bus to the PCB board on the mechanical part.



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

7. Remove the lens protection cover before installing the bulb. Screw the connection wire to the housing in order to prevent the bulb from being drop down. Align the 2 buttons on the bulb base with the 2 buttons on the housing, and push bulb base to clip the housing.



**Note:** In order to protect the bulb from dirt and scrape, please put on the gloves before installing the bulb.

8. Turn on the power, and start to operate the EPTZ3000I.

## 2.5. Accessories

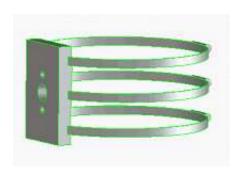
## 2.5.1. EPTZ-CPMA: Ceiling Pendant Mount Adapter



The pole mount is used for installing a speed dome on the ceiling indoors or outdoors.

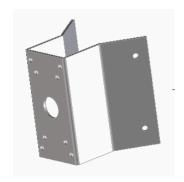
The extension poles are available for the pole mount.

## 2.5.2. EPTZ-PMA: Pole Mount Adapter



The pole adapter is used for installing a wall mount bracket to a pole indoors or outdoors.

## 2.5.3. EPTZ- CMA: Corner Mount Adapter



The corner mount are used for installing a wall mount bracket to a 270° corner of walls indoors or outdoors.

## 3. EPTZ3000/EPTZ3000I CAMERA SETUP MENU

In this section, setup and operation guide of EPTZ3000/EPTZ3000I will be introduced.

There are 25 items of the setting menu. However, there is only one line on the line display, so using some combination keys to operate is necessary.

## 3.1. Structure of the Setup Menu

Press MENU to enter camera setup menu.

Press Shift + Joystick up/down to change subentries, and right/left to change the setting.

<ul> <li>→ 1. CAM ID</li> <li>→ 2. DZOOM</li> <li>→ 3. FOCUS</li> <li>→ 4. IRIS</li> <li>→ 5. DAY/NIGHT</li> <li>→ 6. S.SHUTTER</li> <li>→ 7. DISPLAY</li> <li>→ 8. WBC MODE</li> </ul> <li>→ 1. CAM ID</li> <li>→ OFF / ON</li> <li>AUTO / MAN</li> <li>AUTO / DAY / NIGHT</li> <li>★ 4 / x8 / x12 / x16 / x32 / x64 / x128 / OFF</li> <li>→ OFF / ON</li> <li>AUTO OUTDOOR / AUTO INDOOR / ONE PUSH / MAN 2000K / MAN 3200K / MAN 5100K</li>
→ 4. IRIS     → 5. DAY/NIGHT     → 6. S.SHUTTER     → 7. DISPLAY     → 8. WIRC MODE     → 3. WIRC MODE     → 4. IRIS     AUTO / MAN     AUTO / DAY / NIGHT     × 4 / x8 / x12 / x16 / x32 / x64 / x128 / OFF     → 7. DISPLAY     OFF / ON     AUTO OUTDOOR / AUTO INDOOR / ONE PUSH / MAN 2000K / MAN 3200K /
→ 5. DAY/NIGHT AUTO / DAY / NIGHT  → 6. S.SHUTTER
→ 6. S.SHUTTER x 4 / x8 / x12 / x16 / x32 / x64 / x128 / OFF  → 7. DISPLAY  OFF / ON AUTO OUTDOOR / AUTO INDOOR / ONE PUSH / MAN 2000K / MAN 3200K /
T. DISPLAY  OFF / ON AUTO OUTDOOR / AUTO INDOOR / ONE PUSH / MAN 2000K / MAN 3200K /
AUTO OUTDOOR / AUTO INDOOR / ONE PUSH / MAN 2000K / MAN 3200K /
> 0 WPC MODE
IVIAN STOOK
→ 9. TITLE DISP OFF / ON
→ 10. ALM-IN1 OFF / N.C. / N.O. / NIGHT N.O. / NIGHT N.C.
→ 11. ALM-IN2 OFF / N.C. / N.O.
→ 12. ALM-IN3 OFF / N.C. / N.O.
→ 13. ALM-IN4 OFF / N.C. / N.O.
→ 14. ALM-IN PRIO 1234 / 2341 / 3412 / 4123
→ 15. ALM-OUT OFF / LATCH / 3 / 5 / 10 / 20 / 30 / 60 SEC
→ 16. WDR LOW / MIDDLE / HIGH / OFF
→ 17. SHUTTER AUTO / A.FLK/ 1/60 / 1/160 / 1/250 / 1/1000 / 1/2500 / 1/10000 / 1/120000 / X2 / X4 / X6 / X8
→ 18. AGC OFF / LOW / MIDDLE / HIGH
→ 19. DNR OFF / LOW / MIDDLE / HIGH
→ 20. PRIVATE ZONE OFF / ON
→ 21. AUTO REGRESS OFF / ON
→ 22. MOTION OFF / LIMIT
23. TOUR ENT
24. X CNT 0000000001
25. Y CNT 0000000006
→ 26. PO CNT 0000000000  > 27. LOAD DEFAULT
28. EXIT MENU

