



SNC-RS44N/SNC-RS44P  
SNC-RS46N/SNC-RS46P  
Indoor Model

SNC-RS84N/SNC-RS84P  
SNC-RS86N/SNC-RS86P  
Outdoor Model

Network Rapid Dome Cameras

## SNC-RS Series

### New Rapid Dome Cameras from Sony – High Visibility, Feature Rich, and a Choice of Models

Sony is pleased to introduce its new rapid dome cameras, the SNC-RS Series, which support H.264, MPEG-4, and JPEG compression formats. With a powerful streaming capability of 30 fps in D1 resolution, combined with newly developed image-enhancement technologies, the SNC-RS Series dramatically enhances usability in a wide variety of lighting environments and applications. Plus, a total 210° tilt range and 360° endless high-speed pan capability allows users to view images above the horizon. This feature provides great installation flexibility for a number of different applications and locations. With a host of new features and excellent performance, the SNC-RS Series is the perfect choice, whatever your specific needs.

Connect Your Vision

**IPELA™**

## FEATURES

### Clear and Bright HD Images

#### Visibility Enhancer

The SNC-RS Series includes Visibility Enhancer technology. This tone-correction technology optimizes the visibility of a scene by increasing brightness in darker areas of the scene and compressing the brighter areas. The result is sharper, clearer images and a higher level of visibility – all of which are critical for security surveillance.



#### XDNR (eXcellent Dynamic Noise Reduction)

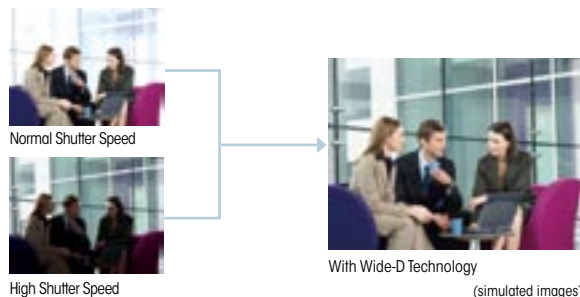
Incorporating newly developed XDNR technology, these cameras can provide clear images while at the same time minimizing motion blur under low illumination. What's more, when both XDNR and Visibility Enhancer are turned on, the cameras can achieve four times the sensitivity compared to when they are off.

This technology is ideal for any outdoor surveillance monitoring, such as in a car park at night.



#### Wide-D Technology

The SNC-RS Series incorporates Wide-D technology, which offers a wide dynamic range to handle various lighting conditions in a scene. Even in a scene with extremely bright and dark areas, or in backlight conditions, the SNC-RS Series provides clear visibility of all objects.



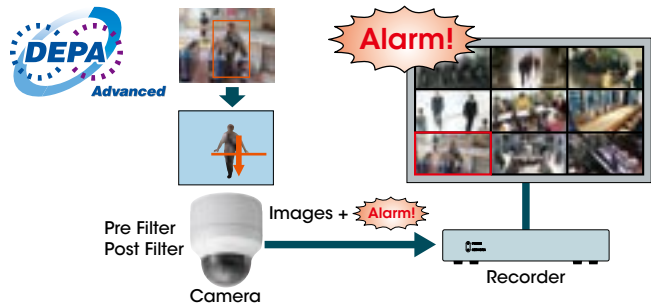
#### Powerful and Versatile Zoom Capability

The SNC-RS46/RS86 incorporates a powerful 36x optical zoom lens, while the SNC-RS44/RS84 incorporates a 18x optical zoom lens. Both also feature a 12x digital zoom capability, providing a total zoom ratio of 432x for the SNC-RS46/RS86 and 216x for the SNC-RS44/RS84.

### Intelligence

#### DEPA Advanced – Intelligent Video and Audio Analytics

Incorporating DEPA Advanced technology, the SNC-RS Series offers intelligent video and audio analytics. With this feature, the camera can trigger an alarm based on rules. This allows users to further refine the criteria for triggering an alarm, making the overall system more efficient.



#### • Intelligent Motion Detection

With this feature, the cameras can detect irregular motion and trigger an alarm based on up to three user-defined rules, such as intrusion across a virtual border line or a beam intrusion detector\*<sup>1</sup>.

