

# SONY

## SRG Series

Full-HD PTZ Remote Camera

*Exmor*

*View-DR*

Full HD  
1080



SRG-300SE



SRG-300SE



SRG-300H



SRG-300H



SRG-360SHE



SRG-120DS



SRG-120DH



SRG-120DU

Sony is expanding its renowned Pan/Tilt/Zoom camera family with the introduction of its new SRG Series cameras. The SRG-360SHE and SRG-120DS are new PTZ camera models in the SRG line-up. These cameras achieve superb picture quality utilizing Sony's latest imaging technology and 1080/60p resolution, and deliver reliability with field-proven operability. The SRG-360SHE is a desktop or ceiling-mountable remote camera with an amazingly high 30x optical zoom capability. The SRG-120DS is a desktop remote camera with 12x optical zoom and an exceptional 71-degree horizontal viewing angle. These cameras are ideal for a range of applications including lecture capture, telemedicine, remote shooting, and video conferencing applications.



## Superb full-HD 1080/60p video with high picture quality

SRG Series cameras provide superior picture quality by incorporating a sophisticated 1/2.8-type Exmor CMOS image sensor. They provide smooth, crisply detailed, full-HD (1920 x 1080/60p) images with extremely low noise. High frame rate (60 fps) operation ensures smoother, more fluid reproduction of moving subjects. In addition, outstanding View-DR™ technology expands the dynamic range for clear images under harsh backlighting with extremes of light and dark in the same scene. XDNR™ technology reduces image noise for crisp reproduction of still and moving objects in poorly illuminated rooms.



Without View-DR function



With View-DR function

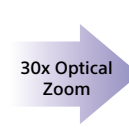
\* Simulated images

## Powerful optical zoom and wide viewing angle

The SRG-360SHE, SRG-300SE, and SRG-300H provide up to a 30x optical zoom capability and 12x digital zoom for frame-filling close-ups with every detail seen clearly. Responsive autofocus ensures that images stay clear and sharp, even at high zooming settings. And the SRG-120DS, SRG-120DH, and SRG-120DU provide up to a 12x optical zoom capability and 12x digital zoom. In addition, a wide horizontal viewing angle maximizes effectiveness in the boardroom, particularly when there are many participants. These cameras are ideal for large meeting rooms and auditoriums. The SRG-360SHE, SRG-300SE, and SRG-300H support a horizontal viewing angle of 65 degrees, and the SRG-120DS, SRG-120DH, and SRG-120DU support 71 degrees.



Wide-end



Tele-end

\* Simulated images

## VISCA-over-IP

SRG Series cameras can be controlled via the VISCA™ protocol over IP connections. They are also compatible with Sony's RM-IP10 IP Remote Controller to enable comfortable pan, tilt, and zoom operation with an optical three-axis joystick. In addition, you can control up to 112 cameras over IP connections by using five remote controllers.

## Enhanced audio quality with equalizer and auto lip-sync function

Providing great intelligibility, the SRG-360SHE enhances stereo audio from a connected stereo microphone (optional) or line inputs by using the onboard equalizer and auto level control. Unwanted signal delays between audio and video are compensated for by the auto lip-sync function. The SRG-300SE is equipped with two-way monaural audio input interfaces: an external LINE input and a MIC input.\*

\* The LINE and MIC are selectable.

## Series Comparison

|            | 3G-SDI | HDMI | IP Streaming | IP Control | USB 3.0 | Desktop mountable | Ceiling mountable |
|------------|--------|------|--------------|------------|---------|-------------------|-------------------|
| SRG-360SHE | Yes    | Yes  | Yes          | Yes        | No      | Yes               | Yes               |
| SRG-300SE  | Yes    | No   | Yes          | Yes        | No      | Yes               | Yes               |
| SRG-300H   | No     | Yes  | No           | Yes        | No      | Yes               | Yes               |
| SRG-120DS  | Yes    | No   | No           | Yes        | No      | Yes               | No                |
| SRG-120DH  | No     | Yes  | No           | Yes        | No      | Yes               | No                |
| SRG-120DU  | No     | No   | No           | Yes        | Yes     | Yes               | No                |

### Enhanced PTZ operation

The SRG-360SHE can be operated with quiet and rapid motion to the target position over a wide pan/tilt angle range because of its powerful direct-drive motor. This PTZ 'synchronization' capability enables professional-looking transitions with smooth coordinated camera motion. The pan/tilt speed can be set to 'Slow' for precise tracking, and a sequence of camera positions can be stored and recalled as a preset 'Trace'.

### PoE+ for flexible powering options

For installation simplicity and flexibility, the SRG-360SHE supports a PoE+ (Power-over-Ethernet) capability that carries IP video/audio control and power over a single connection cable.

