

The iXG

Camera System



PHASE**ONE**

what the world's best photography is made of

iXG Camera System highlights



Color accuracy & superior detail

The iXG Camera System uses CMOS sensors in both the iXG 100MP and iXG 50MP models to ensure the highest resolution and lowest noise levels. These sensors produce the most accurate colors and minute details, enabling accurate reproduction for all CH cultural heritage applications. The degree of detail, quality, and accuracy of color is crucial for the accurate reproduction of precious books, artworks, etc. The iXG 100MP Achromatic model uses the new Sony 100MP Achromatic sensor, combining the highest possible resolution and class-leading wide spectrum sensitivity that is so desired for specialized applications such as multi-spectral and NIR (Near Infra-Red) imaging.

Schneider Kreuznach Optics

The iXG Camera utilizes integrated Flat Field Optics with the 72mm and 120mm Schneider Kreuznach lenses. This compatibility addresses the needs of flat copy work, particularly useful for libraries, archives, and universities, for example. The Schneider Kreuznach lens design in combination with the digital lens perfection of Capture One CH, offers the highest quality in terms of resolution, flatness, sharpness, distortion, and color required for the most demanding reproduction applications.

Capture One CH software integration

The full integration of hardware with our customized Capture One Cultural Heritage software yields an efficient, professional workflow and precision results. Through the software, there is complete camera control, reliable performance, and expertly crafted RAW conversion algorithms. Disciplines for auto-cropping and aligning of both documents and books is a huge time saver, as is the automated workflow for scanning of negative film.

Industrial durability

The iXG Camera System is designed to work hard and to last. It offers industrial build quality, made with aerial-grade aluminum and using the most durable mechanical and electronic components available today. The Reliance Shutter's longevity comes with a guarantee of one million actuations. And with the iXG 100MP in electronic shutter mode, there is an unlimited number of shutter actuations.

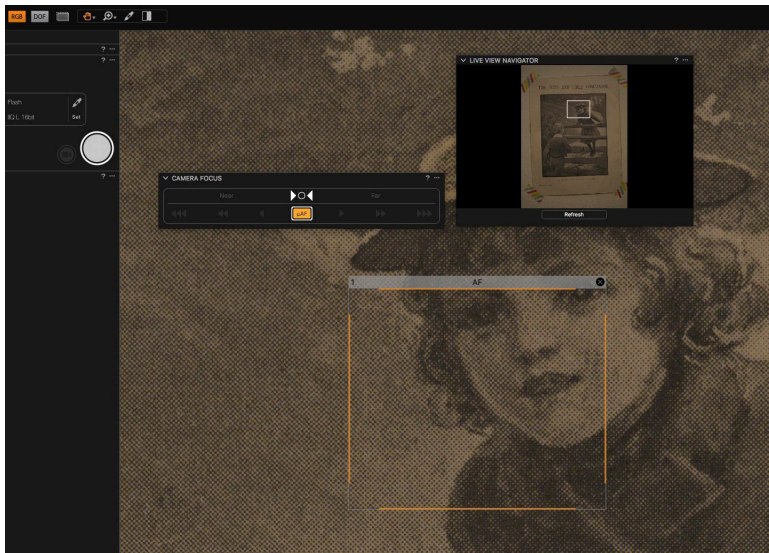
Precision focus control

With the iXG Camera System, get precise, accurate and smooth motor driven focusing. Position-recording of the lens and camera ensures optimum focus accuracy. Precision focus control with both manual and preset positioning, and contrast-based autofocus sets distance and resolution parameters accurately and reliably. This paves the way for automated setting up of camera position and focus for a specific job in terms of document size and capture resolution.

Scientific tools

The iXG Camera System is designed to be an open platform for new accessories needed for imaging applications by both existing and new customer segments. With the addition of accessory lighting and filtering, the wide spectrum, infrared, and multi-spectral capabilities of the iXG meet the highest standards required. These iXG capabilities also open the door to sequential imaging and computational imaging, required for both multi-spectral and 3D applications.

