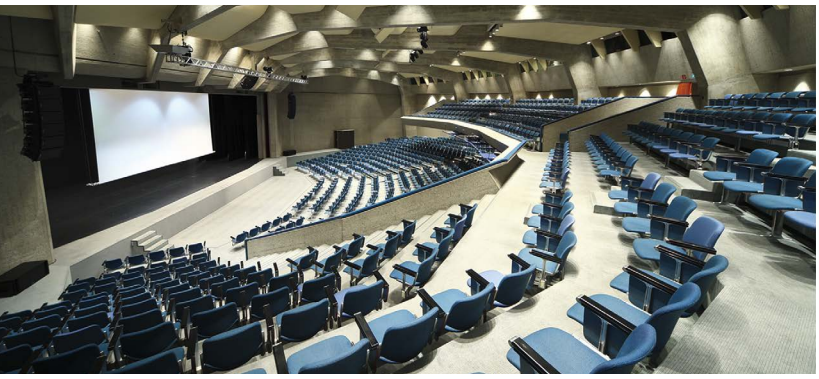
SONY



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.

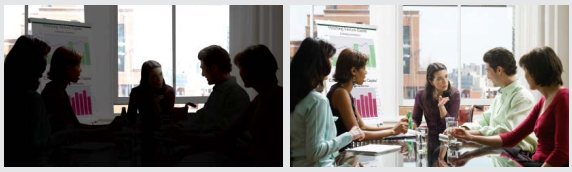
All of the SRG cameras are ideal for a wide range of applications, including videoconferencing, education, healthcare, faith-based, sports, government and more.

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.



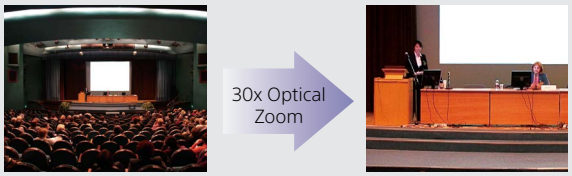
View-DR function OFF | View-DR function ON

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 × 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)

PEAK CONFERENCE
www.PeakConference.com

©2016 Sony Electronics Inc. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Features, design, and specifications are subject to change without notice. Weights and measurements are approximate. Sony, Exmor, View-DR, XDNR, EZ-2-Connect and the Sony logo are trademarks of Sony. All other trademarks are the trademark of their respective owner.