

# SRG-300SE

## Full HD remotely controlled 3G-SDI PTZ colour video camera

The ideal solution for video and data capture



**View-DR** Exmor IPELA

### Key Features

#### Excellent Picture Quality

The desktop or ceiling mountable SRG-300SE Full HD PTZ colour video camera uses our latest technology to deliver exceptional image quality:

**View-DR:** expands the dynamic range for clearer images under harsh backlighting and when extremes of light and dark appear in the same scene.

**Exmor™ CMOS sensor:** provides excellent low-light sensitivity with high-speed readout capability for high-level chrominance and luminance.

**XDNR™:** reduces image noise for crisp reproduction of still and moving objects in poorly-illuminated rooms, even when digital zoom is used.

#### Share a clearer, sharper image

Capture and share exceptional Full HD images at 60 frames per second with the SRG-300SE PTZ (Pan-Tilt-Zoom) colour video camera. This versatile video camera uses Sony's latest technology to deliver high-quality 1080/60p pictures and crisp AAC digital audio that can be **live-streamed simultaneously via IP and 3G-SDI**.

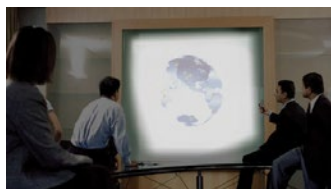
#### Wide view, powerful zoom, silent operation

With a wide viewing field, 30x optical and 12x digital zoom and smooth, silent PTZ operation, it's an ideal camera for lecture theatres, corporate boardrooms and training suites. Unique features also include Sony's View-DR technology, which ensures clear images even under harsh backlighting or when extremes of light and dark appear in the same scene.

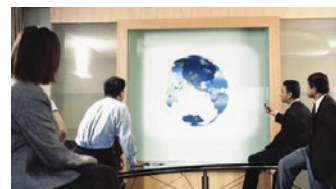
#### Perfect for presentations, lectures and webcasts

Controlled remotely over standard IP networks, the SRG-300SE can be used as either a primary or secondary camera in a wide range of visual applications, from videoconferencing to remote monitoring. With low latency, content can confidently be broadcast live to an internet audience while also being recorded to disc for editing and archive.

#### View-DR & XDNR™ Technology



View-DR OFF



View-DR ON

simulated images

SRG-300SE

Remote desktop or ceiling-mountable camera: 30x optical zoom



**Applications:**

With a 30x optical zoom capability (360x with digital zoom), the SRG-300SE is ideal for medium to large venues such as stadiums, auditoriums and large classrooms.

|                       |             |                          |                   |          |         |                          |
|-----------------------|-------------|--------------------------|-------------------|----------|---------|--------------------------|
| 1/2.8-type Exmor CMOS | 30x Optical | IP Control and Streaming | Ceiling mountable | 1080/60p | View-DR | 1.4 lx Min. Illumination |
|-----------------------|-------------|--------------------------|-------------------|----------|---------|--------------------------|

Key features

**Full HD resolution at 60fps**

The SRG-300SE provides an exceptionally clear, Full HD picture at 1920 x 1080 resolution with 60 frames per second for smooth, fluid reproduction of movement and reduced blur. It offers outstanding professional quality for remote shooting, ensuring every presenter, participant or audience member can be seen more clearly.



Interlace



Progressive



simulated images

**Highly sensitive: Exmor™ CMOS**

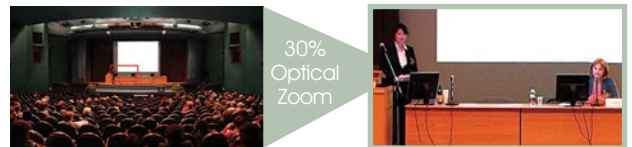
Full HD resolution and 60p frame rate are achieved with Sony's high-sensitivity Exmor™ CMOS image sensor. It ensures clear pictures even in low light where other cameras struggle (minimum illumination is 1.4 lx).

**Unique: View-DR**

Unique to Sony, View-DR technology expands the dynamic range to produce a clear image under harsh backlighting and when extremes of light and dark appear in the same scene.

**30x High Power Zoom**

Perfect for frame-filling, detailed close-ups, even in large meeting rooms and auditoriums. The powerful 30x optical zoom is further boosted by a 12x digital zoom. Responsive auto-focus ensures image sharpness, even at high zoom.



Wide-end

Tele-end

simulated images

**Reduced image noise: XDNR**

XDNR technology reduces image noise for crisp reproduction of still and moving objects in poorly-illuminated rooms.

**Wide field of view**

With a wide 65-degree horizontal viewing angle, every participant can be seen, even in large lecture halls and conference venues.

**Fast, silent PTZ**

A powerful direct drive motor ensures quick, quiet and accurate operation during pan, tilt and zoom targeting – vital in noise-restricted environments like classrooms and meeting rooms.

