Network Rapid Dome HD Camera - W Series

IP Rapid Dome 720p/60fps Camera Powered by IPELA ENGINE™ PRO Technology

- 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



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®, DEPATM Advanced Intelligent Video Analytics, Gyroscopic Image Stabilizer, Focal Plane Distortion Correction, and Defog Image
- 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





OFF



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 glarm based on user-defined rules



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





С

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.
- Visibility Enhancer (VE) to help 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 with virtually no motion blur under low illumination
- 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) 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

SPECIFICATIONS

Camera	SNC-WR602
Image Sensor	1/3-type progressive scan Exmor CMOS sensor
Number of Effective Pixels	Approx. 1.37 Megapixels
Signal System	NTSC NTSC
Sync System	Internal synchronization
	Color: 1.0 lx (F1.6, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
Minimum Illumination (50 IRE)	B/W: 0.03 lx (F1.6, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
Minimum III and a strange (00 IDE)	B/W: U.U3 IX (F1.6, VIEW-DR OFF, VE OFF, AGC ON, 1/3U S, 3U TDS)
Minimum Illumination (30 IRE)	Color: 0.4 lx (F1.6, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps) B/W: 0.01 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 (-3 dB to +28 dB)
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
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°
	34.8° to 1.2°
Vertical Viewing Angle	f = 4.3 mm to 129.0 mm
Focal Length	
F-Number Minimum Object Distance	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
Camera Features	
Day/Night	True D/N
Wide-D	View-DR
Tone Correction	Visibility Enhancer (VE)
Defog Image Processing	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,
rivacy iviasking (color/ellect)	Magenta, Gray (6 scales)), Mosaic
Edgo Storago	Yes
Edge Storage Voice Alert	Yes
Vandal Resistant	IK10
	IP66
Ingress Protection	3 independent positions for characters (Codec, Date & Time,
Superimpose Number	
	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
Smartphone viewer	Yes
Video	
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)
O	H.264 (High/Main/Baseline Profile), JPEG
Compression Format	
Maximum Frame Rate	H.264: 60 fps (1280 x 720)
Maximum Frame Rate	H.264: 60 fps (1280 x 720)
Maximum Frame Rate	H.264: 60 fps (1280 x 720) JPEG: 60 fps (1280 x 720)
Maximum Frame Rate Bitrate Compression Mode Range of Bitrate Setting	H.264: 60 fps (1280 x 720) JPEG: 60 fps (1280 x 720) CBR/VBR (selectable)
Maximum Frame Rate Bitrate Compression Mode Range of Bitrate Setting Adaptive Rate Control	H.264: 60 fps (1280 x 720) JPEG: 60 fps (1280 x 720) CBR/VBR (selectable) 64 Kbps to 32 Mbps
Maximum Frame Rate Bitrate Compression Mode Range of Bitrate Setting Adaptive Rate Control Multi Streaming Capability	H.264: 60 fps (1280 x 720) JPEG: 60 fps (1280 x 720) CBR/VBR (selectable) 64 Klps to 32 Mbps H.264 Triple streaming
Maximum Frame Rate Bitrate Compression Mode Range of Bitrate Setting Adaptive Rate Control Multi Streaming Capability Number of Clients	H.264: 60 fps (1280 x 720) JPEG: 60 fps (1280 x 720) CBR/VBR (selectable) 64 Ktyps fo 32 Mtbps H.264
Maximum Frame Rate Bitrate Compression Mode Range of Bitrate Settling Adaptive Rate Control Multi Streaming Capability Number of Clients Intelligent Video Analytics	H.264: 60 fps (1280 x 720) JPEG: 60 fps (1280 x 720) CBR/VBR (selectable) 64 Kbps to 32 Mbps H.264 Triple streaming
Maximum Frame Rate Bitrate Compression Mode Range of Bitrate Settling Adaptive Rate Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture	H.264: 60 fps (1280 x 720) JPEG: 60 fps (1280 x 720) CBR/VBR (selectable) 64 Klps to 32 Mbps H.264 Triple streaming 20 DEPA Advanced
