

## SNC-WR630

Rapid Dome 1080p/60 fps  
Camera Powered by IPELA  
ENGINE PRO™ - W Series



### Overview

**Optimised for critical surveillance applications, with superb image quality and advanced analytics, industry-leading pan speed and powerful optical zoom**

The SNC-WR630 is a high-performance rapid dome network camera that's ideal for wide-area surveillance in mission-critical indoor environments – from shopping malls to banks and casinos.

The camera's sensitive, high-resolution Exmor™ CMOS sensor is teamed with Sony's new IPELA ENGINE PRO™ processing platform, bringing on-board image processing to a new level at Full HD resolution.

IPELA ENGINE PRO delivers an extra-wide 130dB dynamic range at Full HD to assure 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. This advanced processing engine can even correct focal plane distortion from fast camera pans or moving objects in real time.

The SNC-WR630 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 -5°C to +50°C. Clear images are enhanced by a Defog Image Processing feature that reduces smog or haze, while the gyroscopic image stabiliser combats camera-shake caused by mechanical vibration.

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

## Features

### **See every detail with Full HD quality**

The high-resolution Exmor CMOS sensor captures crisp, detail-packed Full HD video images (maximum resolution 1920 x 1080), 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 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**

The on-board gyroscopic image stabiliser keeps video images steady and blur-free, even if the camera is subjected to buffeting from wind or traffic vibration on a pole, fence or road bridge.

### **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 CBR (constant bitrate), VBR (variable bitrate) or VBR-with-cap 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 adjust settings.

## **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.

|                               |   |
|-------------------------------|---|
| Image Sensor                  | 1/2.8-type progressive scan Exmor CMOS sensor   |
| Number of Effective Pixels    | Approx. 2.38 Megapixels   |
| Signal System                 | NTSC/PAL (switchable)   |
| Sync System                   | Internal synchronization  |
| Minimum Illumination (50 IRE) | Color: 0.4 lx (F1.6, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)<br>B/W: 0.03 lx (F1.6, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)   |
| Minimum Illumination (30 IRE) | Color: 0.24 lx (F1.6, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)<br>B/W: 0.018 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<br>Digital zoom 12x<br>Total zoom 360x   |
| Powered Focus            | Yes   |
| Auto Focus               | Yes   |
| Horizontal Viewing Angle | 63.7° to 2.3°   |
| Vertical Viewing Angle   | 38.5° to 1.3°   |
| 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            |
| 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<br>(color/effect)   | Opaque 14 colors (Black, White, Red, Green, Blue, Cyan, Yellow, Magenta, Gray (6 scales)), Mosaic   |
| Edge Storage                        | Yes   |
| Compatibility with<br>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<br>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                 | 1920 x 1080, 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 (1920 x 1080)<br>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 Detection | Yes           |
| Face 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<br>Windows Vista (32 bit) Ultimate, Business Edition<br>Windows 7 (32/64 bit) Ultimate, Professional Edition<br>Windows 8 Pro (32/64 bit)<br>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<br>Firefox Ver. 19.02 (plug-in free viewer only)   |

|                    |  |
|--------------------|--|
|                    | Safari Ver. 5.1 (plug-in free viewer only)<br>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<br>*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<br>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<br>23 °F to +122 °F   |
| Cold Start Temperature | 0°C to +50°C<br>32°F to +122°F  |
| Storage Temperature    | -20 °C to + 60 °C<br>-4 °F to + 140 °F  |
| Operating Humidity     | 20 % to 80 %  |
| Storage Humidity       | 20 % to 95 %  |
| Dimensions *2          | φ146.3 x 204.5 mm<br>φ5 7/8 inches x 8 1/8 inches   |
| Mass                   | Approx. 1.7 kg<br>3 lb 12 oz  |
| External Material      | Base cabinet: PC+ABS<br>Camera cabinet: PC+ABS<br>Side cabinet: PC+ABS                      |
| External Color         | Base cabinet: 4.4BG 8.4/0.2<br>Camera cabinet: 3.9PB 0.3/1.0<br>Side cabinet: 3.9PB 0.3/1.0 |
|                        | JATE Technical Standard (LAN)   |

Safety Regulations

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)  
 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)

Optional Accessories

YT-LD124C (Dome Cover Clear)  
 YT-LD124S (Dome Cover Smoked)  
 YT-ICB630 (In-ceiling Bracket)

## Notes

\*1 Available when preset mode is On.

\*2 The values for dimensions are approximate.

## Related products



### **FWL- 65W855C**

65" BRAVIA  
Professional Full HD  
Colour LED Display



### **FWL- 75W855C**

75" BRAVIA  
Professional Full HD  
Colour LED Display



### **FWL- 55W805C**

55" BRAVIA  
Professional Full HD  
Colour LED Display



### **FWL- 40W705C**

40" BRAVIA  
Professional Full HD  
Colour LED Display



### **FWL- 48W705C**

48" BRAVIA  
Professional Full HD  
Colour LED Display

## Gallery





