

SRG-300SE

Full HD remotely controlled PTZ colour video camera with IP streaming (colour availability may vary by country)



Overview

The versatile SRG-300SE PTZ camera captures Full HD colour video images in corporate boardrooms, lecture theatres and training suites. Controlled remotely over standard IP networks, it's ideal for use as either a primary or secondary camera in a wide range of visual imaging applications, from videoconferencing to remote monitoring, higher education and telemedicine.

The camera can simultaneously stream Full HD (1080/60p) video as H.264 plus crisp AAC digital audio over an IP network connection and via 5G-SDI at the same time. This makes the SRG-300SE ideal for corporate presentations, lectures, webcasts and other events where content can be streamed live to an Internet audience while being recorded to disc for editing and archive.

The sensitive Exmor™ CMOS sensor assures excellent low-light sensitivity. Unique to Sony, View-DR expands dynamic range for clear images under harsh backlighting with extremes of light and dark in the same scene. XDNR technology enhances image quality in poorly-illuminated rooms, even when digital zoom is used.

The camera's wide field of view makes it easier to cover everyone in the room. Smooth, silent PTZ operation allows quick re-framing without disturbing presenter or audience members. Powerful 30x optical zoom is boosted further by 12x digital zoom for high-quality close-ups of distant subjects. Images can be viewed live over IP via a web browser on a PC mobile device that can also be used to recall up to 256 stored camera viewing position set-ups.

Audio from an attached microphone can be fine-tuned using the on-board equaliser and auto level control for extra clarity and intelligibility. There's also an auto lip-sync feature to eliminate distracting mismatches between sound and picture.

The SRG-300SE can be controlled using VISCA command protocols over standard IP networks. PC control software allows remote adjustment of basic and advanced settings from a simple, intuitive interface.

SRG300SE/W is a white model and SRG300SE/B is a black model (colour availability may vary by country)

SRG-300SE/PAC5, SRG-300SEW/PAC5 camera & cable packages are available in the U.S. and Canada. Please speak to your local Sony Professional Authorised Reseller to

find out more.

Features

The camera can simultaneously output 1080/60p baseband video through 3G-SDI and as a H.264 compressed video/audio stream via IP. This makes the SRG-300E ideal for webcasting and simultaneous recording of conferences, lectures, seminars and other live events.

See every presenter or conference participant more clearly. The 1/2.8-type Exmor CMOS image sensor captures smooth, crisply detailed, Full HD (1920 x 1080 60p) images with extremely low noise – even in low light conditions where other cameras struggle. High frame rate (60fps) operation ensures smoother, more fluid reproduction of moving subjects.

Unique to Sony, View-DR technology expands 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.

The 30x optical zoom range is complemented by 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 zoom settings.

The camera's powerful direct drive motor assures quiet, smooth, rapid movement to the target position over a wide pan/tilt angle range.

See everyone meeting participant in a boardroom with a wide 65-degree horizontal viewing angle.

Image E-flip gives extra operating flexibility, allowing the camera to be sited on a boardroom table-top or ceiling mounted while maintaining proper image orientation.

Audio from a connected microphone (optional) can be sweetened using the on-board equaliser and auto level control for greater intelligibility. Unwanted signal delays between audio and video are compensated by the auto lip-sync function.

Support for RS-232C/RS-422 protocols allows easy connection with a wide range of peripheral products. The camera can also be controlled via VISCA protocols over a standard IP network.

Store and instantly recall up to 256 camera positions from a networked PC and web browser.

PC control software allows remote adjustment of basic as well as advanced cameras settings via VISCA protocols - such as colour adjustment and Pan/Tilt speed - from the intuitive interface.

