Honeywell

HCD554IP

EQUIP® SERIES TRUE DAY/NIGHT NETWORK CAMERA

Honeywell's EQUIP® Series is an array of IP-based products that have an open architecture platform and utilize a single Application Program Interface (API). The API allows for a common user experience and integration with hybrid Digital Video Recorders (DVRs) and Network Video Recorders (NVRs).

The Honeywell HCD554IP day/night network camera offers the latest in digital video surveillance. The 1/3" CCD network camera combines world-class imaging and camera technology with the EQUIP Series IP networking technology providing streaming MPEG-4 images in 4CIF, 2CIF, or CIF resolutions with rates up to 30 frames per second (25 fps for PAL systems).

The HCD554IP day/night camera adapts to varying lighting conditions to ensure the highest picture quality even in extreme low light conditions. When the light level drops too low for accurate video identification in color, the camera moves the IR cut filter out of the optical path and then switches to black and white video to capture more detail using the increased sensitivity of the CCD to IR light. For additional control, the on-board alarm input can be configured to switch the camera from day to night mode to allow synchronization with external lighting.

The HCS554IP has built-in Power over Ethernet (IEEE 802.3af), which allows power to be supplied to the camera using the network, eliminating the need for a separate power supply and reducing the cost of installation. For additional installation flexibility the unit can also be powered with 12 VDC or 24 VAC.

Market Opportunities

The HCD554IP is a network surveillance solution designed for object recognition that is required in locations where variable and low light conditions exist. Setup is quick and easy and can be customized through a Web client or from an NVR. This provides optimum performance for both indoor and outdoor applications.
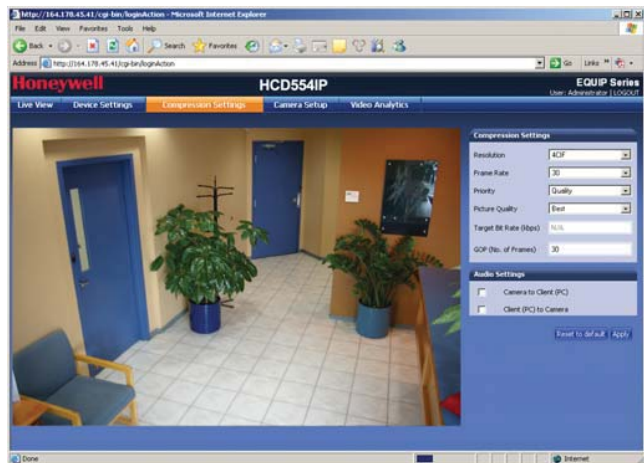
Features

- 4CIF, 2CIF, or CIF resolutions

- 1/3" color CCD, 540 TVL

- Excellent low light performance, down to 0.4 lux

- Camera Sabotage Detection

- MPEG-4 compression

- Remote firmware updates

- Supports both Dynamic and Static IP addresses

- Variable day/night threshold setting to accommodate switching to black and white images in low light

- Multiple levels of password protected remote access prevents unauthorized users from altering system settings

- Includes advanced IP locator software to make system setup easy

- Web server for remote setup of camera video and network parameters

- 12 VDC/24 VAC or PoE IEEE 802.3af choice of power inputs

- Supports CS mount lenses

- Supports two-way audio
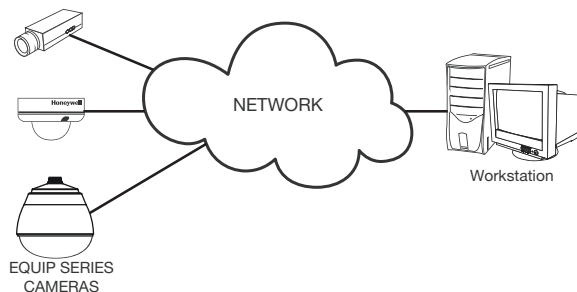
Honeywell

HCD554IP

SPECIFICATIONS

Like all cameras in the EQUIP Series, the HCD554IP network camera uses Honeywell technology for camera sabotage detection, remote firmware updating and for secure storage of all camera settings. Camera sabotage 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. Set-up 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.
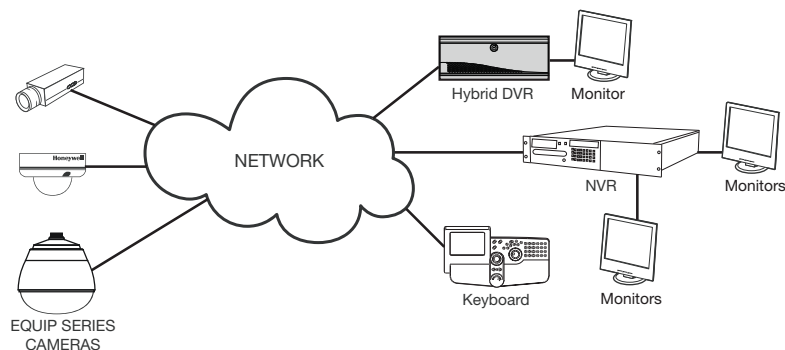
System Diagram

