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Hybrid Camera Solutions

IPELA HYBRID™ – Sony’s IP and Analog-over-Coax Technology* – Offers Cost-effective and Environmentally-friendly Retrofit Solutions for Existing Analog CCTV Systems

Sony offers a new video surveillance technology that can simultaneously transmit both IP and analog signals on a single coaxial cable. It allows customers to easily migrate to HD IP video surveillance systems with minimal investment, utilizing their existing analog infrastructure. Based on this technology – IPELA HYBRID – Sony offers solutions that comprise hybrid cameras along with four-channel receivers as their counterparts.

These unique solutions deliver the following advantages:

- Cost-effective and environmentally-friendly surveillance systems that can be easily migrated from an analog CCTV system to an IP network-based system, making the most of any existing surveillance infrastructure (e.g., coaxial cables, local power supplies, matrix switchers, controllers, and video wall monitors)
- Simultaneous use of IP HD video and analog SD video
- Utilization of the advanced features and functionalities offered by IP network cameras
- Extended cable length of up to 300 m (1,000 feet)**
- Minimized latency of analog video for live monitoring

Sony’s hybrid camera solutions can be used in a wide variety of surveillance applications, and in locations such as commercial facilities, financial institutions, office buildings, casinos, airports, government-related facilities, and schools.

* Sony’s IP and analog-over-coax technology is developed based on Intersil Corporation’s SLOC™ (Security Link Over Coax) technology.

** Cable length varies according to cable grade.
## Hybrid Cameras

<table>
<thead>
<tr>
<th>Model name</th>
<th>SNC-ZB550</th>
<th>SNC-ZM550</th>
<th>SNC-ZM550</th>
<th>SNC-ZR550</th>
<th>SNC-ZP550</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hybrid Fixed Camera</td>
<td>Hybrid Vandal Mini Dome Camera</td>
<td>Hybrid Mini Dome Camera</td>
<td>Hybrid Rapid Dome Camera</td>
<td>Hybrid PTZ Camera</td>
<td></td>
</tr>
</tbody>
</table>

**Video compression format**
- H.264/MPEG-4/JPEG

**Codec streaming capability**
- Dual streaming (Any combination with H.264/MPEG-4/JPEG, including multiple streams of the same format)

**Computer display format**
- (*1)

**Maximum resolution (IP)**
- 1280 x 1024 (1.3 Mega)  
- 1280 x 1024 (1.3 Mega)  
- 1280 x 720  
- 1280 x 720  
- 1280 x 720

**Analog video output**
- NTSC standard/PAL standard (selectable)

**Vandal resistant**
- No  
- IK10  
- No

**Horizontal viewing angle**
- 96.5° to 33.9°  
- 85.4° to 31.2°  
- 85.4° to 31.2°  
- 55.9° to 2.1°  
- 55.9° to 2.1°

**Zoom ratio**
- 2.9x optical zoom  
- 2.9x optical zoom  
- 2.9x optical zoom  
- 28x optical zoom  
- 28x optical zoom

**Focal length**
- f=2.8 to 8 mm  
- f=3.1 to 8.9 mm  
- f=3.1 to 8.9 mm  
- f=3.5 to 98 mm  
- f=3.5 to 98 mm

**Lens type**
- CS mount lens  
- Built-in variable focal lens  
- Built-in variable focal lens  
- Auto-focus zoom lens  
- Auto-focus zoom lens

**Image device**
- 1/3 type progressive scan Exmor CMOS sensor  
- 1/3 type progressive scan Exmor CMOS sensor  
- 1/3 type progressive scan Exmor CMOS sensor  
- 1/4 type Exmor CMOS sensor  
- 1/4 type Exmor CMOS sensor

**Minimum illumination**
- Color: 0.50 lx, B/W: 0.30 lx (F1.2/AGC 42dB/50IRE (IP))  
- Color: 0.50 lx, B/W: 0.30 lx (F1.2/AGC 42dB/50IRE (IP))  
- Color: 0.50 lx, B/W: 0.30 lx (F1.2/AGC 42dB/50IRE (IP))  
- Color: 0.7 lx (F1.35/AGC ON/shutter 1/30 s/30 IRE (IP)), B/W: 0.07 lx (F1.35/AGC ON/shutter 1/30 s/30 IRE (IP))  
- Color: 0.7 lx (F1.35/AGC ON/shutter 1/30 s/30 IRE (IP)), B/W: 0.07 lx (F1.35/AGC ON/shutter 1/30 s/30 IRE (IP))

**Maximum frame rate**
- 30 fps H.264/MPEG-4/JPEG at 1280 x 1024  
- 30 fps H.264/MPEG-4/JPEG at 1280 x 1024  
- 30 fps H.264/MPEG-4/JPEG at 1280 x 720  
- 30 fps H.264/MPEG-4/JPEG at 1280 x 720  
- 30 fps H.264/MPEG-4/JPEG

**Dimensions**
- 2 7/8 × 2 1/2 × 7 7/8 inches (72 × 63 × 197 mm)  
- ø5 5/8 × 4 3/4 inches (ø140 × 119 mm)  
- ø5 5/8 × 4 3/4 inches (ø140 × 119 mm)  
- ø7 1/4 × 7 5/8 inches (ø190.9 × 190.9 mm)  
- ø7 1/4 × 7 5/8 inches (ø190.9 × 190.9 mm)

(*1) Definition of HD: More than 720p with H.264 streaming capability of more than 30 fps.

(*2) When selecting the IP and Analog-over-Coax mode, the power supply supports only AC 24 V.

---

## Hybrid Camera Receivers

<table>
<thead>
<tr>
<th>Model name</th>
<th>SNC-ZX104</th>
<th>SNC-ZP104</th>
</tr>
</thead>
<tbody>
<tr>
<td>4CH Hybrid Camera Receiver</td>
<td>4CH Hybrid Camera Receiver</td>
<td></td>
</tr>
</tbody>
</table>

**Number of supported hybrid camera**
- 4

**Camera input**
- BNC x 4

**Analog video output**
- BNC x 4

**Network port**
- RJ45 x 1 (100Base-TX/10Base-T)

**Serial interface**
- RS-485 x 1

**Supported Serial PTZ control protocol**
- Pelco-D

**Power requirements**
- DC 12 V (AC 100 V to AC 127 V, AC 200 V to AC 240 V, 50/60 Hz for AC adaptor)

**Power consumption**
- Approx. 8.5 W/9.0 W (AC 100 V/AC 240 V) with AC adaptor

**Dimensions (W x H x D)**
- ø1 1/3 x 1 3/4 x 9 7/8 inches (ø31.0 x 44.0 x 250 mm) not including projecting parts

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All cameras in this sheet comply with UL2044.
## IP Mini Dome Cameras

<table>
<thead>
<tr>
<th>Model name</th>
<th>V Series</th>
<th>E Series</th>
<th>X Series</th>
<th>V Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>SNC-DH280</td>
<td>SNC-DH240T</td>
<td>SNC-DH240</td>
<td>SNC-DH220</td>
<td>SNC-DH180</td>
</tr>
<tr>
<td>SNC-DH240</td>
<td>SNC-DH220T</td>
<td>SNC-DH220</td>
<td>SNC-DH210</td>
<td>SNC-DH140T</td>
</tr>
<tr>
<td>SNC-DH210</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SNC-DH180</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SNC-DH140T</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SNC-DH140</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Video compression format
- H.264/MPEG-4/JPEG
- Dual streaming (Any combination with H.264/MPEG-4/JPEG, including multiple streams of the same format)