Specifications

Camera	
Image Sensor	1/2.8 Exmor CMOS
Image Sensor (Number of Effective Pixels)	Approx. 2.1 Megapixels
Signal System	1080/59.94p(A/B),50p(A/B), 29.97p,25p 1080/59.94i,50i 720/59.94p,50p,29.97p,25p
Minimum Illumination (50IRE)	1.4 lux (F1.6, 50 IRE, high-sensitivitymode OFF, 30fps) 2.8 lux (F1.6, 50 IRE, high-sensitivitymode OFF, 60fps) 0.35 lux (F1.6, 50 IRE,high sensitivitymode ON, 30fps) 0.7 lux (F1.6, 50 IRE, high-sensitivitymode ON, 60fps)
S/N Ratio	50 dB
Gain	Auto/Manual (0 to +43 dB)
Shutter Speed	1/1 to 1/10000 sec (59.94 Hzsystem) 1/1 to 1/10000 sec(50Hz system)
Exposure Control	Auto, Manual, Priority AE(Shutter,Iris), Exposure compensation, Blight
White Balance	Auto, Indoor, Outdoor, One-pushauto, ATW,Manual
Optical Zoom	30x
Digital Zoom	12x
Focusing System	Auto/Manual
Horizontal Viewing Angle	63.7 degree (Wide)
Focal Length	f=4.3mm(wide) to 129 mm(Tele) F1.6 to 4.7
Minimum Object Distance	10 mm(Wide)~ 1200 mm(Tele)
Pan/Tilt Angle	Pan: ±170° Tilt: +90°/-20°
Pan/Tilt Speed (Max.)	Pan 100°/sec Tilt 90°/sec
Preset Position	256 *Position number of from 17th to 256th are stored PTZF only
Camera Features	
Day/Night ICR	Yes

Wide Dynamic Range	Yes(View-DR)
Noise Reduction	Yes
Image Stabilization	Yes
Image Flip	Yes
Superimpose Number	3 independent positions for characters Codec, Date & Time, Event, Text (Max. 64 characters), 1 independent position for a logo mark
Menu Language	English, Japanese, Chinese (simplified), Chinese (traditional), French, Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai *OSD menu supports only English.
Smartphone viewer	Yes *Does not support audio transmission.

Video

Resolution	1920 x 1080, 1280 x 720, 1024 x 576, 720 x 576, 720 x 480, 704 x 576, 640 x 480, 640 x 360, 352 x 288, 320 x 184 (H.264, JPEG)
Compression Format	H.264, JPEG
Maximum Frame Rate	H.264: 60 fps (1920 x 1080) JPEG: 30 fps (1920 x 1080)
Bitrate Compression Mode	CBR/VBR (selectable)
Range of Bitrate Setting	64 Kbps to 32 Mbps
Image Cropping	No
Adaptive Rate Control	H.264
Bandwidth Control	JEPG
Multi Streaming Capability	Triple streaming
Number of Clients	20* Up to 10 clients can receive video and audio combined streaming.

Audio

Compression Format	AAC-LC (64kbps/128kbps)
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System Requirements

Operating System	Mac OS (Plug-in free viewer only) Android/ iOS (Smart phone viewer only) Windows Vista (32 bit) Ultimate, Business Edition Windows 7 (32/64 bit) Ultimate, Professional Edition Windows 8 Pro (32/64 bit) Microsoft DirectX 9.0c
Processor	Intel Core i7 2.8 GHz
Memory	2 gb
Web Browser	Microsoft Internet Explorer Ver. 8.0, Ver. 9.0, Ver. 10.0, Ver. 11.0 Firefox Ver. 19.02 (Plug-in free viewer only) Safari Ver. 5.1 (Plug-in free viewer only) Google Chrome Ver. 25.0 (Plug-in free viewer only)

Network

Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP over TCP, RTSP over HTTP, IPv6, HTTPS, SNMP (v1, v2c, v3), SSL
QoS	DiffServ(DSCP)
Multicast Streaming Support	Yes
ONVIF Conformance	No
Wireless Network	No
Authentication	IEEE802.1X

Interface

HD Video Output	3G-SDI *Does not support audio transmission.
MIC Input	Mini jack (Monaural): 2.5 V DC plug-in power
LINE Input	RCA (Monaural)
Network Port	10BASE-T /100BASE-TX (RJ-45)
Serial Interface	RS-422

General

Power Requirements	DC 12V (DC 10.8 to 13.2V)
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Power Consumption	16.8W
Operating Temperature	0 °C to 40 °C 32 °F to 104 °F
Storage Temperature	-20 °C to +60 °C -4 °F to +140 °F
Dimensions (W x H x D)*1	157 x 164 x 163mm 6 1/4 x 6 1/2 x 6 1/2 inches
Mass	Approx. 1.4kg 3 lb 1.4 oz
Body Color	White/Black
Wide Conversion Lens Attachable	No
Mountable Angle	<±15°
Ceiling Mount	Yes
Supplied Accessories	AC power adaptor (1) AC power cable (1) Ceiling bracket (2) RS-422 connector plug (1) Screw M3 x 8(8) Wire rope(1)

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