SONY

https://pro.sony/en_GB/products/ptz-network-cameras/srg-a12

SRG-A40/ SRG-A12 with PTZ Auto Framing

Revolutionary PTZ Auto Framing technology powered by built-in AI analytics ensures high quality composed shots without operator.

Shooting redefined. AI makes you free.

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Ver. 4.0 Key Features

SRG-A40/A12 will support the following features with the Ver. 4.0 update

(Scheduled to be available from April 2026 or later)

- New Framing Mode [Ball Sports (Basketball)]
- Enhanced Face Registration
  - External Face Data Import (JPEG)
  - Temporary Deactivation of Registered Faces
  - Face Data Protection
- Save and recall PTZ Auto Framing settings
- Overlay of Tracking Range and Fixed Angle Position on Web UI live screen
- New framing option: Closer Closeup
- Intuitive status monitoring for PTZ Auto Framing, via Web UI
- Advanced composition control with CGI

Availability and specifications are subject to change without notice.

A Camera that Automatically and Naturally Shoots Video for you

With the advanced PTZ Auto Framing feature, the camera automatically track the person in a comfortable viewing with smooth pan, tilt and zoom movement regardless of posture, movement and what one is wearing.

Since the camera does most of the work automatically, the operator can spend its time efficiently.

PTZ Auto Framing with built-in AI analytics

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This camera 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 and zoom mechanism ensures that the presenter is always framed naturally, without the need for a human camera operator to manually follow their movements.

Automatically and reliably shoots video for you

With Sony's newly developed AI analytics algorithm, it detects the person's skeleton and head position and matches the person's detail features even when there are several people in the frame. It achieves accurate framing and consistent tracking.

Enhanced production efficiency with Ball Sports (Basketball) Mode*

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Ideal for capturing basketball games, the SRG-A40 and SRG-A12 tracks both the ball and players, automatically framing the scene from an overview angle to clearly capture the flow of the game. Unlike conventional subject tracking, it employs advanced tracking technology to account for the fast and irregular movements of the ball.

**Available from firmware version 4.0. This feature is designed exclusively for indoor 5v5 format basketball games. It is designed for an overview angle of players and the ball but does not track specific individuals holding the ball. Please note that the Person Framing Mode and Ball Sports Framing Mode cannot be used simultaneously. This unit must be installed at the center of the court along the sideline. An official ball is required.*

Customize the area to track with Tracking Range

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PTZ Auto Framing is performed only within the predefined area*. When a subject goes out of the predefined area, PTZ Auto Framing stops and returns to search for the subject within the predefined area. The predefined area can be displayed as an overlay on the Web UI live view.** Simultaneously, this function allows you to exclude subjects that you do not want to frame.

**Only one area can be set.*

***Available from firmware version 4.0*

Keep the intended angle of view with Fixed Angle Position

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When a subject enters the predefined area*, PTZ Auto Framing will pause and the angle of view will automatically move and hold the predefined area. PTZ Auto Framing will resume when the subject exits the area. The predefined area can be displayed as an overlay on the Web UI live view.**

**Only one area can be set.*

***Available from firmware version 4.0*

Achieve natural composition with Lead Room Effect

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When using PTZ Auto Framing to track a person, the composition is automatically adjusted to provide space in the direction of the subject's gaze, depending on the orientation of the subject's face. This enables tracking in a natural composition that is close to professional camera work.

Additionally, the size of the margin that can be set with the Lead Room Effect can be adjusted in three levels.

Keep everyone in the picture with Multi-person Framing*

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The SRG-A40 and SRG-A12 can automatically track a group of up to eight people, with a primary subject and secondary subjects. The primary subject can be specified via the camera's Face Registration function*, or on the web app screen. The secondary subjects are automatically selected according to their proximity to the primary subject. The camera's pan, tilt and zoom function ensures that the selected people are included in the image, with natural looking framing. Multi-person Framing is ideal for various applications such as corporate conferences, panel discussions, weddings and other ceremonies.

Prioritise presenters with Face Registration

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The SRG-A40 and SRG-A12 can register the primary subject, tracking them reliably based on pre-registered face data and tracking priority. External Face Data Import (JPEG)* is available for faster on-site setup and off-site preparation. Automatic start/return is also enhanced, using registered face information to quickly re-acquire the subject after lost tracking or mis-tracking.

** Available from firmware version 4.0*

Shoot with the intended angle of view

Camera functions can also be controlled remotely using web app software on a networked PC. This allows easy and optimal adjustment of the composition (size and position) of the subject with intuitive drag operations. SRG-A40/A12 offers a wide range of picture composition options, with 30 subject sizes from full body to Closer Closeup*, and detailed left/right and up/down settings. Scene composition can also be changed at any time, even when PTZ Auto Framing is active.