### Codec streaming capability
- Yes/No

### Maximum resolution
- 1920 x 1080
- 1280 x 1024
- 1920 x 1440
- 1280 x 1024

### Maximum frame rate
- 30 fps H.264 at 1920 x 1080
- 20 fps MPEG-4 at 1920 x 1080
- 16 fps JPEG at 1920 x 1080

### Day/Night
- Yes/No
- Day/Night

### Audio Capability
- Yes/No
- Yes/No

### Vandal resistant
- Yes/No
- Yes/No

### IR illuminators
- Yes/No
- Yes/No

### Outdoor use/Ingress protection
- Yes/IP66
- Yes/IP66

### Maximum illumination
- Color: 0.4 lx, B/W: 0.45 lx
- Color: 0.7 lx, B/W: 0.1 lx

###最低照度
- B/W: 0 lx (IR ON)
- Color: 0.2 lx

### Focal length
- Exmor CMOS sensor
- 1/2.8-type progressive scan
- 2.9x optical zoom

### Focus length
- f=3.1 to 8.9 mm
- f=3.1 to 8.9 mm
- f=3.3

### Ingress protection
- IP66
- IK10

### Maximum input power
- AC 24 V, DC 12 V
- AC 24 V, DC 12 V

### Power consumption
- 29 W max
- 10.2 W max
- 30.5 W max

### Dimensions
- ø6 5/8 x 4 3/4 inches
- (166 x 119 mm)
- (166 x 119 mm)

### Codec streaming capability
- Yes/No
- Yes/No

### Card slot(s)
- No/Yes
- No/Yes

### Wireless capability
- Yes/No
- Yes/No

### DEPA (Intelligence)
- Yes/No
- Yes/No

### ONVIF software
- Yes/No
- Yes/No

### Power requirement
- PoE (Class 0)
- PoE (Class 2)
- PoE (Class 1)

### Video compression format
- H.264/MPEG-4/JPEG

### Codec streaming capability
- Dual streaming (Any combination with H.264/MPEG-4/JPEG, including multiple streams of the same format)
<table>
<thead>
<tr>
<th>Model name</th>
<th>E Series</th>
<th>X Series</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SNC-DH160</td>
<td>SNC-DH120T</td>
</tr>
<tr>
<td>Codec streaming capability</td>
<td>Dual streaming (Any combination with H.264/MPEG-4/JPEG, including multiple streams of the same format)</td>
<td>H.264/MPEG-4/JPEG</td>
</tr>
<tr>
<td>Computer display format</td>
<td>(*1) Definition of HD: More than 720p with H.264 streaming capability at more than 30 fps.</td>
<td></td>
</tr>
<tr>
<td>Maximum resolution</td>
<td>1280 x 1024 (1.3 Megapixel)</td>
<td>1280 x 1024 (1.3 Megapixel)</td>
</tr>
<tr>
<td>Outdoor use/Ingress protection</td>
<td>Yes/IP66</td>
<td>No</td>
</tr>
<tr>
<td>Vandal resistant</td>
<td>IK10</td>
<td>IK10</td>
</tr>
<tr>
<td>IR illuminators</td>
<td>IR</td>
<td>IR</td>
</tr>
<tr>
<td>Horizontal viewing angle</td>
<td>85.4° to 31.2°</td>
<td>85.4° to 31.2°</td>
</tr>
<tr>
<td>Focal length</td>
<td>f=3.1 to 8.9 mm</td>
<td>f=3.1 to 8.9 mm</td>
</tr>
<tr>
<td>Image device</td>
<td>1/3-type progressive scan CMOS sensor</td>
<td>1/3-type progressive scan CMOS sensor</td>
</tr>
<tr>
<td>Minimum illumination</td>
<td>Color: 0.5 lx, B/W: 0 lx (F1.2/AGC 42 dB/50 IRE [IP])</td>
<td>Color: 0.5 lx, B/W: 0.3 lx (F1.2/AGC 42 dB/50 IRE [IP])</td>
</tr>
<tr>
<td>Maximum frame rate</td>
<td>30 fps</td>
<td>30 fps</td>
</tr>
<tr>
<td>Day/Night</td>
<td>Day/Night</td>
<td>Day/Night</td>
</tr>
<tr>
<td>Wide-D</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Visibility Enhancer (VE)</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Noise reduction</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Card slot(s)</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Wireless capability</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Composite video output</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>DEPA (Intelligence)</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Audio Capability</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>ONVIF software</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Power requirement</td>
<td>PoE (Class 0)</td>
<td>PoE (Class 2)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>12.9 W max.</td>
<td>6 W max.</td>
</tr>
<tr>
<td>Dimensions</td>
<td>ø6 5/8 x 4 3/4 inches (166 x 119 mm)</td>
<td>ø5 5/8 x 4 3/4 inches (140 x 119 mm)</td>
</tr>
</tbody>
</table>

(*1) Definition of HD: More than 720p with H.264 streaming capability at more than 30 fps.
### IP Rapid Dome and PTZ Cameras

**Model name** | **E Series** | **SNC-RH164** | **SNC-RH124**
--- | --- | --- | ---
**Video compression format** | H.264/MPEG-4/JPEG | **HD** | **HD**
**Codec streaming** | Dual streaming (Any combination with H.264/MPEG-4/JPEG, including multiple streams of the same format) | **HD** | **HD**
--- | --- | --- | ---
**Computer display format** | | | |
**Maximum resolution** | 1920 x 1080 | 1920 x 1080 | 1280 x 720
**Outdoor use/Ingress protection** | No | No | Yes/IP66
**Vandal resistant** | No | No | No
--- | --- | --- | ---
**Image device** | 1/2.8-type Exmor CMOS sensor | 1/2.8-type Exmor CMOS sensor | 1/3-type HD CMOS sensor
**Minimum illumination** | Color: 1.7 lx, B/W: 0.07 lx (F1.6, shutter 1/30sec, AGC ON, 50IRE [IP]) | Color: 1.7 lx, B/W: 0.07 lx (F1.6, shutter 1/30sec, AGC ON, 50IRE [IP]) | Color: 1.9 lx, B/W: 0.17 lx (XNR ON, VE ON, Slow Shutter OFF, 50 IRE [IP])
**Maximum frame rate** | 30 fps H.264 at 1920 x 1080; 20 fps MPEG-4 at 1920 x 1080; 16 fps JPEG at 1920 x 1080 | 30 fps H.264 at 1920 x 1080; 20 fps MPEG-4 at 1920 x 1080; 16 fps JPEG at 1920 x 1080 | 30 fps H.264/MPEG-4/JPEG at 1280 x 720
**Pan angle** | 360 degrees endless rotation | 360 degrees endless rotation | 360 degrees endless rotation
**Tilt angle** | -105° to +105° (210° tilt) | -105° to +105° (210° tilt) | -105° to +105° (210° tilt)
**Quick Release mechanism** | No | No | Yes (option)
**Pan angle** | 360 degrees endless rotation | 360 degrees endless rotation | 360 degrees endless rotation
**Tilt angle** | -105° to +105° (210° tilt) | -105° to +105° (210° tilt) | -105° to +105° (210° tilt)
**Quick Release mechanism** | No | No | Yes (option)
**Power requirement** | AC 24 V, HPeE (Class 4) | AC 24 V, HPeE (Class 4) | AC 24 V, DC 12 V, HPeE (Class 4)
**Dimensions** | ø 5 7/8 x 7 5/8 inches (147.4 x 190.9 mm) | ø 5 7/8 x 7 5/8 inches (147.4 x 190.9 mm) | ø 6 1/8 x 9 inches (154 x 226 mm)

*Definition of HD: More than 720p with H.264 streaming capability of more than 30 fps.*
### IP Rapid Dome and PTZ Cameras

**Model name**  
- SNC-ER520  
- SNC-EP520  
- SNC-RS86N  
- SNC-RS84N  
- SNC-RS46N  
- SNC-RS44N  
- SNC-RX570N  
- SNC-RX550N  
- SNC-RX530N  
- SNC-RZ50N  
- SNC-RZ25N  
- SNC-RZ23N

#### Video compression format
- H.264/MPEG-4/JPEG

#### Codec streaming capability
- Dual streaming (Any combination with H.264/MPEG-4/JPEG, including multiple streams of the same format)

#### Computer display format
- SD

#### Maximum resolution
- 720 x 480

#### Outdoor use
- No

#### Ingress protection
- No

#### Vandal resistant
- No

#### Horizontal viewing angle
- 57.8° to 1.7°

#### Focal length
- f=3.4 to 122.4 mm

#### Image device
- 1/4-type Exwave HAD CCD

#### Minimum illumination
- Color: 1.4 lx, B/W: 0.15 lx (F1.6, AGC ON, 50 IRE [IP])

#### Maximum frame rate
- 720 x 480 resolution

#### Day/Night
- Day/Night

#### Wireless capability
- No

#### Card slot(s)
- SD card x1

#### Composite video output
- No

#### DEP (Intelligence)
- No

#### Auto Capability
- No

#### ONVIF software
- ONVIF

#### Rapid Dome or PTZ
- PTZ

#### Pan angle
- 360° endless

#### Tilt angle
- -105° to +105° (210° tilt)

#### Quick Release mechanism
- No

#### Power requirement
- AC 24 V, HPoE (Class 4)

#### Power consumption
- 25 W max.

#### Dimensions
- ø 5 7/8 x 7 5/8 inches (147.4 x 190.9 mm)

---

**(*1) HPoE is available from the firmware version 1.2.**

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All cameras in this sheet comply with UL2044.
### IP Fixed Cameras

<table>
<thead>
<tr>
<th>Model name</th>
<th>V Series</th>
<th>E Series</th>
<th>X Series</th>
<th>V Series</th>
<th>E Series</th>
<th>X Series</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SNC-CH280</td>
<td>SNC-CH240</td>
<td>SNC-CH260</td>
<td>SNC-CH220</td>
<td>SNC-CH180</td>
<td>SNC-CH140</td>
</tr>
</tbody>
</table>

#### Video compression format
- H.264/MPEG-4/JPEG
- Dual streaming (Any combination with H.264/MPEG-4/JPEG, including multiple streams of the same format)

#### Codec streaming capability
- **Definition of HD:** More than 720p with H.264 streaming capability at more than 30 fps.

