The iXH 150MP Camera System

The New Quality Standard for Archival Reproduction

PHASEONE

iXH 150MP Camera System

The Ultimate Image Quality- A0 at 300ppi scanning in a single shot

Built around a **151-megapixel CMOS backside illuminated (BSI) sensor,** the iXH 150MP camera delivers the highest available image resolution – enabling it to reach the benchmark of **A0@300ppi** scanning for flat objects, such as maps and drawings, in a single shot.

The sensor's **dynamic range (15 f-stops)** boosts light sensitivity with very low noise, to capture the smallest details, and delivers **unmatched color fidelity**

- Reliable, precise and resilient
- Outstanding dynamic range
- Faster data transfer
- Flexible connectivity

"The Camera of choice for high resolution imaging applications"

Brand new *UltraRes* 72mm Lens

A brand new Phase One-designed 72mm allows **Perfect Sharpness at all magnifications,** using groundbreaking ***UltraRes*** technology, optimized for 150MP and beyond.

The iXH 150MP Camera is also avaiblable with Schneider Kreuznach 120mm lens.

The two lenses allow **flat copy work to meet the demands of libraries, archives, and universities**. The lenses keep the color uniformity required for the most demanding reproduction applications.

The 21mm and 42mm extension tube accessories, used with the 120mm lens, are designed with the same accuracy and quality as the camera body and lenses, allowing close-ups at a higher resolution, resulting in accurate capture of small objects.

- Flat Field optics
- Designed for the iXH sensor
- Highest resolution
- Flatness
- Sharpness
- No distortion
- Keep color uniformity

"The lens you require for the most demanding reproduction applications"

Fully Automated, Repeatable Workflow

Capture One CH offers complete camera control, reliable performance and expertly crafted RAW conversion algorithms, accompanied with unique productivity tools such as **automatic cropping** and **alignment tools** for documents and books, and an **automated workflow for scanning negative film**

PPI-Assist accurately measures the distance to the object and enables easy positioning of the camera on any copy stand.

When used with **Autocolumn**, copy stands and Capture One CH, it is the only camera system on the market capable of **automated positioning for a specified PPI.**

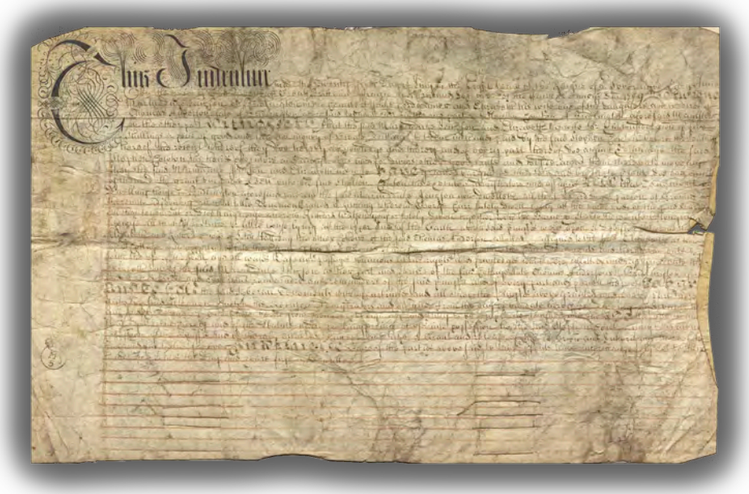
- Accurately measures distance to object
- Records PPI, Field-of-view and magnification
- Easy positioning of the camera
- For use with any copy stand

Color accuracy and finest detail

The iXH 150MP Camera System uses a **CMOS BSI sensor** with an **outstanding dynamic range of 15 f-stops** to ensure the highest resolution, sensitivity and lowest level of noise. It produces the most accurate colors and details thanks to the upgraded electronics and processors which allow high accuracy in the reproduction of Cultural Heritage applications such as artworks and precious books.

The iXH 150MP Achromatic and the iXH 150MP WS (Wide Spectrum) combine the highest resolution and **class-leading spectral sensitivity required** for specialized scientific imaging applications, research and conservation of manuscripts, maps and drawings.

