# SONY



# SRG-360SHE

Full HD PTZ Remote Camera

**Exmor** **View-DR**

Sony introduces the powerful SRG-360SHE full HD PTZ Remote Camera with advanced technologies. The SRG-360SHE is equipped with a sophisticated 1/2.8-type Exmor™ CMOS image sensor that delivers full HD (1920 x 1080/60p) images with extremely low noise even under harsh lighting conditions. The SRG-360SHE can deliver 1080/60p baseband video and stereo audio simultaneously through three streaming outputs; 3G-SDI, HDMI and as a H.264 compressed video and AAC audio stream via IP. The SRG-360SHE also has great flexibility in installation and operability because of the PoE+ (Power over Ethernet), video/audio, camera control and power over IP through a single cable. The versatile SRG-360SHE is ideal for use in lecture theatres, auditoriums, Houses of Worship, corporate, governmental, and telemedicine applications. Its brilliant image quality also makes this camera suitable for broadcast applications such as reality shows.

## Superb full HD1080/60p Video with high picture quality

The SRG-360SHE provides superior picture quality by incorporating a sophisticated 1/2.8-type Exmor CMOS image sensor. The SRG-360SHE provides smooth, crisply detailed, Full HD (1920 x 1080/60p) images with extremely low noise. Its high frame-rate (60fps) operation ensures smoother, more fluid reproduction of moving subjects.
In addition, its outstanding 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.


**Without View-DR function**


**With View-DR function**


**XDNR image**

* Simulated images

## Powerful 30x optical zoom and Wide 65-degree viewing angle

The SRG-360SHE provides up to a 30x optical zoom and 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 zooming settings. In addition, a wide 65-degree horizontal viewing angle maximizes the effectiveness for a boardroom with many meeting participants. This camera is ideal for large meeting rooms and auditoriums.


**Wide-end**

30x Optical Zoom

**Tele-end**

* Simulated images

## PoE+ for flexible powering options

The SRG-360SHE supports PoE+ (Power over Ethernet) capability that carries IP video/audio, control and power over a single connection cable, for simple installation.

2

## Enhanced PTZ operation

The SRG-360SHE can be operated with quiet and rapid motion to the target position over a wide pan/tilt angle range because of its powerful direct drive motor. PTZ 'Synchronization' enables professional looking transitions by smooth coordinated camera motion. Pan/Tilt speed can be set to 'Slow' for precise tracking. A sequence of camera positions can be stored and recalled as a preset 'Trace'.

## Simultaneous Transmission of 3G-SDI, HDMI, and IP H.264 Full HD Video

The SRG-360SHE supports triple streaming outputs. The SRG-360SHE can simultaneously output 1080/60p baseband video through 3G-SDI, HDMI, and a H.264 compressed video/audio stream via IP. This triple streaming capability makes the camera ideal for webcasting, viewing and simultaneous recording of conferences, lectures, seminars and other live events.

## Flexible Installation with E-flip function

The SRG-360SHE is equipped with the E-Flip function that rotates the image 180 degrees, then the picture can be viewed upside down whether the camera is mounted on a desktop or a ceiling.

## Tally Lamp

The SRG-360SHE is equipped with a large red tally lamp that gives presenters clear visual confirmation when the camera is active.



## Enhanced audio quality with equalizer and auto lip-sync function

The SRG-360SHE provides great intelligibility in enhancing stereo audio from a connected stereo microphone (optional) or line inputs by using the on-board equalizer and auto level control. Unwanted signal delays between audio and video are compensated by the auto lip-sync function.

## Up to 256 camera preset positions

Users can preset and recall up to 256 camera positions from a networked PC or a web browser. Preview images and control the camera from any networked PC.

\* Up to 16 positions can be preset and recall from optional RM-IP10 remote control unit.
\* Up to 6 positions can be preset and recall from bundled IR remote commander unit.
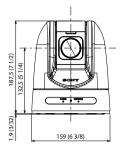
## Versatile connectivity options

The SRG-360SHE supports for VISCA protocol via RS-422 that allows easy connection with a wide range of peripheral products. This camera can also be controlled via VISCA and S700PTP protocols over a standard IP network.
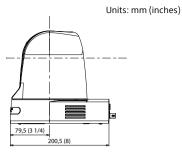


| UTX-B03 | URX-P03 | | SRG-360SHE | | PMW-RX50 |
|---|---|---|---|---|---|

Wireless Transmitter — Wireless Receiver
Audio 3.5mm mini

RCP-1500 Series
paint control
S700PTP (IP)