<table>
<thead>
<tr>
<th>Feature</th>
<th>V Series</th>
<th>E Series</th>
<th>X Series</th>
<th>V Series</th>
<th>E Series</th>
<th>X Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum resolution</td>
<td>1920 x 1440 (3 Mega)</td>
<td>1920 x 1440 (3 Mega)</td>
<td>1920 x 1440 (3 Mega)</td>
<td>2048 x 1536 (3 Mega)</td>
<td>1280 x 1024 (1.3 Mega)</td>
<td>1280 x 1024 (1.3 Mega)</td>
</tr>
<tr>
<td>Outdoor use/Ingress protection</td>
<td>Yes/IP66</td>
<td>No</td>
<td>Yes/IP66</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>IR illuminators</td>
<td>IR</td>
<td>No</td>
<td>IR</td>
<td>No</td>
<td>No</td>
<td>IR</td>
</tr>
<tr>
<td>Horizontal viewing angle</td>
<td>88.5° to 32.3°</td>
<td>90.0° to 32.3°</td>
<td>88.5° to 32.3°</td>
<td>88°</td>
<td>88°</td>
<td>85.4° to 31.2°</td>
</tr>
<tr>
<td>Zoom ratio</td>
<td>2 x optical zoom</td>
<td>2 x optical zoom</td>
<td>2 x optical zoom</td>
<td>Fixed focal lens</td>
<td>2 x optical zoom</td>
<td>2 x optical zoom</td>
</tr>
<tr>
<td>Focal length</td>
<td>f=3.1 to 8.9 mm</td>
<td>f=2.8 to 6 mm</td>
<td>f=3.1 to 8.9 mm</td>
<td>f=3.3 mm</td>
<td>f=3.1 to 8.9 mm</td>
<td>f=3.1 to 8.9 mm</td>
</tr>
<tr>
<td>Lens mount</td>
<td>Built-in</td>
<td>CS mount</td>
<td>Built-in</td>
<td>CS mount</td>
<td>Built-in</td>
<td>CS mount</td>
</tr>
<tr>
<td>Image device</td>
<td>1/2.8-type progressive scan Exmor CMOS Sensor</td>
<td>1/2.8-type progressive scan Exmor CMOS Sensor</td>
<td>1/2.9-type progressive scan Exmor CMOS Sensor</td>
<td>1/3-type progressive scan Exmor CMOS Sensor</td>
<td>1/3-type progressive scan Exmor CMOS Sensor</td>
<td>1/3-type progressive scan Exmor CMOS Sensor</td>
</tr>
<tr>
<td>Minimum illumination</td>
<td>Color: 0.4 lx, B/W: 0.25 lx (F1.2/ View-DR ON/Brightness 50 IRE/AGC 30dB)</td>
<td>Color: 0.4 lx, B/W: 0.25 lx (F1.2/View-DR ON/Brightness 50 IRE/AGC 30dB)</td>
<td>Color: 0.7 lx, B/W: 0.45 lx (F1/3/AGC 42dB/ 50IRE)</td>
<td>Color: 0.2 lx, B/W: 0.1 lx (F1.2/View-DR OFF/Brightness 50 IRE/AGC 38dB)</td>
<td>Color: 0.2 lx, B/W: 0.1 lx (F1.2/View-DR OFF/Brightness 50 IRE/AGC 38dB)</td>
<td>Color: 0.2 lx, B/W: 0.1 lx (F1.2/View-DR OFF/Brightness 50 IRE/AGC 38dB)</td>
</tr>
<tr>
<td>Maximum frame rate</td>
<td>30 fps H.264 at 1920 x 1080; 20 fps MPEG-4 at 1920 x 1080; 16 fps JPEG at 1920 x 1080</td>
<td>30 fps H.264 at 1920 x 1080; 20 fps MPEG-4 at 1920 x 1080; 16 fps JPEG at 1920 x 1080</td>
<td>30 fps H.264 at 1920 x 1080; 20 fps MPEG-4 at 1920 x 1080; 16 fps JPEG at 1920 x 1080</td>
<td>30 fps H.264 at 1920 x 1080; 20 fps MPEG-4 at 1920 x 1080; 16 fps JPEG at 1920 x 1080</td>
<td>30 fps H.264 at 1920 x 1080; 20 fps MPEG-4 at 1920 x 1080; 16 fps JPEG at 1920 x 1080</td>
<td>30 fps H.264 at 1920 x 1080; 20 fps MPEG-4 at 1920 x 1080; 16 fps JPEG at 1920 x 1080</td>
</tr>
<tr>
<td>Day/Night</td>
<td>Day/Night</td>
<td>Day/Night</td>
<td>Day/Night</td>
<td>Day/Night</td>
<td>Day/Night</td>
<td>Day/Night</td>
</tr>
<tr>
<td>UVC</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>CMOS sensor</td>
<td>1/3-type progressive scan Exmor</td>
<td>1/3-type progressive scan Exmor</td>
<td>1/3-type progressive scan Exmor</td>
<td>1/3-type progressive scan Exmor</td>
<td>1/3-type progressive scan Exmor</td>
<td>1/3-type progressive scan Exmor</td>
</tr>
<tr>
<td>IR illuminator</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Audio Capabilities</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>DEPA (Intelligence)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>ONVIF software</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Power requirement</td>
<td>AC 24 V DC 12 V, PoE (Class 0)</td>
<td>AC 24 V DC 12 V, PoE (Class 0)</td>
<td>AC 24 V DC 12 V, PoE (Class 0)</td>
<td>AC 24 V DC 12 V, PoE (Class 0)</td>
<td>AC 24 V DC 12 V, PoE (Class 0)</td>
<td>AC 24 V DC 12 V, PoE (Class 0)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>33 W max.</td>
<td>11.2 W max.</td>
<td>12.9 W max.</td>
<td>5 W max.</td>
<td>2.4 W max.</td>
<td>12.9 W max.</td>
</tr>
<tr>
<td>Dimensions</td>
<td>ø3 3/4 x 7 3/8 inches (95 x 186 mm)</td>
<td>ø3 3/4 x 7 3/8 inches (95 x 186 mm)</td>
<td>ø3 3/4 x 7 3/8 inches (95 x 186 mm)</td>
<td>ø3 3/4 x 7 3/8 inches (95 x 186 mm)</td>
<td>ø3 3/4 x 7 3/8 inches (95 x 186 mm)</td>
<td>ø3 3/4 x 7 3/8 inches (95 x 186 mm)</td>
</tr>
</tbody>
</table>
**IP Fixed Cameras**

