

SRG-X120

IP 4K* Pan-Tilt-Zoom Camera with NDI®**|HX capability



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 and 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 colour 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 reviewing remotely via a web browser, with support for RTSP (Real Time Streaming Protocol) 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.

- * Requires 4K optional license.
- ** NDI® is a registered trademark of NewTek, Inc.
- *** Requires firmware V2.00.

Note 1: This product contains pre-installed software and requires the purchase of licence 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[™] 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 theatres with a horizontal viewing angle of approx. 70° and up to 12x zoom capability.

Ideal for lecture caputure

Use the camera in conjunction with the Al-based REA-C1000 Edge Analytics Appliance to smoothly track the speaker's movements and automatically generate a cut-out 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-effictive school studio system integration, allowing flexible configuration with other networked NDI®-enabled devices.

* NDI® is a registered trademark of NewTek, Inc. 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.

Remote viewing

View pictures remotely over the Internet from a web browser, with support for RTSP.

Fast, fuss-free set-up

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

* Requires firmware V2.00.

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 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 (50Hz 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 | 47 |
| IP Video resolution | 3840x2160 (*1), 1920x1080, 1280x720, 720x576, 720x480, 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, 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 | 2ch |
| 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~+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 |
| | |
| General | |
| Power Requirements | DC 12V (DC 10.8 to 13.2V), PoE+ (IEEE802.3at compliant) |
| Power Consumption | 25.5 W Max. |
| 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) *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 |
| | AC power adaptor (1) |

| Supplied Accessories | IR Remote Commander Unit (1) Ceiling bracket (2) Wire rope (1) Screw M3 x 8 (9) 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









REA-C1000 Edge Analytics Appliance

RM-IP10

IP remote control panel for BRC cameras

RM-IP500 PTZ Camera Remote Controller

MCX-500 Multi-Camera Live Producer



SRGL-4K4K licen se for SRG-X400/SRG-X120



Gallery











