

A new range of network
cameras offering you clear
and detailed images.
Designed for security.

SNC-DS60/DS10/CS20 Advanced progressive scan network cameras

SONY



The new range of Mini-dome and fixed network security cameras combine outstanding resolution with advanced Sony image processing to deliver exceptional solutions for security professionals.

Why choose the SNC-DS60//DS10/CS20 Network Cameras



The SNC-DS60, SNC-DS10 and SNC-CS20 are the newest addition to the Sony network camera line-up. Incorporating advanced progressive scan CCDs with ExwavePRO technology, they capture extremely clear and detailed images. What's more, they use a complementary colour filter to provide amazingly bright, high resolution images both in daytime and night-time environments.

The SNC-DS60, SNC-DS10 and SNC-CS20 are the newest addition to the Sony network camera line-up. Incorporating advanced progressive scan CCDs with ExwavePRO technology, they capture extremely clear and detailed images. What's more, they use a complementary colour filter to provide amazingly bright, high resolution images both in daytime and night-time environments.

High sensitivity provided by Sony's unique ExwavePRO technology

Intelligent Motion Detection reduces false alarms and enables you to set alarms based on movement parameters

Simple installation and reliable operation in even harsh environments is ensured by Sony design and build

Conventional
Camera
ImageExwavePRO
Image

Crystal-clear images

ExwavePRO technology with sophisticated Progressive Scan CCD – designed for challenging security environments

These new cameras use ExwavePRO technology, combining a progressive scan CCD with a complementary colour filter to deliver high sensitivity levels and clear, crisp images in even the most difficult lighting conditions.

Complementary colour filters allow more light to reach the CCD when compared to primary (RGB) colour filters more commonly used, providing you with better surveillance images. Day/night mode, when used in conjunction with ExwavePRO technology, will dramatically improve night-time sensitivity, increasing visibility for operators and enhance the quality of archive footage.

JPEG Picture Quality Settings with Constant Bitrate Algorithm

Users can preset the JPEG picture quality for these cameras from a choice of ten levels. In addition, because the cameras incorporate a constant bitrate algorithm, they can limit the data bitrate while still maintaining high-quality images. This is especially useful for calculating the required storage capacity and bandwidth during installation.

Selectable Compression Formats

These cameras support two compression formats: JPEG and MPEG-4. The JPEG compression format is the industry standard for high-quality still images. MPEG-4 provides clear moving images efficiently over networks when bandwidth is limited.

Intelligent Motion Detection – for constant vigilance

Intelligent Motion Detection has been seen to greatly reduce the number of false positives and false alarms, whilst crucially improving response times to real incidents. IMD has the ability to ignore background noise like falling leaves or regular car movements, but can be programmed to alert operators to abnormal movement. This could be abandoned bags in a busy shopping mall, intrusion in a secure area, or removal of a fixed item like a picture in a gallery.

Distributed Enhanced Processing Architecture (DEPA)

Intelligent Motion Detection



Filter (Passing-Directional)



SNC SERIES



- 1 Sends Object ID and Position
- 3 Requests Relevant Images
- 4 Sends Relevant Images

2 NSR Series/IMZ-RS400 Series
Analyses Object Movement

Versatile range



SNC-DS60

Ruggedised Mini-dome day-night camera

The SNC-DS60 Mini-dome network camera incorporates a powerful vari-focal 3.6x zoom lens and 1/4-type Progressive Scan CCD. The Sony-patented Ball-Joint lens provides multi-directional coverage and quick focus adjustment ensures fast, accurate operation. The SNC-DS60 is housed in a heavy-duty vandal-resistant, wall or ceiling-mountable die-cast enclosure with an impact-resistant polycarbonate dome.

It complies with the IP66* standard for protection against water and dust. The built-in heater means it can operate even in severe temperatures as low as -30°C (-22°F). The SNC-DS60 camera can switch from day mode (colour) to night mode (B/W). The camera can also be preset to toggle between day mode and night mode based on user presets or automatically in response to surrounding light conditions.