<table>
<thead>
<tr>
<th>Feature</th>
<th>SNC-EB520</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model name</td>
<td>SNC-EB520</td>
</tr>
<tr>
<td>Video compression format</td>
<td>H.264/MPEG4/JPEG</td>
</tr>
<tr>
<td>Codec streaming capability</td>
<td>Dual streaming (Any combination with H.264/MPEG4/JPEG including multiple streams of the same format)</td>
</tr>
<tr>
<td>Computer display format</td>
<td>SD</td>
</tr>
<tr>
<td>Maximum resolution</td>
<td>800 x 600</td>
</tr>
<tr>
<td>Outdoor use/Ingress protection</td>
<td>No</td>
</tr>
<tr>
<td>IR illuminators</td>
<td>No</td>
</tr>
<tr>
<td>Horizontal viewing angle</td>
<td>89.2° to 34.6°</td>
</tr>
<tr>
<td>Zoom ratio</td>
<td>2.6x optical zoom</td>
</tr>
<tr>
<td>Focal length</td>
<td>f=3.0 to 8 mm</td>
</tr>
<tr>
<td>Lens mount</td>
<td>CS mount lens</td>
</tr>
<tr>
<td>Image device</td>
<td>1/3-type progressive scan Exmor CMOS sensor</td>
</tr>
<tr>
<td>Minimum illumination</td>
<td>Color: 0.47 lx, B/W: 0.27 lx (F1.0/AGC ON /50IRE [IP])</td>
</tr>
<tr>
<td>Maximum frame rate</td>
<td>30 fps</td>
</tr>
<tr>
<td>Day/Night</td>
<td>Day/Night</td>
</tr>
<tr>
<td>Wide-D</td>
<td>No</td>
</tr>
<tr>
<td>Visibility Enhancer (VE)</td>
<td>Yes</td>
</tr>
<tr>
<td>Noise reduction</td>
<td>Yes</td>
</tr>
<tr>
<td>Cost slot(s)</td>
<td>No</td>
</tr>
<tr>
<td>Wireless capability</td>
<td>No</td>
</tr>
<tr>
<td>Composite video output</td>
<td>Yes</td>
</tr>
<tr>
<td>DEPA (Intelligence)</td>
<td>No</td>
</tr>
<tr>
<td>Audio Capability</td>
<td>No</td>
</tr>
<tr>
<td>ONVIF software</td>
<td>ONVIF</td>
</tr>
<tr>
<td>Power requirement</td>
<td>PoE (Class 2)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>5 W max.</td>
</tr>
<tr>
<td>Dimensions</td>
<td>2 7/8 x 2 1/2 x 7 7/8 inches (72 x 63 x 187.8 mm) with lens, not including projecting parts</td>
</tr>
</tbody>
</table>

**Series Features At a Glance**

### X Series = Affordable HD with Fixed Focal Lens
- Extremely discreet, small footprint and cost effective indoor HD camera line
- 1080p Exmor® HD CMOS and 720p HD CMOS models (3MP/1.3MP modes)
- Dual Stream, Triple Codec: H.264/MPEG4/JPEG
- High Quality Pan Focal Lens
- Fixed Wide Angle Lens
- IK10 ratings on vandal resistant models: SNC-DH210T, SNC-DH110T
- POE only for single cable installation

### E Series = Economical HD with Varifocal Lens
- Economical cost down version of V series cameras
- 1080p and 720p HD models. (3MP/2MP/1.3MP modes)
- Dual Stream, Triple Codec: H.264/MPEG4/JPEG
- Exmor HD CMOS Sensor, High Speed, Low Noise image sensor
- Auto Back Focus on all E series. EZ Focus, local and remote
- Motorized Zoom Adjustments on Mini Dome and Bullet cameras EZ Zoom, local and remote
- Analog output and ball joint mechanism for quick and easy installation.
- True Day/Night cameras with IR cut filter removal in B/W mode
- IK10 ratings on vandal resistant models: SNC-DH140T, SNC-DH240T, SNC-DH180, SNC-DH280
- IP66 rating on outdoor ready models with built-in IR: SNC-DH180, SNC-DH280, SNC-CH180, SNC-CH280
- AC24V/DC12V/POE for flexible power options

### V Series = Value Added Premium HD with Varifocal Lens
- Top-of-the-line cameras with value added features
- 1080p and 720p HD models. (3MP/1.3MP modes.)
- Dual Stream, Triple Codec: H.264/MPEG4/JPEG
- Exmor HD CMOS Sensor, High Speed, Low Noise image sensor
- View-DR™ Technology: Ultra Wide Dynamic Range for clear images in high contrast lighting conditions
- XDNR™ Technology: 2D/3D Dynamic Noise Reduction for better clarity with virtually no motion blur
- DEPA™ Advanced: built-in camera analytics
- 2-Way Audio with Echo Cancellation and Voice Alert function
- Auto Back Focus on all V series. EZ Focus, local and remote
- Motorized Zoom Adjustments on Mini Dome and Bullet cameras EZ Zoom, local and remote
- Analog output and ball joint mechanism for quick and easy installation. Full Video output
- True Day/Night cameras with IR cut filter removal in B/W mode
- IK10 ratings on vandal resistant models: SNC-DH140T, SNC-DH240T, SNC-DH180, SNC-DH280
- IP66 rating on outdoor ready models with built-in IR: SNC-DH180, SNC-DH280, SNC-CH180, SNC-CH280
- AC24V/DC12V/POE for flexible power options

### Z Series = IP and Analog-over-Coax Technology for Existing Analog CCTV Systems
- Cost-effective and environmentally-friendly surveillance systems that can be easily migrated from an analog CCTV system to an IP network-based system, making the most of any existing surveillance infrastructure
- Simultaneous use of IP HD video and analog SD video
- Utilization of the advanced features and functionalities offered by IP network cameras
- Extended cable length of up to 1,000 feet (300m) *
- Minimized latency of analog video for live monitoring

* *Cable length varies according to cable grade.*

All cameras in this sheet comply with UL2044.
### Analog Fixed Cameras

<table>
<thead>
<tr>
<th>Model name</th>
<th>SSC-FB560</th>
<th>SSC-FB530</th>
<th>SSC-G213A</th>
<th>SSC-G113A</th>
<th>SSC-G203A</th>
<th>SSC-G103A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Image device</strong></td>
<td>Optional CS mount lens available</td>
<td>Optional CS mount lens available</td>
<td>Optional CS mount lens available</td>
<td>Optional CS mount lens available</td>
<td>Optional CS mount lens available</td>
<td>Optional CS mount lens available</td>
</tr>
<tr>
<td><strong>Number of effective pixels (H x V)</strong></td>
<td>480,000 pixels (976x494)</td>
<td>480,000 pixels (976x494)</td>
<td>480,000 pixels (976x494)</td>
<td>480,000 pixels (976x494)</td>
<td>380,000 pixels (768 x 494)</td>
<td>380,000 pixels (768 x 494)</td>
</tr>
<tr>
<td><strong>Signal system</strong></td>
<td>NTSC standard</td>
<td>NTSC standard</td>
<td>NTSC standard</td>
<td>NTSC standard</td>
<td>NTSC standard</td>
<td>NTSC standard</td>
</tr>
<tr>
<td><strong>Horizontal resolution</strong></td>
<td>700 TV lines (sharp mode)</td>
<td>700 TV lines (sharp mode)</td>
<td>650 TV lines</td>
<td>650 TV lines</td>
<td>540 TV lines</td>
<td>540 TV lines</td>
</tr>
<tr>
<td><strong>IR illuminators</strong></td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Minimum illumination</strong></td>
<td>Color: 0.08 lx, B/W: 0.01 lx (F1.2/AGC ON/50 IRE); Color: 0.05 lx, B/W: 0.006 lx (F1.2/AGC ON/30 IRE)</td>
<td>Color: 0.08 lx, B/W: 0.01 lx (F1.2/AGC ON/50 IRE); Color: 0.05 lx, B/W: 0.003 lx (F1.2/AGC ON/30 IRE)</td>
<td>Color: 0.15 lx, B/W: 0.1 lx (F1.2, 50 IRE); Color: 0.08 lx, B/W: 0.03 lx (F1.2, 30IRE)</td>
<td>Color: 0.15 lx, B/W: 0.1 lx (F1.2, AGC ON, 50 IRE); Color: 0.08 lx, B/W: 0.03 lx (F1.2, AGC ON, 30 IRE)</td>
<td>Color: 0.15 lx, B/W: 0.1 lx (F1.2, 50 IRE); Color: 0.08 lx, B/W: 0.03 lx (F1.2, 30IRE)</td>
<td>Color: 0.15 lx, B/W: 0.1 lx (F1.2, 50 IRE); Color: 0.08 lx, B/W: 0.03 lx (F1.2, 30IRE)</td>
</tr>
<tr>
<td><strong>Day/Night</strong></td>
<td>Day/Night</td>
<td>Day/Night</td>
<td>Electrical D/N</td>
<td>Electrical D/N</td>
<td>Day/Night</td>
<td>Electrical D/N</td>
</tr>
<tr>
<td><strong>Wide Dynamic</strong></td>
<td>Yes/DynaViewSX</td>
<td>Yes/DynaViewSX</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Synchronization</strong></td>
<td>Internal/AC line lock selectable</td>
<td>Internal/AC line lock selectable</td>
<td>Internal/AC line lock selectable</td>
<td>Internal/AC line lock selectable</td>
<td>Internal/AC line lock selectable</td>
<td>Internal/AC line lock selectable</td>
</tr>
<tr>
<td><strong>Lens type (optional)</strong></td>
<td>CS mount lens</td>
<td>CS mount lens</td>
<td>CS mount lens</td>
<td>CS mount lens</td>
<td>CS mount lens</td>
<td>CS mount lens</td>
</tr>
<tr>
<td><strong>Power requirement</strong></td>
<td>AC 24 V ±10%, DC 12 V ±10%</td>
<td>AC 24 V ±10%, DC 12 V ±10%</td>
<td>AC 24 V ±10%, DC 12 V ±10%</td>
<td>AC 24 V ±10%, DC 12 V ±10%</td>
<td>AC 24 V ±10%, DC 12 V ±10%</td>
<td>AC 24 V ±10%, DC 12 V ±10%</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>14°F to 122°F (-10°C to +50°C)</td>
<td>14°F to 122°F (-10°C to +50°C)</td>
<td>14°F to 122°F (-10°C to +50°C)</td>
<td>14°F to 122°F (-10°C to +50°C)</td>
<td>14°F to 122°F (-10°C to +50°C)</td>
<td>14°F to 122°F (-10°C to +50°C)</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>2 1/2 x 2 1/4 x 3 1/2 inches (63 x 57 x 88 mm) without lens, not including projecting parts</td>
<td>2 1/2 x 2 1/4 x 3 1/2 inches (63 x 57 x 88 mm) without lens, not including projecting parts</td>
<td>4 3/4 x 2 1/2 x 2 3/8 inches (117.6 x 63.2 x 57.2 mm) without lens, not including projecting parts</td>
<td>4 3/4 x 2 1/2 x 2 3/8 inches (117.6 x 63.2 x 57.2 mm) without lens, not including projecting parts</td>
<td>4 3/4 x 2 1/2 x 2 3/8 inches (117.6 x 63.2 x 57.2 mm) without lens, not including projecting parts</td>
<td>4 3/4 x 2 1/2 x 2 3/8 inches (117.6 x 63.2 x 57.2 mm) without lens, not including projecting parts</td>
</tr>
</tbody>
</table>
# Analog Mini Dome Cameras