## 3.1.1. Camera Setup Menu

Press Menu to enter camera setup menu.

Press Shift + Joystick up/down to change subentries, and right/left to change the setting.

**1. CAM ID**: The name assigned to the camera.

**2. DZOOM:** Digital zoom enable or disable.

ON: Enable a digital zoom.

**OFF:** Disable a digital zoom.

**3. FOCUS:** Focus type, auto focus, manual focus and one push focus are available.

**AUTO:** Auto focus is enabled.

MAN: Manual focus is enabled.

**ONE PUSH:** Enable the one push trigger focus mode. The focus lens holds the same position until the next trigger command is received. This function prevents the wrong focus in dark. This option is the default value.

**4. IRIS**: Iris type, auto iris and manual iris are available.

AUTO: Auto iris is enabled.

MAN: Manual iris is enabled.

5. Day/Night: IR cut setting.

**AUTO:** Auto ICR mode is enabled. IR cut filter will open automatically in low lux.

**NIGHT:** IR cut filter is always open (No IR cut). (for true day/night model only)

**DAY:** IR cut filter is always close.

**6. S.SHUTTER**: Slow electrical shutter. In order to enhance the view in the low lux environment, slow shutter allows more light go through the shutter.

**X4:** 4-time slow shutter.

X8: 8-time slow shutter.

X12: 12-time slow shutter.

X16: 16-time slow shutter.

**X32:** 32-time slow shutter.

**X64:** 64-time slow shutter.

X128: 128-time slow shutter.

**OFF:** Disable auto slow shutter.

**7. DISPLAY :** Display the zoom multiple.

**ON:** Display the zoom multiple.

**OFF:** Disable the zoom multiple display.

**8. WBC MODE:** White balance control mode.

**AUTO OUTDOOR:** Auto white balance compensation with wider range (Default value).

**AUTO INDOOR:** Auto white balance compensation.

**ONE PUSH:** One Push Auto White Balance Mode.

MAN 2000K: Manual white balance compensation in 2000K color temperature.

MAN 3200K: Manual white balance compensation in 3200K color temperature.

MAN 5100K: Manual white balance compensation in 5100K color temperature.

**Note:** WBC setting will affect the wide dynamic range, or other image performance. To adjust a proper value is important.

9. TITLE DISP: Display the title.

**ON:** Display the title.

**OFF:** Disable the title display.

**10. ALM-IN1**: The status of input alarm 1.

N.O.: Enable a normal open alarm input.

**N.C.:** Enable a normal close alarm input.

**NIGHT N.O.:** Dome turns to "Night mode" if external contact open. Dome turns to "Day mode" if external contact closed.

**NIGHT N.C.:** Dome turns to "Night mode" if external contact closed. Dome turns to "Day mode" if external contact open.

**OFF:** Disable alarm input.

**11. ALM-IN2**: The status of input alarm 2.

**N.O.:** Enable a normal open alarm input.

**N.C.:** Enable a normal close alarm input.

**OFF:** Disable alarm input.

**12. ALM-IN3**: The status of input alarm 3.

**N.O.:** Enable a normal open alarm input.

**N.C.:** Enable a normal close alarm input.

**OFF:** Disable alarm input.

**13. ALM-IN4**: The status of input alarm 4.

**N.O.:** Enable a normal open alarm input.

**N.C.:** Enable a normal close alarm input.

**OFF:** Disable alarm input.

**14. ALM-IN PRIO**: The priority of alarms.

**1234:** The alarm priority is 1>2>3>4.

**2341:** The alarm priority is 2>3>4>1.

**3412:** The alarm priority is 3>4>1>2.

**4123:** The alarm priority is 4>1>2>3.

**15. ALM-OUT**: Duration time of the alarm output.

**OFF:** Disable alarm output.

3 / 5 / 10 / 20 / 30 / 60 SEC: select alarm output's duration time.

