

SRG-300SE

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



Overview

Capture and share high-quality Full HD images with simultaneous streaming via IP and 3G-SDI

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 3G-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)

U.S. and Canadian accessory packs

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

Simultaneous streaming

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.

Full HD image quality with 60fps frame rate

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.

Clearer pictures in any lighting conditions

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.

Powerful 30x optical zoom

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.

Fast, quiet PTZ operation

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

Wide 65-degree viewing angle

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

Suitable for desktop or ceiling mounting

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.

Enhanced audio quality with equaliser and auto lip-sync function

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.

Versatile connectivity options

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.

256 programmable presets

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

Easy control by PC

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
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Image Sensor (Number of Effective Pixels)	Approx. 2.1 Megapixels
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Signal System	1080/59.94p(A/B),50p(A/B), 29.97p,25p 1080/59.94i,50i 720/59.94p,50p,29.97p,25p
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	1.4 lux (F1.6, 50 IRE, high-
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Minimum Illumination (50IRE)	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: $\pm 170^\circ$ Tilt: $+90^\circ/-20^\circ$
Pan/Tilt Speed (Max.)	Pan $100^\circ/\text{sec}$ Tilt $90^\circ/\text{sec}$
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	JPEG
Multi Streaming Capability	Triple streaming
	20*
Number of Clients	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)
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	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
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Wireless Network	No
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Authentication	IEEE802.1X
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Interface

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

Power Requirements	DC 12V (DC 10.8 to 13.2V)
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Power Consumption	16.8W
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Operating Temperature	0 °C to 40 °C 32 °F to 104 °F
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Storage Temperature	-20 °C to +60 °C
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-4 °F to +140 °F

Dimensions (W x H x D)*1	157 x 164 x 163mm 6 1/4 × 6 1/2 × 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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