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 tracks 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 a dedicated operator, this is a 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 of 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 color 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 increases 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 a 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 color finishes
The SRG-A12 is available in a choice of black or while color 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	12x, Max. 24x (HD with Tele Convert Mode)
Focusing System	Auto/Manual
Horizontal Viewing Angle	Approx. 70.0 degree (Wide)
Focal Length	f=4.4 mm (Wide) to 52.8 mm (Tele)
F-number	F2.0 to F3.7
Minimum Object Distance	80 mm (Wide) – 400 mm (Tele)
Pan/Tilt Angle	Pan: ±170° Tilt: +90°/-20°
Pan/Tilt Speed (Max.)	Pan: 300 degrees/sec, Tilt: 126 degrees/sec
Pan/Tilt Speed	Pan: 1.1° to 101°/s Tilt: 1.1° to 91°/s
Pan/Tilt SpeedSlow)	Pan: 0.5 ° to 60 °/s Tilt: 0.5 ° to 60 °/s
Pan/Tilt Slow Mode	Yes
Pan/Tilt Operation Noise	NC30 or less (*4) (*4) Sony measurement conditions

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	512Kbps~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	
Ver Up	Yes
Languages	Japanese, English, French, Spanish, German, Italian, Chinese, Traditional Chinese, Korean, Portuguese, Russian, Polish, Hindi, Turkish
	Windows 11 64-bit w/ Chrome,

OS and Browser	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

Audio

Channel	2 ch
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)*3	156.7 x 184.0 x 200.0mm 61/47 1/47 7/8inch *3:The values for dimensions are approximate
Mass	Approx. 2.0 kg Approx. 4 lb6.5oz
Body Color	White/Black
Size of Screw Hole for Tripod	1/4-20UNC x1
Mountable Angle	< ±15°
Ceiling Mount	Yes
Supplied Accessories	AC power adaptor (1) IR Remote Commander Unit (1) Ceiling bracket (2) Wire rope (1) Screw M3 x8 (9) Screw M2.6 x6 BLACK (1) HDMI cable fixing plate (1) Safety regulation (1) Download site information (1) Warranty (1)

Gallery

























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