

# IPC-SD401H/402H Mini IP Speed Dome Camera

## Overview

Network cameras enable you to preview and record live video remotely from anywhere in the world. It is a kind of embedded digital surveillance product that combines of traditional analog camera and net DVS (Digital Video Server). The system operates with high scheduling efficiency due to its embedded Linux operation system, H.264 hardware compression and the latest TI Davinci hardware platform.

IPC-SD401H/402H is a 4" mini IP Speed dome camera with high-speed Pan / Tilt / Zoom control.



## Model

**IPC-SD401H:** 4" mini IP high speed dome with high performance 10X camera, 1/4 Inch Interline Transfer SONY CCD, day/night, 10x digital zoom, POE support.

**IPC-SD402H:** 4" mini IP high speed PsTZ dome with Sony 10X camera, 1/4 Inch Sony EXVIEW HAD CCD, day/night, 12x digital zoom, POE support.

## Features

- **System function**
  - 1/4" SONY high performance CCD
  - High-precision motor with sensitive response and reliable movement. Precision bias less than 0.1°. No vibration under any selected speed
  - Auto adaptive to HIKVISION, Pelco-P/D protocol in RS-485 control mode
  - 3D intelligent positioning function. Through software or DVR, it can realize tracking and enlarging
  - OSD menu in multiple languages and operation hint capability
  - Power-off protection of setup parameters

- Parameter restore function: restore PTZ & Lens status after reboot
- Built-in temperature sensor designed, with display of internal temperature

- **Network function**

- H.264 video compression and the latest Davinci processing chip and platform, ensuring stable and reliable performance
- Ethernet control and analog signal output
- View and control of video images via IE browser and client software
- SDHC card and SD card
- 3 user levels defined for operation permission
- Dual stream technology
- Multiple network protocols supported: TCP/IP, HTTP, DHCP, DNS, RTP/RTCP, PPPoE (FTP, SMTP, NTP, SNMP addible)
- 1 audio input and 1 audio output
- PoE power supply

- **Camera function**

- Auto iris, auto focus, auto white balance, backlight compensation and auto/manual day & night switch, and WDR function option
- 24 privacy masks programmable, with location and size adjustable; a maximum of 8 zones can be masked simultaneously on the same video screen(depending on different camera models)

- **PTZ function**

- 360° endless pan range and -2°-90° tilt range; auto flip capability
- Max. pan preset speed of 400°/s and max. tilt preset speed of 200°/s
- Manual pan speed of 0.3°~160°/220°/300°/s and manual tilt speed of 0.3°~60°/75°/90°/s
- 256 presets programmable; preset image freezing capability
- 8 patrols, each patrol up to 32 presets
- 4 patterns, with the total recording time not less than 10 min
- Limit stops programmable for preset, scanning and manual pan/tilt movement
- Proportional zoom function, with rotation speed adjusted automatically according to zoom multiples

- Park action: auto callup of preset / patrol / pattern / auto scan / random scan / frame scan / panorama scan, after a defined time of inactivity
- 1 alarm inputs and 1 alarm outputs, providing alarm response actions of preset/ patrol/ pattern/ SD card recording/ relay output / notification on client

## Specification

Parameter		IPC-SD401H	IPC-SD402H
<b>Camera</b>	Image Sensor	1/4 Inch Interline Transfer SONY CCD	1/4 Inch Sony EXVIEW HAD CCD
	Effective Pixel	PAL:752(H)×582(V) NTSC:768(H)×494(V)	
	Horizontal Resolution	500TVL(Color) 570TVL(B/W)	540 TVL
	Signal System	NTSC / PAL	
	Min. Illumination	0.7Lux/F1.4 (Color) 0.02Lux/F1.4(B/W)	1.0Lux/F1.4
	White Balance	Auto / Manual / ATW / Indoor / Outdoor	
	AGC	Auto / Manual	
	S / N Ratio	More than 50dB	
	BLC	On / Off	
	Electronic Shutter	NTSC:1/60~1/10,000s PAL:1/50~1/10,000s	
	Day & Night	ICR	Electronic
	Digital Zoom	10x	12x
	Privacy Mask	4 privacy masks programmable; a maximum of 4zones can be masked simultaneously on the same video screen	24 privacy masks programmable; a maximum of 8 zones can be masked simultaneously on the same video screen
	Auto Focus	Auto / Semiautomatic / Manual	
<b>Lens</b>	Focal Length	3.8-38mm, 10x	4.2-42mm, 10x
	Zoom Speed	Approx.1.7s(Optical Wide-Tele)	
	Angle of View	51.2-5.58 degree (Wide-Tele)	46-4.6 degree (Wide-Tele)
	Min. Working Distance	10-1000mm(Wide-Tele)	
	Aperture Range	F1.8-F2.8	F1.8-F2.9
<b>Pan and Tilt</b>	Pan Range	360°endless	
	Pan Speed	Pan Manual Speed: 0.3°~160°/220°/300°/s, Pan Preset Speed: 400°/s	
	Tilt Range	-2°~90° (Auto Flip )	
	Tilt Speed	Tilt Manual Speed: 0.3°~60°/75°/90°/s, Tilt Preset Speed: 200°/s	
	Proportional Zoom	Support	
	Number of Preset	256	

	Patrol	8 patrols, each patrol up to 32 presets
	Pattern	4 patterns, with the total recording time not less than 10 min
	Parameter Restore	Support
	Park Action	Preset / Patrol / Pattern / Pan scan / Tilt scan / Random scan / Frame scan / Panorama scan
	PTZ Position Display	On / Off
	Freeze Frame	Support
<b>Network</b>	Ethernet	10Base-T / 100Base-TX, RJ45 connector (Fiber Connector Option)
	Frame Rate	704×576 (25fps)
	Image Compression	H.264
	Audio Compression	OggVorbis / 16kbps
	Audio Mode	Off / Audio input / Audio output
	Protocols	TCP/IP, HTTP, DHCP, DNS, RTP / RTCP, PPPoE (FTP, SMTP, NTP, SNMP addible)
	No. of Simultaneous Users	Up to 6 users
	Dual Streams	Support
	Mini SD Memory Card	Manual REC / Alarm REC. Compatible SDHC Standard Cards
	User/Host Level	3 Levels: Administrator, Camera control, Live only
	Security Measures	User authentication (ID and PW), Host authentication (MAC address)
	<b>Client GUI</b>	Camera Control
OSD		Up to 18 characters
Clock Display		Time: Week: Date, 6 formats on the Client
Reading Patrol Message		Display and reading of preset message contained in each patrol via client software
<b>Alarm</b>	Alarm Input	1 inputs
	Alarm Output	1 relay outputs, alarm response actions option
	Alarm Actions	Preset, Patrol, Pattern, SD card recording, Relay output, Notification on Client
<b>Input/ Output</b>	Monitor Output	1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC
	Audio Input	Audio input (LINE input), 2-2.4V[p-p]; output impedance: 1KΩ, ±10%
	Audio Output	Line level, impedance: 600Ω

<b>General</b>	Menu Language	English, Chinese
	RS-485 Protocols	HIKVISION, Pelco-P, Pelco-D (addible), self-adaptive
	Power Supply	DC 12V/ PoE
	Power Consumption	12W max
	Working Temperature / Humidity	-10℃ ~50℃ (indoor ) 90% or less
	Mounting	Various mounting modes option
	Dimension	Φ145(mm)×132.8(mm)
	Weight (approx.)	2kg

## Applications

It can be widely used in indoor monitoring needs of a wide range of places such as corridor hallway, large-scale venues, meeting rooms, waiting rooms and other indoor places.