

## Small size Weather-resistant PTZ Camera



**570** NIGHT TVL  
**0.02** NIGHT LUX

**×100** Total Zoom

- Weather-resistant with Heater & Blower
- Small size
- Vandal-resistant Case
- Day & Night
- ×100 zoom (×10 Optical, ×10 Digital)
- 127 Presets / Auto Flip
- Pattern / Swing / Privacy Mask

**PT 980** Outdoor SMALL SIZE PTZ Camera / Day and Night / 500(C)/570(B) TVL / 0.7/0.02 Lux / Heater & Blower / ×100 Total Zoom (×10 Optical, ×10 Digital) / Dual Power

The PT 980 is a very special PTZ camera because of its size. 6 inches in diameter and 5.5 inches in height make PT 980 as small as a regular dome camera. People won't think it is a user controllable camera. But, don't let the size fool you. This small PTZ comes with about same or even better features that you will find on regular size PTZ camera, such as, 360° endless panning, 127 presets, group and pattern feature, Day and Night and more. Pelco control protocol is fully integrated which means it is completely compatible with any DVR systems that supports Pelco-D protocol. Using with PTC 3000 joystick controller, it can be controlled independently from the DVR system. Another nice feature is that the nearly indestructible metal housing and poly-carbonated cover which protects the camera module from getting damaged. Also, the razor sharp 500 TV lines of resolution provides a rich color picture. The 100 times zoom lens shows every detail of an object you would like to see from a distance.

### AUTO-FLIP

In case that tilt angle arrives at the top of tilt orbit (90°), zoom module camera keep moving to opposite tilt direction (180°) to keep tracing targets. As soon as zoom module camera passes through the top of tilt direction (90°), images should be reversed automatically. Tilt movement range is 0°~95°

### CAMERA SPECIFICATIONS

- CCD Sensor: 1/4" Interline Transfer CCD
- Zoom Magnification: ×10 Optical Zoom, ×10 Digital Zoom (Max ×100 Zoom)
- Day & Night Function
- Various Focus Mode: Auto-Focus / Manual Focus / Semi-Auto Focus
- Independent & Simultaneous Camera Characteristic Setup in Preset operation

### POWERFUL PAN/TILT FUNCTIONS

- Max 360°/sec high speed Pan/Tilt Motion
- Using Vector Drive Technology, Pan/Tilt motions are accomplished in a shortest path. As a result, time to target view is reduced dramatically and the video on the monitor is very natural to watch.
- For jog operation using a controller, since ultra slow speed 0.05°/sec can be reached, it is very easy to locate camera to desired target view. Additionally, it is east to move camera to a desired position with zoom-proportional pan/tilt movement.

### PRESET, PATTERN, SWING, GROUP, PRIVACY MASK AND MORE...

- Max. 127 Presets are assignable and characteristics of each preset can be set up independently, such as White Balance, Auto Exposure, Label and so on.
- Max. 8 set of Scan action can be stored. This enables to move camera repetitively between two preset positions with designated speed.
- Max. 4 of Patterns can be recorded and played back. This enables to move camera to follow any trajectory operated by joystick as closely as possible.
- Max. 8 set of Group action can be stored. This enables to move camera repetitively with combination of Preset or Pattern or Scan. A Group is composed of max. 20 entities of Preset / Pattern / Scans.
- Privacy Masks are assignable, not to intrude on other's privacy. (4 Privacy Zones)
- 7 rules of Schedule can be assigned by day and time. Appropriate actions (such as Home, Preset, Group, Pattern, Scan) can be defined for each rule. Also, it is possible to make rule by Weekday and weekend to simplify the rule.

## MOUNT OPTION

Mount not included with the camera. Camera is still mountable without mounts



Wall Type



Ceiling Type

## OSD (ON SCREEN DISPLAY) MENU

- OSD menu is provided to display the status of camera and to configure the functions interactively.
- The information such as Camera ID, Pan/Tilt/Zoom/Direction, Alarm Input & Output, date/time, current temperature and Preset can be displayed on screen.
- Each display item can be turned on or off independently.

## RESERVED PRESETS FOR SPECIAL PURPOSE

- Most camera characteristics can be set up easily and directly with reserved preset, not entering into OSD menu. For more information, refer to "Reserved Preset" in this manual and "Direct Key Command" Manual.

## EASY INSTALLATION AND PERFECT OUTDOOR ENVIRONMENT COMPATIBILITY

- Fans and heaters are built-in in camera for cold and hot temperature environment. Also idealistic mechanical design protects camera from water and dust. (IP66 when installed properly with wall mount bracket only)
- It is easy to install and repair camera.

## GENERAL/SPECIAL IMAGE SETUP

- WB (White Balance) and AE (Auto Exposure) can be set up independently for each preset. There are 2 modes, "General" mode & "Special" Mode. The General mode means that WB or AE can be set up totally and simultaneously for all presets in "ZOOM CAMERA SETUP" menu. The Special mode means that WB or AE can be set up independently or separately for each preset in each preset setup menu. Each Special WB/AE value should activate correspondingly when camera arrives at each preset location. During jog operation, General WB/AE value should be applied. All Special WB/AE value will not be changed although General WB/AE value change.

## SEMI AUTO FOCUS

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

		PT 980	
Camera	CCD	1/4" Interline Transfer CCD	
	Max. Pixels	811(H) x 508(V) 410K	
	Effective Pixels	768(H) x 494(V) 380K	
	Horizontal Resolution	500 TV Line (Color) / 570 TV Line (B/W)	
	S/N Ratio	50 dB (AGC Off)	
	Zoom	x10 Optical Zoom x10 Digital Zoom	
	Focal Length	F1.8, f=3.8~38mm	
	Min. Illumination	0.7 Lux (Color) / 0.02 Lux (B/W), 50 IRE	
	Day & Night	Auto / Day / Night (ICR)	
	Focus	Auto / Manual / Semi-Auto	
	Iris	Auto / Manual	
	Shutter Speed	x128 ~ 1/120,000 sec.	
	AGC	Normal / High / Off	
	White Balance	Auto / Manual (Red, Blue, Gain Adjustable)	
BLC	Low / Middle / High / Off		
Flickerless	Selectable		
SSNR	Low / Middle / High / Off		
Pan / Tilt	Range	Pan : 360° (Endless) Tilt : 180° (Auto-Flip), 95° (Normal)	
	Pan / Tilt Speed	Preset : 360°/sec Manual : 0.05 ~ 360°/sec (proportional to zoom) Swing : 1~180°/sec	
	Preset	127 Preset (Label, Camera Image Setting)	
	Pattern	4 Pattern, 1200 commands (about 5 minute) / Pattern	
	Swing	8 Swing	
	Group	8 Group (20 action entities per Group)	
	Other Functions	Auto Flip, Auto Parking, Power Up Action etc.	
	Communication	RS-485	
General	Protocol	Pelco-D, Pelco-P selectable	
	Alarm Input	4 Input	
	OSD	Menu / PTZ information etc	
	Rated Power	DC Type : DC 12V / 2.5A (with Heater & Blower)	
	Operating Temp.	32°F ~ 104°F (0°C~40°C) w/o Heater & Blower -22°F ~ 122°F (-30°C ~ 50°C) w/ Heater & Blower	
	Dimension	Dome	04.53 in
		Surface Mount	06.61 in x 6.32 (H) in
Ceiling Mount		07.48 in x 7.81 (H) in	
Wall Mount	07.48 in x 10.35 (H) in x 11.7 (W) in		