#### • Tamper Alarm

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

#### • Advanced Audio Detection\*<sup>2</sup>

Unlike conventional audio detection where an alarm is triggered based on a preset audio level, the SNC-RS Series 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.

### Audio Functions

#### Voice Alert

The camera can store up to three pre-recorded audio files. Upon initiation, either manually or via an alarm, the camera can play out one of the three pre-recorded audio files via a locally connected active speaker.

#### Ambient Sound Filter

The SNC-RS Series is capable of learning ambient sound and suppressing extraneous noise.

#### Dynamic Range Compressor\*<sup>2</sup>

To prevent audio clipping from occurring due to high audio levels, these cameras employ the dynamic range compressor, which dynamically controls the gain to maintain incoming audio at a proper level.

#### Echo Cancellation

The SNC-RS Series has an echo-cancellation capability. This feature cancels the echo that would otherwise occur between the operator site and the camera site, when loud speakers and microphones are used in the system.

### System Flexibility

#### Three Codecs – H.264, MPEG-4, and JPEG Support

The SNC-RS Series supports three compression formats: H.264, MPEG-4, and JPEG. The industry-standard JPEG compression format is the best choice for high-quality still images. MPEG-4 provides clear moving images efficiently over networks when bandwidth is limited. H.264 provides twice the efficiency of MPEG-4, for when bandwidth is even more limited.

#### Dual-encoding Capability

With its dual-encoding capability, the SNC-RS Series can stream any two formats from H.264, MPEG-4, and JPEG simultaneously. This flexibility allows you to maximize your network and storage resources.

## ONVIF Conformance (Open Network Video Interface Forum)

In line with Sony's commitment to open standards, the SNC-RS Series is conformance to ONVIF specifications. ONVIF defines a common protocol for the exchange of information between different network video devices regardless of manufacturer, and realizes greater interoperability in multi-vendor network video systems.

### Support for IPv6

The SNC-RS Series supports Internet Protocol Version 6 (IPv6).

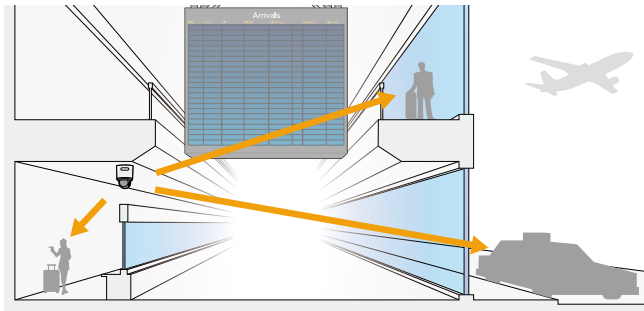
### Advanced Rapid Dome Mechanis

#### Above-the-Horizon Tilt – 15° Tilt-up

The SNC-RS Series has a total tilt range of 210°. Thanks to this additional 15° tilt range compared to the normal horizon-only view, the SNC-RS Series is able to monitor elevated areas – which greatly expands its viewing range.

#### High-speed 360° Endless Panning

The SNC-RS Series has a high-speed 360° endless panning (or rotation) capability, as fast as 400° per second. This allows users to quickly and precisely capture almost any object within the field of view surrounding the camera.



### Flexible and Easy Installation

#### Quick-release Mechanism

The camera can be installed or detached quickly and easily thanks to its newly developed base, which greatly reduces installation and servicing time.



Indoor model  
Press Release Button and pull



Outdoor model  
Remove Top Sunshade, Rotate Main Unit and pull  
(Need to remove locking screws)

#### hPoE Support\*<sup>3</sup> (Compliant With IEEE802.3)

Supporting high Power over Ethernet (hPoE), the SNC-RS44/RS46 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.

### Local Storage / Wireless Capability

The SNC-RS Series has a Compact Flash (CF) slot. This can be used either with a CF memory card for local video storage, or for wireless capability. The SNCA-CFW5 (802.11b/g) CF type wireless LAN card is supported.

### Designed for Heavy-duty Outdoor Monitoring (SNC-RS84/RS86)

#### IP66 Rating

The SNC-RS84/RS86 complies with the IP66 standard for protection against water and dust.

