

SONY



SRG Series

Full-HD PTZ Remote Camera

Exmor

View-DR

Full HD
1080

SRG-360SHE

Sony expands its renowned Pan/Tilt/Zoom camera family with the new SRG Series cameras - SRG-360SHE and SRG-120DS. These cameras are able to achieve superb picture quality by utilizing Sony's latest imaging technology and 1080/60p resolution, delivering reliability with field-proven operability.

The SRG-360SHE is a desktop or ceiling-mountable remote camera with an amazingly high 30x optical zoom capability. While SRG-120DS is a desktop remote camera with 12x optical zoom with 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

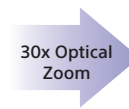
The SRG-360SHE, SRG-300SE, and SRG-300H provide up to a 30x optical zoom capability and 12x digital zoom for frame-filling close-ups with every detail seen clearly. Responsive autofocus ensures that images stay clear and sharp, even at high zooming settings.

And the SRG-120DS, SRG-120DH, and SRG-120DU provide up to a 12x optical zoom capability and 12x digital zoom. Besides, 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.

You can also 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.

SRG 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
Camera						
Image Sensor	1/2.8 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, 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)					
Interface						
Camera Control Interface	VISCA protocol with built-in IP control					
Audio Input	MIC/Line x2 (selectable)	MIC (mini) x1, Line (RCA) x1	No	Camera Control Interface: RJ-45 / RS-232C / RS-422		
IP streaming	Yes (RTSP)	Yes (RTSP)	No	Camera Control Interface: RJ-45 / RS-232C		
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)	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), *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), *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), *Presets x 16 when controlled via VISCA. Presets x 6 when using the supplied IR remote commander. Operating instructions (1)

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