SNC-DH140

Minidome 720p/30 fps
Camera - V Series

Overview

The SNC-DH140 HD minidome network camera delivers excellent picture quality at HD resolution (1280x720, 30 fps) in 16:9 aspect ratio. This level of clarity combined with state-of-the-art image processing make the DH140 one of the most effective CCTV cameras on the market. This capability makes it an obvious choice for mission critical CCTV applications including airport/border and traffic surveillance.

Installation is quick and easy, thanks to the newly developed Easy Focus function which automatically adjusts to the native surroundings. The SNC-DH140 also has an Easy Zoom function to adjust the focus relative to the zoom ratio.

PoE (Power over Ethernet) capability and support for multiple codecs provides ultimate flexibility for system design, integration and installation.

SNC-DH140 minidome also features ONVIF (Open Network Video Interface Forum) compliance for easy interoperability with IP monitoring products from a variety of manufacturers.

Capture everything

Sony's HD minidome network camera delivers clear and crisp CCTV images with a level of detail never seen before. In combination with advanced image processing technology, the SNC-DH140 provides enhanced levels of security even under the most challenging lighting conditions. It also provides the option to cover more area with fewer cameras, depending upon your operational requirements.

Automatic adjustment focusing

The newly developed Easy Focus function on the SNC-DH140 enables quick and easy installation and automatic adjustment focusing to suit the surroundings. The Easy Zoom function adjusts the focus relative to the zoom ratio.

Simple to install, easy to maintain

Compact and slim, the SNC-DH140 camera can be installed or detached quickly and easily, greatly reducing installation time, servicing time and costs.

Highly flexible network capability

Enjoy extraordinary operational flexibility using the ideal compression format for differing image and network types (JPEG for high-quality still images, MPEG-4 and H.264 for clear, moving images over bandwidth-limited networks).

ONVIF compliance offers the optimum in interoperability

Compliance with ONVIF Open Network Video Interface Forum) ensures interoperability and maximum flexibility between a wide range of manufacturers' network video products.

SONY

Features

Sony's HD CMOS image sensor provides excellent picture quality at all resolutions up to 1280x1024 including HD resolution (1280 x 720 pixels) in 16:9 aspect ratio. The full potential for sharp, clear HD images is ensured thanks to XDNR noise reduction ,visibility enhancer (VE) and View-DR systems.

CMOS image sensor for HD picture quality
With Sony's View-DR innovation, you can achieve a high contrast ratio of 125dB. This ensures realistic tonal detail, and state-of-the-art image enhancement with a wide, dynamic range capability.

View-DR technology for a high contrast ratio
Sony's visibility enhancer technology (VE) improves performance in challenging lighting conditions, for example high-contrast environments, such as casinos and highways, that had previously been difficult to monitor. The visibility enhancer's advanced system suppresses extreme whites and boosts dark areas in a scene simultaneously and dynamically, to produce clearer images on the screen.

Visibility Enhancer for improved performance in challenging lighting conditions
XDNR (Excellent Dynamic Noise Reduction) technology virtually eliminates image blur in low-light conditions, enabling users to clearly capture images that have not been easy to portray in the past. It also overcomes the problems associated with many competitor camera models. What's more, when both XDNR and Visibility Enhancer are turned on, the cameras can achieve four times the sensitivity compared to when they are off. This technology is ideal for any outdoor surveillance monitoring, such as in a car park at night.

XDNR technology for clear low-light images
The Easy Focus function is an automatic focus function activated by dedicated buttons on the camera body/web interface.

Easy Focus and Easy Zoom functions
The Easy Zoom function adjusts the focus relative to the zoom ratio.

Power over Ethernet capability (IEEE802.3af)
Supporting Power over Ethernet (PoE), the SNC-DH140 can be powered using the same Ethernet cable it uses for data transfer. This feature greatly reduces the physical infrastructure costs and speed of deployment

Triple Codec Network Operation
This multi-codec camera supports three compression formats: JPEG, the best choice of high-quality still images

ONVIF Compliant
The ONVIF (Open Network Video Interface Forum) defines a common protocol for the exchange of information between network video devices including automatic device discovery and video streaming. Allows interoperability between network video devices.

Tamper Alarm
When an attempt is made to tamper with the camera, such as spray-painting the lens, the SNC-DH140 detects this and triggers an alarm. This event can also be used to activate the camera relays, or even to start the Voice Alert function.

Advanced Audio Detection
Unlike conventional audio detection where an alarm is triggered based on a preset audio level, the SNC-DH140 triggers its alarms based on ambient sound conditions as

the threshold. The camera stores and updates ambient audio levels and frequencies, and when the threshold level based on this data, is surpassed, an alarm is triggered. (Available with version 1.1 or later software.)

Support for IPv6
The SNC-DH140 supports Internet Protocol Version 6 (IPv6).