With its ability to capture in color, UV and IR, the **iXH 150MP WS camera is the tool of choice** for imaging applications such as paintings, medical and forensics. By simply adding an IR block filter, the Wide Spectrum camera converts to a regular camera.



One million actuations guaranteed with Phase One Reliance shutter

The electromagnetic **Reliance Shutter** uses innovative technology that **enhances exposure speed and lifespan**, allowing **efficiency** and **reliability** for the most demanding digitization projects.

The newly designed housing with its **integrated heat sink and cooling fins**, ensures that the temperature remains low even during long days of running Live View continuously, and thus producing **noise-free images and consistent results.**

Tethering built for high-volume

iXH 150MP is world first Cultural Heritage Camera with **10G Ethernet and USB-C options**, providing the fastest and most reliable data transfer

Powerful processing Engine: The Infinity platform

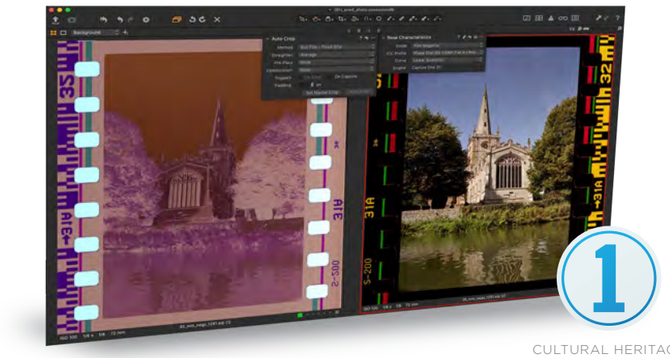
Designed from the ground up by Phase One, this **new processing platform** seamlessly **handles large files at high speed**, for a long duration, typical with high volume cultural heritage digitization projects

“The iXH Camera System is designed to work hard and last long!”

Capture One CH workflow software

The full integration of hardware with Capture One CH software yields an efficient, professional workflow with precision results. It includes AutoColumn and PPI-Assist functionalities for easy setup.

“Incredible time saver!”



CULTURAL HERITAGE

- Negative film reproduction tool
- Auto Crop & Auto Rotate
- AutoColumn with AutoPPI and PPI-Assist
- Barcode scanner tool
- Tools lock
- Option for simple user interface for non-trained operators

Scientific Tools and Capture One CH

The iXH 150MP Camera System and Capture One CH are designed to provide an open platform for new imaging applications. The capabilities and the **incredible focusing accuracy** open doors to computational and sequential imaging, indispensable for multi-spectral and 3D applications.

Images courtesy of RB Toth Associates/Equipoise Imaging

Meeting the highest standards with iXH 150MP”

iXH 150MP Camera System

Technical specifications

System Specification

	iXH 150MP	iXH 150MP Achromatic	iXH 150MP Wide Spectrum
Sensor size	53.4 x 40.0		
Resolution	14204 x 10652		
Pixel size (µm)	3.76		
ISO Range	50-25,600	200-102,400	50-25,600
Data Interfaces	USB3, Ethernet 10G Copper/ Fiber		
File Formats	Raw 14bit, Raw 16bit		
Weight (gr) with 72mm MkII lens	3,450 inc. L-Bracket		
Dimension (mm) with 72mm MkII lens	227 x 130 x 130 inc. L-Bracket		
Cooling	Integrated heat sink and cooling fins		
Approvals	FCC Class A, CE, RoHS		
Operating Temperature (°C)	-10 to 40		
Operating Humidity (%)	15 - 80 (non-condensing)		

Lens Specification

	Phase One RS 72mm MkII lens	Schneider Kreuznach 120mm
Number of Elements	13	8
Number of groups	8	4
Focal Length (mm)	72	120
Image circle (mm)	67.36	110
Aperture Range	f5.6 -f22	f5.6 -f22
Floating Element	Yes- Firmware controlled	No
Min. object distance	44cm	67cm
Magnification range	1:70 – 1:3 (optimal 1:11)	1:6.9 to 1:.1.2 with extension tubes
Weight (gr)	1,470	1,050
Dimension (mm)	150 x 90 x 115	150 x 90x 115
Filter Thread (mm)	77	46

For more information, please visit
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