

## IP 980M

- ▣ 1/4" Sony Super HAD CCD
- ▣ Day and Night Function
- ▣ 480 TV Line Resolution
- ▣ x10 Optical / x10 Digital Zoom (F1.6~4.5 / f=3.4~122.4mm)
- ▣ Shortest Path by Vector Drive Technology
- ▣ High Accuracy with Micro-Stepping control Technology
- ▣ Smooth Motion at High Zoom Magnification Mode
- ▣ Lightning Speed (MAX. 360°/sec) & Smooth manual speed (MIN 0.05°/sec)
- ▣ Lowest Noise & Lowest Vibration
- ▣ Endless 360°/sec pan Rotation
- ▣ 1.4 Lux at F1.2 / 0.01 Lux



### ▣ Description

The IP 980M is a very special PTZ camera because of its size. 6 inches in diameter and 5.5 inches in height make IPTZ 980M 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. Another nice feature is that the nearly indestructible metal housing and polycarbonate 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.

True CMS is a Central Monitoring System S/W featuring live video monitoring, PTZ control, event monitoring and audio communication. True CMS also supports sophisticated ways of recording and user-friendly search/playback of recorded audio and video. Using True CMS, multiple video servers and IP cameras distributed over different locations can be monitored and managed in a center. Its powerful recording, search and playback functions are much more convenient and extensible compared with conventional DVR systems.

### ▣ Product Specifications

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 / SemiAuto
Iris	Auto / Manual
Shutter Speed	x128 ~ 1/120,000 sec.
AGC	Normal / High / Off
White Balance	Auto / Manual (Red, Blue, Gain Adjustable)
SSNR	Low / Middle / High / Off
<b>Pan / Tilt</b>	
Range	Pan : 360° (Endless) Tilt : 180°(Auto-Flip), 95° (Normal)
Pan / Tilt Speed	Preset : 360°/sec / Swing : 1~180°/sec Manual : 0.05 ~ 360°/sec (proportional to zoom)
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.
<b>General</b>	
Communication	RS-485
Protocol	Pelco-D, Pelco-P selectable
Privacy Zone	4 Zone
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 : 4.53 in Surface Mount : 6.61 in $\varnothing$ 6.32 (H) in Ceiling Mount : 7.48 in $\varnothing$ 7.81 (H) in Wall Mount : 7.48 in $\varnothing$ 10.35 (H) in $\varnothing$ 11.7 (W) in
<b>Network</b>	
Interface	Ethernet 10/100 Base-T (RJ45)
Protocol	TCP / IP, UDP, Multicast, DHCP, PPPoE, SMTP, HTTP, SNMP
<b>Video</b>	
Standard	H.264
Data Rate	32Kbps ~ 4Mbps

Resolution	NTSC : 720x480, 720x240, 352x480, 352x240 PAL : 720x576, 720x288, 352x576, 352x288
Max frame Rate	NTSC : Max. 30 fps, PAL : Max. 25 fps
Frame rate Range	NTSC : 0.2 ~ 30 fps, PAL : 0.2 ~ 25 fps
Output	1 composite (1 Vpp 75ohm, BNC)
Video Loss Check	Yes
Motion detection	Sensitivity adjustable, OSD Display
<b>Audio</b>	
Standard	G.771
Sample rate	8Khz
Data Rate	64Kbps
Input	1 Line-in (mini-stereo)
Output	1 Line-in (mini-stereo)
<b>Serial Port</b>	
Port 1	RS-232
Port 2	RS-422 / 485
Data Rate	2,400bps ~ 115,200bps
<b>Sensor / Alarm</b>	
Sensor Input	1ch
Alarm Output	1ch
<b>User Interface</b>	
System Status	OSD
<b>Physical</b>	
Power source	DC 12V / 0.5A, PoE : 802.3AF (option)
PoE Support	802.3AF (option)
<b>CMS</b>	
Live monitoring	Max. 36ch monitoring simultaneously PTZ Control Event Monitoring, Alarm Control Bi-Directional Audio communication
Search / Playback	Time / Camera-base / Event-base Multi-channel viewing of recorded status on timeline
Backup	Export to AVI file, Snapshot to BMP file