**LATCH:** The alarm output will not stop until there is any operation on keyboard.

16. WDR: Wide Dynamic Range.

LOW: Low wide dynamic range.

**MIDDLE:** Middle wide dynamic range.

**HIGH:** High wide dynamic range.

**OFF:** Disable wide dynamic range.

**17. SHUTTER:** Electrical shutter mode.

**AUTO:** Auto electrical shutter

**A.FLK:** Anti-Flicker. Camera will auto adjust the shutter to reduce the flicker caused by fluorescent light.

1/60 (NTSC) and 1/50 (PAL): default manual shutter.

1/160: 1/160 sec shutter for both NTSC and PAL

1/250: 1/250 sec shutter for both NTSC and PAL

1/1000: 1/1000 sec shutter for both NTSC and PAL

1/2500: 1/2500 sec shutter for both NTSC and PAL

1/10000: 1/10000 sec shutter for both NTSC and PAL

1/120000: 1/120000 sec shutter for both NTSC and PAL

**x2:** two-time default manual shutter

x4: four-time default manual shutter

**x6:** six-time default manual shutter

x8: eight-time default manual shutter

**18. AGC**: Auto Gain Control

OFF: Auto Gain Control Off

LOW: Low Auto Gain Control

MIDDLE: Middle Auto Gain Control

HIGH: High Auto Gain Control

**Note:** AGC setting will affect the wide dynamic range, or other image performance. To adjust a proper value is important.

19. DNR: Dynamic Noise Reduction

OFF: Dynamic Noise Reduction Off

LOW: Low Dynamic Noise Reduction

MIDDLE: Middle Dynamic Noise Reduction

HIGH: High Dynamic Noise Reduction

**20. PRIVATE ZONE**: Private zone masking.

**ON:** Enable the private zone masking.

**OFF:** Disable the private zone masking.

Press "Enter" to enter private zone setup mode, and the masking will turn into red. You can set the masking size and position in the private zone setup mode.

In this mode, you can press

"Shift" + "6" to increase masking horizontal size;

"Shift" + "4" to decrease masking horizontal size;

"Shift" + "2" to increase masking vertical size;

"Shift" + "8" to decrease masking vertical size;

Shift Joystick to select the position where the masking is located.

"Enter" to confirm the size and position, and then the masking will turn into green again.

If you use Pelco protocol keyboard, command of private zone setting will be different.

Press "IRIS +" to enter private zone setup mode, and the masking will turn into red. You can set the masking size and position in the private zone setup mode.

In this mode, you can press

"Focus F." to decrease masking size;

"Focus N." to increase masking size;

"IRIS -." to switch the mask horizontal or vertical direction;

Shift Joystick to select the position where the masking is located.

"IRIS +" to confirm the size and position, and then the masking will turn into green again.

**21. AUTO REGRESS**: Auto regress to the shortest path during set a position. It can shorten the response delay, and increase the response performance and speed dome lifetime.

**ON:** Enable the auto regress function.

**OFF:** Disable the auto regress function.

**22. MOTION:** This is used to set a limitation for Auto Pan function. When Motion is ON, you can use Auto Pan function simply by pressing "Shift"+ "A.Pan" of the keyboard (according to A. Pan position you have set).

**OFF:** Motion limitation function is disabled.

**LIMIT:** Press "Enter" first.

The message NOW LIMIT OFF shows up, press "Enter" again.

The message CHANGE ON shows up, press "Enter" to change.

To change the value back to OFF, simply follow the same steps again.

If you need to reset, press "IRIS -" of the keyboard to exit.

23. TOUR: Tour setting or tour run option. Press "Enter" first to enter tour mode.

Shift joystick to right and left (< >), shift SET or RUN option. (Shift the joystick up for returning to previous setting). Press "Enter" to confirm.

<u>For Tour setting:</u> Shift joystick to right and left (< >) for changing Set Numeral (T01A~T16A), then press "Enter" to confirm.

