SONY®

New Rapid Dome Cameras for Outdoor Surveillance from Sony

Sony is pleased to introduce its new rapid dome cameras for outdoor surveillance, the SNC-RS84 and SNC-RS86, which support H.264, MPEG-4, and JPEG compression formats. With a powerful streaming capability of 30 frames per second (fps) in D1 resolution, combined with newly developed image-enhancement technologies, these cameras dramatically enhance usability in a wide variety of lighting environments and across a broad range of applications.

What's more, specifically designed for outdoor monitoring, the SNC-RS84 and SNC-RS86 comply with the IP66 and IK10 standard, and include unique features ideal for outdoor use such as an impact-resistant polycarbonate lower dome cover and an integrated sunshade and ventilation mechanism. With a host of new features and excellent performance, the SNC-RS84 and SNC-RS86 are the perfect choice for your outdoor surveillance needs.

SNC-RS84N/SNC-RS84P
SNC-RS86N/SNC-RS86P

Network Rapid Dome Cameras
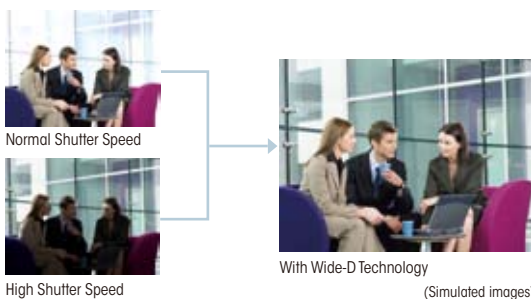## SNC-RS84N/RS84P
SNC-RS86N/RS86P

FEATURES

■ **Visibility Enhancer for sharper, clearer images and a higher level of visibility**

OFF

ON

(Actual images)

■ **XDNR (eXcellent Dynamic Noise Reduction) for clear images without blur under low illumination**

OFF

ON

(Actual images)

■ **Wide-D technology to handle various lighting conditions in a scene**

Normal Shutter Speed

High Shutter Speed

With Wide-D Technology

(Simulated images)

■ **Powerful and versatile zoom capability**
  - 36x optical and total zoom ratio of 432x with 12x digital zoom (SNC-RS86)
  - 18x optical and total zoom ratio of 216x with 12x digital zoom (SNC-RS84)

■ **Three codecs (H.264, MPEG-4, JPEG) and triple streaming capability**

■ **DEPA Advanced – Intelligent Video and Audio Analytics – trigger an alarm based on user-defined rules**
  - Intelligent Motion Detection with virtual border line function
  - Tamper Alarm
  - Advanced Audio Detection[1]

DEPA Advanced

■ **Superior audio functions**
  - Voice alert
  - Ambient sound filter
  - Dynamic range compressor[1]
  - Echo cancellation

■ **Above-the-horizon tilt - 15°tilt-up, total tilt range of 210°**

■ **High-speed 360° endless panning**

■ **Quick-release mechanism**

■ **Local storage/wireless capability**

■ **Supporting for IPv6**

■ **ONVIF conformance**

ONVIF

■ **Designed for outdoor monitoring**
  - IP66 rating
  - Impact-resistant - IK10 rating
  - Integrated sunshade and ventilation mechanism

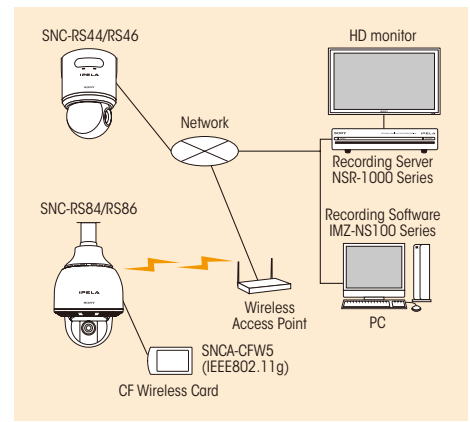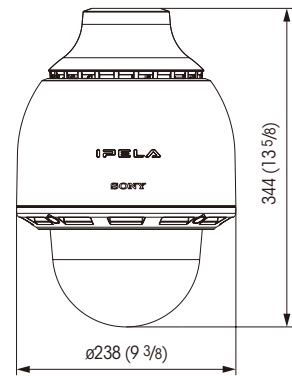*1 Available with version 1.1 or later.

