PHASEONE



RC100

FADGI 4-Star out of the box



The Phase One RC100

High-volume performance. Precision results.

Cultural institutions and Digitization Service Providers regularly face the challenge of achieving the highest image quality, meeting the most demanding standards and following strict guidelines, while trying to handle large volumes of objects and materials.

The Phase One RC100 addresses this challenge and provides an Out-Of-The-Box FADGI 4-Star compliance, as well as simple, intuitive workflows. Evaluating the Image Engineering Universal Test Targets (UTT), images are analyzed using NimbusQA*.

Sharing sensor technology and architecture with its iXH siblings, it utilizes high quality, high resolution, low distortion Linos Inspec.X Machine Vision lenses - USB-C and 10G connectivity, and purposefully designed heat sink integration, enabling high capture rate and noise-free images.

Paired with a 60mm lens at 400ppi, it covers an area larger than A2 and is perfect for objects such as, flat A3 documents, newspapers, maps and drawings.

CMOS BSI sensor with an outstanding dynamic range of 15 f-stops, ensure high resolution, accurate colors and low level of noise. Industrial-grade design, with no moving parts and an electronic shutter, allow virtually unlimited number of lifetime actuations. USB-c and 10G connectivity provide maximum flexibility, smooth Live Preview and high capture rate.

The RC100 is fully supported by Capture One CH, NimbusQA,´and works with the Phase One D8+ LED lighting system* as well as any 3rd party continuous lighting. The integrated Arca-Swiss type camera mount is compatible with the Phase One AutoColumn copy stands. An optional L-Bracket is available and allows for easy, accurate rotation of the camera around the lens' optical axis.

*a range of Device Level and Object Level targets are supported

Key benefits and features

Capture more, effortlessly

The RC100 handles high-volume workflows with ease, offering infinite capture capabilities paired with machine vision, manual focus optics and flexible high-speed connectivity for uninterrupted productivity.

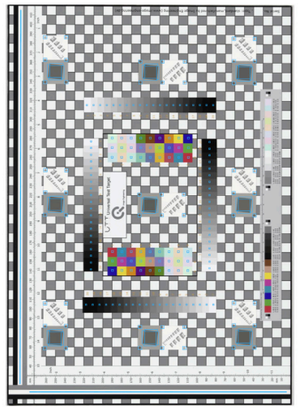
Precision in every frame

Achieve consistent, high-quality results with 400ppi A2 resolution and optics engineered for flat document reproduction—perfect for detailed digitization.

Sustainable performance, cost-effective solution

Industrial-grade design and flexible high-speed connectivity for high-volume digitization, the RC100 delivers long-term reliability and low operational costs. Optimized for all types of flat documents, it provides scalable, timesaving performance within large scale projects for archives, institutions, and digitization service providers.

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Input file

Parameters for test file

Target	UTT TE262
Export format	Tiff
Export bit depth	16 bit
Export PPI	400
Capture PPI	400
Capture color space	ARGB 98
Capture size	29.1 x 21.8 in
Capture aperture	f8
Camera profile	CH D8+ LED
Base curve	Linear scientific
Capture software	Capture One CH 23
Lighting	Phase One D8 R+ LED
Lens	Inspec.X L 4/60mm

Analysis results

Results for RC 100 w/60mm F4

Noise	★★★★
SFR10	★★★★
SFR50	★★★★
Bit depth	★★★★
Color mode	★★★★
Resolution	★★★★
Sharpening	★★★★
Color space	★★★★
Tone response	★★★★
White balance	★★★★
Color accuracy 90	★★★★
Master file format	★★★★
Lightness uniformity	★★★★
Average color accuracy	★★★★
Reproduction scale accuracy	★★★★
Color channel misregistration	★★★★

Analysis metadata

Color, deltaE 2000

Mean	1.4587
Standard deviation	0.9297
Max	4.5189
Min	0.1173
90th Percentile	2.6176