Shift joystick to right and left for selecting PRE Numeral (position) from 01~99, then press "Enter" to confirm.

Shift joystick up and down to adjust DWL (dwell) time from 0~99 sec, then press "Enter" to confirm.

Shift joystick to right and left for adjusting speed (5~235, with an interval of 5), then press

"Enter" to confirm.

## For Tour Run:

Shift joystick to right and left for selecting RUN NUM (T01A~T16A) of the tour that you previously set. Press "Enter" to start running the tour.

Alternatively, you could run the tour without entering MENU. Press "Position + 97" to run the tour that you have previously set, please be informed that this function is only valid for T01A.

If you need to reset, press "IRIS - " of the keyboard to exit.

**24. X CNT**: X-axis counter. This counter counts the x axis movement, and 1 is counted when the speed dome pans 360°.

**25. Y CNT**: Y-axis counter. This counter counts the y axis movement, and 1 is counted when the speed dome tilts 180°.

**26. PO CNT**: Position counter. This counter counts the go-position times, 1 is counted when speed dome goes to a position once.

## **27. LOAD DEFAULT:** Load default setting.

Select this item, and then press "Enter" to load default setting.

Press "Clr" + "Menu" whenever you want to quit menu setting.

#### **28. EXIT** : To exit.

Select this item, and then press "Enter" to quit setting.

Press "CIr" + "Menu" whenever you want to quit menu setting.

## 4. EPTZ3000/3000I FUNCTION SETUP AND OPERATION

#### 4.1. Manual Control Mode

Manual control: Shift Joystick Up/Down/Left/Right, and turn it Clockwise/Counterclockwise to control speed dome.

Use the control keys which are Zoom, Focus and IRIS function keys on the keyboard to Zoom In/Out, focus N (near)/F (Far), or IRIS +/-.

**Note:** Zoom In/Out control keys will be disabled when entering to OSD menu mode.

➤ **HOME Mode:** The camera view will go back to the home position when there is no keyboard operation in a specific time. The home position and the specific time can be set by pressing Set + Home.

If you set the time to 0 minute, then the camera will go back to home if there is no keyboard operation in 5 seconds. This is the minimum no action time for HOME mode.

**Note:** If "HOME" function is enabled, dome will go to home immediately after powering on.

#### 4.2. Auto Pan Mode

> Two point auto pan: Press A.Pan to enter the auto pan mode, and then the system will ask you to enter the auto pan speed (1~239). Press Enter to start auto pan.

In order to set the two points, press Set + A.Pan, and then enter the dwell time (1~127 seconds) of each point. EPTZ3000 begins to pan from point A to point B clockwise.

> 360° auto pan: Press Shift + A.Pan to enter the 360° auto pan. Sy stem will ask you to enter 360° auto pan speed (1~239). The camera will turn 360° automatically, but

not tilt.

## 4.3. Position Setting

- Focus on a preset position: Press the number key, and then press Position to focus on the number of preset position; or you can press Position, then enter the preset position number, and then press Enter to focus on the number of preset position.
- ▶ Preset a position: Shift the Joystick to the position you would like to preset, and then press Shift + Position. The system will ask you to enter the preset position number (1~192), and then press Enter to save the position. There are up to 192 positions can be preset.

Three specific preset positions can be set as follows:

92 => Set Left Limit Stop (A position)

93 => Set Right Limit Stop (B position)

95 => Enter Menu mode (Use keyboard control keys to control OSD items; Focus F. to go downward, Focus N. to go upward. IRIS + go to previous setting and IRIS - to exit).

You can directly go to the following specific preset positions:

33 => Rotation of 180 degree

34 => Go to Home position (if Home Position is set by EVF Keyboard)

96 => Stop Scan

97 => Start running tour

98 => Frame scan (60 degree / step)

Default speed is 32. It can be changed by EVF Keyboard (Shift + A.Pan setting speed.

Dwell time: default is 2 sec; It can be changed by EVF Keyboard Set + A.Pan setting dwell time of A pos or B pos.

99 => Auto scan (360 degree)

Default speed is 32. It can be changed by EVF Keyboard (Shift + A.Pan setting speed).

