

SONY



SRG Series

Full-HD PTZ Remote Cameras

SRG-300SE
SRG-300SE/W

SRG-300H
SRG-300H/W

SRG-120DS
SRG-120DH

SRG-120DU



Beyond Definition

Exmor

View-DR

Full HD
1080

Sony's SRG Series consists of five HD pan/tilt/zoom (PTZ) cameras: SRG-300SE, SRG-300H, SRG-120DU, SRG-120DH, and SRG-120DS. These cameras achieve superb picture quality (1080/60p resolution) thanks to Sony's high sensitivity 1.2/8 inch-type Exmor® CMOS sensor and offer smooth, quiet PTZ capabilities. Powerful zoom options range from 12x up to 30x optical zoom with 12x digital zoom for frame-filling close-ups and come in a variety of video outputs. All of the SRG cameras are equipped with Sony's View-DR® (dynamic range) and XDNR® (noise reduction) technologies for the capture of clear images (still or moving) under changing, backlight or low-light environments.

The new SRG-120DU 12x USB 3.0 UVC video compatible PTZ camera offers a wide field of view (71°) and its plug-and-play simplicity converts any boardroom, classroom or medical space into a professional video collaboration environment. In addition, the new SRG-120DS 12x PTZ camera inherits the same outstanding features found in the SRG-120DH, but is equipped with 3G-SDI video output.

All of the SRG cameras are ideal for a wide range of applications, including videoconferencing, education, healthcare, faith-based, sports, government and more.

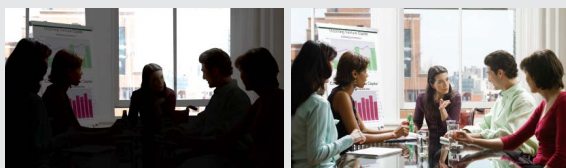


Simulated images

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

SRG Series cameras provide superb picture quality by incorporating a sophisticated 1/2.8 inch-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 smooth, more fluid reproduction of moving subjects.

In addition, outstanding View-DR® technology expands the camera's dynamic range for clear images under harsh backlighting with extremes of light and dark in the same scene. XDNR® technology helps to reduce image noise for crisp reproduction of still and moving objects under extreme or low-light conditions.



View-DR function OFF

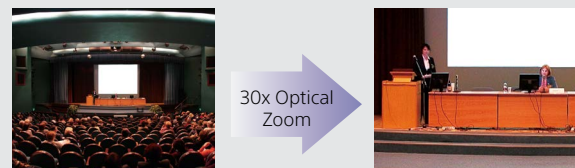
View-DR function ON

Simulated images

Powerful optical zoom and wide viewing angle

The SRG-300SE and SRG-300H provide up to a 30x optical zoom capability and 12x digital zoom for frame-filling close-ups in great detail. 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 room settings when there are many participants. The 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. These cameras are ideal for small to large classrooms, meeting rooms and auditoriums.



Wide-end

Tele-end

Simulated images

Series Comparison

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

VISCA-over-IP

SRG Series cameras can be controlled via the VISCA protocol over IP connections. They are also compatible with Sony's optional RM-IP10 IP Remote Controller to enable pan, tilt, and zoom operation with an optical three-axis joystick.

In addition, you can control up to 112 cameras with up to five remote controllers on the same IP network. Also the SRG-300H can be controlled via VISCA-over-IP, RS-232 and RS-422. The SRG-120DH and SRG-120DS feature VISCA-over-IP and RS-232 control.

Up to 256 camera preset positions*

The SRG-300SE supports 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.

Simply connect with a variety of interfaces

(Available with the SRG-120 Series)

For easy operability, you can connect SRG-120 Series cameras to a computer using a broad range of interfaces.

The SRG-120 Series of cameras are equipped with the following interfaces:

- SRG-120DS - 3G-SDI
- SRG-120DH - HDMI
- SRG-120DU - USB 3.0 UVC compatible

In addition, 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.

UVC Camera Control

(SRG-120DU Camera Only)

The SRG-120DU camera (V2.02) now offers UVC camera control. Many popular end-user software programs take advantage of UVC control to offer Far End Camera control as well as local camera control. By using the SRG-120DU PTZ camera and a single USB3.0 cable connected to a PC or laptop, the camera's Pan, Tilt, Zoom, Focus and other camera functions can be controlled by participants on both ends of a web-based video conference. This enables easy and simple integration for a better end user experience.

Other features

High sensitivity

The SRG Series features superb sensitivity to enable high quality, image capture in low-light environments.

- SRG-300SE and SRG-300H - 1.4 lx minimum illumination
- SRG-120DS, SRG-120DH and SRG-120DU - 1.8 lx minimum illumination

Compact and stylish body

The SRGs' all-in-one compact and lightweight design makes them easy to install in a variety of locations. Select models are available in a black or white housing, making the cameras unobtrusive when ceiling-mounted, a valuable feature in healthcare and education installations. (SRG-300SE/W and SRG-300H/W).