<table>
<thead>
<tr>
<th>Model name</th>
<th>SSC-FM560</th>
<th>SSC-FM530</th>
<th>SSC-N24A</th>
<th>SSC-N21A</th>
<th>SSC-N14A</th>
<th>SSC-N13A</th>
<th>SSC-N22A</th>
<th>SSC-N20A</th>
<th>SSC-N12A</th>
<th>SSC-N11A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Image device</strong></td>
<td>1/3-Type “Super HAD CCD II”&lt;br&gt;HAD CCD II</td>
<td>1/3-Type “Super HAD CCD II”&lt;br&gt;HAD CCD II</td>
<td>1/3-type “EXview HAD CCD II”&lt;br&gt;EXview HAD CCD II</td>
<td>1/3-type “EXview HAD CCD II”&lt;br&gt;EXview HAD CCD II</td>
<td>1/3-type “EXview HAD CCD II”&lt;br&gt;EXview HAD CCD II</td>
<td>1/3-type “EXview HAD CCD II”&lt;br&gt;EXview HAD CCD II</td>
<td>1/3-type “EXview HAD CCD II”&lt;br&gt;EXview HAD CCD II</td>
<td>1/3-type “Super HAD CCD II”&lt;br&gt;HAD CCD II</td>
<td>1/3-type “Super HAD CCD II”&lt;br&gt;HAD CCD II</td>
<td></td>
</tr>
<tr>
<td><strong>Number of effective pixels (H x V)</strong></td>
<td>480,000 pixels (976 x 494)</td>
<td>480,000 pixels (976 x 494)</td>
<td>480,000 pixels (976 x 494)</td>
<td>480,000 pixels (976 x 494)</td>
<td>480,000 pixels (976 x 494)</td>
<td>380,000 pixels (768 x 494)</td>
<td>380,000 pixels (768 x 494)</td>
<td>380,000 pixels (768 x 494)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Signal system</strong></td>
<td>NTSC standard</td>
<td>NTSC standard</td>
<td>NTSC standard</td>
<td>NTSC standard</td>
<td>NTSC standard</td>
<td>NTSC standard</td>
<td>NTSC standard</td>
<td>NTSC standard</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Horizontal resolution</strong></td>
<td>700 TV lines (sharp mode)</td>
<td>700 TV lines (sharp mode)</td>
<td>650 TV lines</td>
<td>650 TV lines</td>
<td>650 TV lines</td>
<td>650 TV lines</td>
<td>650 TV lines</td>
<td>540 TV lines</td>
<td>540 TV lines</td>
<td></td>
</tr>
<tr>
<td><strong>Minimum illumination</strong></td>
<td>Color: 0.1 lx, B/W: 0.01 lx (F1.2, 50 IRE); Color: 0.06 lx, B/W: 0.006 lx (F1.2, 30 IRE)</td>
<td>Color: 0.15 lx, B/W: 0.1 lx (F1.2, 50 IRE); Color: 0.08 lx, B/W: 0.03 lx (F1.2, 30 IRE)</td>
<td>Color: 0.15 lx, B/W: 0.1 lx (F1.2, 50 IRE); Color: 0.08 lx, B/W: 0.03 lx (F1.2, 30 IRE)</td>
<td>Color: 0.15 lx, B/W: 0.1 lx (F1.2, 50 IRE); Color: 0.08 lx, B/W: 0.03 lx (F1.2, 30 IRE)</td>
<td>Color: 0.15 lx, B/W: 0.01 lx (F1.2, 30 IRE)</td>
<td>Color: 0.15 lx, B/W: 0.1 lx (F1.2, 30 IRE); Color: 0.08 lx, B/W: 0.03 lx (F2.0, 30 IRE)</td>
<td>Color: 0.15 lx, B/W: 0.01 lx (F1.2, 30 IRE)</td>
<td>Color: 0.15 lx, B/W: 0.1 lx (F1.2, 30 IRE); Color: 0.08 lx, B/W: 0.03 lx (F2.0, 30 IRE)</td>
<td>Color: 0.15 lx, B/W: 0.01 lx (F1.2, 30 IRE)</td>
<td></td>
</tr>
<tr>
<td><strong>Day/Night</strong></td>
<td>Day/Night</td>
<td>Day/Night</td>
<td>Internal AC line lock selectable</td>
<td>Internal AC line lock selectable</td>
<td>Internal AC line lock selectable</td>
<td>Internal lock</td>
<td>Internal lock</td>
<td>Internal lock</td>
<td>Internal lock</td>
<td></td>
</tr>
<tr>
<td><strong>Synchronization</strong></td>
<td>Internal AC line lock selectable</td>
<td>Built-in variable focal lens</td>
<td>Built-in variable focal lens</td>
<td>Built-in variable focal lens</td>
<td>Built-in variable focal lens</td>
<td>Built-in variable focal lens</td>
<td>Built-in variable focal lens</td>
<td>Built-in variable focal lens</td>
<td>Built-in variable focal lens</td>
<td></td>
</tr>
<tr>
<td><strong>Horizontal viewing angle</strong></td>
<td>101.8° to 27.4°</td>
<td>101.8° to 27.4°</td>
<td>99.5° to 27.4°</td>
<td>99.5° to 27.4°</td>
<td>99.5° to 27.4°</td>
<td>99.5° to 27.4°</td>
<td>99.5° to 27.4°</td>
<td>99.5° to 27.4°</td>
<td>99.5° to 27.4°</td>
<td></td>
</tr>
<tr>
<td><strong>Focal length</strong></td>
<td>f=2.8 to 10.5 mm</td>
<td>f=2.8 to 10.5 mm</td>
<td>f=2.8 to 10.5 mm</td>
<td>f=6.0 mm</td>
<td>f=3.0 mm</td>
<td>f=2.8 to 10.5 mm</td>
<td>f=2.8 to 10.5 mm</td>
<td>f=6.0 mm</td>
<td>f=3.0 mm</td>
<td></td>
</tr>
<tr>
<td><strong>Pan angle</strong></td>
<td>355°</td>
<td>355°</td>
<td>355°</td>
<td>355°</td>
<td>355°</td>
<td>355°</td>
<td>355°</td>
<td>355°</td>
<td>355°</td>
<td></td>
</tr>
<tr>
<td><strong>Tilt angle</strong></td>
<td>±77°</td>
<td>±77°</td>
<td>±77°</td>
<td>±77°</td>
<td>±77°</td>
<td>±77°</td>
<td>±77°</td>
<td>±77°</td>
<td>±77°</td>
<td></td>
</tr>
<tr>
<td><strong>Swivel rotation</strong></td>
<td>350°</td>
<td>350°</td>
<td>350°</td>
<td>350°</td>
<td>350°</td>
<td>350°</td>
<td>350°</td>
<td>350°</td>
<td>350°</td>
<td></td>
</tr>
<tr>
<td><strong>Power requirement</strong></td>
<td>AC 24 V ±10%, DC 12 V ±10%</td>
<td>AC 24 V ±10%, DC 12 V ±10%</td>
<td>AC 24 V ±10%, DC 12 V ±10%</td>
<td>AC 24 V ±10%, DC 12 V ±10%</td>
<td>AC 24 V ±10%, DC 12 V ±10%</td>
<td>AC 24 V ±10%, DC 12 V ±10%</td>
<td>AC 24 V ±10%, DC 12 V ±10%</td>
<td>AC 24 V ±10%, DC 12 V ±10%</td>
<td>AC 24 V ±10%, DC 12 V ±10%</td>
<td></td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>14 °F to 122 °F&lt;br&gt;(-10 °C to +50 °C)</td>
<td>14 °F to 122 °F&lt;br&gt;(-10 °C to +50 °C)</td>
<td>14 °F to 122 °F&lt;br&gt;(-10 °C to +50 °C)</td>
<td>14 °F to 122 °F&lt;br&gt;(-10 °C to +50 °C)</td>
<td>14 °F to 122 °F&lt;br&gt;(-10 °C to +50 °C)</td>
<td>14 °F to 122 °F&lt;br&gt;(-10 °C to +50 °C)</td>
<td>14 °F to 122 °F&lt;br&gt;(-10 °C to +50 °C)</td>
<td>14 °F to 122 °F&lt;br&gt;(-10 °C to +50 °C)</td>
<td>14 °F to 122 °F&lt;br&gt;(-10 °C to +50 °C)</td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>ø 3 3/8 inches x 2 1/8 inches (ø 84 mm x 53 mm)</td>
<td>ø 3 3/8 inches x 2 1/8 inches (ø 84 mm x 53 mm)</td>
<td>ø 4 7/8 x 3 1/2 inches (ø 85.2 mm x 63.5 mm)</td>
<td>ø 4 7/8 x 3 1/2 inches (ø 85.2 mm x 63.5 mm)</td>
<td>ø 4 7/8 x 3 1/2 inches (ø 85.2 mm x 63.5 mm)</td>
<td>ø 4 7/8 x 3 1/2 inches (ø 85.2 mm x 63.5 mm)</td>
<td>ø 4 7/8 x 3 1/2 inches (ø 85.2 mm x 63.5 mm)</td>
<td>ø 4 7/8 x 3 1/2 inches (ø 85.2 mm x 63.5 mm)</td>
<td>ø 4 7/8 x 3 1/2 inches (ø 85.2 mm x 63.5 mm)</td>
<td></td>
</tr>
</tbody>
</table>
Surveillance Video Encoders

