

# SONY

## SNC-WR602C

Network Rapid Dome HD Camera - W Series

### Outdoor Unitized 720p/60 fps Rapid Dome Camera Powered by IPELA ENGINE PRO™

- Maximum resolution of 1280 x 720 pixels with the Exmor™ CMOS sensor
- Powerful 30x optical zoom capability
- Dynamic range equivalent to 130 dB in HD mode achieved with View-DR technology
- Industry-leading levels of panning performance with a pan speed of 700°/s
- Gyroscopic Image Stabilizer
- Focal Plane Distortion Correction technology
- Defog Image Processing feature
- High frame rate of 60 frames per second (fps)
- IK10-rated vandal-resistant and IP66-rated water-resistant/dust-tight features



IPELA

### KEY FEATURES

- IPELA ENGINE PRO signal processing system developed based on Sony's unique signal processing and intelligent video analytics technologies to provide unique features such as a high frame rate, View-DR, XDNR, DEPA Advanced Intelligent Video Analytics, Gyroscopic Image Stabilizer, Focal Plane Distortion Correction, and Defog Image Processing.
- Industry's leading 30x optical zoom capability to shoot various scenes over an extremely wide area, allowing capture of high-resolution images even from a great distance
- View-DR – Sony's innovative wide dynamic range technology – to capture objects clearly and adaptively even under very harsh, severe backlight or highlight conditions

- Defog Image Processing feature to increase image visibility in poor weather conditions such as rain, fog, or smog



OFF



ON

Actual Images\*

- \* The image on the right is produced with the camera's Defog Image Processing feature, after the camera shot this application photo as its subject.

- High frame rate of 60 fps to provide smoother and less blurry moving pictures
- IP66-rated water-resistant and dust-tight feature for outdoor surveillance, and for indoor use where water ingress may pose an issue
- Picture mode selectable from a range of camera scenes in the settings menu to optimize picture quality in various applications
- True D/N (Day/Night) function to switch to Day or Night mode depending on the light level
- VBR (variable bitrate) capable of maximum bitrate setting or CBR (constant bitrate) compression mode selectable to correspond with various network conditions
- Edge Storage function to record video and audio data with an SD/SDHC card attached to the camera
- Easy initial network settings by supplied SNC Easy IP Setup Guide application
- Smartphone viewer to display an image of the camera on the smartphone's screen and control the camera's pan, tilt, and zoom functions by simple touch-panel manipulation
- ONVIF (Open Network Video Interface Forum) Profile S conformance firmware that ensures greater interoperability and more flexibility in building multi-vendor systems



OFF



ON

Actual Images

- Gyroscopic Image Stabilizer to help minimize the effect of camera shake or vibration, reducing any image blur
- Focal Plane Distortion Correction technology to correct any image distortion generated in a scene by the CMOS sensor focal plane phenomenon
- DEPA Advanced Intelligent Video Analytics to trigger an alarm based on user-defined rules
- Visibility Enhancer (VE) to optimize the brightness and color reproduction of an image dynamically on a pixel-by-pixel basis while continuously adapting to the scene within the given dynamic range
- XDNR (eXcellent Dynamic Noise Reduction) technology for clear images without introducing motion blur under low illumination