PrimeSupport

PrimeSupport for extra peace of mind

To keep you up and running, SRG-300SE video cameras come as standard with a 3-year PrimeSupport package. This includes repair or replacement in the event of a faulty unit, plus free telephone helpdesk support in English, German, French, Italian and Spanish. For full details please visit [www.pro.sony.eu/primesupport](http://www.pro.sony.eu/primesupport)

Easy desktop or ceiling mounting

All-in-one compact and lightweight design with image E-flip so the camera can be sited on a boardroom table or ceiling while maintaining proper image orientation. Available in white as well as black, for unobtrusive ceiling mounting.

Enhanced audio

Audio and video can be naturally reproduced with optimally minimised processing latency. Accurate audio/video synchronisation is achieved using the camera's time stamp feature in the network-attached recorder. A microphone (optional) can also be connected for further audio enhancement.

Simple controls

Via VISCA over IP and RS-422 remote protocols. PC control software provides an intuitive interface for easy, remote adjustment of basic and advanced camera settings such as colour adjustment and pan/tilt speed.

256 programmable pre-sets

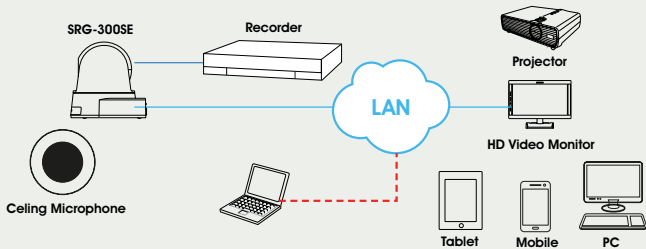
Store and instantly recall up to 256 camera positions from a networked PC and web browser.



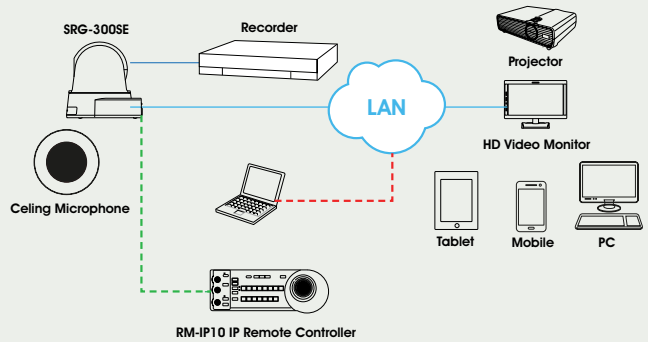
The ideal solution for video and data capture