### Simultaneous transmission of 3G-SDI, HDMI, and IP H.264 full-HD video

The SRG-360SHE supports triple streaming outputs. This camera can simultaneously output 1080/60p baseband video through 3G-SDI, HDMI, and a H.264-compressed video/audio stream via IP. This triple streaming capability makes the camera ideal for webcasting, viewing and simultaneously recording conferences, lectures, seminars, and other live events.

### Up to 256 camera preset positions\*

The SRG-360SHE and SRG-300SE support up to 256 camera preset positions using a plug-in free viewer and ActiveX viewer.

The SRG-300H, SRG-120DS, SRG-120DH, and SRG-120DU also support up to 16 camera preset positions. And six positions can be controlled via a supplied IR remote commander unit.

\* Position numbers from 17 to 256 are stored only in PTZF.



SRG-360SHE

### Simply connect with a variety of interfaces

For easy operability, you can connect SRG-120 Series cameras to a computer using a broad range of interfaces. The SRG-120DS is equipped with the following interfaces: 3G-SDI, SRG-120DH with HDMI, and SRG-120DU with USB 3.0.

The SRG-120DU provides a super-speed data transfer capability of up to 5 Gbps via USB 3.0 to transfer uncompressed video signals at 1080/60p resolution.

### Other features

#### High sensitivity

Minimum illumination is 1.4 lx with the SRG-360SHE, SRG-300SE, and SRG-300H and 1.8 lx with the SRG-120DS, SRG-120DH, and SRG-120DU. This superb sensitivity enables image capture in low light environments.

#### Compact and stylish body

Their all-in-one compact and lightweight design makes these cameras easy to install in a variety of locations.

#### Quick and silent P/T/Z

SRG Series cameras feature fast and silent pan, tilt, and zoom capabilities. This is ideal for use in noise-restricted environments such as houses of worship, classrooms, and meeting rooms.

## Optional accessory

### RM-IP10: IP Remote Controller

- Comfortable P/T/Z operation with the optical three-axis joystick
- Versatile camera adjustment by simple panel operation
- Up to 112 camera units can be controlled from one remote control unit
- Up to 16 camera positions can be preset and recalled