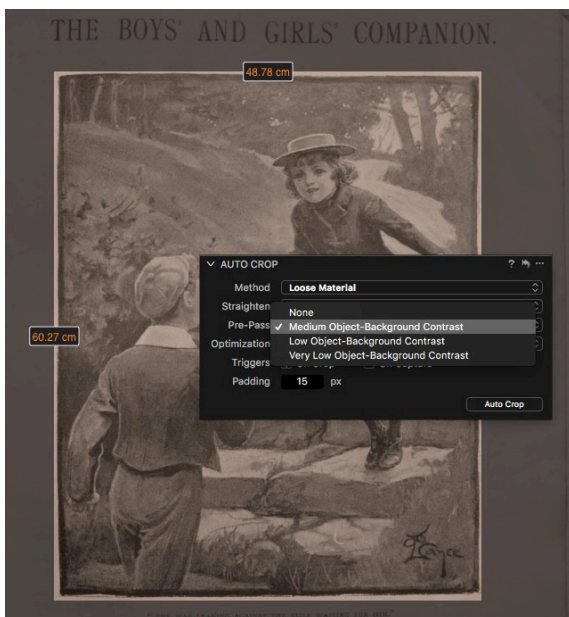
Capture One CH software



Auto Focus mechanism

The iXG's precise Auto Focus mechanism operates through Live View with Course and Fine modes. It can calculate contrast, distance, distortion and has the ability to detect the finest detail accurately and repeatedly.

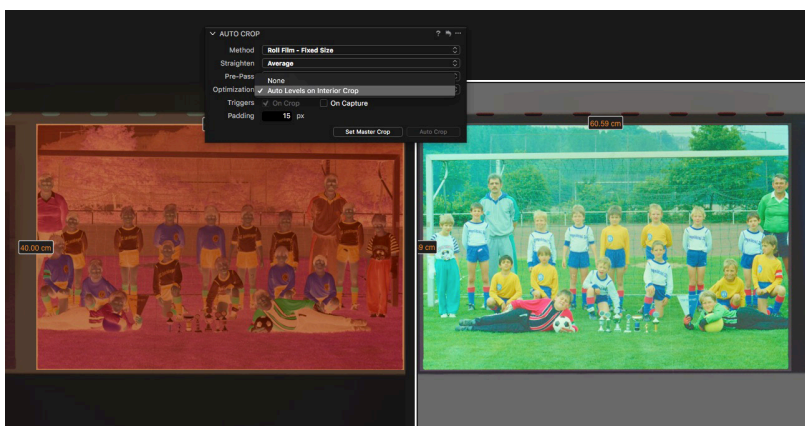
Auto Focus with iXG is supported by all versions of Capture One from 10.2 and onwards.



The Auto Crop tool

A powerful, smart Auto Crop tool adds optional Pre-Pass settings for reflective materials, allowing detection of different object-background contrast ratios.

The Auto Crop tool also adds options when capturing film strips, such as Auto Levels inside the crop. Built-In Styles can take care of all aspects of Negative Film conversion, including emulsion type and orientation.



CULTURAL HERITAGE

iXG Camera System

Technical specifications

System specification



Imaging sensor options	iXG 50MP, iXG 100MP and iXG 100MP Achromatic (See specification for Digital Backs)
Lens mount	Phase One iXG
Shutter type	Leaf shutter, intergrated in lens (reliance shutter/RS shutter)
Shutter speed	1/250s – 30s
Focus positions	Close range to near infinity, 21 mm max. extension
Focus control	Motorized & encoded, controlled from Capture One CH software
Mechanical mounts	Threaded holes at top & bottom with a dedicated L-Bracket
Triggering options	Hand release, host capture from software
Flash output	Via Secured LEMO connector
Live view / HDMI*	1920x1080 25p/30p, 1280 x 720 50p/60p
Data storage	USB 3.0 Tethered to Capture One CH, PRO and DB
Dimensions (mm)	Focused to infinity: 150 x 120 x 100 Focused to close range: 180 x 120 x 100
Weight (g)	2300 (Including 72 mm lens and mounting bracket)
Operational temp range (c)	10-35 (office environment)
Humidity (%)	15-80 (office environment)

* Will be available at a later date.

Lens specification



The iXG optics are designed and manufactured by Schneider-Kreuznach for highest quality and flat field performance. The lenses are mounted with iXG-RS leaf shutters guaranteeing 1.000.000 actuations. The iXG in-camera extension mount and extension tubes of 21mm and 42mm, for the 120mm lens, provide for the magnification options show below.

	Schneider Kreuznach 72mm RS-iXG	Schneider Kreuznach 120mm RS-iXG
Magnification range	Infinity to 1:5	1:6,9 to 1:1,2 with extension tubes
Lens thread diameter (mm)	40.5	46.0
Lens shade (collapsible, screw-on)	Included	Included

For more Information, please visit
www.phaseone.com/cultural-heritage

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