

SNC-WR600

Rapid Dome 720p/60 fps Camera
Powered by IPELA ENGINE EX™ -
W Series



Overview

Optimised for critical surveillance applications, with 60p high frame rate, advanced analytics, industry-leading pan speed and powerful optical zoom

The SNC-WR600 is a high-performance rapid dome network camera that's ideal for wide-area surveillance in mission-critical indoor environments – from shopping malls, banks and casinos to logistics.

The camera's sensitive, high-resolution Exmor™ CMOS sensor is teamed with Sony's latest-generation IPELA ENGINE PRO™ processing platform, delivering HD picture quality with powerful analytics for smarter surveillance.

An extra-wide 130dB dynamic range assures clear video images, even in harsh lighting environments where other cameras struggle with extremes of light and shade in the same scene. Frame rates as high as 60fps – double that of normal IP cameras – let operators recognise and assess split-second incidents in recorded footage with unprecedented precision.

The SNC-WR600 allows continuous 360° PTZ operation, with the industry's fastest pan speed of 700°/s letting an operator quickly recall preset areas of interest in a single, seamless motion. A

powerful 30x optical zoom offers wide area coverage, plus the ability to grab detailed close-ups without losing clarity.

Designed for dependable round-the-clock performance, the camera can operate in temperatures from -5C to +50C. Clear images are enhanced by a defog Image Processing feature that reduces smog or haze, while gyroscopic image stabilizer combats camera-shake caused by vibration in unfavourable environmental conditions.

***Product shown with housing accessory. Housing accessory not included.**

Features

See more detail with HD quality

The Exmor CMOS sensor captures crisply detailed HD video images (1280 x 720 60p), even in low light.

Introducing IPELA ENGINE PRO

W Series security cameras introduce Sony's IPELA ENGINE PRO platform that builds on powerful IPELA ENGINE EX signal processing. This provides a 130dB dynamic range at Full HD resolution while maintaining full frame rate (up to 30 fps), or 90dB at up to 60fps and delivering a unique range of camera features. XDNR (Excellent Dynamic Noise Reduction) assures clear low-light images without motion blur, while Visibility Enhancer (VE) dynamically optimises brightness and colour reproduction on a pixel-by-pixel basis. Video analytics technologies are provided with DEPA Advanced analytics, tampering detection and face detection – each of which can trigger alarms based on user-determined rules.

Capture smooth, fluid movement

Video images can be captured at a high frame rate of 60fps, allowing precise analysis when stepping through recorded footage frame by frame. It's ideal for applications like casinos or

banking where it's essential to see what's happening with split-second accuracy.

Industry-leading pan performance and powerful 30x optical zoom

An industry-leading pan speed of 700°/s enables the camera to pan quickly to areas of interest in a single, seamless motion. Powerful 30x optical zoom range allows smooth, rapid transition from wide-area coverage to high-magnification close-ups of distant subjects without sacrificing clarity.

Defog Image Processing

Defog Image Processing feature uses powerful image processing to enhance pictures in fog, smog and haze conditions for clearer video images.

Better pictures, day or night

True D/N (Day/Night) function automatically switches the camera to Day or Night mode, depending on ambient light levels.

Steadier, more stable images

On-board gyroscopic image stabilizer keeps video images steady and blur-free, even if the camera is subjected to being shaken in unfavourable environmental conditions.

Quick setting optimisation for ideal picture quality in a range of situations

A choice of selectable picture modes optimises camera settings for best picture quality in a wide range of applications and lighting environments.

Focal Plane Distortion Correction

Compensates for image distortion generated in a scene by the CMOS sensor focal plane phenomenon.

Recording quality to suit your network

Select VBR (variable bitrate) or CBR (constant bitrate)

compression modes for optimised recording quality depending on IP network conditions.

Automatic recording to memory card

Edge Storage allows automatic recording of video and audio directly to an optional SD/SDHC card for later analysis. Recording can be triggered in response to an alarm event, if there's an attempt to tamper with the camera or in the event of network connection being temporarily lost.

