

Phase One

XF 100MP

The Ultimate Camera System



PHASE**ONE**

what the world's best photography is made of

Phase One XF 100MP

The Ultimate Camera System

Dedicated to Image Quality

For more than 20 years we at Phase One have been pushing the limits of digital image quality. Striving to create the ultimate experience for professional photographers that demand the best in image quality and creative freedom, we've made every possible effort to ensure Image Quality is emphasized above all else. No effort is too great or decision too small when we consider how Phase One can optimize the end result and guarantee the ultimate photograph. With the XF 100MP Camera System, everything we have been working on finally comes together in one system. Ultimate image quality combined with the ultimate creative freedom. Introducing the XF 100MP Camera System - What the worlds best photography is made of.



Niels V. Knudsen

Vice President
Innovation and Application development



100MP
Full Frame CMOS Sensor

16 bit
Color

15 stop
Dynamic Range

12800
ISO 50 - 12800



image at
100%



image at
20%

Ultimate Resolution

100MP Full Frame CMOS Perfection

We were the first to offer you Full Frame Medium Format CCD systems and now we're proud to be the first to offer a Full Frame Medium Format CMOS solution. The Phase One XF 100MP Camera System offers the same great advantages of full frame usability with the added benefits of CMOS technology. No lens crop factors, no focus screen masks, just uncompromising ultimate image quality from edge to edge.



© Alexander Flemming

Shot with [XF 100MP](#) and [Schneider Kreuznach 120mm LS Macro](#)



Ultimate Color

16 bit Color

The first CMOS based Medium Format system capable of capturing and processing full 16-bit color, the Phase One XF 100MP processes full color depth throughout the entire imaging pipeline. The result is a CMOS system that can deliver colors just as the previous leader in image quality, our exclusive Phase One CCD based counterparts. Not only does the XF 100MP Camera System capture the full color depth data, but the captured colors are optimized in-house by Phase One's image professor Niels V. Knudsen and his team, ensuring the very best in image quality from Capture One software.

“The XF 100MP captures the intricate detail of my creations with such astonishing precision, it surpasses every expectation I ever dreamt possible.”

- Alexia Sinclair



© Alexia Sinclair,

Shot with XF 100MP and Schneider Kreuznach 80mm LS f/2.8

Ultimate Dynamic Range

15 Stops Dynamic Range

The Phase One XF 100MP Camera System delivers an unparalleled 15 stops of dynamic range, retaining unmatched detail in both highlights and shadows. This is the highest performing system in terms of dynamic range that the Medium Format world has to offer. The Phase One XF 100MP Camera System is engineered to provide the detail and unmatched quality, demanded by the worlds leading photographers.

“...People ask me what’s the most important attribute of a medium format file. For me, it’s not pixels or even the lenses, it’s the incredible dynamic range...”

- Peter Eastway



© Peter Eastway

Shot with XF 100MP and Schneider Kreuznach 240mm LS f/4.5





© Peter Eastway
Shot with [XF 100MP](#) and [Schneider Kreuznach 55mm LS f/2.8](#)

Ultimate Workflow

Fast and Fluid Live View

One of the main advantages of CMOS technology is the stunning sensor read-out speed. One benefit from this read-out speed is fast and fluid Live View enabling simple, clear and precise focus in real-time as well as immediate reference for dynamic composition. With Phase One XF Medium Format Camera Systems and high-resolution imaging, focus can be critical and Live View can ensure consistent success.



Ultimate ISO Flexibility

“The XF 100MP has the best high ISO performance of any camera I’ve used. Over 100MP, dynamic range to kill for, and high ISO performance that is better than anything else out there, what’s not to love?”

- Tim Kemple

ISO 50 - 12800

The new Phase One XF 100MP Camera System offers clean and crisp images from ISO 50 to 12,800, providing the freedom to capture incredible high-resolution images across a range of photographic disciplines. The extensive ISO flexibility offers full control of every capture scenario, with unprecedented support and integration through Capture One’s proprietary software algorithms.



