

SRG-X400

Standard 4K30P IP PTZ Camera with 30x (w/CIZ) 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-X400 remotely controlled PTZ camera is ideal for a wide range of applications—from classrooms and meeting spaces to faith centers, lecture halls, and medical environments.

The camera's 1/2.5-type Exmor R™ 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 lens that offers zoom capability up to 40x in Full HD*** (30x in 4K), with an expansive wide-angle coverage of approx. 70 ° 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, 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 Vizrt NDI AB

**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™ sensor captures high-quality images with very low noise, even in dimly lit environments.

4K upgrade option

Upgrade to 4K shooting via optional license.

Up to 40x zoom

Powerful zoom up to 40x* (in Full HD) allows finely detailed frame-filling close-ups. Responsive autofocus ensures that images stay clear and sharp, even at high zoom settings.

*With Clear Image Zoom

Wide viewing angle

Cover the whole scene in meetings and lecture theaters with a horizontal viewing angle of approx. 70°.

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 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 enables cost-effective school studio system integration, allowing flexible configuration with other networked NDI®-enabled devices.

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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.

* Requires firmware V3.00.

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 Exmor R 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	1.6 lux (1/30s 50IRE F2 high-

(50IRE)	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	30x (4K ^{*1} with CIZ**), 40x (HD with CIZ) **CIZ = Clear Image Zoom
Focusing System	Auto/Manual
Horizontal Viewing Angle	Approx. 70° (Wide)
Focal Length	f=4.4 mm (Wide) to 88.0 mm (Tele) F2.0 to F3.8

Minimum Object Distance	80 mm (Wide)~ 800 mm (Tele)
Pan/Tilt Angle	Pan: $\pm 170^\circ$ Tilt: $+90^\circ/-20^\circ$
Pan/Tilt Speed (Max.)	Pan: $300^\circ/s$ Tilt: $126^\circ/s$
Pan/Tilt Speed	Pan: 1.1° to $101^\circ/s$ Tilt: 1.1° to $91^\circ/s$
Pan/Tilt Speed (Slow)	Pan: 0.5° to $60^\circ/s$ Tilt: 0.5° to $60^\circ/s$
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	$3840 \times 2160^{*1}$, 1920×1080 , 1280×720 , 720×576 , 720×480 , 640×360

Compression Format	H.264: High, Main, Baseline Profile H.265: Main Profile
Maximum Frame Rate	H.264: 60 fps H.265: 60 fps
Bitrate Compression Mode	CBR/VBR (selectable)
Range of Bitrate Setting	512 Kbps ~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
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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
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Audio

Channel	2 ch
Audio Codec	AAC LC 128 kbps/ST (IP) AAC LC 256 kbps/ST (IP)
	Auto Level Control (ALC): On/Off Equalizer: Off, Low cut, Voice enhancement

Setting Option	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 Selectable)

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

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



SRG-XP1

Compact 4K60P IP
POV Remote Camera
with a 101° wide
viewing angle lens



SRG-XB25

Compact 4K60P IP
BOX-style Remote
Camera with 25x
optical zoom



SRGL-4K

4K license for SRG-
X400/SRG-X120



NUCLeUS

The smart digital
imaging platform for
medical environments

Gallery