Quick and silent PTZ

With their fast and silent pan, tilt and zoom capabilities, the SRG cameras are ideal for use in noise-restricted environments like faith-based communities, hospitals, classrooms, courtrooms and meeting rooms. Their non-intrusive camera body and silent movement is appreciated by healthcare, education and sports users who require high-end HD 1080/60p video capture without distracting the patient, student or athlete.

Flexible Installation with E-Flip Function

The SRG-300SE and SRG-300H cameras can be desktop- or ceiling-mounted, thanks to their E-Flip function. This function automatically rotates the image 180 degrees so it is displayed correctly on a connected monitor. The SRG-120DH, SRG-120DU and SRG-120DS are desktop-only models.

Optional accessories

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



EZ-2-Connect™ Packages - Power, Video and Control Solutions

Installation headaches are a thing of the past when you combine an SRG PTZ camera with a CAT5e/6 cabling kit. With just one or two standard Ethernet cables, you can easily power and control Sony's SRG PTZ cameras - saving time and money.

- RC5-SRG Single Cable Solution Kit - SRG-300H, SRG-300H/W, and SRG-120DH PTZ Cameras (Ethernet - HDMI)
- RC4-SRG Single Cable Solution Kit - SRG-300H, SRG-300H/W, and SRG-120DH PTZ Cameras (VISCA - HDMI)

* Presets 17 to 256 only store PTZF data on the connected PC or laptop.

Specifications



| | SRG-300SE SRG-300SE/W | SRG-300H SRG-300H/W | SRG-120DS | SRG-120DH | SRG-120DU |
|--------------------------|---|---|--|---|--|
| Camera | | | | | |
| Image Sensor | 1/2.8 inch type Exmor CMOS | | | | |
| Effective Pixels | Approx. 2.1 Megapixels | | | | |
| Lens | 30x Optical/12x Digital Zoom Lens Focal Length: f=4.3 mm (wide) to 129 mm (tele) Focal Length F: F1.6 to 4.7 | | 12x Optical/12x Digital Zoom Lens Focal Length - 3.9 mm (wide) to 46.8 mm (tele) 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, Bright | | | | |
| 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: 100 degrees/sec | | Angle: ± 100 degrees, Speed: 300 degrees/sec | | |
| Tilt Angle/Speed | Angle: +90 degrees / -20 degrees, Speed: 90 degrees/sec | | Angle: ± 25 degrees, Speed: 126 degrees/sec | | |
| Horizontal Viewing Angle | | | 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 technology) | | | | |
| Interface | | | | | |
| Camera Control Interface | VISCA protocol with built-in IP control | | | | |
| | RS-422 Serial Interface | Camera Control Interface: RJ-45 / RS-232C / RS-422 | Camera Control Interface: RJ-45 / RS-232C | | |
| Audio Input | MIC (mini) x1, Line (RCA) x1 | | No | | |
| IP Streaming | Yes (RTSP) | | No | | |
| Audio Embedded | Yes (IP) | | No | | |
| Video Output | | | | | |
| 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 (HD-SDI compatible) | HDMI | 3G-SDI (HD-SDI compatible) | HDMI | HD USB 3.0 |
| Signal System | 1080/59.94p (A/B), 50p (A/B), 29.97p, 25p 1080/59.94i, 50i 720/59.94p, 50p, 29.97p, 25p | 1080/59.94p, 50p, 29.97p, 25p 1080/59.94i, 50i 720/59.94p, 50p, 29.97p, 25p | 1080/59.94p (A/B), 50p (A/B), 29.97p, 25p 1080/59.94i, 50i 720/59.94p, 50p, 29.97p, 25p | 1080/59.94p, 50p, 29.97p, 25p 1080/59.94i, 50i 720/59.94p, 50p, 29.97p, 25p | 1080/59.54p, 50p, 29.87p, 25p - 720/59.94p, 50p, 29.97p, 25p |
| General | | | | | |
| Dimensions (W x H x D) | 6 1/4 x 6 1/2 x 6 1/2 inches (157 x 164 x 163 mm) | | 6 1/8 x 6 1/4 x 6 1/8 inches (153 x 156 x 153 mm) | | |
| Weight | Approx. 3 lb 1.4 oz (1.4 kg) | | Approx. 3 lb 3.1 oz (1.45 kg) | | |
| Power Requirements | DC 12V (DC 10.8 V to 13.2V) | | | | |
| PoE | No | | | | |
| Power Consumption | 16.8 W | | | | |
| Operating Temperature | 32°F to 104°F / 0°C to 40°C | | | | |
| Storage Temperature | -4°F to 140°F / -20°C to +60°C | | | | |
| Supplied Accessories | 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 (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 (1) *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 (1) *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 (1) *Presets x 16 when controlled via VISCA. Presets x 6 when using the supplied IR remote commander. Operating instructions (1) |