IQ Digital Back Overview

	IQ1	180	IQ.	160	IQ	140
Description	World leading in with 80 megapi resolution. Swit and get 20 meg frame images a a faster workflo sensitivity up to also the new, in screen.	xel full-frame ch to Sensor+ gapixel full- s well as w and ISO 3200. Enjoy	The IQ160 digit the optimal solt demanding pho offering 60.5 m full-frame captu touch screen w intuitive zoom, function.	ution for the otographer, egapixel ures and a new	for the apher, and a new fast and the perfect combination of world leading image quality and a fast workflow. The new touch screen provides complete intuitive control on set.	
Sensors	40.4 mm 53.7	mm	40.4 mm	9 mm	32 33 43.9 mm	
Lens Factor	1.0		1.0		1.3	
CCD size effective	53.7 x 40.4 mm		53.9 x 40.4 mm		43.9 x 32.9 mm	
Active pixels full resolution	n 10328 x 7760 8984 x 6732 73		7320	x 5484		
Active pixels Sensor ⁺	5162	x 3878	4490 x 3364 3658 x 2740		x 2740	
Pixel size (micron)	Full res. 5.2 x 5.2	Sensor ⁺ 10.4 x 10.4	Full res. 6 x 6	Sensor⁺ 12 x 12	Full res. 6 x 6	Sensor⁺ 12 x 12
Resolution (megapixels)	80	20	60.5	15	40	10
Light sensitivity (ISO)	35 - 800	140 - 3200	50 - 800	200 - 3200	50 - 800	200 - 3200
Exposure time	1/10.000 sec	c. – 2 minutes		1/10.000 se	c. – 1 minute	
Image quality	16bit-OptiColor+, 12.5 f-stops and Lens+ technology					
Capture time (frames per sec.*)	0.7	0.9	1.0	1.4	1.2	1.8
Image buffer		1 GB Advanced high speed RAM				
Display	3.2" touch screen with 1.15 megapixels 290 ppi(dpi) 16 million colors, 170° viewing angle					

^{*)} Maximum expected performance. The actual performance will be dependent on the camera model and on the camera and digital back capture modes. Content is subject to change without notice



IQ160 Camera System



Nonstop Performance

The days when a photographer was waiting for the buffer to clear are over. The new Phase One IQ160 provides 60.5 megapixel full-frame photography - limited only by the media storage capacity.

The Phase One IQ160 provides the world's fastest tethered photography via the FW800 port. This will allow the photographer to focus completely on the creative aspects of photography and let the Phase One IQ160 camera system handle the rest.

Enjoy the seamless compatibility between Phase One digital lenses or Schneider Kreuznach leaf shutter lenses and the Phase One 645 DF camera body, which in conjunction with the IQ160 will provide the optimal solution for the demanding photographer.

The new 3.2" touch screen lets you check images fast and easily navigate between menus and features.

The wide format display allows for a full 4:3 aspect ratio file image right next to important image information, such as the histogram.



IQ160 Digital Back Specifications



Inset image © Eugeni Pons

- 60.5 megapixel resolution for extreme detail level
- 645 full-frame CCD
- 15 megapixel Sensor+ resolution for higher light sensitivity and faster workflow
- Extreme 12.5 f-stops dynamic range
- 1.15 megapixel resolution 3.2" display with vibrant colors
- Touch screen functionality to pan, browse and zoom up to 400%

Imaging technology	
CCD	Full frame CCD
Lens Factor	1.0 / Full frame
Resolution	60.5 mega pixels
Active pixels	8984 x 6732 pixels
CCD size effective	53.9 mm x 40.4 mm
Pixel size	6 x 6 micron
Image ratio	4:3
Dynamic range	12.5 f-stops

IQ160 full resolution	n capture mode
Resolution	60.5 mega pixels
Pixel size	6 x 6 micron
RAW file compression	IIQ large: 60 MB IIQ small: 40 MB
ISO	50, 100, 200, 400, 800

Sensor+ capture mode	
Resolution	15 mega pixels
Pixel size	12 x 12 micron
RAW file compression	IIQ large: 15 MB IIQ small: 10 MB
ISO	200, 400, 800, 1600, 3200