**Available from firmware version 4.0*

Full Body

Waist

Closeup

Closer Closeup

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Integrated tally lamp

The SRG-A40 and SRG-A12 feature 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 (On Air) to Green (PTZ Auto Framing ON).

Key Features

High speed Pan and tilt

Speedy, precise Pan and 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 camera can capture broad shots of the presenter or audience with a wide field of view.

Powerful zoom, wide angle

Integrated high-resolution lens offers zoom capability up to 40x (FHD) or 30x (4K) with Clear Image Zoom for SRG-A40 and 12x for SRG-A12, with an expansive approx. 70° wide angle coverage to capture every point of view.

PTZ Auto Framing

Automatically track a person with pan, tilt and zoom movement regardless of posture, movement and what one is wearing, while frame the subject naturally for comfortable viewing.

Preset camera positions

Store and instantly recall up to 256 preset camera positions.

Picture Freeze Preset

The camera can output high-quality still images simultaneously while streaming 4K video.

AF, AE and AWB

Auto Focus, Auto Exposure and Auto White Balance ensure professional-looking results without manual exposure adjustments.

PTZ Motion Sync

Pan, tilt and zoom movements transition smoothly between preset camera positions.

Simple, flexible setup

IP streaming

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

Single network cable

Power supply (POE++), image/audio output, and camera control all enabled by a single network cable which allows simple integration.

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.

Versatile functions for remote operation

Remote control of PTZ operation

Pan, tilt and zoom camera movements and other functions can all be precisely controlled using the supplied IR remote commander, allowing convenient wireless operation of PTZ functions without needing additional equipment. The SRG-A40 and SRG-A12 can also be controlled using the optional additional RM-IP500 remote controller, just like professional broadcast cameras.

In addition to ON/OFF control of PTZ Auto Framing, it's easy to toggle between single-person and Multi-person Framing* using the supplied IR remote commander – simplifying system set-up, especially in solo operation.

** The number of multi-persons depends on the settings.*

Convenient installation in every environment

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 camera is available in a choice of black or while colour finishes, to suit the needs of any application.

3 years of replacement units at no extra cost

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IR SELECT
1 2 3
SYSTEM SELECT
CAMERA SETUP
IN VISCA RS-422 OUT
HDMI
SDI OUT
LAN

Specifications

General	
Mass	Approx. 2.0 kg Approx. 4 lb 6.5 oz
Dimensions (W x H x D)*a	Approx. 156.7 × 184.0 × 200.0 mm Approx. 6 1/4 × 7 1/4 × 7 7/8 inches
Power Requirements (DC In)	DC 19.5 V
Power Requirements (PoE)	PoE++ (IEEE 802.3bt Type 4 Class 8 compliant)
Power Consumption (DC In)	≦80 W (DC 19.5 V)
Power Consumption (PoE)	≦71.3 W (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
Quietness *b	NC30 or less
Body Color	Black / White

Camera	
Imaging Device (Type)	1/2.5 ExmorR CMOS sensor
Number of Pixels (Maximum Effective)	Approx. 8.5 megapixels
F-number (Maximum aperture)	F2.0 to F3.7
Focal Length	f = 4.4 to 52.8 mm
Focal Length (35mm format equivalent)	26.8 to 322.8 mm
Focus range (from the front of the lens)	Approx. 80 mm to infinity
Horizontal Viewing Angle	Approx. 70.0 deg.
Optical Zoom	12x
Clear Image Zoom	No
Digital Zoom	No
Tele Convert Mode *c	Yes (2.0x)
Focusing System	Auto / Manual
Minimum Illumination *b	1.6lx (F2, SS=1/30s, 50IRE, high-sensitivity OFF)
Exposure Control	Auto / Manual / Priority AE (Shutter, Iris)

Camera	
Gain	Auto / Manual 0 dB to + 48 dB (high-sensitivity ON)
Shutter Speed	1/1 to 1/10000 sec
White Balance	Auto1 / Auto2 / One Push WB / Indoor / Outdoor /Manual
Color Temperature Range	No
Base Look	No
Soft Skin Effect	No
Built-in ND filter	No
Night Shot	No
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

Pan-Tilt	
Pan Angle	-170 deg. to 170 deg.
Tilt Angle	-20 deg. to 90 deg.
Pan Speed	0.5 deg./sec to 300 deg./sec
Tilt Speed	0.5 deg./sec to 126 deg./sec
Ramp Curve	1 steps
Preset Position	256 (CGI) / 100 (VISCA)
Preset Speed Unit	Speed
Picture Freeze Preset	Yes
PTZ Motion Sync	Yes
PTZ Trace	No

Interface	
SDI Output	SDI OUT: BNC (x1), 3G-SDI (Level A / B), HD-SDI
HDMI Output	Type-A connector (x1)