View with your smartphone

Securely access the camera using a smartphone or tablet (Android or iOS) to view images remotely and control the camera's pan, tilt, and zoom functions.

Quick, easy installation

Easy installation and maintenance is assisted by a quick-release mechanism that allows the camera to be removed instantly from its mounting bracket at the press of a button. Set-up is further simplified with the supplied SNC Easy IP Setup application for configuration of network settings.

ONVIF (Open Network Video Interface Forum) compliance

Support for ONVIF simplifies integration with a wide range of VMS platforms and hardware, providing video streaming and camera control. 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.

Specifications

Camera

1/3-type progressive scan Exmor

Image Sensor	CMOS sensor
Number of Effective Pixels	Approx. 1.37 Megapixels
Signal System	NTSC/PAL (switchable)
Sync System	Internal synchronization
Minimum Illumination (50 IRE)	Color: 0.2 lx (F1.6, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps) B/W: 0.015 lx (F1.6, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)
Minimum Illumination (30 IRE)	Color: 0.12 lx (F1.6, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps) B/W: 0.009 lx (F1.6, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)
Dynamic Range	Equivalent to 130 dB with View-DR technology
S/N Ratio (Gain 0 dB)	More than 50 dB
Gain	Auto/Manual
Shutter Speed	1/1 s to 1/10,000 s
Exposure Control	Full auto, Shutter priority, Iris priority, Manual
	ATW, ATW-PRO, Indoor, Outdoor,

White Balance	Fluorescent lamp, Mercury lamp, Sodium vapour lamp, Metal halide lamp, White LED, One push WB, Manual
Lens	Auto-focus zoom lens
Powered Zoom	Yes
Zoom Ratio	Optical zoom 30x Digital zoom 12x Total zoom 360x
Powered Focus	Yes
Auto Focus	Yes
Horizontal Viewing Angle	58.3° to 2.1°
Vertical Viewing Angle	34.8° to 1.2°
Focal Length	f = 4.3 mm to 129.0 mm
F-Number	F1.6 (Wide) to F4.7 (Tele)
Minimum Object Distance	300 mm
Pan/Tilt Angle (powered)	360° endless rotation/220°
Pan Speed	700°/s (max.) *1

Tilt Speed	700 °/s (max.) *1
Number of Preset Positions	256
Number of Tour Programs	5
<h2>Camera Features</h2>	
Day/Night	True D/N
Auto-rotation Mode	Yes
Wide-D	View-DR
Tone Correction	Visibility Enhancer
Defog Image Processing	Yes
Highlight Compensation	Yes
Noise Reduction	XDNR
Image Stabilizer	Electronic
Picture Mode	Yes
Privacy Masking (number)	24

Privacy Masking (shape)	Quadrangle
Privacy Masking (color/effect)	Opaque 14 colors (Black, White, Red, Green, Blue, Cyan, Yellow, Magenta, Gray (6 scales)), Mosaic
Edge Storage	Yes
Compatibility with Cloud Service	Yes
Voice Alert	Yes
Superimpose Number	3 independent positions for characters (Codec, Date & Time, Event, Text (Max. 64 characters)), 1 independent position for a logo mark
Superimpose Language	English
Menu Language	English, Japanese, Chinese (simplified), Chinese (traditional), French, Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai, Turkish, Polish
Smartphone viewer	Yes

Video

Resolution	1280 x 720, 1024 x 576, 720 x 576, 720 x 480, 704 x 576, 640 x 480, 640 x 360, 352 x 288, 320 x 184 (H.264, JPEG)
Compression Format	H.264 (High/Main/Baseline Profile), JPEG
Maximum Frame Rate	H.264: 60 fps (1280 x 720) JPEG: 60 fps (1280 x 720)
Bitrate Control Mode	CBR/VBR (selectable)
Range of Bit Rate Setting	64 Kbps to 32 Mbps
Adaptive Rate Control	H.264
Bandwidth Control	JPEG
Multi streaming Capability	Yes (3)
Number of Clients	20

