

SRG-A12

PTZ Auto Framing Camera with AI Analytics, 12x optical zoom, and NDI® | HX capability



Overview

A Camera that Automatically and Naturally Shoots Video for you

With the advanced PTZ Auto Framing feature, the camera automatically track the target in a comfortable viewing with smooth pan, tilt, zoom movement regardless of posture, movement and what they are wearing. Since there is no need for dedicated operator, there is system cost advantage.

The SRG-A12 harnesses powerful AI-powered video analytics that can automatically detect and track the position of a presenter within the camera frame. As the presenter moves, the camera's pan/tilt/zoom mechanism ensures that the presenter is always framed accurately and naturally, without the need for a human camera operator to manually follow their movements.

Features

Automatic and reliable

With Sony's newly developed AI Analytics unit, it detects the subject's skeleton and tracks the subject, even when there are several people in the frame.

Choice from three shooting modes

The SRG-A12 has a choice of three shooting modes; Full body, Waist, and Close up. In each mode, you can select the center, left, or right angle of view, and the SRG-A12 can automatically track

the subject in the selected optimal position.

Integrated tally lamp

The SRG-A12 features a built-in tally lamp, just like you'd find on professional studio cameras. The lamp illuminates to give presenters visual confirmation of shooting status, or to show that PTZ Auto Framing mode is active. The lamp colour will change from Red (standby) to Green (PTZ Auto Framing ON).

High speed pan/tilt

Speedy, precise pan/tilt operation ensures that the camera can accurately keep track of the presenter's movements.

Wide angle zoom lens

As well as powerful close-ups, the SRG-A12 can capture broad shots of the presenter or audience with a wide field of view.

Clear Zoom

Digital plus optical zoom increase maximum magnification to a huge 24x for frame-filling close-ups without reducing resolution.

4K Exmor R sensor

The highly sensitive 1/2.5-type image sensor captures crisply-detailed 4K video with extremely low picture noise, even when shooting in low light.

IP streaming

Stream 4K 30p video from the camera with support for popular IP protocols – ideal for live events and webcasts.

PoE++ support

Support for next-generation Power over Ethernet simplifies installation, with camera power, control and IP video all carried by a single LAN cable.

HDMI/SDI outputs

As well as live streaming over IP, the camera can simultaneously

output video via HDMI and SDI for conventional production.

Picture Setting File

Easily copy picture settings across multiple cameras for quick, convenient set-up in multi-camera shooting environments.

Remote control of PTZ operation

Pan/Tilt/Zoom camera movements and other functions can all be precisely controlled using the supplied IR remote commander, for convenient wireless control of PTZ functions without needing additional equipment. It can also be controlled using the optional additional IP500 remote controller, just like professional broadcast cameras.

Convenient control from PC or tablet

Camera functions can also be controlled remotely from a networked PC or tablet* using our intuitive app.

*Windows only

Easy ceiling mounting

The camera comes supplied with a mounting plate for convenient ceiling installation if required.

Light, compact design

The camera's stylish, compact body fits unobtrusively into any environment.

Choice of colour finishes

The SRG-A12 is available in a choice of black or white colour finishes, to suit the needs of any application.

Specifications

Camera

Image Sensor 1/2.5 type ExmorR CMOS

| | |
|---|--|
| Image Sensor (Number of Effective Pixels) | Approx. 8.5M pixels |
| Signal System | 2160/29.97p, 25p, 23.98p 1080/59.94p, 50p, 29.97p, 25p, 23.98p 1080/59.94i, 50i 720/59.94p, 50p |
| 4K Capability | Yes |
| Minimum Illumination (50IRE) | 1.6 lux (1/30s 50IRE F2 high- sensitivity OFF) |
| Horizontal Resolution | 1700 TV lines (Center) (4K) 1000 TV lines or higher (Center) (FHD) |
| Gain | Auto/Manual (0 to +48 dB) High Sensitivity On |
| Shutter Speed | 1/1 to 1/10000 sec (59.94 Hz system) 1/1 to 1/10000 sec (23.98 Hz system) 1/1 to 1/10000 sec (50Hz system) |
| Exposure Control | Auto/Manual/Priority AE (Shutter, Iris) |

