H3S1P

720p VFAI LENS DAY/NIGHT H.264 INDOOR FIXED MINIDOME IP CAMERA

Honeywell's latest addition to the Performance Series of IP-based products, the H3S1P is a 720p resolution, day/night indoor fixed minidome network camera engineered to provide extremely crisp images at minimal bandwidth. The H3S1P provides 720p resolution at full frame rate. Progressive scan technology and 2D edge enhancement provide outstanding clarity and definition. Digital Noise Reduction (DNR) results in significant storage savings without sacrificing image quality in low light. The 1/4" progressive scan CMOS sensor offers the latest in digital video surveillance technology with accurate color rendition through a wide variety of lighting conditions. The H3S1P also supports the ONVIF Profile S specification for interoperability between network video products.

The compact, one piece design provides fast and easy installation in any application. The camera comes complete for surface mounting and an optional wall/pendant mount kit is available.

A 3D axis gimbal capable of 360º of pan, 180º of tilt and 360º of horizontal rotation simplifies mechanical camera adjustment. The varifocal auto iris lens allows the field of view to be adjusted to suit the scene requirements.

A powerful and intuitive web client allows fine tuning of the camera and the auto iris levels. This can also be performed from most NVR setup utilities.

The H3S1P supports dual video streams and multiple compression formats with frame rates up to 30 frames per second (25 fps for PAL systems). The compression parameters for the two video streams are independently configurable. The primary stream is dedicated to H.264. The secondary stream can be configured for H.264 or MJPEG. The H3S1P features analog video out for aiming and focusing during setup.

With built-in low current Power over Ethernet (IEEE 802.3af), power is supplied to the camera using standard network cabling, eliminating the need for a separate power supply and associated wiring. In situations where PoE support does not exist, the unit can also be powered directly from 24 V AC.

Market Opportunities

The H3S1P is perfect for installations where excellent picture clarity at minimal bandwidth is required. At three times the resolution of standard analog cameras, yet with similar bandwidth requirements, the H3S1P can be retrofitted on many existing DVR/NVR installations without requiring additional storage.

Features

- Outstanding image quality, 720p (1280 x 720) resolution
- 30 fps (25 fps PAL) progressive scan
- Day/Night, 3.3-12 mm VFAI lens
- Camera tamper detection
- Video motion detection
- NTP time synchronization support
- ONVIF Profile S support

- Dual digital video streams, independently configurable, H.264 and/or H.264/MJPEG
- Remote firmware updates
- Supports both dynamic and static IP address assignment
- Date/time stamp embedded into video stream
- Multiple browser support

- Includes advanced IP locator software to make system setup easy
- Embedded web server for remote setup of camera video and network parameters
- Choice of 24 V AC or PoE IEEE 802.3af power inputs
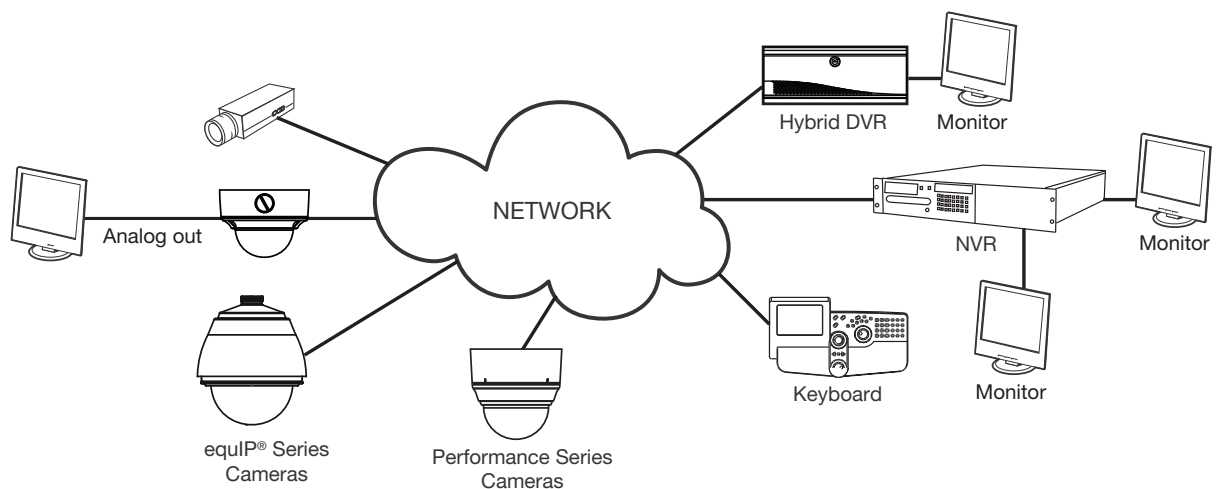- Wall/pendant mount kit available

