

SONY



SRG Series

Full-HD PTZ Remote Cameras

SRG-300SE SRG-300H SRG-360SHE SRG-120DH
SRG-300SE/W SRG-300H/W SRG-120DS SRG-120DU



Beyond Definition

Exmor

View-DR

Full HD
1080

Sony's SRG Family consists of six HD pan/tilt/zoom (PTZ) cameras: SRG-360SHE, 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, backlighting or low-light environments.

The newest member, the SRG-360SHE 30x live IP streaming PTZ camera, inherits the same features found in the popular

SRG-300SE camera with the addition of simultaneous transmission of 3G-SDI, HDMI and IP H.264 Full HD video and features PoE+ capability for easy installation.

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

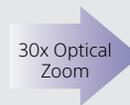
Powerful optical zoom and wide viewing angle

The SRG-360SHE, 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-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. These cameras are ideal for small to large classrooms, meeting rooms and auditoriums.



Wide-end
Simulated images



Tele-end

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.

Enhanced audio quality with equalizer and auto lip-sync function (SRG-360SHE only)

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 SRG-360SHE's auto lip-sync function. The SRG-300SE is equipped with two audio inputs (an external LINE input and a MIC input*) for embedding the audio in the IP stream.

* 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

(SRG-360SHE only)

The SRG-360SHE can be operated with quiet and rapid motion to the target position over a wide pan/tilt angle range due to 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

(SRG-360SHE only)

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

(SRG-360SHE only)

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.

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-360SHE, 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-360SHE, 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-360SHE	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: 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 technology)						
Interface							
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				
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 / HDMI	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) 1080/59.94i, 50i 720/59.94p, 50p	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 3/8 x 7 1/2 x 8 inches (159 x 187.5 x 200.5 mm)	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. 4 lb 10 oz (2.1 kg)	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	PoE+	No					
Power Consumption	Max 30 W	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	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 (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)	