Capture One Pro 9

Ultimate Power, Quality, Precision

The Capture One Difference

CMOS sensor technology allows for an unmatched Live View experience. With the IQ3 50MP, and now the IQ3 100MP, Live View is greatly improved with the ability to capture during Live View operation. Whether you are using Live View on the digital back itself or through Capture One Pro, a simple click of the shutter will capture your image at full resolution just as you are seeing it in real-time. Once the image is captured, you'll seamlessly return to live view to continue your required workflow.



Ultimate Service & Support

Phase One offers the best in-class support, promising our hardware users a response from the globally positioned support team within 8 hours, regardless of location and no matter what the concern. "We promise to respond within 8 hours. But typically, that is 7 hours more than we need" - Ulf Liljegren, Phase One Support Manager

5
Year System
Warranty

Offering an unprecedented and industry leading 5-year warranty, Phase One covers the entire system from top to bottom, lens to sensor. If your Phase One system should suffer a fault within 5 years, we will tackle repairs without hesitation.

5
Year Uptime
Warranty

Exclusive to Phase One, we provide you with a worry free 5-year uptime guarantee. This guarantee provides you access to loan equipment should you need to send us your system for any reason, as well as on site service should it be necessary.

Imaging Sensor



XF 100MP	
Resolution	101 Megapixel
Long exposure	60 minutes
16 bit Opticolor*	yes
Dynamic range	15 stops
Sensitivity (ISO)	50 - 12800
Lens factor	1.0
Sensor type	CMOS
Sensor Size	53.7 x 40.4
Active pixels	11608 x 8708
Pixel size (micron)	4.6 x 4.6
Output image dim. 300 DPI	98.3 x 73.2 cm
Output image dim. 600 DPI	49.1 x 36.9 cm
Mount options	XF / DF+ / Hasselblad
Tethered capture	Firewire 400/800 USB 2/3
Live View	IQ3 Touch Screen via USB to Capture One to HDMI output

[For more information check the technical specification inlay](#)

Controls & UI



Camera OS

User Interface	OneTouch UI
Screen layouts	2 standard layouts
Custom modes	3 configurations
Custom settings	80+ settings
User upgradeable via Back	yes

Capture & Light metering



Features

Capture Drive Modes	Single yes	Continuous yes	Low vibration yes	Exposure bracketing 2-7 frames
Toggle Mirror-up	yes			
Capture from liveview	yes			
TTL Light metering	Average, Spot and Auto			
HAP-1 Light Metering	used with waist level finder (Spot)			
Focus Confirmation	90° Prism yes	Waist level Finder On top screen		
Viewfinder black-out time	150ms (FPS), 400ms (LS)			
AE Lock	yes			
Exposure compensation	+/- 5 EV			

Focus & Autofocus

HONEYBEE
AUTOFOCUS PLATFORM



HAP-1

Autofocus Sensor	HAP-1 1MP CMOS Sensor
Autofocus Processor	HAP-1 Processor with Floating Point Architecture
Autofocus Assist light	HAP-1 Precision White light
Hyperfocal Point Focusing	yes
Upgradeable Autofocus configurations & Patterns	yes
Autofocus modes	Spot, Average, Hyperfocal
Interchangeable focusing screens	Matte (default), Split, Center Prism

Viewfinder



90° Prism

Waist level

	90° Prism	Waist level
Modular viewfinders	Yes	
Frame Coverage	97%	97%
Exchangeable diopter	3 options	7 options
Diopter range	Range from -5 to +3	Range from -3 to +2
Default diopter magnification	-2.5 to +2.5	0
Collapsible diopter	no	yes
Visible Exp. information	yes	On top screen

Size & Weight



Dimensions (W x H x D)

Weight

XF Camera System* w/ 90° Prism viewfinder	152 x 135 x 160 (mm)	1390g
XF Camera System* w/ Waist level finder	152 x 173 x 160 (mm)	1020g
XF Camera Body w/o battery	152 x 108 x 85 (mm)	790g
IQ3 Digital back	98.5 x 88.5 x 62.3 (mm)	695g
90° Prism Viewfinder	68 x 52 x 152 (mm)	500g
Waist level finder	67 x 17 x 57mm (closed) 67 x 65 x 57 (open)	130g

