

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



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



View-DR



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



- 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.

- 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 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

| | SNC-WR602 |
|------------------------------------|--|
| Camera | |
| Image Sensor | 1/2.8-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: 1.0 lx (F1.6, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps) B/W: 0.03 lx (F1.6, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps) |
| Minimum Illumination (30 IRE) | TBD |
| 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° |
| Vertical Viewing Angle | TBD |
| 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 |
| Camera Features | |
| Day/Night | True D/N |
| e-Flip | Yes |
| 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, 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 |
| 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) |
| 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 |
| Intelligent Video Analytics | |
| Analytics Architecture | DEPA Advanced |
| Intelligent Motion Detection | Yes |
| 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) |
| 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) |
| 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 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) |

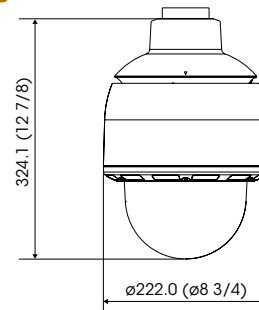
| | SNC-WR602 |
|-----------------------------|--|
| Network | |
| Protocols | IPv4, TCP, UDP, ARP, ICMP, IGMP*2, HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP over TCP, SMTP over HTTP, IPv6, HTTPS, SNMP (v1, v2c, v3), SSL |
| QoS | DSCP |
| Multicast Streaming Support | Yes |
| ONVIF Conformance | Profile S |
| 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 24V |
| Power Consumption | 80.0 W max. |
| Operating Temperature | -40°C to +50°C (-40°F to +122°F) (AC 24V) -5°C to +50°C (23°F to +122°F) (HPoE+)*3 |
| Cold Start Temperature | -40°C to +50°C (-40°F to +122°F) (AC 24V) 0°C to +50°C (32°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) | 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 | YF-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 PowerDesine™ 9501G by using 4 wires.

DIMENSIONS



Unit: mm (inches)

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