IPELA  
ENGINE PRO

View-DR

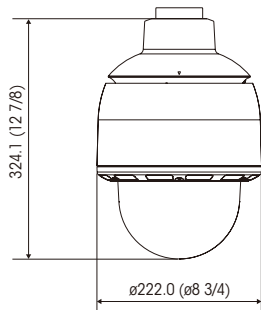
DEPA  
Advanced

ONVIFS

# SPECIFICATIONS

SNC-WR602C	
<b>Camera</b>	
Image Sensor	1/3-type progressive scan Exmor 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
White Balance	ATW, ATW PRO, Indoor, Outdoor, Fluorescent lamp, Mercury lamp, Sodium vapour lamp, Metal halide lamp, White LED, One push WB, Manual
<b>Lens</b>	
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 Four Programs	5
<b>Camera Features</b>	
Day/Night	True D/N
Wide-D	View-DR
Tone Correction	Visibility Enhancer (VE)
Defog Image Processing	Yes
Highlight Compensation	Yes
Noise Reduction	XDNR
Image Stabilizer	Gyroscopic Image Stabilizer
Picture Mode	Yes
Privacy Masking (number)	12
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
Voice Alert	Yes
Vandal Resistant	IK10
Ingress Protection	IP66
Superimpose Number	3 independent positions for characters (Codec, Date & Time, Event, Direction, Text (max. 64 characters)), 1 independent position for logo marks
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
<b>Video</b>	
Resolution	1280 x 720, 1024 x 576, 720 x 576, 704 x 576, 720 x 480, 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 Compression Mode	CBR/VBR (selectable)
Range of Bitrate Setting	64 Kbps to 32 Mbps
Adaptive Rate Control	H.264
Multi Streaming Capability	Triple streaming
Number of Clients	20
<b>Intelligent Video Analytics</b>	
Analytics Architecture	DEPA Advanced
Intelligent Motion Detection	Yes
Face Detection	Yes
Tamper Alarm	Yes
Scene Analytics	Passing, Intrusion, Left Object Detection, Removed Object Detection
<b>Audio</b>	
Compression Format	G.711/G.726/AAC (16 kHz, 48 kHz)

# DIMENSIONS



Unit: mm (inches)

<b>System Requirements</b>	
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
Web Browser	Microsoft Internet Explorer Ver. 7.0, Ver. 8.0, Ver. 9.0, Ver. 10.0, Ver. 11.0 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)
<b>Network</b>	
Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP*, HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP over TCP, RTSP over HTTP, IPv6, HTTPS, SNMP (v1, v2c, v3), FTP (client only), SSL
QoS	DSCP
Multicast Streaming Support	Yes
ONVIF Conformance	Profile S
Authentication	IEEE 802.1X
<b>Interface</b>	
Analog Video Output	BNC x1, 1.0 Vp-p, 75 Ω, unbalance, sync negative
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, 24 V AC/DC, 1 A (mechanical relay outputs electrically isolated from the camera)
Serial Interface	RS-422/RS-485 (PELCO D protocol)
Card Slots	SD Card x 1
Confirmed SD Card Type	Max. 64 GB
<b>General</b>	
Power Requirements	HPoE+ system**3, AC 24 V
Power Consumption	Max. 30.0 W (AC 24 V/HPoE+, heater OFF)*3 Max. 80.0 W (AC 24 V, heater ON) Max. 55.0 W (HPoE+, heater ON)*3
Operating Temperature	-40°C to +50°C (-40°F to +122°F) (AC 24 V) -30°C to +50°C (-22°F to +122°F) (HPoE+)*3
Cold Start Temperature	-40°C to +50°C (-40°F to +122°F) (AC 24 V) -30°C to +50°C (-22°F to +122°F) (HPoE+)*3
Storage Temperature	-20°C to +60°C (-4°F to +140°F)
Operating Humidity	20% to 80%
Storage Humidity	20% to 95%
Built-in Heater	Yes
Dimensions (W x H x D)**4	ø222.0 mm x 324.1 mm (ø8 3/4 inches x 12 7/8 inches)
Mass	Approx. 4.1 kg (9 lb 0.6 oz)
External Material	Dome cover: PC Top sunshade: PC Coupling: ADC12 Top cabinet: ADC12 Sun shade: PC Dome flange: ADC12
External Color	Top sunshade: 6.4GY 8.0/0.3 Coupling: 3.6GY 8.4/0.3 Top cabinet: 3.6GY 8.4/0.3 Sun shade: 6.4GY 8.0/0.3 Dome flange: 3.6GY 8.4/0.3
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
Supplied Accessories	EMC-TR CD-ROM (supplied programs) (1) Installation Manual (1) Dome cover (1) Top sunshade (1) Coupling (1) Wire-fixing belt (1) Wire bracket (1) Bolts (2) Power supply connector 3-pin (1) I/O harness 14-pin (1) Harness band (1) Band mount (1) Connection cord (with BNC) (1)
Optional Accessories	YT-LDR632S (Dome Cover Smoked)

\*1 Available when the preset mode is ON.

\*2 SSM (Source Specific Multicast) is supported.

\*3 Power supply is generated from PowerDsine® 9501G/B by using 4 wires.

\*4 The values for dimensions are approximate.

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The values for mass and dimension are approximate.

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