#### Hard Coated Dome Cover

The camera is protected by an impact-resistant and scratch-proof polycarbonate dome cover.

#### Integrated Sunshade Ventilation Mechanism

For hot-weather outdoor applications, the camera has a special ventilation mechanism.

\*1 Beam intrusion detector is available with version 1.1 or later

\*2 Available with version 1.1 or later

\*3 Available with version 1.2 or later

## OPTIONAL ACCESSORIES

Indoor



**YT-LD124C**  
Dome Cover Clear

Indoor



**YT-LD124S**  
Dome Cover Smoked

Indoor



**YT-ICB124**  
In-ceiling Bracket

Outdoor



**SNCA-CW5**  
Outdoor Antenna Cable Kit

Indoor Outdoor



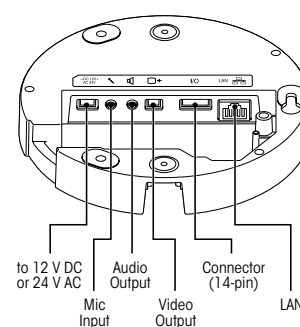
**SNCA-CFW5**  
Wireless LAN Card

Indoor Outdoor

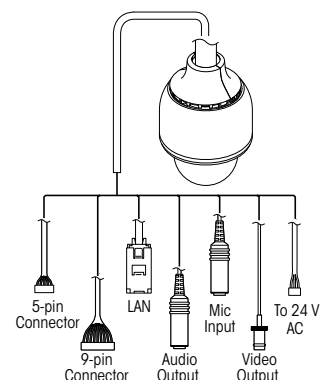


**SNCA-AN1**  
Wireless LAN Antenna

## CONNECTORS



SNC-RS44/RS46



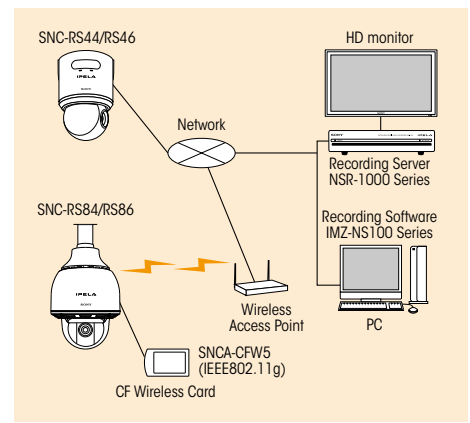
SNC-RS84/RS86

# SPECIFICATIONS

	SNC-RS46N/RS86N (x36)	SNC-RS46P/RS86P (x36)	SNC-RS44N/RS84N (x18)	SNC-RS44P/RS84P (x18)
<b>Camera</b>				
Image device	1/4-type CCD with Exwave HAD technology			
Minimum illumination	Indoor Model	Day	:0.7 lx (XDNR ON VE ON Slow Shutter OFF 50 IRE IP) 1.4 lx (Slow Shutter OFF 50 IRE Analog Video Output)	:0.4 lx (XDNR ON VE ON Slow Shutter OFF 50 IRE IP) 0.7 lx (Slow Shutter OFF 50 IRE Analog Video Output)
		Night	:0.08 lx(XDNR ON VE ON Slow Shutter OFF 50 IRE IP) 0.15 lx (Slow Shutter OFF 50 IRE Analog Video Output)	:0.08 lx(XDNR ON VE ON Slow Shutter OFF 50 IRE IP) 0.15 lx (Slow Shutter OFF 50 IRE Analog Video Output)
	Outdoor Model	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)	: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)	: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	36x		18x	
Horizontal viewing angle	1.7 to 57.8 degrees		2.8 to 48.0 degrees	
Focal length	f=3.4 to 122.4 mm		f=4.1 to 73.8 mm	
F-number	F1.6 (wide), F4.5 (tele)		F1.4 (wide), F3.0 (tele)	
Minimum object distance	320 mm (12 5/8 inches) (wide) to 1500 mm (59 1/8 inches) (tele)		290 mm (11 1/2 inches) (wide) to 800 mm (31 1/2 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.)			
<b>Camera Features</b>				
Day/Night **	Yes			
Wide-D **2	Yes			
Visibility Enhancer	Yes			
XDNR	Yes			
<b>Image</b>				
Codec image size (H x V)	720x480 (NTSC), 720x576 (PAL), 640x480 (VGA), 384x288, 320x240 (QVGA)			
Video compression format	H.264, MPEG-4, JPEG			
Maximum frame rate	H264/MPEG-4/JPEG: 30 fps (720 x 480)		H264/MPEG-4/JPEG: 25 fps (720 x 576)	
	H264/MPEG-4/JPEG: 30 fps (720 x 480)		H264/MPEG-4/JPEG: 25 fps (720 x 576)	
<b>Audio</b>				
Audio compression	G.711/G.726			
<b>Scene analytics</b>				