| | |
|-----------------------------|--|
| White Balance | Auto1/Auto2/One Push WB/Indoor/Outdoor/Manual |
| Zoom Capability | 30x (4K with CIZ*1), 40x (HD with CIZ), Max. 80x (HD with CIZ and Tele Convert Mode) |
| Focusing System | Auto/Manual |
| Horizontal Viewing Angle | Approx. 70.0 degree (Wide) |
| Focal Length | f=4.4mm (Wide) to 88.0mm (Tele) |
| F-number | F2.0 to F3.8 |
| Minimum Object Distance | 80 mm (Wide)~ 800 mm (Tele) |
| Pan/Tilt Angle | Pan: $\pm 170^\circ$ Tilt: $+90^\circ/-20^\circ$ |
| Pan/Tilt Speed (Max.) | Pan: 300 degrees/sec Tilt: 126 degrees/sec |
| Pan/Tilt Speed | Pan: 1.1° to $101^\circ/s$ Tilt: 1.1° to $91^\circ/s$ |
| Pan/Tilt Speed (Slow) | Pan: 0.5° to $60^\circ/s$ Tilt: 0.5° to $60^\circ/s$ |
| Pan/Tilt Slow Mode | Yes |

| | |
|--------------------------|-----------------|
| Pan/Tilt Operation Noise | NC30 or less *2 |
|--------------------------|-----------------|

| | |
|-----------------|--------------------------|
| Preset Position | 256 (CGI) 100 (VISCA) |
|-----------------|--------------------------|

| | |
|-----------------------|-----|
| Picture Freeze Preset | Yes |
|-----------------------|-----|

| | |
|-----------------|-----|
| PTZ Motion Sync | Yes |
|-----------------|-----|

Network

| | |
|---------------------|--|
| IP Video Resolution | 3840x2160, 1920x1080, 1280x720, 640x360 |
|---------------------|--|

| | |
|--------------------|--|
| Compression Format | H.264: High/Main/Baseline Profile H.265: Main Profile |
|--------------------|--|

| | |
|--------------------|------------------------------|
| Maximum Frame Rate | H.264: 60fps H.265: 60fps |
|--------------------|------------------------------|

| | |
|--------------------------|----------------------|
| Bitrate Compression Mode | CBR/VBR (selectable) |
|--------------------------|----------------------|

| | |
|--------------------------|------------------|
| Range of Bitrate Setting | 512 kbps~50 Mbps |
|--------------------------|------------------|

| | |
|----------------------------|---|
| Multi Streaming Capability | 3 |
|----------------------------|---|

| | |
|---------------------------|---|
| Maximum Number of Clients | 5 |
|---------------------------|---|

| | |
|-----------|---|
| Protocols | IPv4, IPv6, TCP, UDP, ARP, ICMP, HTTP, HTTPS, DHCP, DNS, RTP/RTCP, RTSP, VISCA over IP, SRT |
|-----------|---|

| | |
|-------------------|--|
| NDI HX Capability | Yes Option (need to attach a license) |
|-------------------|--|

Camera Features

| | |
|---|-----|
| Auto ICR (Auto mode of IR Cut filter Removal) | Yes |
|---|-----|

| | |
|-----------|-----|
| Day/Night | Yes |
|-----------|-----|

| | |
|---------------------|-----|
| Visibility Enhancer | Yes |
|---------------------|-----|

| | |
|------------------|-----|
| Image Stabilizer | Yes |
|------------------|-----|

| | |
|------------|-----|
| Image Flip | Yes |
|------------|-----|

| | |
|----------------------|-----|
| Picture Setting File | Yes |
|----------------------|-----|

| | |
|----------------|--------|
| Flicker Cancel | On/Off |
|----------------|--------|

| | |
|---------------|--------|
| Hide OSD Menu | On/Off |
|---------------|--------|

| | |
|--------------|-----|
| Standby Mode | Yes |
|--------------|-----|

| | |
|----------------|-----|
| Remote Standby | Yes |
|----------------|-----|

| | |
|------------------|-----|
| PTZ Auto Framing | Yes |
|------------------|-----|

