## SRG-X120

Standard 4K30P IP PTZ
Camera with 12x optical
zoom and NDI®|HX
capability for a wide range of
applications



#### Overview

Capture every point of view with excellent 4K\* picture quality and efficient IP production workflow

The versatile SRG-X120 remotely controlled PTZ camera is ideal for a wide range of applications—from classrooms and meeting spaces to medical environments.

The camera's 1/2.5-type Exmor R CMOS sensor captures up to 4K\* resolution images with excellent sensitivity, very low noise, and rich, natural color reproduction. It's complemented by the integrated high-resolution 12x zoom lens that offers an expansive approx. 70° wide angle coverage to capture every point of view.

High-speed movement during preset recall captures the speaker's every movement, while Picture Freeze during transitions ensures your audience isn't disturbed by rapid camera movements. PTZ Motion Sync\*\*\* function allows smooth blending of separate pan, tilt and zoom movements for seamless, professional-looking transition.

Efficient IP-based live production is augmented with support for NDI® | HX (via optional license), allowing flexible configuration with other networked NDI®-

enabled devices.

Images also can be reviewed remotely via a web browser, with support for RTSP (Real Time Streaming Protocol), RTMP\*\*\* (Real Time Messaging Protocol) and SRT\*\*\* (Secure Reliable Transport) ensuring smooth, stable streaming of video plus audio (from an optional microphone, available separately) over an IP network.

Installation and set-up is easy, with a new Picture Setting File\*\*\*\* allowing the same settings to be applied to multiple cameras through a web interface from a laptop or PC.

\*NDI® is a registered trademark of NewTek, Inc. \*\*With Clear Image Zoom and Tele Convert Mode \*\*\*Requires firmware V3.00 \*\*\*\*Requires firmware V2.00

Note 1: This product contains pre-installed software and requires the purchase of license keys to activate some functions.

Note 2: When using RM-IP500, firmware should be updated to V2.10, and for RM-IP10, firmware should be updated to V2.17.

#### Features

#### Excellent images, even in low light

The sensitive 1/2.5-type Exmor  $R^{\text{TM}}$  sensor captures high-quality images with very low noise, even in dimly lit environments.

4K upgrade option



Upgrade to 4K shooting via optional license.

#### Wide viewing angle

Cover the whole scene in meetings and lecture theaters with a horizontal viewing angle of approx. 70° and up to 12x zoom capability.

#### Ideal for lecture capture

Use the camera in conjunction with the AI-based REA-C1000 Edge Analytics Appliance to smoothly track the speaker's movements and automatically generate a cutout image of speaker.

#### High-speed movement and Picture Freeze Preset

Accurately capture the presenter's movements with maximum 300°/s pan and tilt movement during preset recall. Picture Freeze Preset maintains a steady image while the camera moves to a new preset position—with no uncomfortable transitions for your audience.

#### Smooth pan-tilt-zoom

PTZ Motion Sync function\* allows smooth blending of separate pan, tilt and zoom movements for seamless, professional-looking transitions.

\*Requires firmware V2.00.

#### Simpler installation, lower costs

A single network cable carries camera power, video output, and control signals to simplify installation and reduce cabling costs.

#### Support for NDI®\*|HX

NDI® | HX compatibility (via optional license) enables cost-effective school studio system integration, allowing flexible configuration with other networked NDI® - enabled devices.

Network services, content, and the operating system and software of this Product may be subject to individual terms and conditions and changed, interrupted, or discontinued at any time and may require fees, registration, and credit card information.

#### Flexible and efficient IP-based production

In addition to RTSP, RTMP(S)\* and SRT\* (Secure Reliable Transport) are supported. Video can be streamed directly from a camera to an online streaming service, and can be transmitted more securely, with lower latency and more stably even in unstable network environments.

#### Fast, fuss-free set-up

The new Picture Setting File\* function can apply the same camera settings among multiple cameras for fast set-up.

## Specifications

Camera	
Image Sensor	1/2.5 type ExmorR CMOS
Image Sensor (Number of Effective Pixels)	Approx. 8.5M pixels
Signal System	2160 (*1)/29.97p, 25p, 23.98p 1080/59.94p, 50p, 29.97p, 25p, 23.98p 1080/59.94i, 50i

<sup>\*</sup> Requires firmware V3.00.

<sup>\*</sup>Requires firmware V2.00.