# Specifications



|                                 | SRG-360SHE   | SRG-300SE | SRG-300H  | SRG-120DS  | SRG-120DH   | SRG-120DU |
|---------------------------------|--|-----------|---|--|---|-----------|
| <b>Camera</b>                   |  |           |   |  |   |           |
| Image Sensor                    | 1/2.8 Exmor CMOS   |           |   |  |   |           |
| Effective Pixels                | Approx. 2.1 Megapixels   |           |   |  |   |           |
| Lens                            | 30x Optical/12x Digital Zoom Lens<br>Focal Length: f=4.3 mm (wide) to 129 mm (tele)<br>Focal Length F: F1.6 to 4.7                               |           |   | 12x Optical/12x Digital Zoom Lens<br>Focal Length - 3.9 mm (wide) to 46.8 mm (tele)<br>Focal Length F: F1.8 to 2.0 |   |           |
| Minimum Object Distance         | 10 mm (wide end) / 1200 mm (tele end)  |           |   | 10 mm (wide end) / 1500 mm (tele end)  |   |           |
| Auto Exposure                   | Auto, Manual, Priority, AE (shutter, iris), Exposure Compensation, Blight  |           |   |  |   |           |
| Shutter Speed                   | 1/1 to 1/10000 sec (59.94 Hz system), 1/1 to 1/10000 sec (50 Hz system)  |           |   |  |   |           |
| Gain                            | Auto/Manual (0 to +43 db)  |           |   |  |   |           |
| White Balance                   | Auto, Indoor, Outdoor, One-push auto, ATW, Manual  |           |   |  |   |           |
| Pan Angle/Speed                 | Angle: ± 170 degrees, Speed: 60 degrees/sec  |           | Angle: ± 170 degrees, Speed: 100 degrees/sec  |  | Angle: ± 100 degrees, Speed: 300 degrees/sec  |           |
| Tilt Angle/Speed                | Angle: +90 degrees / -30 degrees, Speed: 60 degrees/sec  |           | Angle: +90 degrees / -20 degrees, Speed: 90 degrees/sec   |  | Angle: ± 25 degrees, Speed: 126 degrees/sec   |           |
| Horizontal Viewing Angle        | 65 degrees (wide)  |           |   | 71 degrees (wide)  |   |           |
| Digital Zoom                    | 12 x   |           |   |  |   |           |
| Preset Positions                | 256 - Position number 17 to 256 are stored as PTZF only  |           |   | 16 presets   |   |           |
| Focus System                    | Auto/Manual  |           |   |  |   |           |
| Sync System                     | INT  |           |   |  |   |           |
| Wide Dynamic Range              | Yes (View-DR)  |           |   |  |   |           |
| <b>Interface</b>                |  |           |   |  |   |           |
| Camera Control Interface        | VISCA protocol with built-in IP control  |           |   |  |   |           |
| RS-422 Serial Interface (RJ-45) | RS-422 Serial Interface  |           | Camera Control Interface: RJ-45 / RS-232C / RS-422  |  | Camera Control Interface: RJ-45 / RS-232C   |           |
| Audio Input                     | MIC/Line x2 (selectable)   |           | MIC (mini) x1, Line (RCA) x1  |  | No  |           |
| IP streaming                    | Yes (RTSP)   |           | Yes (RTSP)  |  | No  |           |
| Audio embedded                  | Yes (3G-SDI, HDMI, IP)   |           | Yes (IP)  |  | No  |           |
| <b>Video Output</b>             |  |           |   |  |   |           |
| Minimum Illumination            | 1.4 lx (50 IRE, F1.6, 30 fps)  |           |   | 1.8 lx (50 IRE, F1.8, 30 fps)  |   |           |
| S/N Ratio                       | 50 dB  |           |   |  |   |           |
| Video Output                    | 3G-SDI / HDMI  |           | 3G-SDI (HD-SDI compatible)  |  | HDMI  |           |
| Signal System                   | 1080/59.94p (A/B), 50p (A/B)<br>1080/59.94i, 50i<br>720/59.94p, 50p  |           | 1080/59.94p (A/B), 50p (A/B), 29.97p, 25p<br>1080/59.94i, 50i<br>720/59.94p, 50p, 29.97p, 25p                             |  | 1080/59.94p (A/B), 50p (A/B), 29.97p, 25p<br>1080/59.94i, 50i<br>720/59.94p, 50p, 29.97p, 25p   |           |
|                                 |  |           |   |  | 1080/59.94p, 50p, 29.97p, 25p<br>1080/59.94i, 50i<br>720/59.94p, 50p, 29.97p, 25p   |           |
|                                 |  |           |   |  | 720/59.94p, 50p, 29.97p, 25p  |           |
|                                 |  |           |   |  | 1080/59.54p, 50p, 29.87p, 25p<br>-<br>720/59.94p, 50p, 29.97p, 25p  |           |
| <b>General</b>                  |  |           |   |  |   |           |
| Dimensions (W x H x D)          | 159 x 187.5 x 200.5 mm (6 3/8 x 7 1/2 x 8 inches)  |           | 157 x 164 x 163 mm (6 1/4 x 6 1/2 x 6 1/2 inches)   |  | 153 x 156 x 153 mm (6 1/8 x 6 1/4 x 6 1/8 inches)   |           |
| Mass                            | Approx. 2.1 kg (4 lb 10 oz)  |           | Approx. 1.4 kg (3 lb 1.4 oz)  |  | Approx. 1.45 kg (3 lb 3.1 oz)   |           |
| Power Requirements              | DC 12V (DC 10.8 V to 13.2V)  |           |   |  |   |           |
| PoE                             | PoE+   |           | No  |  |   |           |
| Power Consumption               | Max 30 W   |           | 16.8 W  |  |   |           |
| Operating Temperature           | 0°C to 40°C / 32°F to 104°F  |           |   |  |   |           |
| Storage Temperature             | -20°C to +60°C / -4°F to 140°F   |           |   |  |   |           |
| Supplied accessories            | IR remote commander (1), AC power adaptor (1), Ceiling bracket (2), Wire rope (1), HDMI cable retainer (1), Screw M3 x 8 (9), Screw M2.6 x 6 (1) |           | AC power adaptor (1), AC power cable (1), Ceiling bracket (2), RS-422 connector plug (1), Wire rope (1), Screw M3 x 8 (8) |  | AC power adaptor (1), AC power cable (1), IR remote commander unit (1), CD-ROM (Operating instructions) (1), RS-422 connector plug (1), Ceiling bracket (2), Wire rope (1), Screw M3 x 8 (8)                    |           |
|                                 |  |           |   |  | AC power adaptor (1), AC power cable (1), IR remote commander unit (1)<br>*Presets x 16 when controlled via VISCA. Presets x 6 when using the supplied IR remote commander. Operating instructions (1)          |           |
|                                 |  |           |   |  | AC power adaptor (1), AC power cable (1), IR remote commander unit (1)<br>*Presets x 16 when controlled via VISCA. Presets x 6 when using the supplied IR remote commander. CD-ROM (Operating instructions) (1) |           |
|                                 |  |           |   |  | AC power adaptor (1), AC power cable (1), IR remote commander unit (1)<br>*Presets x 16 when controlled via VISCA. Presets x 6 when using the supplied IR remote commander. Operating instructions (1)          |           |

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The values for mass and dimension are approximate.

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