Internet Explorer or Honeywell IT Utility

NETWORK

Workstation

EQUIP SERIES
CAMERAS

Hybrid DVR or NVR

Hybrid DVR   Monitor

NETWORK

NVR   Monitors

Keyboard   Monitors

EQUIP SERIES
CAMERAS

Honeywell
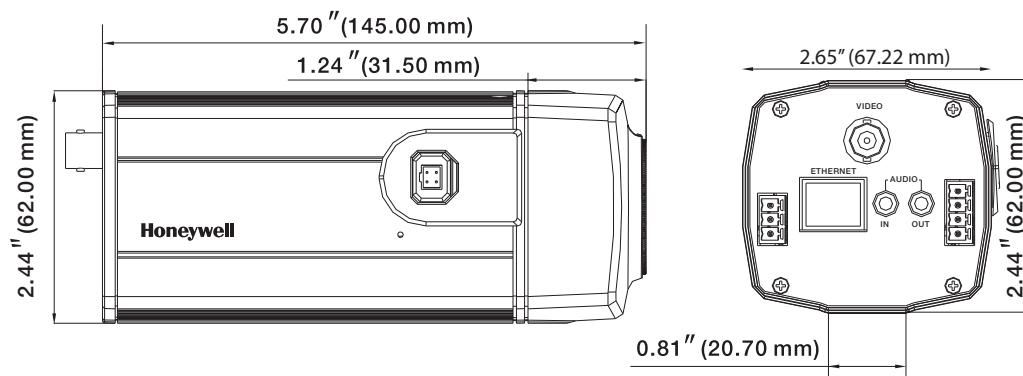
HCD554IP

SPECIFICATIONS

Operational	
Video Standard	NTSC, PAL
Scanning System	525/60 lines (NTSC), 625/50 lines (PAL)
Image Sensor	1/3" CCD
Number of Pixels (H x V)	HCD554IP: 768 x 494 (NTSC) HCD554IPX: 752 x 582 (PAL)
Minimum Illumination	0.6 lux color/0.4 lux BW @ 50 IRE, F1.2 0.25 lux color/0.15 lux BW @ 30 IRE, F1.2
Horizontal Resolution	Greater than 540 TVL
Automatic Lens Control	DC Iris Level 1-25
Video Output	1.0 Vp-p @ 75 Ohms
S/N Ratio	50 dB or more (AGC off)
Auto Gain Control	Off/On, selectable (10-30 dB)
Automatic Electronic Shutter	1/60-1/100,000 sec (NTSC) 1/50-1/100,000 sec (PAL)
White Balance	ATW, User Fixed, AWC (Auto or Manual), Fluorescent, MWB (Manual Mode), Indoor, Outdoor
Back Light Compensation	Off/On, selectable
Gamma	0.45
Audio/Two-Way	Line in/out

Electrical	
Input Voltage	12 VDC/24 VAC, PoE IEEE 802.3af
Input Range	11–16 VDC, 17–28 VAC
Surge Suppression	1.5 kW transient
Power Consumption	8 W (max)

Mechanical	
Dimensions (W x H x D)	See Diagram
Weight	1.1 lb (.5 kg) camera only
Construction	Housing: Aluminum Finish: Cool Gray Powder Coat
Camera Mount	1/4-20 UNC mounting ring
Lens Mount	CS Lens Mount
Connector	Video Output: BNC connector Lens: 4 Pin Connector Power Input: Removable screw block Network: RJ45 connector Alarm I/O: Removable screw block Audio In: 3.5 mm mono phone jack Audio Out: 3.5 mm mono phone jack

Environmental	
Temperature	Operating: 14°F to 122°F (-10°C to 50°C) Storage: -4°F to 140°F (-20°C to 60°C)
Relative Humidity	0% to 85%, non-condensing

IP Specifications			
Video Compression	MPEG-4 Part 2 (ISO/IEC 14496-2) SP level 0-3		
Resolutions	4CIF 2CIF CIF	NTSC 704 x 480 704 x 240 352 x 240	PAL 704 x 576 704 x 288 352 x 244
Frame Rate NTSC/PAL	Up to 30/25 fps video in all resolutions		
Video Streaming	MPEG-4 controllable frame rate and bandwidth. Constant or variable bit rate (MPEG-4)		
Security	Multiple user access levels with password protection		
Users	1 Administrator, 4 Guests (unicast)		
Video Access from Web Browser	Camera live view for up to 5 clients. Full control of all camera settings available to administrator		
Minimum Web Browsing Requirements	Pentium IV CPU 3.0 GHz or equivalent AMD, 512 MB RAM, AGP graphics card (32 MB RAM) Windows® XP 2000, Internet Explorer 6.0 or later		
Supported Protocols	IPv4, HTTP, TCP, RTSP, RTP, UDP, ARP, DNS, RTCP, FTP, ICMP, DHCP, Bonjour, IGMP		

Regulatory	
Emissions	FCC, CE (EN55022)
Immunity	CE (EN50130-4)
Safety	EN60950-1 UL Listed (file E319174)

SPECIFICATIONS

System Compatibility	
Hybrid DVRs	
Fusion III	Full Featured Hybrid Digital Video Recorder, version 3.5 or higher
NVRs	
Enterprise NVR Series	Enterprise Class Digital Network Video Recorder System, version 5.6 or higher
DVM	Enterprise IP Based Video System, Version R200.2 or higher

Accessories	
Recommended Lens Options	
HLD29V8DNL	2.9-8 mm, F0.95, DC Auto Iris Lens, IR Corrected
HLD27V13DNL	2.7-13.5 mm, F1.3, DC Auto Iris Lens, IR Corrected
HLD5V50DNL	5.0-50 mm, F1.6, DC Auto Iris Lens, IR Corrected
Housing and Mounts	
HBC5WT	Wall/ceiling mount bracket
HHC12 Series	Housing with optional heater/blower and mounts

Ordering	
HCD554IP	EQUIP Series 1/3" CCD High Resolution True Day/Night Camera with DSP, 540 TVL, 12 VDC/24 VAC or PoE IEEE 802.3af. NTSC
HCD554IPX	EQUIP Series 1/3" CCD High Resolution True Day/Night Camera with DSP, 540 TVL, 12 VDC/24 VAC or PoE IEEE 802.3 af, PAL

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

Automation and Control Solutions

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