RM-IP10
position control
VISCA over IP or VISCA RS-422

Audio/Video 3G-SDI → ① Recording — Recorder
Audio/Video HDMI → ② Monitoring — Projector/TV monitor
Audio/Video IP (RTSP) → ③ Streaming — TV/PC/Tablet/Smartphone

# Specifications

## Camera

| | |
|---|---|
| Image Sensor | 1/2.8 Exmor CMOS |
| Image Sensor (Number of Effective Pixels) | Approx. 2.1 Megapixels |
| Signal System - HD | 1080/59.94p,50p<br>1080/59.94i,50i<br>720/59.94p,50p |
| Signal System - SD | - |
| Minimum Illumination (50 IRE) | High Sensitivity mode: 0.35 lx (50IRE, F1.6, 30fps)<br>Normal mode : 1.4 lx (50IRE, F1.6, 30fps) |
| S/N Ratio | 50 dB |
| Gain | Auto/Manual (0 to +43 dB) |
| TV Line | 1,000 (center) |
| Auto IR cut filter | Auto, Manual,<br>Timer,Sensor input<br>Near-IR compensation on/off |
| Shutter Speed | 1/1 to 1/10000 |
| Exposure Control | Auto, Manual, Priority AE (Shutter,Iris), Exposure compensation, Blight |
| White Balance | Auto1/Auto2/Indoor/Outdoor/One-push/Manual |
| Optical Zoom | 30x |
| Digital Zoom | 12x |
| Focusing System | Auto/Manual |
| Horizontal Viewing Angle | 2.9° (Tele)- 65° (Wide, normal mode) / 63.7° (Wide, low latency mode) |
| Focal Length | f=4.3 to 129.0 mm<br>F1.6 to 4.7 |
| Minimum Object Distance | 10 mm (Wide end), 1200 mm (Tele end) |
| Pan/Tilt Angle | Pan: ±170°, Tilt: +90°/-30° |
| Preset Position | 256 |
| Sync system | INT |
| Camera Control - IR | Yes |
| Camera Control - Interface | RS-422/RJ-45 |
| Camera Control - Protocol | VISCA (RS-422, IP)/CGI (RJ-45)/S700PTP |

## Audio

| | |
|---|---|
| Audio - Channel | 2ch (stereo) |
| Audio - Codec | AAC LC |
| Audio setting option | Auto level control (ALC) On/OFF<br>Simplified equalizer |
| Audio - Sampling frequency | 48kHz |
| Audio - Embedded in Baseband video | Yes (3G-SDI, HDMI) |
| Audio - Embedded in IP streaming | Yes |

## Interface

| | |
|---|---|
| HD Video Output | 3G-SDI, HDMI |
| SD Video Output | - |
| MIC Input | Mini-phone (3.5 )×2 (MIC/Line) (selectable) |

## General

| | |
|---|---|
| Power Requirements | DC 12V (DC 10.8 ~ 13.2V) |
| PoE | PoE+ |
| 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) | 159 x 187.5 x 200.5mm (6 3/8 x 7 1/2 x 8 inches) |
| Mass | Approx. 2.1 kg (4 lb 10 oz) |
| Body Color | White with black |

## IP streaming

| | |
|---|---|
| Resolution | 1920 x 1080, 1280 x 720, 960 x 540 (H.264) |
| Compression Format | H.264 (High Profile) |
| Maximum Frame Rate | H.264: 60 fps (1920 x 1080) |
| Bitrate Compression Mode | CBR/VBR (selectable) |
| Range of Bitrate Setting | 512Kbps~32 Mbps |
| Adaptive Rate Control | H.264 |
| Multi Streaming Capability | 3 |
| Maximum Number of Clients | 5 |
| Protocols | IPv4, TCP, UDP, ARP, ICMP, IGMP,<br>HTTP, DHCP, DNS, RTP/RTCP,<br>RTSP, HTTPS,<br>SNMP, SSL, VISCA over IP |

## Supplied accessories

| |
|---|
| IR remote commander (1), AC power adaptor (1); Ceiling bracket (2), Wire rope(1), HDMI cable retainer(1), Screw M3 x 8(9), Screw M2.6x6(1) |

# Dimensions

Units: mm (inches)



187.5 (7 1/2)
132.5 (5 1/4)
1,9 (3/32)
159 (6 3/8)
79,5 (3 1/4)
200,5 (8)

# Optional accessory

## RM-IP10:  Remote Control Unit

- 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 recall

## Distributed by

MK20043V1YIT15OCT