## Scalability

### Blade Type (Space saving, scalable solution)
- **SNT-EX154** (4CH) (Full)
- **SNT-EP154** (4CH) (Basic)

### Box Type (Stand-alone, quick solution)
- **SNT-EX104** (4CH)
- **SNT-EP104** (4CH) (Basic)
- **SNT-EX101** (1CH)
- **SNT-EP101** (1CH) (Basic)

### Optional Accessory
- **SNTA-RP1**

### Rack Station
- **SNT-RS1U**
  - Accepts up to 4 blade encoders (up to 16 ch)
  - Universal power capability
  - AC 100V - AC240V, 50/60 Hz
- **SNT-RS3U**
  - Accepts up to 12 blade encoders (up to 48 ch)
  - Universal power capability
  - AC 100V - AC240V, 50/60 Hz

### Number of Channels
- 1CH
- 4CH
- 16CH
- 48CH
<table>
<thead>
<tr>
<th></th>
<th>Full Function</th>
<th>Basic Function</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Codec image size (HxV)</strong></td>
<td>D1 (NTSC: 720 x 480), VGA (640 x 480), CIF (384 x 288), QVGA (320 x 240)</td>
<td>D1 (NTSC: 720 x 480), VGA (640 x 480), CIF (384 x 288), QVGA (320 x 240)</td>
</tr>
<tr>
<td><strong>Video compression format</strong></td>
<td>H.264, MPEG-4, JPEG</td>
<td>H.264, MPEG-4, JPEG</td>
</tr>
<tr>
<td><strong>Codec streaming capability</strong></td>
<td>Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format)</td>
<td>Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format)</td>
</tr>
<tr>
<td><strong>Maximum frame rate</strong></td>
<td>H.264/MPEG-4/JPEG: 30fps (NTSC: 720 x 480)</td>
<td>H.264/MPEG-4/JPEG: 30fps (NTSC: 720 x 480)</td>
</tr>
<tr>
<td><strong>PTZ control</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Visibility Enhancer</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Noise reduction</strong></td>
<td>XDRN</td>
<td>XDRN</td>
</tr>
<tr>
<td><strong>Coaxitron® control</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Serial interface</strong></td>
<td>RS-422/RS-485</td>
<td>RS-485</td>
</tr>
<tr>
<td><strong>USB memory slots</strong></td>
<td>x 1*</td>
<td>x 1*</td>
</tr>
<tr>
<td><strong>Sensor input</strong></td>
<td>x 2</td>
<td>x 2</td>
</tr>
<tr>
<td><strong>Alarm output</strong></td>
<td>x 2</td>
<td>x 2</td>
</tr>
<tr>
<td><strong>Audio interface (IN/OUT)</strong></td>
<td>IN x 1, OUT x 1</td>
<td>IN x 1, OUT x 1</td>
</tr>
<tr>
<td><strong>Audio support</strong></td>
<td>Yes - Full Duplex</td>
<td>Yes - Full Duplex</td>
</tr>
<tr>
<td><strong>DEPA Advanced (Intelligence)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions (W x H x D)</strong></td>
<td>2 7/8 x 1 3/8 x 6 1/8 inches (73 x 34 x 155 mm)</td>
<td>3 1/8 x 1 3/8 x 15 1/8 inches (78 x 34 x 382 mm)</td>
</tr>
<tr>
<td><strong>Power requirements</strong></td>
<td>AC 24V in, with loop through output. Input: AC 24V, +/- 20%</td>
<td>PoE (Class 2)</td>
</tr>
</tbody>
</table>

*1 USB slots are inside the chassis, not on the front or rear panels.

These products include software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org/)

All encoders in this sheet comply with UL60950-1. (Except SNT-EP154/EX154/)

*1 4CH Blade (SNT-EX154) is not available in this sheet.
# Network Surveillance Recording Servers