Intelligent motion detection	Yes (with built-in Post Filter)			
Intelligent object detection	No			
Advanced audio detection	Yes**			
<b>Network</b>				
Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2)			
Wireless network	Yes (with optional **)			
Number of clients	10			
Authentication	IEEE802.1X			
<b>Analog video output</b>				
Signal system	NTSC	PAL	NTSC	PAL
Horizontal resolution	530 TVL			
S/N ratio	more than 50 dB			
<b>Interface</b>				
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			
<b>General</b>				
Mass	Indoor Model	Approx. 2.0 kg (4 lb 6 oz)		
	Outdoor Model	Approx. 4.3 kg (9 lb 8 oz)		
Dimensions (ø x H)	Indoor Model	154 x 226 mm (6 1/8 x 9 inches)		
	Outdoor Model	238 x 344 mm (9 3/8 x 13 5/8 inches)		
Power requirements	Indoor Model	hPoE**5, AC24V, DC12V		
	Outdoor Model	AC24V		
Power consumption	Indoor Model	23 W max.		
	Outdoor Model	78 W max.		
Operating temperature	Indoor Model	0 to 50 °C		
Storage temperature	Outdoor Model	-40 to +50 °C		
<b>System requirements</b>				
Operating system	Windows XP, Windows Vista			
Processor	CPU: Pentium4 3GHz, Intel Core2 Duo 2GHz or higher			
Memory	1GB or more			
Web browser	Microsoft Internet Explorer Ver6.0 or, Ver7.0			
<b>Supplied accessories</b>				
Indoor Model	Base unit, Mounting bracket, Screws, Cables (Power input, BNC, I/O, Serial), Installation manual, CD-ROM (User's guide, SNC toolbox), Mounting template, Wire rope			
	Outdoor Model			
Outdoor Model	Top sunshade, Rotate-and-lock coupling, Waterproof covers, Bolts, Installation manual, CD-ROM (User's guide, SNC toolbox), Wire fixing belt, Cables			

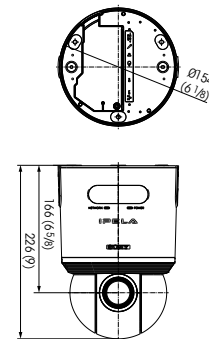
\*1 Removable IR Cut Filter \*2 DynaView Technology \*3 Available with software version 1.1 or later \*4 With optional SNCA-CFW5  
\*5 Available with software version 1.2 or later

# SYSTEM CONFIGURATIONS

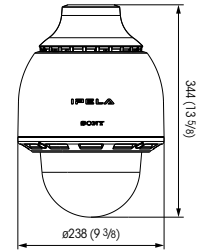


# DIMENSIONS

## SNC-RS44/RS46



## SNC-RS84/RS86



Unit: mm (inches)

# CONFIGURATION

## SNC-RS84/RS86



Install in indicated numerical order

\*This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<http://www.openssl.org>)

## Distributed by

MK10605V1IW09AUG

© 2009 Sony Corporation. All rights reserved.  
 Reproduction in whole or in part without written permissions is prohibited.  
 Features and specifications are as of version 1.2 or later and subject to change without notice.  
 All non-metric weights and measurements are approximate.  
 Sony is a registered trademark of Sony Corporation.  
 IPELA and DEPA are trademarks of Sony Corporation.  
 All other trademarks are the property of their respective owners.