SONY

SRG-300SE

Full HD remotely controlled PTZ colour video camera with IP streaming

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 SG-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.

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- **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 sweeted 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.

- **HDMI compatible**

  An HDMI video interface simplifies direct connection with a compatible videoconferencing system, PC or HD video monitor.

- **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.

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Technical Specifications

Specifications	
● Ceiling Mountable	Yes
● Video Format(HD)	1080p59.94, 1080p50, 1080p29.97, 1080p25, 1080i59.94, 1080i50 720p59.94, 720p50, 720p29.97, 720p25
● Video Format(SD)	-
● H.Resolution	800TV(Center)
● O.Zoom(D.Zoom)	30x(12x)
● HFOV	2.9° (Tele) - 63.7°(Wide)
● 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, highsensitivitymode ON, 30fps) 0.7 lux (F1.6, 50 IRE, high-sensitivitymode ON, 60fps)
● Shutter Speed	1 to 1/10,000s
● Wide-D	View-DR (59.94fps 90dB/29.97fps 130db)
● Focal Length	4.3 - 129mm
● F-Number	F1.6 - F4.7
● Pan Angle	±170degree
● Tilt Angle	+90/-20 degree
● Pan Speed	1.1° ~ 100°/sec, 0.5° ~60°/sec (selectable)
● Tilt speed	0.5° ~90°/sec
● Preset Position	256(Position number of from 17th to 256th are stored PTZF only.)
● I/F(Video)	3G-SDI
● I/F(Control)	RS-422(Visca) RJ-45(CGI)
● MIC input	RCA x 1(LINE), Mini-phone(3.5ø)x 1(MIC) (selectable)
● Channel	1ch
● Codec	AAC LC
● Audio setting option	Auto gain control(AGC) On/Off Simplified equalizer
● Sampling Frequency	48kHZ
● Power Requirement	DC12V
● Operating Temperature	0°C to 40°C (32°F to 104°F)
● Mass	Approx. 1,400g
● Dimensions(mm)	W157 x H164 x D163
● Body color	Black/White

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● 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: 30fps(1920 x 1080)
● Bitrate Compression	CBR/VBR (selectable)
● Range of Bitrate Settings	Up to 32 Mbps
● Adaptive Rate Control	H.264
● Bandwidth Control	JPEG
● Multi Streaming Capability	3
● Number of Clients	20*
● OS	MAC OS (Plug-in free viewer only) Android/iOS (Smartphone 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 Corei7 2.8GHz
● Memory	2 GB
● Web Browser	Microsoft Internet Explorer Ver. 8.0, Ver. 9.0, Ver. 10.0, Ver. 11.0 Firefox Ver. 19.2 (Plug-in free viewer only) Safari Ver. 5.1 (Plug-in free viewer only) Google Chrome Ver. 25.0 (Plug-in free viewer only)
● 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

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