SPECIFICATIONS

	SNC-RS84N	SNC-RS84P	SNC-RS86N	SNC-RS86P
Camera				
Image device	1/4-type CCD with "Exwave" HAD technology			
Minimum illumination	Day : 0.4 lx (XDNR ON VE ON Slow Shutter OFF 50 IRE IP) 0.8 lx (Slow Shutter OFF 50 IRE Analog Video Output) Night : 0.09 lx (XDNR ON VE ON Slow Shutter OFF 50 IRE IP) 0.17 lx (Slow Shutter OFF 50 IRE Analog Video Output)		Day : 0.8 lx (XDNR ON VE ON Slow Shutter OFF 50 IRE IP) 1.6 lx (Slow Shutter OFF 50 IRE Analog Video Output) Night : 0.09 lx (XDNR ON VE ON Slow Shutter OFF 50 IRE IP) 0.17 lx (Slow Shutter OFF 50 IRE Analog Video Output)	
Number of effective pixels (H x V)	380,000 (768 x 494)	440,000 (752 x 582)	380,000 (768 x 494)	440,000 (752 x 582)
Electronic shutter speed	1 to 1/10,000 s			
Auto gain control	Auto/Manual (-3 to +28 dB)			
Exposure control	Auto, Full auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation			
White balance mode	Auto, Indoor, Outdoor, One-push WB, ATW, Manual			
Lens type	Auto-focus zoom lens			
Zoom ratio	18x		36x	
Horizontal viewing angle	2.8 to 48.0 degrees		1.7 to 57.8 degrees	
Focal length	f=4.1 to 73.8 mm		f=3.4 to 122.4 mm	
F-number	F1.4 (wide), F3.0 (tele)		F1.6 (wide), F4.5 (tele)	
Minimum object distance	290 mm (11 1/2 inches) to 800 mm (31 1/2 inches) (tele)		320 mm (12 5/8 inches) to 1500 mm (59 1/8 inches) (tele)	
Pan angle	360 degrees endless rotation			
Pan speed	400 degrees/s (max.)			
Tilt angle	210 degrees (with e-flip)			
Tilt speed	400 degrees/s (max.)			
Preset position	256 position			
Tour	5 preset tours*, 4 shadow tours *16 presets per one preset tour			
Camera Features				
Day/Night *1	Yes			
Wide-D	Yes			
Image enhancement	Visibility Enhancer			
Noise reduction	XDNR			
Image				
Codec image size (H x V)	720 x 480, 640 × 480 (VGA), 384 × 288, 320 × 240 (QVGA)	720 x 576, 640 × 480 (VGA), 384 × 288, 320 × 240 (QVGA)	720 x 480, 640 × 480 (VGA), 384 × 288, 320 × 240 (QVGA)	720 x 576, 640 × 480 (VGA), 384 × 288, 320 × 240 (QVGA)
Video compression format	H.264, MPEG-4, JPEG			
Maximum frame rate	H.264/MPEG-4/JPEG: 30 fps (720 x 480)	H.264/MPEG-4/JPEG: 25 fps (720 x 576)	H.264/MPEG-4/JPEG: 30 fps (720 x 480)	H.264/MPEG-4/JPEG: 25 fps (720 x 576)
Audio				
Audio compression	G.711/G.726			
Scene Analytics				
Intelligent motion detection	Yes (with built-in Post Filter)			
Intelligent object detection	No			
Advanced audio detection	Yes*2			
Network				
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS,NTP, RTP/RTCP, RTSP, SNMP (MIB-2)			
ONVIF conformance	Yes			
Wireless network	Yes (with optional)*3			
Number of clients	10			
Authentication	IEEE802.1X			
Analog Video Output				
Signal system	NTSC	PAL	NTSC	PAL
Horizontal resolution	530 TVL			
S/N ratio	More than 50 dB			
Interface				
Ethernet	10BASE-T/100BASE-TX (RJ-45)			
Serial interface	RS-232C, RS-422/RS-485 (PELCO D protocol)			
Card slots	CF card x1			
Analog video output	Composite video (1Vp-p)			
Sensor input	x 4			
Alarm output	x 2			
External microphone input	Mini-jack (Monaural), MIC IN/LINE IN: 2.2k ohm, 2.45VDC plug-in power			
Audio line output	Mini-jack (Monaural), Max output level: 1 Vrms			
General				
Mass	4.3 kg (9 lb 8 oz)			
Dimensions (ø x H)	238 x 344 mm (9 3/8 x 13 5/8 inches)			
Power requirements	AC 24 V			
Power consumption	78 W max.			
Operating temperature	-40 to 50 °C (-40 to 122 °F)			
Storage temperature	-20 to +60 °C (-4 to 140 °F)			
Rating	Ingress Protection: IP66 Impact Resistance: IK10			
System Requirements				
Operating system	Windows XP, Windows Vista			
Processor	CPU: Pentium4 3 GHz, Intel Core2 Duo 2 GHz or higher			
Memory	1 GB or more			
Web browser	Microsoft Internet Explorer Ver6.0 or, Ver7.0			
Supplied Accessories				
	Top sunshade, Rotate-and-lock coupling, Waterproof covers, Bolts, Installation manual, CD-ROM (User's guide, SNC toolbox), Wire fixing belt, Cables			

*1 Removable IR Cut Filter   *2 Available with software version 1.1 or later   *3 With optional SNCA-CFW5
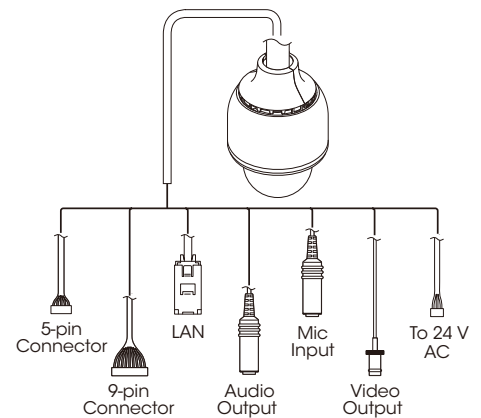
SYSTEM CONFIGURATIONS

DIMENSIONS

Unit: mm (inches)

CONNECTORS

* SNC-RS84 and SNC-RS86 include software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org/)