H3S1P

SPECIFICATIONS

Like all cameras in the Performance Series, the H3S1P network camera uses Honeywell technology for video motion detection, tamper detection, remote firmware updating and for secure storage of all camera settings. Video motion detection recognizes object motion within the field of view; then a simple on-screen notification alerts the user. Camera tamper detection notifies the user when a camera's field of view is altered, blinded, or blurred. This ensures the video's integrity and alerts the customer to either a live event or a system problem that is causing disruption to the video stream. Honeywell's technology also allows users to remotely upload firmware to the camera. Setup is quick and easy and can be customized through a web client or from an NVR or DVR. The built-in web server provides password protected access to the camera's video and network setup.
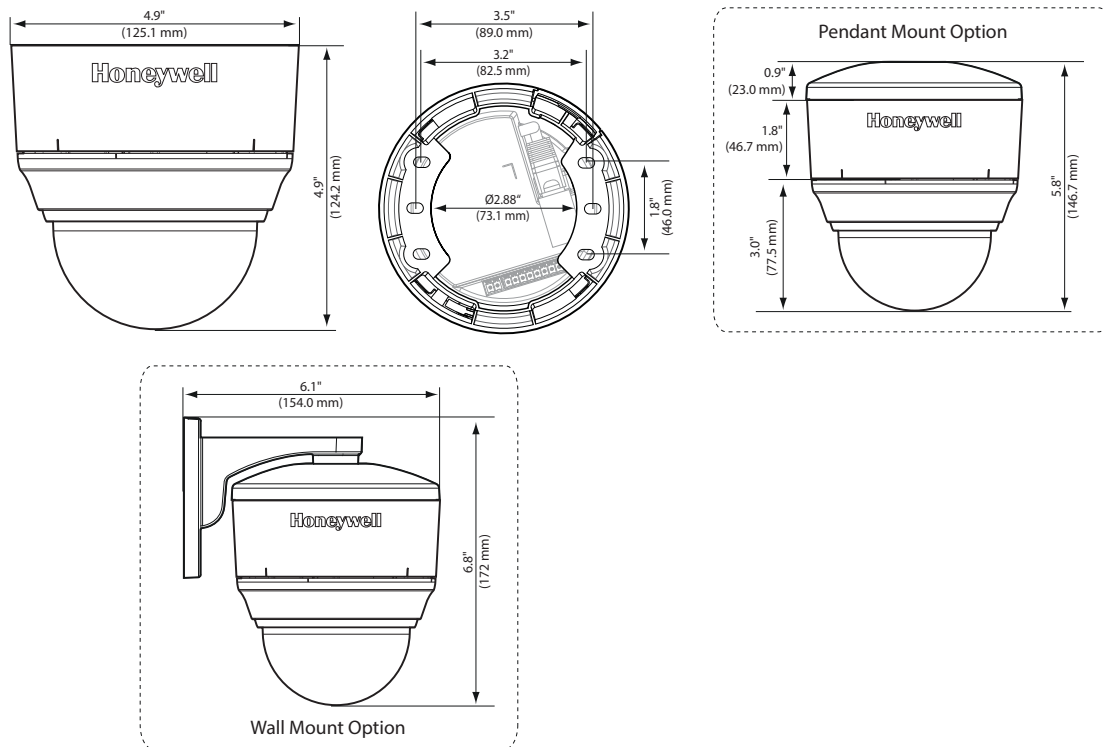