SNC-DS10

Mini-dome indoor camera

Sharing many of the exceptional features of the SNC-DS60 (1/4-type Progressive Scan, Ball-Joint lens, Wall or Ceiling-mountable etc.), the SNC-DS10 is designed for indoor use. Its vari-focal 3.6x zoom lens and richness of features make it perfect for corporate, retail, education, airports and public applications.



SNC-CS20

Fixed camera

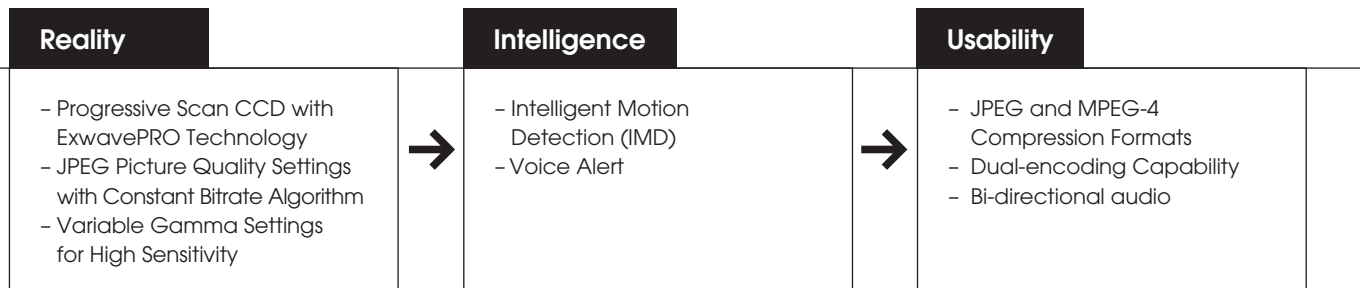
The compact day/night SNC-CS20 is ideal for both indoor and outdoor use. Specifically designed for security applications, and with a design inherited from CCTV cameras, this camera has a host of image processing features. System integrators will appreciate the fact that it can be installed in an 8-inch camera housing.





Sony IPELA Network Video Monitoring solutions offer cost benefits and flexibility in the applications of Security, Surveillance and Remote Monitoring.

Complete solutions offer customers a choice of IP cameras, Network Video Recorders and Management Software.