<table>
<thead>
<tr>
<th>Feature</th>
<th>NSR-500</th>
<th>NSR-S20 (2TB)</th>
<th>NSR-S20 (Without HDD)</th>
<th>NSR-S10 (1TB)</th>
<th>NSR-S10 (Without HDD)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Video/Recording</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of cameras supported</td>
<td>Max. 16</td>
<td>Max. 8</td>
<td>Max. 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Max. 24ch w/NSBK-CL05) (P/Analog total)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of analog cameras</td>
<td>Option (NSBK-EB05)</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Video compression (Analog camera)</td>
<td>Option (NSBK-EB05)</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recording frame rate</td>
<td>480fps</td>
<td>120fps</td>
<td>60fps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(at H.264, Full-HD, 4Mbps)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hard disk drives (Physical capacity)</td>
<td>Up to 12TB (2TB x 6)</td>
<td>2TB</td>
<td>No HDD</td>
<td>1TB (1TB x 1)</td>
<td>No HDD</td>
</tr>
<tr>
<td>Hard disk drives (RAID level)</td>
<td>RAID 0, 1, 10 (1+4), 5, 5+ hot spare</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optical disc drive</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Expansion storage</td>
<td>iSCSI storage (max. 16TB)</td>
<td>e-SATA storage (max. 4TB)</td>
<td>e-SATA storage (max. 4TB)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monitor OUT 1</td>
<td>Analog RGB (D-sub 15-pin) x 1</td>
<td>Analog RGB (D-sub 15-pin) x 1</td>
<td>Analog RGB (D-sub 15-pin) x 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monitor OUT 2</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Audio Output</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audio OUT</td>
<td>Stereo mini jack x 1</td>
<td>Terminal connector x 1</td>
<td>Terminal connector x 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sensor Input/Alarm Output</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensor input</td>
<td>Compatible with DC3.3V to 24V, photo coupler input x 8 (insulated from main unit)</td>
<td>Terminal connector x 4</td>
<td>Terminal connector x 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alarm output</td>
<td>Max. DC 24V/1A, mechanical relay output x 8 (insulated from main unit)</td>
<td>Terminal connector x 1</td>
<td>Terminal connector x 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Other Interfaces</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethernet</td>
<td>1000BASE-T (1/100BASE-Tx/100BASE-T x 2)</td>
<td>1000BASE-T (1/100BASE-Tx/100BASE-T x 2)</td>
<td>1000BASE-T (1/100BASE-Tx/100BASE-T x 2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USB</td>
<td>USB2 0 x 2 (Front), USB2 0 x 2 (Rear)</td>
<td>USB2 0 x 1 (Front), USB2 0 x 2 (Rear)</td>
<td>USB2 0 x 1 (Front), USB2 0 x 2 (Rear)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Serial interface for UPS</td>
<td>RS-232C : D-sub 9-pin x 1</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Serial interface (for analog camera control)</td>
<td>RS-422/485 x 1, RS-422/485 x 1</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>17 3/8 x 3 1/2 x 15 1/2 inches (440 x 89 x 392mm)</td>
<td>9 3/4 x 2 1/8 x 6 3/8 inches (245 x 53 x 160mm)</td>
<td>9 3/4 x 2 1/8 x 6 3/8 inches (245 x 53 x 160mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 20 lb 12 oz (9.4 kg) (Without HDD model)</td>
<td>Approx. 3 lb 1 oz (1.4 Kg)</td>
<td>Approx. 1 lb 12 oz (0.8 Kg)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power requirements</td>
<td>100V to 127V AC / 200V to 240V (50/60Hz)</td>
<td>DC 12V (AC adapter: 100V to 240V AC, 50/60Hz)</td>
<td>DC 12V (AC adapter: 100V to 240V AC, 50/60Hz)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power consumption</td>
<td>max. 250W</td>
<td>Approx. 36W</td>
<td>Approx. 36W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>100-240V 3.5-1.5A</td>
<td>DC 12V (AC adapter: 100V to 240V AC, 50/60Hz)</td>
<td>DC 12V (AC adapter: 100V to 240V AC, 50/60Hz)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>100-240V 3.5-1.5A</td>
<td>DC 12V (AC adapter: 100V to 240V AC, 50/60Hz)</td>
<td>DC 12V (AC adapter: 100V to 240V AC, 50/60Hz)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional accessories</td>
<td>NSBK-DH05, NSBK-EB05, NSBK-CU05, NSBK-HS05-01, NSBK-HS05-02, RM-NS1000</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*1: More than one connector cannot be used at a time. *2: VISCA and Pelco-D are supported and recorded. So display out is used for making settings.

The NSR-500 Series complies with UL60950-1
Intelligent Monitoring Software

RealShot™ Manager Advanced and RealShot Manager Lite

<table>
<thead>
<tr>
<th>Specifications</th>
<th>IMZ-NS101</th>
<th>IMZ-NS104</th>
<th>IMZ-NS109</th>
<th>IMZ-NS116</th>
<th>IMZ-NS132</th>
<th>RSM Lite (Free Software)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video compression</td>
<td>H.264/MPEG-4/JPEG</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audio compression</td>
<td>G.711/G.726</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of clients to be connected (Recommendation)</td>
<td>10</td>
<td>4</td>
<td>9</td>
<td>16</td>
<td>32</td>
<td>9</td>
</tr>
<tr>
<td>Number of cameras to be supported</td>
<td>1</td>
<td>4</td>
<td>9</td>
<td>16</td>
<td>32</td>
<td>9</td>
</tr>
<tr>
<td>Number of audio to be supported</td>
<td>1</td>
<td>4</td>
<td>9</td>
<td>16</td>
<td>32</td>
<td>9</td>
</tr>
</tbody>
</table>

*1: The figures in the table are recommended numbers of clients to assure high performance. It is technically possible to connect more clients to a server, but such increase may deteriorate the overall performance.

*2: It is possible to operate with combining multiple licenses.

System Requirements

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>Intel Core™ 2 Duo 2.0-GHz or higher</td>
</tr>
<tr>
<td>Main memory</td>
<td>1 GB or more (2 GB Recommended)</td>
</tr>
<tr>
<td>HDD</td>
<td>2 GB spare capacity</td>
</tr>
<tr>
<td>Video card</td>
<td>1024 x 768, 16/24 bit color</td>
</tr>
<tr>
<td>Network interface card (NIC)</td>
<td>100BASE-TX or higher</td>
</tr>
<tr>
<td>Display (Resolution)</td>
<td>1024 x 768 or higher</td>
</tr>
<tr>
<td>Optional accessories</td>
<td>RM-NS1000 (System Controller)</td>
</tr>
</tbody>
</table>

* The figures in the table are recommended numbers of clients to assure high performance. It is technically possible to connect more clients to a server, but such increase may deteriorate the overall performance.

*2: It is possible to operate with combining multiple licenses.
XI’s - Wide Area Monitoring Solutions

The Sony XI’s wide area monitoring system acts as ‘extra eyes’ to monitor for potentially threatening activities 24/7/365.

The XI’s system efficiently captures images over an extremely wide area from a single location. It can analyze the changes or movement in a large panoramic image using a sophisticated detection algorithm. This enables the operator to quickly check situation detail, and take appropriate action.

### Application Examples

#### Airport

- Fence (Perimeter) Surveillance
- Coastal Surveillance
- Critical Area Protection
- FOD (Foreign Object Debris) Detection

#### Port / Coastal Guard

- Vessel Traffic Control (Monitoring)
- Accident Recording
- Coastal Surveillance
- Detection of Swimmers

#### Defense / Border

- Intruder Base Protection
- Coastal Surveillance
- Border Protection

---

### The XI’s System

- **Image Sensor**
  - Size: 1/2-inch
  - Type: HD, 3CCD
  - Uncooled pyroelectric element (VOx)
- **Picture size (H x V)**
  - 1440 x 1080
  - 640 x 480
- **NETD – Camera**: <0.2 °C, Imager: <0.075 °C
- **Camera**
  - Shutter speed: 2 to 1/10000 sec.
  - Gain: -3 to +48 dB
  - Yes (DC level control)
  - White balance: One Push/Auto/Manual
  - Black balance: One Push/Manual
  - Minimum illumination: 0.014 lx (F3, +48 dB gain, Slow shutter; 64 Frame)
- **Camera Pan/Tilt**
  - Pan speed: 180°/sec
  - Tilt speed: 30°/sec
- **Lens**
  - Zoom ratio: 19x optical zoom
  - Focal length: f = 12.7 to 241 mm
  - F-number: F3 (Wide), F3.9 (Tele)
  - Minimum object distance: 1 m to ∞
- **General**
  - Weight: Less than 90 lb 6 oz (45 kg)
  - Dimensions (W x H x D): 12 1/8 x 17 1/4 x 34 5/8 inches (307 x 438 x 876 mm)
  - Power requirements: UC: AC 120 V, SY: AC 100 to 120 V, E: AC 220 to 240 V
  - Power consumption: 190 W
  - Operating temperature: -4°F to +122°F (20°C to +50°C)
  - (-4°F to +14°F / -20°C to -10°C: constant power on)
  - Dust/Water protection: IEC60529 (IP66)

---

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---

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- Uncooled pyroelectric element (VOx)

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- Gain: -3 to +48 dB
- Yes (DC level control)
- White balance: One Push/Auto/Manual
- Black balance: One Push/Manual
- Minimum illumination: 0.014 lx (F3, +48 dB gain, Slow shutter; 64 Frame)