System Diagram

H3S1P

SPECIFICATIONS

Operational

Video Standard	NTSC/PAL
Scanning System	Progressive scan
Image Sensor	1/4" CMOS
Number of Pixels (H×V)	1280 x 720
Minimum Illumination	0.19 lux @ 50 IRE, F1.4 0.08 lux @ 30 IRE, F1.4
Automatic Lens Control	DC Iris Level 1-25
Video Output (AUX)	1.0 Vp-p @ 75 ohms
S/N Ratio	50 dB or more (AGC off)
Auto Gain Control	Off/On, selectable (10-40 dB)
Automatic Electronic Shutter	1/60-1/24,500 sec (NTSC) 1/50-1/24,500 sec (PAL)
Lens Type	3.3-12.0 mm Varifocal Auto Iris, F1.4

Angle of View		Wide	Tele
	Horizontal	68.5°	19.1°
	Vertical	36.8°	10.8°

White Balance	AWC, AWC Push, Manual

Electrical

Input Voltage	24 V AC, PoE IEEE 802.3af
Input Range	17–28 V AC
Surge Suppression	1.5 kW transient
Power Consumption	5.0 W (max) 24 V AC PoE: PD Type 1, Class 1

Mechanical

Dimensions (W × H)	4.9" x 4.9" (125.1 mm x 124.2 mm)
Weight	1.0 lb (0.448 kg) camera only
Construction	Housing: Polycarbonate Finish: Matte texture, off-white
Connector	Video Output (AUX): 2-pin Molex connector Power Input: Removable screw block Network: RJ45 connector

Environmental

Temperature	Operating: 14°F to 122°F (-10°C to 50°C) Storage: -40°F to 158°F (-40°C to 70°C)
Relative Humidity	0% to 85%, non-condensing

IP Specifications

Video Compression	Dual stream: H.264 and/or H.264/MJPEG

Primary Stream Resolution	H.264 Bitrate (Typical)*	Frame Rate	Storage/ Day (GB)
1280 x 720	1.8 Mbps	30/25	18.98
800 x 450	1.2 Mbps	30/25	12.65
640 x 360	0.6 Mbps	30/25	6.33
320 x 180	0.21 Mbps	30/25	0.89

Frame Rate NTSC/PAL	Up to 30/25 fps video in all resolutions
Video Streaming	Dual streaming: H.264 and/or H.264/MJPEG Controllable frame rate and bandwidth Constant or variable bit rate
Security	Multiple user access levels with password protection
Video Access from Web Browser	Full control of all camera settings available to administrator
Minimum Web Browsing Requirements	Pentium IV CPU 3.1 GHz or faster 1 GB RAM (32-bit) or 2 GB RAM (64-bit) Windows XP® SP3, Windows 2003 Server R2 (32-bit), Windows 7 (32-/64-bit), Windows Vista SP1, Windows 2008 R2 (64-bit) Internet Explorer 8 or 9 Mozilla Firefox® and Google Chrome
Installation and Management Maintenance	Honeywell IP Utility software identifies the IP address, checks status of device, firmware upgrades over HTTP
Supported Protocols	HTTP, TCP, RTSP, RTP, UDP, ARP, DNS, NTP, RTCP, FTP, ICMP, DHCP, Bonjour, IGMP, SSH
Standards	ONVIF Profile S support

Regulatory

Emissions	FCC Part 15B, CE (EN55022)
Immunity	CE (EN50130-4)
Safety	EU: EN60950-1 North America ETL listed to UL/CSA 60950-1

* Actual bitrate is scene and motion dependent with H.264 stream.

SPECIFICATIONS

System Integration
Open IP Integration
ONVIF support and open API for software integration. Refer to www.onvif.org for the ONVIF specification and the Honeywell Open Technology Alliance (http://www.security.honeywell.com/hota/) to learn more about our open and integrated solutions.

Accessories	
Housing and Mounts	
HD3-MK1	Wall/Pendant Mount Kit, Off-White

H3S1P Dimensions

Pendant Mount Option

Wall Mount Option

Ordering	
H3S1P1	Network Day/Night Indoor Fixed Minidome Camera, 1/4" Progressive Scan, CMOS, 720p Resolution, 3.3–12 mm VFAI Lens, 24 V AC or PoE IEEE 802.3af, H.264, NTSC
H3S1P1X	Network Day/Night Indoor Fixed Minidome Camera, 1/4" Progressive Scan, CMOS, 720p Resolution, 3.3–12 mm VFAI Lens, 24 V AC or PoE IEEE 802.3af, H.264, PAL

NOTE: Honeywell reserves the right, without notification, to make changes in product design or specifications.

For more information:

www.honeywell.com/security

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