Maximum Frame Rate Bitrate Compression Mode Range of Bitrate Setting Adaptive Rate Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection	H.264: 60 fps (1280 x 720) JPEG: 60 fps (1280 x 720) CBR/VBR (selectable) 64 Kbps to 32 Mbps H.264 Triple streaming 20 DEPA Advanced Yes
Maximum Frame Rate Bitrate Compression Mode Range of Bitrate Settling Adaptive Rate Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection Face Detection	H.264: 60 fps (1280 x 720) JPEG: 60 fps (1280 x 720) CBR/VBR (selectable) 64 Kbps to 32 Mbps H.264 Triple streaming 20 DEPA Advanced Yes Yes
Maximum Frame Rate Bitrate Compression Mode Range of Bitrate Settling Adaptive Rate Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection Face Detection Tamper Alarm	H.264: 60 fps (1280 x 720) JPEG: 60 fps (1280 x 720) CBR/VBR (selectable) 64 Kbps to 32 Mbps H.264 Triple streaming 20 DEPA Advanced Yes Yes
Maximum Frame Rate Bitrate Compression Mode Range of Bitrate Settling Adaptive Rate Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection Face Detection	H.264: 60 fps (1280 x 720) JPEG: 60 fps (1280 x 720) CBR/VBR (selectable) 64 Kbps to 32 Mbps H.264 Triple streaming 20 DEPA Advanced Yes Yes Yes Passing, Intrusion, Left Object Detection, Removed Object
Maximum Frame Rate Bitrate Compression Mode Range of Bitrate Settling Adaptive Rate Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection Face Detection Tamper Alarm Scene Analytics	H.264: 60 fps (1280 x 720) JPEG: 60 fps (1280 x 720) CBR/VBR (selectable) 64 Kbps to 32 Mbps H.264 Triple streaming 20 DEPA Advanced Yes Yes
Maximum Frame Rate Bitrate Compression Mode Range of Bitrate Settling Adaptive Rate Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection Face Detection Tamper Alarm Scene Analytics Audio	H.264: 60 fps (1280 x 720) JPEG: 60 fps (1280 x 720) CBR/VBR (selectable) 64 Ktyps fo 32 Mtbps H.264 Triple streaming 20 DEPA Advanced Yes Yes Passing, Intrusion, Left Object Detection, Removed Object Detection
Maximum Frame Rate Bitrate Compression Mode Range of Bitrate Settling Adaptive Rate Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection Face Detection Tamper Alarm Scene Analytics Audio Compression Format	H.264: 60 fps (1280 x 720) JPEG: 60 fps (1280 x 720) CBR/VBR (selectable) 64 Kbps to 32 Mbps H.264 Triple streaming 20 DEPA Advanced Yes Yes Yes Passing, Intrusion, Left Object Detection, Removed Object
Maximum Frame Rate Bitrate Compression Mode Range of Bitrate Settling Adaptive Rate Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection Face Detection Tamper Alarm Scene Analytics Audio Compression Format System Requirements	H.264: 60 fps (1280 x 720) JPEG: 60 fps (1280 x 720) CBR/VBR (selectable) 64 Kbps to 32 Mbps H.264 Triple streaming 20 DEPA Advanced Yes Yes Passing, Intrusion, Left Object Detection, Removed Object Detection G.711/G.726/AAC (16 kHz, 48 kHz)
Maximum Frame Rate Bitrate Compression Mode Range of Bitrate Settling Adaptive Rate Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection Face Detection Tamper Alarm Scene Analytics Audio Compression Format	H.264: 60 fps (1280 x 720) JPEG: 60 fps (1280 x 720) CBR/VBR (selectable) 64 Kbps to 32 Mbps H.264 Triple streaming 20 DEPA Advanced Yes Yes Passing, Intrusion, Left Object Detection, Removed Object Detection G.711/G.726/AAC (16 kHz, 48 kHz) Windows XP® (32 bit) Professional Edition
Maximum Frame Rate Bitrate Compression Mode Range of Bitrate Settling Adaptive Rate Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection Face Detection Tamper Alarm Scene Analytics Audio Compression Format System Requirements	H.264: 60 fps (1280 x 720) JPEG: 60 fps (1280 x 720) CBR/VBR (selectable) 64 Kbps to 32 Mbps H.264 Tirple streaming 20 DEPA Advanced Yes Yes Passing, Intrusion, Left Object Detection, Removed Object Detection G.711/G.726/AAC (16 kHz, 48 kHz) Windows XP® (32 bit) Professional Edition Windows Vista* (32 bit) Ultimate, Business Edition