System configuration

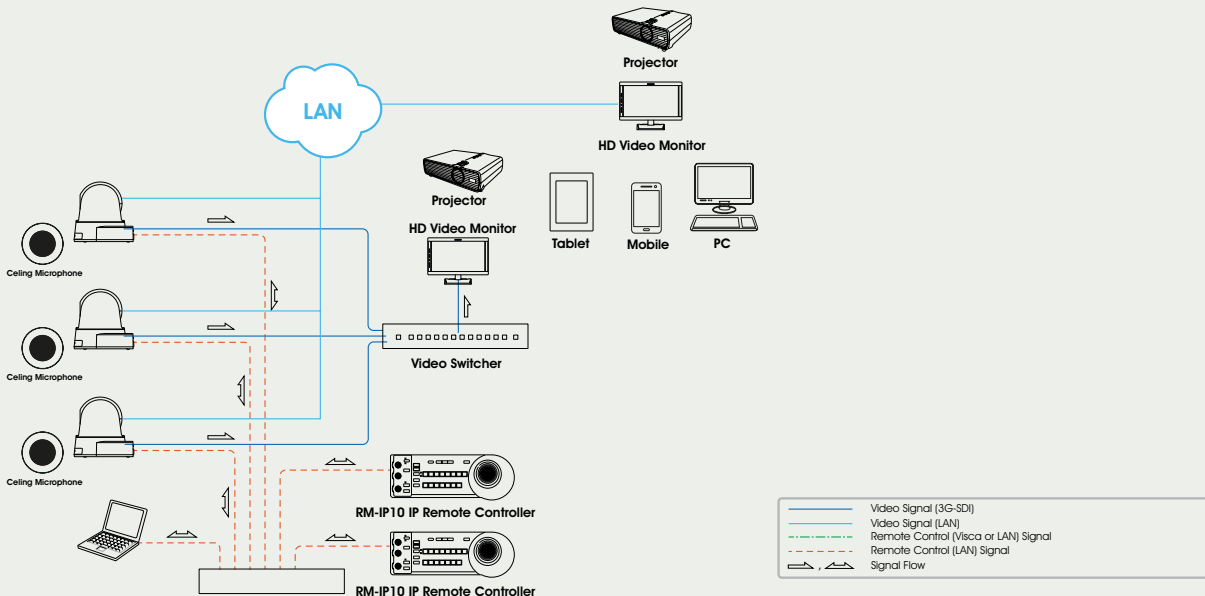
CGI Command



With RM-IP10 Remote Control



With Multiple Remote Controllers and Cameras

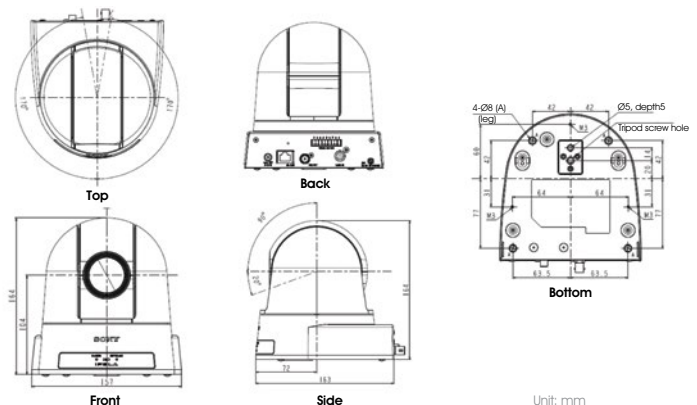


## Specifications

| SRG-300SE                                 |  |
|---|--|
| <b>Camera</b>                             |  |
| Image Sensor                              | 1/2.8 Exmor CMOS   |
| Image Sensor (Number of Effective Pixels) | Approx. 2.1 Megapixels   |
| Signal System                             | 1080/59.94p, 50p, 29.97p, 25p<br>1080/59.94i, 50i<br>720/59.94p, 50p, 29.97p, 25p  |
| Minimum Illumination (50IRE)              | 1.4 lx (50IRE, F1.6, 30 fps)   |
| S/N Ratio                                 | 50 dB  |
| Gain                                      | Auto/Manual (0 to +43 dB)  |
| Shutter Speed                             | 1/1 to 1/10000 sec<br>(59.94 Hz system)  |
|   | 1/1 to 1/10000 sec<br>(50 Hz system)   |
| Exposure Control                          | Auto, Manual, Priority AE (Shutter, Iris), Exposure compensation, Bright   |
| White Balance                             | Auto, Indoor, Outdoor, One-push auto, ATW, Manual  |
| Optical Zoom                              | 30x  |
| Digital Zoom                              | 12x  |
| Focusing System                           | Auto/Manual  |
| Horizontal Viewing Angle                  | 63.7 degree (Wide)   |
| Focal Length                              | f=4.3 mm (Wide) to<br>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  |
| <b>Camera features</b>                    |  |
| Day/Night ICR                             | Yes  |
| Wide-D                                    | Yes (View-DR)  |
| Noise Reduction                           | Yes  |
| Image Stabilizer                          | Yes  |
| Image Flip                                | Yes  |
| Superimpose Number                        | 3 independant positions for characters (Codec, Date & Time, Event, Text (Max. 64 characters)), 1 independant position for a log mark                           |
| Superimpose Language                      | English  |
| Menu Language                             | English, Japanese, Chinese (simplified), Chinese (traditional), French, Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai |
| Smartphone Viewer                         | Yes  |
| <b>Video</b>                              |  |
| Resolution                                | 1920 x 1080, 1280, 720, 10204 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)<br>JPEG: 30 fps (1920 x 1080)  |
| Bitrate Compression Mode                  | CBR/VBR (selectable)   |
| Range of Bitrate Setting                  | 64 Kbps to 32 Mbps   |
| Image Cropping                            | No   |
| Solid PTZ                                 | Yes  |
| Adaptive Rate Control                     | H.264  |
| Bandwidth Control                         | JPEG   |
| Multi Streaming Capability                | Triple Streaming   |
| Number of Clients                         | 20   |

|                                 |   |
|---------------------------------|---|
| <b>Audio</b>                    |   |
| Compression Format              | AAC-LC (64kbps/128bps)  |
| <b>System Requirements</b>      |   |
| 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 9.0 < |
| Processor                       | Intel Core i7 2.8 GHz <   |
| Memory                          | 2 GB <  |
| Web Browser                     | Microsoft Internet Explorer Ver. 8.0, 9.0, 10.0, 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).                                   |
| <b>Network</b>                  |   |
| Protocols                       | IP4, 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  |
| <b>Interface</b>                |   |
| HD Video Output                 | 3G-SDI  |
| SD Video Output                 | -   |
| MIC Input                       | Mini Jack (Monoral): 2.5 V DC plug-in power   |
| Line Input                      | RCA (Monoral)   |
| Network Port                    | 10BASE-T / 100BASE-TX (RJ-45)   |
| Serial Interface                | RS-422  |
| <b>General</b>                  |   |
| Power Requirements              | DC 12 V (DC 10.8 ~ 13.2 V)  |
| Power Consumption               | 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)   |
| Dimensions (W x H x D)          | 157 x 164 x 163 mm<br>(6 1/4 x 6 1/2 x 6 1/2 inches)  |
| Mass                            | 1.4 kg (3 lb 1.4 oz)  |
| Body Colour                     | White/Black   |
| Wide Conversion Lens Attachable | No  |
| Mountable Angle                 | < ±15°  |
| Ceiling Mount                   | Yes   |
| Supplied Accessories            | AC power adaptor (1)<br>AC power cable (1)<br>RS-422 connector plug (1)<br>Ceiling bracket (2)<br>Wire rope (1)<br>Screw M3×8 (8)   |

## Dimensions



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