We can even set camera's ICR Day/Night function with RS-485 command via keyboard. How to do this? Press Position + 88 to link to Day mode or Position + 89 to link to Night mode, "ICR AUTO" message will be shown on the right-bottom part of the screen. If OSD Day/Night ICR mode is "AUTO", it cannot be controlled by preset position setting.

- Set the parameter of a preset position: Press Set + Position to set the parameter of a preset position. You can set the going-to speed (1~239), dwell time (1~239 seconds), and the title of the position. Shift the joystick Right/Left to change bits, and shift the Joystick Up/Down to change the alphanumeric characteristic. The available alphanumeric characteristics are 0~9, A~Z, &, ?, !, :, ', ., ,, /, -, and a space.
- Delete a preset position: Press Clr + Position to delete a preset position. The system will ask you to enter the position number that you would like to delete, and then press Enter.

## 4.4. Tour Mode

In the tour mode, you can set a tour for viewing. There are 16 tours can be set, and 16 preset positions in a tour.

> One-way tour Mode: Press Tour to enter the tour mode. The system will ask you

to enter the tour number you would like to run, and starts the tour after pressing Enter. To preset a tour before running is necessary.

Preset a one-way tour: Press Set + Tour to preset a one-way tour. The system will ask you to enter preset position numbers (The positions need to be preset). After finish entering all positions, press Stop to quit, and then press Enter to save the tour.

To-and-fro tour mode: Press Shift + Tour to run a to-and-fro tour. The system will ask you to enter the tour number you would like to run, and starts the tour after pressing Enter. To preset a tour before running it is necessary.

**Note 1:** The difference between the One-way tour mode and To-and-fro tour mode is that the return modes are different. For example: There is a tour with 3 preset positions 1, 2 and 3. The camera runs  $1\rightarrow2\rightarrow3\rightarrow1\rightarrow2\rightarrow3$  in the One-way tour mode, and  $1\rightarrow2\rightarrow3\rightarrow2\rightarrow1$  in the To-and-fro tour mode.

Note 2: You could set a pattern tour. Press Set + Tour, and input 0, press Enter. Sway the joystick to record the entire tour. Press Stop to stop recording tour. To view this pattern tour, simply press Tour, and input tour number 0.

## 4.5. Alarm Link to a Position/Tour

EPTZ3000/EPTZ3000I have 4 alarm inputs that can be set to link to a position or a tour when an alarm is triggered.

#### > Set an alarm link:

Press **F1** to set an alarm link. Enter the alarm number, and then press **Enter**.

Switch the Joystick up/down to select a position or a tour, enter a position or tour number, and then press **Enter** to confirm the alarm link setting.

If you set the position number to 99, the dome will do a 360 degree auto scan or

AB two point pan if limit is ON. If you set the position number to 98, the dome will do a frame scan.

#### Delete an alarm link:

Press CIr + F1 to delete a link of alarm to position/tour.

**Note 1:** After alarm output signal is terminated, the speed dome will resume action or return to its original position.

**Note 2:** After powering on the speed dome, it will detect alarm status automatically.

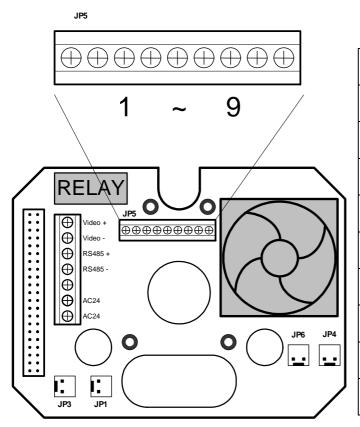
## 4.6. Other Operations

The EPTZ3000/EPTZ3000I can work with a DVR that has PTZ control functions, and a matching protocol. The available control functions depend on different DVRs.

The EPTZ3000/EPTZ3000I can work with a keyboard that has PTZ control functions, and a matching protocol. The available control functions depend on different keyboards.

## **APPENDIX: The Alarm I/O Connection**

There are 4 alarm inputs and 1 alarm output available. The alarm I/O connector that is marked as **JP5** is a nine-pin connector. It is located on the PCB board of the housing.



Pin #	Function
1	Alarm Input 3
2	Ground
3	Alarm Input 2
4	Alarm Input 1
5	Ground
6	Alarm Input 0
7	Normal Open (N.O.)
8	Common (COM)
9	Normal Close (N.C.)

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