* without lens

What's in the box



XF 100MP Camera System

Phase One XF Camera with Prism viewfinder	yes
IQ Digital Back	100MP
Waist level viewfinder	optional
Schneider Kreuznach 80mm LS f/2.8	yes
Capture One Pro 9	yes
Pelican Storm Carry On Case	yes
F-stop Phase One flexible ICU	yes
F-stop Phase One Laptop Sunshade	yes
Charger for IQ3 and XF	yes
3400 mAh Batteries	4
16 GB CF-Card and Reader	yes
Gray Cards & LCC calibration kit	yes
Sensor Cleaning Kit	yes
Firewire 800 and USB 3.0 cable	yes
Focusing screen	yes

Focal Plane Lenses

PHASEONE



28mm AF f/4.5

A Superb, extreme wide-angle lens for full format digital. Perfect for landscape, architecture and creative control.

PHASEONE



35mm AF f/3.5

A compact and lightweight wide-angle. Ideally suited for street, landscape, interior or architecture photography.

PHASEONE



45mm AF f/2.8

Using low dispersion glass, this wide-angle lens offers minimal chromatic aberration and is ideal for high contrast conditions.

PHASEONE



80mm AF f/2.8

A great all-purpose lens, exhibiting outstanding optical performance. All scenes are captured with amazing detail and accuracy.

PHASEONE



120mm MF f/4 Macro

For beauty, portrait and close-up macro work, this lens will deliver amazing results.

PHASEONE



120mm AF f/4 Macro

The 120mm AF Macro lens is staggeringly sharp and ideal for beauty, portraits and close-up macro work this lens delivers amazing results in all fine detail applications.

PHASEONE



150mm AF f/2.8

To enhance operation for wedding and portraits, this lens offers fast internal focusing for easy use with special effect filters and vignettes.

PHASEONE



75-150mm AF f/4

The versatility of this lens makes it a preferred choice for location photographers, securing great image quality at all focal lengths.

Schneider KREUZNACH



120mm TS f/5.6

Perfect for studio work, product shots and for creating stunning images using an offset focus plane. 8° tilt, 12mm shift, rotating lens groups 360° on both axes.

Schneider KREUZNACH



2x Teleconverter

The 2x teleconverter is especially well suited for landscape photography and a compact, flexible and affordable alternative to longer telephoto lenses.

Leaf Shutter Lenses

Schneider KREUZNACH



28mm LS f/4.5

Provides complete coverage of full-frame medium format, and provides the fastest flash synchronization capabilities.

Schneider KREUZNACH



35mm LS f/3.5

The professional choice for wide-angle, providing quality in both flash and daylight shooting.

Schneider KREUZNACH



55mm LS f/2.8

Minimal distortion semi-wide-angle design provides a normal look, great for editorial portraits and lifestyle photography.

Schneider KREUZNACH



80mm LS f/2.8

A preferred choice for location fashion photographers using fill flash and an essential lens for every photographers kit.

Schneider KREUZNACH



110mm LS f/2.8

A longer focal length with just enough optical compression for full-length fashion, beauty and portraiture.

Schneider KREUZNACH



120mm LS f/4.0 Macro

Ideal for close-up product shots, and equally ideal for close up beauty, action, nature and wildlife photography.

Schneider KREUZNACH



150mm LS f/3.5

A standard portrait lens with applications in fashion, beauty, lifestyle and sports.

Schneider KREUZNACH



240mm LS f/4.5

Ideal lens for getting close to your subject while maintaining your distance, whether you're shooting beauty, sports, landscape or wildlife.

Schneider KREUZNACH



40-80mm LS f/4.0

Ultra sharp rendition on all focal lengths. The optical quality of this zoom lens is comparable with what you would expect from a genuine prime lens.

Schneider KREUZNACH



75-150mm LS f/4.0

This lens provides flash sync up to 1/1600s and the freedom to compose your framing.

Stand Out

XF 100MP



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PHASEONE
what the world's best photography is made of