Interface	
Optical Output	No
UVC Output	No
Output Format SDI OUT	1920 x 1080 / 59.94p, 50p, 59.94i, 50i, 29.97p, 25p, 23.98p 1280 x 720 / 59.94p, 50p
Output Format HDMI OUT	3840 x 2160 / 29.97p, 25p, 23.98p, 1920 x 1080 / 59.94p, 50p, 59.94i, 50i, 29.97p, 25p, 23.98p 1280 x 720 / 59.94p, 50p 720 x 480 / 59.94p 720 x 576 / 50p
Output Format SFP+	No
Audio Input	3.5 mm Stereo Minijack x1 (Mic / Line Selectable)
Sync. System	Internal
Genlock Input	No
TC Input / TC Output	No
VISCA In / Out	RJ-45 (VISCA IN) (x1) RJ-45 (VISCA OUT) (x1)
Network	RJ-45 (LAN) (x1), 1000BASE-T
Option	No
IR Remote Control	Yes
DC Input	IEC60130-10 (JEITA standard RC-5320A) Type5 (x1)
Tally Ramp	Center (x1), Red / Green

Recording	
Recording Function	No

Network/IP Streaming	
Network / Transmission Protocols for IPv6	ICMPv6, MLD, TCP, UDP
Network / Transmission Protocols for IPv4	ARP, ICMP, IGMP, TCP, UDP
Application Protocols for IPv6	DHCPv6, DNS, mDNS, NTP
Application Protocols for IPv4	DHCP, DNS, mDNS, NTP
Control Protocols	HTTP / HTTPS, VISCA over IP
Streaming Protocols	RTP / RTCP, RTSP, RTMP / RTMPS, SRT, NDI|HX

Network/IP Streaming	
IP Stream Video Resolution	3840 x 2160, 1920 x 1080, 1280 x 720, 640 x 360
IP Stream Compression Format	H.264: High / Main / Baseline Profile H.265: Main Profile
IP Stream Maximum Frame Rate	H.264: 60 fps H.265: 60 fps
IP Stream Bitrate Control Mode	CBR / VBR
IP Stream Range of Bitrate Setting	512 Kbps to 50 Mbps
NDI|HX Capability	Yes *e
Camera Tracking Data	No

Web App	
Supported Operation System (Windows)	Windows 11 or later
Supported Operation System (Mac)	macOS 14 or later
Supported Operation System (iPad)	iPadOS 17 or later
Supported Operation System (Android)	Android 14 or later
Supported Web Browsers (Windows)	Google Chrome, Edge
Supported Web Browsers (Mac)	Google Chrome
Supported Web Browsers (iPad)	Google Chrome, Safari
Supported Web Browsers (Android)	Google Chrome

PTZ Auto Framing	
PTZ Auto Framing (Single-Person)	Yes
Multi-person Framing	Yes (8)
Framing mode | Ball Sports (Basketball)	Yes *f
PTZ Auto Framing (Pause)	No
PTZ Auto Framing (AF Sync)	No

PTZ Auto Framing

Preset Framing / Composition Preset	Composition
Lead Room Effect	Yes
Face Registration	Yes
Tracking Range	Yes
Fixed Angle Position	Yes
Frame / Area Indicator	Yes *f
Detection Part	Head
PTZ Auto Framing File	Load / Save *f

Mount

Ceiling Mount	Yes (with Ceiling Bracket)
Mountable Angle	≦ ±15°
Tripod mounting screw holes	1/4-20 UNC (x1)
Screw holes for external devices	No

Supplied Accessories

Supplied Accessories	AC power adaptor (x1) Remote commander (RMT-RC2) (x1) Ceiling bracket A (x1) Ceiling bracket B (x1) Screw (M3x8) (x9) Screw (M2.6x6 Black) (x1) Wire rope (x1) QR code sticker (x1) Warranty booklet (x1) Safety regulation (*d) Download site information (x1) AC power code (x1)

Notes

*a	Without projecting object
*b	Sony measurement conditions
*c	1920 x 1080 only
*d	Varies by country of sale
*e	Version 3.0 or later is required.
*f	Version 4.0 or later is required.

Resources and downloads

Brochures

Brochures: A&E documents

Diagrams

Diagrams: SRG-A40 & SRG-A12 Outline Views

Diagrams: SRG-A40 & SRG-A12 CAD Data

Knowledge

Knowledge: Download links for SRG-A12 supported third-party drivers

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Knowledge: How to set up SRG-A12 NDI Camera for Zoom Rooms

Knowledge: Lens calculator

Knowledge: Image Delay Time

Knowledge: SRT Introduction

Knowledge: NDI HX Introduction

Knowledge: List of Verified PoE++ Power Sourcing Equipment

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