SNC-DS60

Ruggedised Mini-dome day-night camera



SNC-DS10

Mini-dome indoor camera



SNC-CS20

Fixed camera



Progressive Scan CCD

ExwavePRO Technology

High Resolution

JPEG Picture Quality Settings with Constant Bitrate Algorithm

Variable Gamma Settings

Ruggedised option

JPEG and MPEG-4 Compression Formats

Dual-encoding Capability

Bi-directional Audio

DEPA Intelligent Video Analysis

Intelligent Motion Detection

Sensor IN/Alarm OUT ports

IEEE802.1X Compliant

Analogue Video Output

24 V AC, DC 12 V or PoE Operation



SNC-DS60/DS10/CS20 Specifications

General	SNC-DS60	SNC-DS10	SNC-CS20
Mass Approx.	1.4 kg (3 lb 1 oz)	780 g (1 lb 11 oz)	700 g (1 lb 9 oz)
Dimensions (Ø x H) Approx.	166 x 119 mm (6 5/8 x 4 3/4 inches)	140 x 118 mm (5 5/8 x 4 3/4 inches)	82.5 x 63 x 187.5 (W x H x D mm) (3 1/4 x 2 1/2 x 7 inches) including Lens
Power requirements	PoE (IEEE-802.3af)/ AC 24 V/DC 12 V		
Power consumption	15 W max.	7.5 W max.	8 W max.
Operating temperature	-30 to 50°C (-22 to 122°F)	0 to 50°C (32 to 122°F)	-10°C to +50°C (14 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)		
Camera			
Image device	1/4-type Progressive Scan CCD with ExwavePRO Technology		
Number of total pixels Approx.	350,000		
Number of effective pixels Approx.	330,000 (659 x 494)		
Electronic shutter	1 to 1/10,000s		
Gain control On/Off	(0 dB to +36 dB)		
Exposure control	Auto, Back-Light-Compensation (BLC), Gamma settings		
White balance mode	ATW, ATW Pro		
Lens type	Vari-focal lens		
Zoom ratio	3.6x optical zoom (2x digital zoom)		2.7x optical zoom (2x digital zoom)
Horizontal viewing angle	73 to 20°		66.6 to 27.0°
Focal length	f=2.8 to 10.0mm		f=3.0 to 8.0 mm
F number	F1.3 (wide), F3.0 (tele)		F1.0 (wide), F1.45 (tele)
Minimum object distance	300mm		200 mm
Image			
Image size (H x V)	JPEG MPEG-4	768 x 576, 640 x 480, 384 x 288, 320 x 240 640 x 480, 384 x 288, 320 x 240	
Maximum frame rate	30 fps (640 x 480, 768 x 576)		JPEG 30 fps (768 x 576) MPEG 30 fps (640 x 480)
Audio			
Audio compression	G.711/G.726 (40, 32, 24, 16 Kb/s)		
Network			
Protocols	TCP/IP, HTTP, ARP, ICMP, FTP, SMTP, DHCP, SNMP, DNS, NTP, RTP/RTCP, UDP		
Number of clients	10		
Authentication	IEEE802.1X		
Interfaces			
Ethernet	10Base-T/100Base-TX (RJ-45)		
Analogue video output	BNC x1, 1.0 Vp-p, 75 Ω, RCA x 1		BNC x1, 1.0 Vp-p, 75 Ω
I/O port	Sensor in x 1, Alarm out x 2		
External microphone	Mini-jack x1 (Mic in: monaural, 2.2 KΩ DC 2.5 V plug-in power,		
Input/Line input	Line in (monaural)		
Audio line output	Mini-jack (monaural), max output level: 1 Vrms		-
Analogue video output			
Signal system	-		NTSC/PAL
Horizontal resolution	400 TV lines		
S/N ratio	more than 50 dB		
Minimum illumination	Colour: 0.3 lx (50IRE, F1.3, AGC 36dB) B/W: 0.05 lx (50IRE, F1.3, AGC 36dB)	Colour: 0.3 lx (50IRE, F1.3, AGC 36dB)	Colour: 0.2 lx (50IRE, F1.0, AGC ON 36dB) B/W: 0.02 lx (50IRE, F1.0, AGC ON 36dB)
System requirements			
Operating system	Microsoft® Windows® XP/VISTA		
Processor CPU	Intel® Pentium® IV 2.4 GHz or higher, Intel Core2 Duo, 1.8 GHz or higher		
Memory RAM	1 GB or more	-	-
Web browser	Microsoft Internet Explorer® v.6.0 or Higher		
Supplied accessories			
	CD-ROM (User's guide, IP setup programme, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer), Installation manual, Bracket, Template, Torx wrench, M4 screws (4), Wire rope, M4 shoulder screw, Audio cable, I/O cable, LAN cable, BNC cable, Power input cable	CD-ROM (User's guide, IP setup programme, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer), Installation manual, Bracket, Template, M4 screws (4), Wire rope, M4 shoulder screw, Audio cable, I/O cable, LAN cable, BNC cable, Power input cable	CD-ROM (User's guide, IP setup programme, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer), Installation manual, Wire rope

Distributed by

SONY

© 2008 Sony Corporation. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Features and specifications are subject to change without notice. All non-metric weights and measurements are approximate. Projected images in this brochure are simulated. Sony is a registered trademark of Sony Corporation. All other trademarks are the property of their respective owners.