

SNC-DH220

Minidome 1080p/30 fps Camera - E Series



Overview

The SNC-DH220 is an indoor high definition (1080p, supporting H.264 at 30fps) 3 Megapixel (1920x 1440 maximum resolution) minidome camera with True Day/Night function, DEPA and ONVIF compliance. It supports dual streaming and triple codec encoding.

Sony's Exmor CMOS sensor provides excellent pictures and event detection for effective evidence gathering.

Sony's E-Series cameras have outstanding picture quality and a range of features at an affordable price.

Features

- **DEPA**

The SNC-DH220 offers intelligent video analytics, based on the Sony DEPA platform. DEPA is a combined function of the intelligence built in to the camera and rules/filters that determine which images should be recorded or when an alarm should be triggered.

- **EXMOR® and CMOS Sensor®**

High resolution CMOS sensor® with low noise characteristics for improved image acquisition. Derived from Sony's broadcast product range, EXMOR® is one of the highest quality image sensors available.

- **Power over Ethernet (PoE) capability**

Supporting Power over Ethernet (PoE), the camera 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.

- **ONVIF (Open Network Video Interface Forum) compliance**

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.

- **Full HD (1920x1080p) resolution**

Detailed Full HD progressive images. Progressive acquisition (as opposed to interlace) means that images are more stable to view, contain more information and compress more efficiently - without "interlace artifacts".

- **Supports multiple industry standard codecs: H264, MPEG-4 and JPEG with dual streaming capability**

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

- **Stream Squared Function**

An incredibly useful function that allows simultaneous streaming of two 4:3 aspect ratio videos in user-selectable SD resolutions. You can select the entire image or a portion of the image from the original view and resize to SD resolution. With this feature the SNC-DH220 can replace two SD cameras installed in the same line of view.

- **True Day/Night**

Optimises sensitivity in day and night conditions. As night falls, an infra-red filter is automatically removed and the camera switches to monochrome. In this mode, the camera can acquire images extremely low light conditions.

- **Easy Focus/Easy Zoom**

Easy Focus/Easy Zoom simplifies installation by making it easy to set up the focus and zoom settings of the camera.

- **Analogue Monitor Output**

This allows an analogue video monitor to be connected directly to the camera.

Technical Specifications

Camera	
● Image Sensor	1/2.8 type progressive scan "Exmor" CMOS sensor
● Number of Effective Pixels	Approx. 3.27 Megapixels
● Signal System	NTSC color system/PAL color system (switchable)
● Sync System	Internal synchronization
● Minimum Illumination (50 IRE)	Color: 0.70 lx (F1.2/ AGC 42 dB / 50 IRE) BW: 0.45 lx (F1.2/ AGC 42 dB / 50 IRE)
● Minimum Illumination (30 IRE)	Color: 0.40 lx (F1.2, AGC 42 dB, 1/30 s) B/W: 0.25 lx (F1.2, AGC 42 dB, 1/30 s)
● Dynamic Range	More than 60 dB
● Gain	Auto
● Shutter Speed	1 s to 1/10000 s
● Exposure Control	Auto, EV Compensation, Auto Slow Shutter
● 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 3x Total zoom 8.7x
● Powered Focus	Yes (Easy Focus)
● Horizontal Viewing Angle	88.5° to 32.3°
● 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	No
● Tone Correction	No
● Noise Reduction	NR
● Image Stabilizer	No
● Vandal Resistant	No
● Ingress Protection	No

Video	

● Resolution	1920 x 1440, 1600 x 1200, 1680 x 1056, 1920 x 1080, 1440 x 912, 1376 x 768, 1280 x 960, 1280 x 800, 1280 x 720, 1280 x 1024, 1024 x 768, 1024 x 576, 800 x 600, 800 x 480, 768 x 576, 720 x 576, 704 x 576, 720 x 480, 640 x 480, 640x 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	H264: 20 fps (1920 x 1440)/30 fps (1920 x 1080) MPEG-4: 15 fps (1920 x 1440)/25 fps (1920 x 1080) JPEG: 12 fps (1920 x 1440)/16 fps (1920 x 1080)
● Multi streaming Capability	Dual streaming*1
● Number of Clients	5

Intelligent Video/Audio Analytics	
● Analytics Architecture	DEPA
● Intelligent Motion Detection	Yes

System Requirements	
● Operating System	Microsoft Windows XP Windows Vista (32 bit) Windows 7 (32 bit, 64 bit)
● Processor	Intel Core2 Duo 2.33 GHz or higher
● Memory	2 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 only), 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 Monitor Output for Setup	Phono jack x1 (1.0 Vp-p, 75 Ω, unbalanced, sync negative)
● Network Port	10BASE-T/100BASE-TX (RJ-45)
● USB Slots	No

General	
● Power Requirements	IEEE 802.3af compliant (PoE) Class 2
● Power Consumption	6.0 W max.
● Operating Temperature	-10°C to +50°C +14°F to +122°F
● Cold Start Temperature	0 °C to +50°C +32°F to +122°F
● Storage Temperature	-20°C to +60°C -4°F to +140°F

● Operating Humidity	20% to 80%
● Storage Humidity	20% to 95%
● Dimensions (W x H x D)*2	φ 140 mm x 118 mm φ 5 5/8 inches x 4 3/4 inches
● Mass	Approx. 715 g (not including the cables and bracket) Approx. 1 lb 9 oz (not including the cables and bracket)
● Safety Regulations	UL2044, FCC Class A Digital Device, IC Class A Digital Device, IEC60950-1, EN55022(A)+EN55024+EN50 130-4, VCCI Class A, AN/NZS CISPR22
● Supplied Accessories	CD-ROM (User's Guide, and supplied programs) (1) Bracket (1) Template (1) Wire rope (1) Camera unit mounting screws (x2) Shoulder screw M4 (1) LAN cable (1) Installation Manual (1)

Notes

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

Mounting Hardware



SNCA-PM3
Pole mount adapter



SNCA-WMMD4
Indoor wall mounting bracket for minidome and PTZ cameras



UNI-BBB1



UNI-CMA3
Exterior angle wall mount corner adapter for video security camera housings



UNI-WMB4
Gooseneck Wall Mount Bracket



YT-ICB140
In-ceiling bracket designed for use with Sony minidome video surveillance cameras



YT-ICB600
In-Ceiling Bracket designed for use with network and analogue minidome security cameras

Other Accessories



UNI-LD280
Replacement lens capsule

Power Supplies



SNCA-HPOE1
Single port, high-power Gigabit PoE midspan



SNCA-POE1
Compact Power over Ethernet power supply for fixed and minidome cameras



SNCA-POE12
Compact 12-port Power over Ethernet (PoE) midspanpower supply for fixed and minidome cameras



SNCA-POE6
Compact 6-port Power over Ethernet (PoE) midspanpower supply for fixed and minidome cameras