Specifications

Camera	
Image Sensor	1/3 type progressive scan Exmor CMOS sensor
Number of Effective Pixels	Approx. 1.4 Megapixels
Signal System	NTSC color system/PAL color system (switchable)
Sync System	Internal synchronization
Minimum Illumination (50 IRE)	Color: 0.20 lx (F1.2/View-DR OFF / VE OFF / AGC High / XDNR Mid / 50 IRE) BW: 0.10 lx (F1.2/View-DR OFF / VE OFF / AGC High / XDNR Mid / 50 IRE)
Minimum Illumination (30 IRE)	Color: 0.10 lx (F1.2, View-DR OFF, VE OFF, AGC High, XDNR Middle, 1/30 s) B/W: 0.05 lx (F1.2, View-DR OFF, VE OFF, AGC High, XDNR Middle, 1/30 s)
	Equivalent to 130 dB by View-

Dynamic Range	DR Technology
S/N Ratio (Gain 0 dB)	More than 50 dB
Gain	Auto (3 levels)
Shutter Speed	1 s to 1/10000 s
Exposure Control	Auto, EV Compensation*1, Auto Slow Shutter*2
White Balance	Auto(ATW, ATW-PRO), Preset, One-push WB, Manual
Lens	Built-in varifocal lens
Powered Zoom	No
Easy Zoom	Yes
Zoom Ratio	Optical zoom 2.9x Digital zoom 4x Total zoom 11.6x
Powered Focus	Yes (Easy Focus)
Horizontal Viewing Angle	85.4° to 31.2°
Focal Length	f = 3.1 mm to 8.9 mm
F-Number	F1.2 (Wide), F2.1 (Tele)
Minimum Object Distance	300 mm
IR Illuminator	No

Camera Features

Day/Night	True D/N
Wide-D	View-DR
Tone Correction	VE (VE)
Noise Reduction	XDNR
Image Stabilizer	No
Vandal Resistant	No
Ingress Protection	No

Video

Resolution	1280 x 1024, 1280 x 960, 1280 x 800, 1280 x 720, 1024 x 768, 1024 x 576, 800 x 600, 800 x 480, 768 x 576, 720 x 576, 720 x 480, 704 x 576, 640 x 480, 640 x 368, 384 x 288, 320 x 240, 320 x 192 (H.264, MPEG-4, JPEG)
Compression Format	H.264, MPEG-4, JPEG
Maximum Frame Rate	H.264: 20 fps (1280 x 1024)/30 fps (1280 x 720) MPEG-4: 25 fps (1280 x 1024)/30 fps (1280 x 720) JPEG: 30 fps (1280 x 1024)/30 fps (1280 x 720)
Multi streaming	

Capability	Dual streaming*3
Number of Clients	10

Intelligent Video/Audio Analytics

Analytics Architecture	DEPA Advanced
Intelligent Motion Detection	Yes (with built-in Post Filter)

Audio

Compression Format	G.711/G.726

System Requirements

Operating System	Microsoft Windows XP Windows Vista (32 bit) Windows 7 (32 bit, 64 bit)
Processor	Intel Core2 Duo 2 GHz or higher
Memory	1 GB or more
Web Browser	Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0 Firefox Ver. 3.5 (plug-in free viewer only) Safari Ver. 4.0 (plug-in free viewer only) Google Chrome Ver.4.0 (plug-in free viewer only)

Network

Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS,NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
Number of IP Address/Mac ADDRESS	1
ONVIF Conformance	Profile S
Wireless Network	No
Authentication	IEEE802.1X

Interface

Analog Video Output	BNC x1 600 TV lines
Analog Monitor Output for Setup	Phono jack x1
Microphone Input	Mini jack (monaural), MIC IN/LINE IN: DC 2.5 V plug-in power
Line Input	Mini jack (monaural)
Line Output	Mini jack (monaural), Maximum output level: 1 Vrms

Network Port	10BASE-T/100BASE-TX (RJ-45)
Alarm Input (Sensor Input)	x1
Alarm Output	x2
USB Slots	No

General

Power Requirements	IEEE 802.3af compliant (PoE) Class 0, AC 24 V, DC 12 V
Power Consumption	8.0 W max.
Operating Temperature	-10℃ to +50℃ +14°F to +122°F
Cold Start Temperature	0 ℃ to +50℃ +32°F to +122°F
Storage Temperature	-20℃ to +60℃ -4°F to +140°F
Operating Humidity	20% to 80%
Storage Humidity	20% to 95%
Dimensions (W x H x D) *1	φ140 mm x 118 mm φ5 5/8 inches x 4 3/4 inches
Mass	Approx. 750 g Approx. 1 lb 10 oz
	UL2044, FCC Class A Digital Device, IC Class A Digital Device, IEC60950-1,

Safety Regulations	EN55022(A)+EN55024+EN50130-4, VCCI Class A, AN/NZS CISPR22
Supplied Accessories	CD-ROM (User's Guides, SNC Toolbox) (1) Installation Manual (1) Template, Wire rope (1) Bracket, LAN cable (1) BNC cable (1) Power input cable (1) I/O cable (1) Audio cable (1) Warranty booklet (1) M4 shoulder screw (1) M4 screws (2)

Notes

*1	VE off mode only.
*2	View-DR off mode only.
*3	Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format)
*4	The values for dimensions are approximate.

Related products

UNI-UMB1   YT-ICB140

Indoor wall
mounting bracket
for minidome and
PTZ cameras

In-ceiling bracket
designed for use
with Sony
minidome video
surveillance
cameras

Gallery