

SRG-A12

PTZ Auto Framing Camera with AI Analytics, 12x optical zoom and NDI® HX2 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, there 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 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

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

General

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)
------------------	---

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
---------------------	-----

Camera

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)
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

Interface

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
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
----------------------------	----

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)
---------------	----------------------------

Mount

Mountable Angle	$\leq \pm 15^\circ$
-----------------	---------------------

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
----	---------------------------

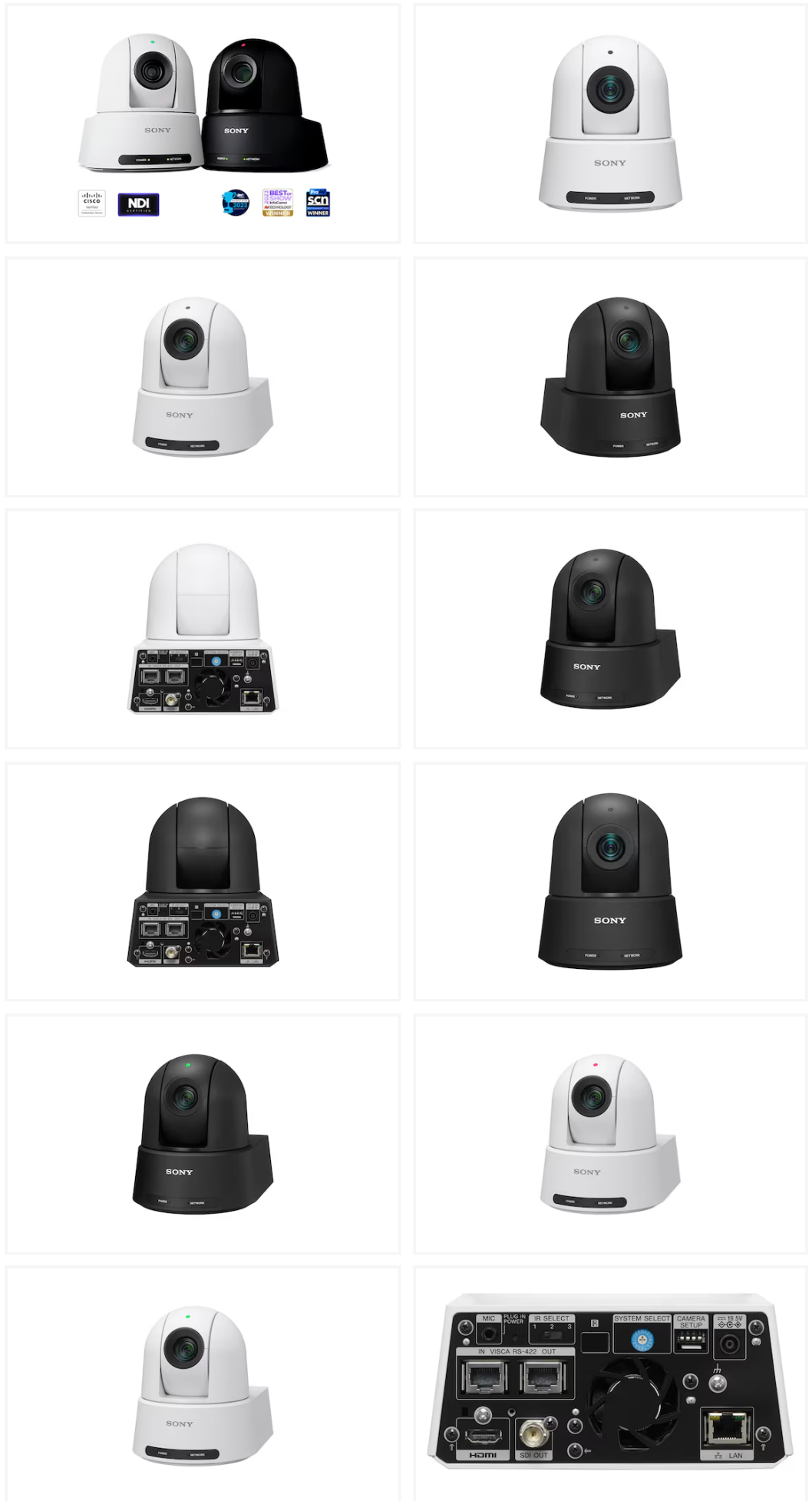
*b	Sony measurement conditions
----	-----------------------------

*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.
----	-----------------------------------



dimension are approximate. All trademarks are the property of their respective owners.