

## 960H Indoor/Outdoor PTZ Speed Dome Camera with 37x/28x Optical Zoom Lens

**HTSD37XH** 3.5-129.5mm lens, 37x optical zoom with 32x digital zoom, white housing

**HTSD28XH** 3.5-98mm lens, 28x optical zoom with 32x digital zoom, white housing

### Features

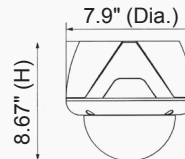
- 700 TV lines of resolution
- 37x optical zoom with 32x digital zoom
- Wide dynamic range (WDR) operation
- True Day/Night operation (IR cut filter)
- 360° endless rotation
- Dual voltage support
- Built-in fan and heater (heater operational starting at 50° F)
- IP66 compliant
- Wall mount included
- 1 year warranty



wall mount included



ceiling mount sold separately



### Camera Specifications

Image Sensor ..... 1/4" Sony Super HAD II™ (Double Scan) CCD  
 Resolution.....700 TV lines  
 Minimum Illumination.....Color: 0.5 lux, BW: 0.2 lux  
 S/N Ratio .....50dB  
 Effective Pixels .....976 (H) x 494 (V)  
 Total Pixels .....1020 (H) x 508 (V)  
 Zoom .....37x/28x optical zoom / 32x digital zoom  
 Focal Length.....F1.6-4.5, 3.5-129.5mm (37x) / 3.5-98mm (28x)  
 Angle of View.....(H) 55.5° (wide) – 1.59° (tele)  
 (V) 42.5° (wide) – 1.19° (tele)  
 White Balance .....Automatic, Manual (red, blue gain adjustable)  
 TV System.....NTSC  
 Day/Night.....Auto / Day / Night (ICR)  
 Focus.....Auto / Manual / Semi-Auto  
 Exposure .....Auto / Iris / Shutter / Manual  
 Light Compensation.....WDR / BLC / HLC / Off  
 DNR.....Adjustable  
 Privacy Zone.....8 masks, spherical coordinate  
 Image Stabilization .....On / Off

### Mechanical Specifications

Pan Range.....360° endless  
 Tilt Range .....90°  
 Speed .....Preset: 500°/sec, Jog: 0.05 - 360°/sec, Swing: 1 - 180°/sec  
 Presets .....209 positions  
 Patterns .....8 patterns (880 commands)  
 Swings.....10 swings

### Mechanical Specifications (continued)

Groups.....8 groups (max 40 actions of a combination of preset, pattern, and swing)  
 Schedule.....8 schedules  
 RTC .....RTC battery backup time 2 weeks  
 Communication.....RS-485  
 Protocol .....Pelco-D, Pelco-P  
 Sensor Input.....3 inputs, photo-coupler type, DC 5V-12V  
 Alarm Outputs .....1 output, relay output, max load DC 24V 1A / AC 125V 0.5A  
 Fan .....Always on  
 Heater.....Operational at internal temperature of 50°F and above  
 Operating Temperature ...-22° F - 122° F  
 Power Supply .....12VDC, 24VAC (power supply not included)  
 Power Consumption .....12VDC, 1.8A / 24VAC, 1.8A  
 Dome Size.....7.9" (Dia.) x 8.67" (H)  
 Dimensions.....With wall mount  
 4.7" (W) x 5.5" (H) x 11.8" (L)  
 Weight .....8 lbs.  
 Included in Package .....Main unit, wall mount bracket, accessories, user manual

### Material

Dome & Mounts.....Polycarbonate  
 Internal.....Polycarbonate, ABS  
 External .....Aluminum

### Optional Accessories



**CORMT37X**  
Corner Mount



**POLMT37X**  
Pole Mount



**CLGMT37X**  
Ceiling Mount



**KBDPTZ1**  
Keyboard Controller



**PSDC24**  
12VDC Power Supply