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- Pan speed: 180°/sec
- Tilt speed: 30°/sec

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- Focal length: f = 12.7 to 241 mm
- F-number: F3 (Wide), F3.9 (Tele)
- Minimum object distance: 1 m to ∞
Wide-D is a powerful feature to compensate for scenes with extremely poor contrast. Electrical D/N is a technology to make the image more visible in low-light conditions by removing the chroma signal to produce a B/W image. A day/night camera has two modes of operation: a day mode and a night mode. Day/Night cameras have two modes of operation: day mode and night mode. A day/night camera has two modes of operation: a day mode and a night mode. An IK10-rated camera can withstand the impact of 20 Joules, meaning the camera will withstand the impact of a 5 kg weight dropped on it from a height of 40 cm. The camera switches from day mode (Color) to night mode (B/W) by replacing its infrared-cut filter with a clear filter. In night mode, the camera becomes sensitive to near-IR light and is capable of reproducing images even when the scene is not visible to the naked eye. The camera can reproduce clear and bright images in very low-light conditions, while keeping noise at a minimal level. XDNR™ Technology (eXcellent Dynamic Noise Reduction) XDNR is Sony’s latest technology for noise reduction in IP security cameras. XDNR utilizes 2D and 3D noise reduction methods adaptively to scenes. Under low-light conditions, XDNR technology provides clear images for both moving objects and still portions of the image, using 2DNR and 3DNR, respectively. This method provides clear images while minimizing motion blur which is a challenge in any outdoor surveillance monitoring applications, such as in parking lots. View-DR™ Technology View-DR is Sony’s latest technology to produce images with an extremely wide dynamic range. View-DR is a combination of Sony’s full-capture Wide-D technology, the high-speed Exmor CMOS sensor, and Visibility Enhancer (VE). The full-capture Wide-D technology used in View-DR technology uses an electronic shutter to capture multiple images, to reproduce each frame. One image is taken using a ‘standard’ exposure time and either one or three images are taken using very short exposure times depending on the camera type. With the newly developed View-DR algorithm, all of the electrons converted from the captured light is fully used by the imager, which is different from DynaView technology and some other Wide-D technologies in the industry that discard approximately ½ of the electrons. As a result, View-DR nearly doubles the sensitivity compared to conventional Wide-D technologies. To capture multiple HD resolution images at a very high speed, the “Exmor” CMOS sensor was adopted because of its high-speed readout characteristics. During the process of combining multiple images, the Visibility Enhancer (VE) is employed to provide a high level of chrominance and luminance. With View-DR, the monitored images become very visible – sometimes even more than when viewed with our naked eyes. VE is one of Sony’s new technologies that optimizes contrast and makes a scene more visible. It is ideal for scenes where objects are hard to recognize due to severe backlight or shadows. VE optimizes the brightness and color reproduction of an image dynamically on a pixel-by-pixel basis while continuously adapting to the scene. Technically, VE stretches the contrast in both the backlight portions and the shadows within the given dynamic range, which is different from Wide-D. VE also contributes to the high sensitivity of the camera. By combining VE with XDNR, the camera can reproduce clear and bright images in very low-light conditions, while keeping noise at a minimal level. Visibility Enhancer (VE) Electrical D/N is a technology to make the image more visible in low-light conditions by removing the chroma signal to produce a B/W image. Glossary

**Electrical D/N**

Electrical D/N is a technology to make the image more visible in low-light conditions by removing the chroma signal to produce a B/W image.

**Wide-D**

State-of-the-art technologies to expand the video dynamic range of the camera to improve the visibility of images even in extremely high-contrast environments. Wide-D is a powerful feature to compensate for scenes with extremely poor contrast.

**View-DR™ Technology**

View-DR is Sony’s latest technology to produce images with an extremely wide dynamic range. View-DR is a combination of Sony’s full-capture Wide-D technology, the high-speed Exmor CMOS sensor, and Visibility Enhancer (VE). The full-capture Wide-D technology used in View-DR technology uses an electronic shutter to capture multiple images, to reproduce each frame. One image is taken using a ‘standard’ exposure time and either one or three images are taken using very short exposure times depending on the camera type. With the newly developed View-DR algorithm, all of the electrons converted from the captured light is fully used by the imager, which is different from DynaView technology and some other Wide-D technologies in the industry that discard approximately ½ of the electrons. As a result, View-DR nearly doubles the sensitivity compared to conventional Wide-D technologies. To capture multiple HD resolution images at a very high speed, the “Exmor” CMOS sensor was adopted because of its high-speed readout characteristics. During the process of combining multiple images, the Visibility Enhancer (VE) is employed to provide a high level of chrominance and luminance. With View-DR, the monitored images become very visible – sometimes even more than when viewed with our naked eyes. VE is one of Sony’s new technologies that optimizes contrast and makes a scene more visible. It is ideal for scenes where objects are hard to recognize due to severe backlight or shadows. VE optimizes the brightness and color reproduction of an image dynamically on a pixel-by-pixel basis while continuously adapting to the scene. Technically, VE stretches the contrast in both the backlight portions and the shadows within the given dynamic range, which is different from Wide-D. VE also contributes to the high sensitivity of the camera. By combining VE with XDNR, the camera can reproduce clear and bright images in very low-light conditions, while keeping noise at a minimal level.

**Visibility Enhancer (VE)**

VE is one of Sony’s new technologies that optimizes contrast and makes a scene more visible. It is ideal for scenes where objects are hard to recognize due to severe backlight or shadows. VE optimizes the brightness and color reproduction of an image dynamically on a pixel-by-pixel basis while continuously adapting to the scene. Technically, VE stretches the contrast in both the backlight portions and the shadows within the given dynamic range, which is different from Wide-D. VE also contributes to the high sensitivity of the camera. By combining VE with XDNR, the camera can reproduce clear and bright images in very low-light conditions, while keeping noise at a minimal level.

**DEPA™ System**

With a Sony DEPA system, DEPA-enabled cameras send not only video images but also related metadata, including object data (size and position) to the DEPA-enabled recorder. Since part of the image processing is done on the camera side, the load to the recorder can be reduced enabling camera expansion. Conventional video analytic systems, on the other hand, process images solely on the recorder side often causing CPU overload.

**DEPA Advanced**

DEPA Advanced is an enhanced DEPA technology. Unlike DEPA, a camera incorporating DEPA Advanced completes the entire DEPA analysis such as intrusion detection with a virtual borderline on the camera side, and sends only an alarm to the recorder. Enhancements also include a tamper alarm, shadow cancellation, a beam intrusion detector, and audio analysis. Since the analytic processing is completed in the camera, end users can benefit from DEPA Advanced because it can be easily integrated with a variety of recorders and/or video management solutions.

**ONVIF™ Software**

ONVIF software defines a common protocol for the exchange of information between different network video devices regardless of manufacturer, and achieves greater interoperability in multi-vendor network video systems.

**PoE (Power-over-Ethernet, IEEE 802.3af)**

PoE enables networked devices to receive power up to 12.95 W from PoE-enabled equipment through the same Ethernet cable that transports data. It provides substantial savings in installation costs and can simplify the installation process.

**hPoE (High PoE, IEEE 802.3at)**

hPoE enables networked devices to receive power up to 25 W from hPoE-enabled equipment through the same Ethernet cable that transports data. hPoE is useful especially for PTZ/Rapid Dome cameras that require motor control.

**IK10**

The IK rating system classifies the level of protection provided by electrical appliances against external impacts from the outside. An IK10-rated camera can withstand the impact of 20 Joules, meaning the camera will withstand the impact of a 5 kg weight dropped on it from a height of 40 cm.

**Day/Night**

A day/night camera has two modes of operation: a day mode and a night mode. The camera switches from day mode (Color) to night mode (B/W) by replacing its infrared-cut filter with a clear filter. In night mode, the camera becomes sensitive to near-IR light and is capable of reproducing images even when the scene is not visible to the naked eye.
3-Year Warranty for HD Network Cameras
Encoders and Accessories

The Sony Security Products 3-year warranty covers labor and materials for repair of defective IPELA™ ‘SNC’ cameras, ‘SNT’ encoders and ‘UNI’ accessories purchased within the United States on or after July 1, 2010. Offer excludes discontinued models and accessories for a period of three years from the date of purchase. For more details, please visit sony.com/security or contact your Sony Sales Representative.