	720/59.94p, 50p
4K Capability	Yes (requires 4K optional license)
Minimum Illumination (50IRE)	1.6 lux (1/30s 50IRE F2 high- sensitivity OFF)
Horizontal Resolution	1700 TV lines (Center) (4K*1) 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 (50 Hz system)
Exposure Control	Auto, Manual, Priority AE (Shutter, Iris)
White Balance	Auto1, Auto2, One Push WB, Indoor, Outdoor, Manual
Zoom capability	12x
Focusing System	Auto/Manual
Horizontal Viewing Angle	Approx. 70° (Wide)
Focal Length	f=4.4mm (Wide) to 52.8mm (Tele) 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°/s Tilt: 126°/s
Pan/Tilt Speed	Pan: 1.1° to 101°/s Tilt: 1.1° to 91°/s
Pan/Tilt Speed (Slow)	Pan: 0.5° to 60°/s Tilt: 0.5° to 60°/s
Pan/Tilt Slow Mode	Yes
Pan/Tilt Operation Noise	NC30 or less* *Sony measurement conditions
Preset Position	256 (CGI) 100 (VISCA)
Picture Freeze Preset	Yes
PTZ Motion Sync	Yes
Network	
IP Video resolution	3840 x 2160 (*1), 1920 x 1080, 1280 x 720, 720 x 576, 720 x 480, 640 x 360
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, IGMP, HTTP, HTTPS, DHCP, DNS, RTP/RTCP, RTSP, UPnP, VISCA over IP
NDI® HX Capability	Yes (requires a license; sold separately)

Camera Features	
Auto ICR (Auto mode of IR Cut filter Removal)	Yes
Day/Night	Yes
Visibility Enhancer	Yes
Image Stabilization	Yes
Image Flip	Yes
Picture Setting File	Yes



Flicker Cancel	On/Off
Hide OSD Menu	On/Off
Standby Mode	Yes
Remote Standby	Yes
Web UI	
Ver Up	Yes
Audio	
Channel	2 ch
Audio Codec	AAC LC 128 kbps/ST (IP) AAC LC 256 kbps/ST (IP)
Setting Option	Auto Level Control (ALC): On/Off Equalizer: Off, Low cut, Voice enhancement Input selection: Microphone/Line Mic volume: -10 to +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 and IP (streaming) $x1 (*1)$
HD Video Output	3G-SDI x1, HDMI x1, IP (streaming) x1
Remote Video Format Switching	Yes
HDMI Color Space	YCbCr, 4:2:2 8 bit RGB, 4:4:4 8 bit
Camera Control Interface	VISCA RS-422 RJ45 (In/Out) VISCA over IP RJ-45
IR Remote Control	Yes
Microphone Input	Mini-phone (φ3.5mm) x2, (Mic/Line Selectabe)
Sync. System	INT
Power Connector Type	IEC60130-10 (JEITA standard RC-5320A) TYPE4
	-
	-
Туре	-
Type  General  Power	RC-5320A) TYPE4  DC 12V (DC 10.8 to 13.2V),
Type  General  Power Requirements  Power	PC-5320A) TYPE4  DC 12V (DC 10.8 to 13.2V), PoE+ (IEEE802.3at compliant)

Dimensions (W x H x D) $^{*2}$	158.4 x 177.5 x 200.2 mm 6 1/4 x 7 x 8 inch
Mass*2	Approx. 1.8 kg 3 lb 15.5 oz
Camera Body Color	White/Black
Size of Screw Hole for Tripod	1/4-20UNC x1
Mountable Angle	< ±15°
Ceiling Mount	Yes
Supplied Accessories	AC power adapter (1) IR Remote Commander Unit (1) Ceiling bracket (2) Wire rope (1) Screw M3 x 8(8) Screw M2.6 x6 BLACK (1) HDMI cable fixing plate (1) Safety regulation (1) Download site information (1) Warranty (1)

Notes	
*1	Available after an upgrade via a 4K optional license.
*2	The values for dimensions and mass are approximate.

# Related products







**RM-IP500** 

PTZ Camera Remote Controller RM-IP10

IP remote control panel for BRC cameras

REA-C1000 Edge

Analytics
Appliance

Edge Analytics Appliance **MCX-500** 

Multi-Camera Live Producer





**SRGL-4K** 

4K license for SRG-X400/SRG-X120

#### **NUCLeUS**

The smart digital imaging platform for medical environments

## Gallery