Intelligent Video/Audio Analytics

Analytics Architecture	DEPA Advanced
Intelligent Motion	Yes

Detection

Face Detection	Yes
Tamper Alarm	Yes
Scene Analytics	Passing, Intrusion, Left Object Detection, Removed Object Detection

Audio

Compression Format	G.711/G.726/AAC (16 kHz, 48 kHz)
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System Requirements

Operating System	Windows XP (32 bit) Professional Edition Windows Vista (32 bit) Ultimate, Business Edition Windows 7 (32/64 bit) Ultimate, Professional Edition Windows 8 Pro (32/64 bit) Windows 8.1 Pro (32/64 bit)
Processor	Intel Core i7 2.8 GHz or higher
Memory	2 GB or more
	Microsoft Internet Explorer Ver. 7.0, Ver. 8.0, Ver. 9.0, Ver. 10.0, Ver. 11.0

Web Browser	Firefox Ver. 19.02 (plug-in free viewer only) Safari Ver. 5.1 (plug-in free viewer only) Google Chrome Ver. 25.0 (plug-in free viewer only)
SNC toolbox	Yes
SNC toolbox mobile	Yes

Network

Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP*, HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP over TCP, RTSP over HTTP, SMTP, IPv6, HTTPS, FTP (client), SNMP (v1, v2c, v3), SSL *SSM (Source Specific Multicast) is supported.
Number of IP Address/Mac ADDRESS	1
QoS	DSCP
Multicast Streaming Support	Yes
ONVIF Conformance	Profile S, Profile T

Authentication IEEE802.1X

Interface

Analog Video Output BNC x1, 1.0 Vp-p, 75 Ω , unbalance, sync negative
480 TV lines

Microphone Input Mini jack (monaural), MIC IN/LINE IN: 2.5 V DC 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) x4, make contact, break contact

Alarm Output x2, AC 24V/DC 24V, 1 A (mechanical relay outputs electrically isolated from the camera)

Serial Interface RS-422/RS-485 (PELCO D protocol)

Card Slots SD x 1

Confirmed SD Card Type Max. 64 GB

General

Power Requirements	IEEE802.3at compliant (HPoE system), AC 24 V, DC 12 V
Power Consumption	25.0 W max.
Operating Temperature	-5 °C to +50 °C 23 °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 *2	φ146.3 x 204.5 mm φ5 7/8 inches x 8 1/8 inches
Mass	Approx. 1.7 kg 3 lb 12 oz
External Material	Base cabinet: PC+ABS Camera cabinet: PC+ABS Side cabinet: PC+ABS
External Color	Base cabinet: 4.4BG 8.4/0.2 Camera cabinet: 3.9PB 0.3/1.0 Side cabinet: 3.9PB 0.3/1.0

Safety Regulations	JATE Technical Standard (LAN) UL2044, IEC60950-1 (CB) VCCI (Class A), FCC (Class A), IC (Class A) Emission: EN55022 (Class A) + EN50130-4 Immunity: EN55022 (Class A) + EN55024 Emission: AS/NZS CISPR22 (Class A) KCC EMC-TR
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Supplied Accessories	CD-ROM (supplied programs) (1) Installation Manual (1) Ceiling unit (1) Ceiling bracket (1) Fixing screws (M4 × 10) (3) 3-pin power connector (1) BNC cable (1) I/O cable (1) Template (1) Cable clamp (1) Cable clamp fixing screws (M2.6 × 8, tapping screw) (2)
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Optional Accessories	YT-LD124C (Dome Cover Clear) YT-LD124S (Dome Cover Smoked)
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YT-ICB630 (In-ceiling Bracket)

Notes

*1 Available when preset mode is On.

*2 The values for dimensions are approximate.

Gallery