Analysis metadata

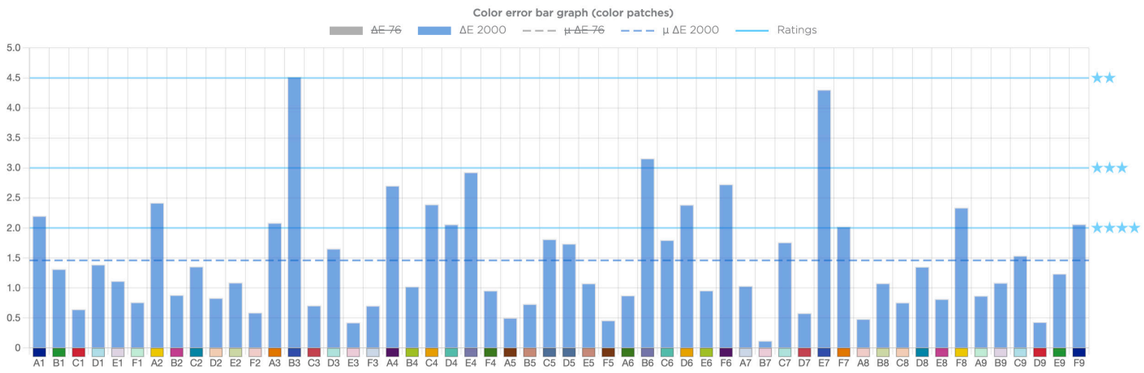
White Balance, deltaE(a*b*)2000

Mean	1.1112
Standard deviation	0.8062
Max	4.3089
Min	0.0543
90th Percentile	2.1495

Analysis metadata

Noise, L* standard deviation

Mean	0.5515
Standard deviation	0.1179
Max	0.8004
Min	0.3766
90th Percentile	0.7241



*preliminary ICC camera profile/s

Technical specifications

Phase One RC100

Resolution (pixels)	101 Megapixel 11,656 x 8,742
Pixel size (micron)	3.76
Effective sensor size (mm)	43.9 x 32.9
Color depth (per channel)	16 bit / 14 bit
ISO range	50-1,600
Dynamic range (f-stop)	15
Capture rate (FPS)	2.0
Lens mount	M72mm, Phase One mount
Shutter type	On sensor Electronic Shutter
Shutter speed	1/4000 - 1 hour
Focus positions	Manual
Focus control	Manual
Mechanical mounts	Arca-Swiss Dovetail, 3/8", optional VHQ L-Bracket
Interface	USB-c / SFP+ Module (1G/10G)
Triggering options	Hand release, host capture from software, foot pedal
Live View / HDMI	1920 x 1080
Data storage	Tethered to Capture One CH
Dimensions (mm) with M72mm mount (exc lens)	90x90x73 (90x90x103 with heat sink)
Weight with M72mm mount excluding lens and mechanical mounts	630g
Operational temp range (c)	-10 to 40
Humidity (%)	15-80 (office environment)
Lenses	Designed and manufactured by QiOptiq, The Linos Inspec.X lenses deliver the highest quality in terms of resolution, flatness, sharpness, distortion and color required for the most demanding reproduction applications
	Inspec.X L 4/60mm
Min. focusing distance (cm)	55 mm
Power system, incl. 5m cable	24V
Software	Capture One CH
Min. system requirements	See www.captureone.com for latest system requirements

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About Phase One

Phase One is a global leader in digital imaging technology. Our commitment to imaging quality spans a wide spectrum of applications, from professional photography to heritage digitization, industrial inspections, aerial mapping, security and space.

With over three decades of innovation, Phase One has pioneered core imaging technologies and a range of digital cameras and imaging modules, setting new standards for image quality in terms of resolution, dynamic range, color fidelity and geometric accuracy. Together with its customers, technology partners and its global network of distributors, Phase One drives the imaging industry forward.

We deliver Imaging Beyond Imagination.
www.phaseone.com

Contact your Phase One representative regarding availability of Phase One products in your region.

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