Web UI

Version Up

Yes

Languages

Japanese, English, French,
Spanish, German, Italian, Chinese,
Traditional Chinese, Korean,
Portuguese, Russian, Polish, Hindi,
Turkish

OS and Browser

Windows 11 64-bit w/ Chrome,
Windows 10 64-bit w/ Chrome,
Windows 11 64-bit w/ Edge,
Windows 10 64-bit w/ Edge,
macOS 11 w/ Chrome,
macOS 12 w/ Chrome,
macOS 13 w/ Chrome*3

Audio

Channel

2ch

Audio Codec

AAC LC 128kbps/ST (IP)
AAC LC 256kbps/ST (IP)

Setting Option

Auto level control: On/Off,
Equalizer: Off/Low cut/Voice
enhancement,
Input selection: Microphone/Line,

Mic volume: -10~+10 (21 steps),
Audio codec

| | |
|----------------------------------|--------------------|
| Embedded Audio in Baseband Video | Yes (3G-SDI, HDMI) |
|----------------------------------|--------------------|

| | |
|--------------------------------|-----|
| Embedded Audio in IP Streaming | Yes |
|--------------------------------|-----|

Interface

| | |
|-----------------|-------------------------------|
| 4K Video Output | HDMI x1, IP (streaming) x1 |
|-----------------|-------------------------------|

| | |
|-----------------|---|
| HD Video Output | 3G-SDI x1, HDMI x1, IP (streaming) x1 |
|-----------------|---|

| | |
|-----------------|-------------------|
| SD Video Output | IP (streaming) x1 |
|-----------------|-------------------|

| | |
|-------------------------------|-----|
| Remote Video Format Switching | Yes |
|-------------------------------|-----|

| | |
|------------------|--------------------------------------|
| HDMI Color Space | YCbCr, 4:2:2 8bit RGB, 4:4:4 8bit |
|------------------|--------------------------------------|

| | |
|--------------------------|--|
| Camera Control Interface | VISCA RS-422 RJ45 (In/Out) VISCA over IP RJ45 |
|--------------------------|--|

| | |
|-------------------|-----|
| IR Remote Control | Yes |
|-------------------|-----|

| | |
|------------------|--------------------------------|
| Microphone Input | Stereo Mini-phone (φ3.5mm) x1, |
|------------------|--------------------------------|

(Mic/Line Selectable)

| | |
|----------------------|---|
| Sync. System | INT |
| Tally | Front x 1 Red/Green (for PTZ Auto Framing) |
| Power Connector Type | IEC60130-10 (JEITA standard RC-5320A) Type5 |

General

| | |
|--------------------------|--|
| Power Requirements | DC 19.5V PoE++ (IEEE802.3bt type4 class8) |
| Power Consumption | DC19.5V: 80W PoE++: 71.3W |
| 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)*4 | 156.7 x 184.0 x 200.0 mm 6 1/4 x 7 1/4 x 7 7/8 inch |
| Mass | Approx. 2.0 kg Approx. 4 lb 6.5 oz |
| Body Color | White/Black |

| | |
|-------------------------------|---|
| Size of Screw Hole for Tripod | 1/4-20UNC x1 |
| Mountable Angle | < $\pm 15^\circ$ |
| Ceiling Mount | Yes |
| Supplied Accessories | AC power adaptor (1) IR Remote Commander Unit (1) Ceiling bracket (2) Wire rope (1) Screw M3 x 8 (9) Screw M2.6 x 6 BLACK (1) HDMI cable fixing plate (1) Safety regulation (1) Download site information (1) Warranty (1) |

Notes

| | |
|----|---|
| *1 | CIZ = Clear Image Zoom |
| *2 | Sony measurement conditions |
| *3 | Available from V2.0 and later |
| *4 | The values for dimensions are approximate |

Gallery