Maximum Frame Rate Bitrate Compression Mode Range of Bitrate Settling Adaptive Rate Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection Face Detection Tamper Alarm Scene Analytics Audio Compression Format System Requirements	H.264: 60 fps (1280 x 720) JPEG: 60 fps (1280 x 720) CBR/VBR (selectable) 64 Ktps to 32 Mbps H.264 Triple streaming 20 DEPA Advanced Yes Yes Yes Passing, Intrusion, Left Object Detection, Removed Object Detection G.711/G.726/AAC (16 kHz, 48 kHz) Windows VPida* (32 bit) Pitniarde, Business Edition Windows Vista* (32 bit) Ultimate, Business Edition Windows Vista* (32 bit) Ultimate, Professional Edition
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Maximum Frame Rate Bitrate Compression Mode Range of Bitrate Settling Adaptive Rate Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection Face Detection Tamper Alarm Scene Analytics Audio Compression Format System Requirements Operating System Processor	H.264: 60 fps (1280 x 720) JPEG: 60 fps (1280 x 720) CBR/VBR (selectable) 64 Kbps to 32 Mbps H.264 Triple streaming 20 DEPA Advanced Yes Yes Passing, Intrusion, Left Object Detection, Removed Object Detection G.711/G.726/AAC (16 kHz. 48 kHz) Windows XPi (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) Ultimate, Professional Edition Windows' 8 Pro (32/64 bit) Iltimate, Professional Edition Windows' 8 Pro (32/64 bit) Iltimate, Professional Edition Windows' 8 Pro (32/64 bit) Intel Corel 7 2.8 GHz or higher 2 GB or more Microsoft Intermet Explorer's Ver. 7.0, Ver. 8.0, Ver. 9.0, Ver. 10.0
Maximum Frame Rate Bitrate Compression Mode Range of Bitrate Settling Adaptive Rate Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection Face Detection Tamper Alarm Scene Analytics Audio Compression Format System Requirements Operating System Processor Memory	H.264: 60 fps (1280 x 720) JPEG: 60 fps (1280 x 720) CBR/VBR (selectable) 64 Kbps to 32 Mbps H.264 Triple streaming 20 DEPA Advanced Yes Yes Passing, Intrusion, Left Object Detection, Removed Object Detection G.711/G.726/AAC (16 kHz. 48 kHz) Windows XPi (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) Ultimate, Professional Edition Windows' 8 Pro (32/64 bit) Iltimate, Professional Edition Windows' 8 Pro (32/64 bit) Iltimate, Professional Edition Windows' 8 Pro (32/64 bit) Intel Corel 7 2.8 GHz or higher 2 GB or more Microsoft Intermet Explorer's Ver. 7.0, Ver. 8.0, Ver. 9.0, Ver. 10.0
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	SNC-WR602
Network	
Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP*2, HTTP, DHCP, DNS, NTP, RTP/RTCP,
	RTSP over TCP, SMTP over HTTP, IPv6, HTTPS, SNMP (v1, v2c, v3), SSL
QoS	DSCP
Multicast Streaming Support	Yes
ONVIF Conformance	Profile S
Authentication	IEEE 802.1X
Interface	
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	4/8/16/32 GB SDHC (no support for SDXC)
General	
Power Requirements	HPoE+ system*3, AC 24 V
Power Consumption	80.0 W max (AC24V), 60.0 W max (HPoE+*3)
Operating Temperature	-40°F to +122°F (-40°C to +50°C) (AC 24V)
0-1-101	23°F to +122°F (-5°C to +50°C) (HPoE+)*3
Cold Start Temperature	-40°F to +122°F (-40°C to +50°C) (AC 24V)
Charge a Tanana a radi wa	32°F to 122°F (0°C to +50°C) (HPoE+)*3
Storage Temperature	-4°F to +140°F (-20°C to +60°C)
Operating Humidity	20% to 80%
Storage Humidity Built-in Heater	20% to 95% Yes
	98 3/4 inches x 12 7/8 inches (ø222.0 mm x 324.1 mm)
Dimensions (W x H x D)	Approx. 9 lb 0.6 oz (4.1 kg)
Weight External Material	Approx. 9 lb 0.6 oz (4.1 kg) Dome cover: PC
Exicitial Malerial	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)
. 0	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
Supplied Accessories	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)
*1 Available when the preset mod	IAO ai aON

- *1 Available when the preset mode is ON.
 *2 SSM (Source Specific Multicast) is supported.
 *3 Power supply is generated from PowerDsine® 9501G by using 4 wires.

Optional Accessories		
Model		
UNI-RMB1	Parapet Mount Bracket 2ft	
UNI-RMB2	Parapet Mount Bracket 3ft	
UNI-WMB3	Low Profile Wall Mount Bracket	
VT-I DR632S	Dome Cover Smoked	

DIMENSIONS



Unit: inches (mm)

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