Output files (via Capture One)		
Color depth	16 bit per color	
Image file formats	All output formats of Capture One are possible: TIFF-RGB, TIFF-CMYK, JPEG	
Color management	RGB, Embedded ICC profile, CMYK	

LCD screen	
Size	3.2"
Resolution	1.15 megapixel touch screen
Viewing angle	170°

Lighting
Supports all photographic lights:
Flash, tungsten, daylight, fluorescent, HMI

Operating conditions	
Temperature	-10° to 50°C (14° to 122°F)
Humidity	15 to 80% RH (non-condensing)

Com	puter minimum requirements
Mac	Fast Intel Core™ 2 Duo or later CPU, 4 GB RAM, Fast HDD: RAID 0 configured systems for max per- formance, Nvidia 8800 series graphics card or newer
PC	Intel® Pentium® 4, 4 GB RAM, 64bit,10 GB free hard disk space, IEEE 1394 interface, Windows XP®, Service Pack 3 or Windows Vista®, Service Pack 1

IQ back mounts		
Phase One/ Mamiya	Phase One 645DF/AF Mamiya 645DF/ AFDIII	
Phase One H101	Hasselblad H1 and H2	
Hasselblad V	Hasselblad 555ELD, 553ELX, 503CW and 501CM Via adaptor: Mamiya RZ67 Pro II Mamiya RB67	
Contax	Contax 645AF	

Wide angle & technical cameras
4 x 5" via FlexAdaptor: Arca Swiss, Cambo, Linhof, Toyo,
Sinar, Plaubel, Horseman.

Storage files
Phase Ones IIQ RAW file format speeds up the image capture
and file transfer. It increases the storage capacity by turning
the full 16 bit image data into a compact RAW file format.
The default IIO RAW-large format is completely lessless

Software
Capture One 6.2 or later
Certifications
CE

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645DF Camera Body Specifications



- Open platform for maximum choice and compatibility
- Durable, proven platform for secure operation
- Ergonomic handling and ease of use
- Use Phase One digital lenses, Mamiya AF/AFD lenses or Hasselblad V lenses
- Exposures from 1/4000s to 60 minutes
- Flash synchronization up to 1/1600 sec.

Shutter speed from 1/4000s to 60 minutes, extremely high flash synchronization up to 1/1600 second to stop action with fast shutter speed or flash.

The mirror and viewfinder of the Phase One 645DF camera are almost three times larger than those of 35mm cameras, providing much greater control of focus and composition.

While hosting a complete list of features and custom functions, the Phase One 645DF camera is extremely easy to use. All settings important to the exposure are easily controlled by manual dials and soft buttons.

Camera type	Modular 645 AF SLR body
Lenses	Phase One Digital focal plane lenses, Schneider Kreuznach leaf shutter lenses and Mamiya 645 AFD lenses Compatible with Hasselblad V lenses
Backs	Open platform back mount
Auto focus	TTL phase-difference AF with 3 focus points Focus confirmation in manual mode Infrared AF assists for unfailing focus Auto focus lock for swift AF/ M shift
Shutter	1/4000s to 60 minutes Up to 2 fps Shutter speed bracketing
Flash	Focal plane shutter: Up to 1/125s Leaf shutter lenses: Up to 1/1600s' 1st and 2nd curtain flash synchronization X sync terminal and support for TTL flash
Light Metering	TTL metering (average, spot and auto) Programmable AEL button Exposure compensation: +/- 5EV
Mirror-Up	Electronically-activated by switch on grip

Viewfinder	Fixed prism viewfinder Exchangeable diopter from -5 to +3 LCD panel with full exposure information
Focusing Screen	Interchangeable focus screens Laser engraved mask for digital back Matte, Grid, Checker, Microprism
Selftimer	Self-timer from 2 to 60 sec
Remote	Screw-in cable release on shutter button Terminal for electronic triggering devices
Stop Down Preview	Stop down button on front of camera
Tripod Socket	1/4 inch and 3/8 inch included
Power Requirements	6 AA batteries (standard or rechargeable) External battery pack – 6 AA batteries External AC adapter
User configuration	3 Custom dial modes for capture settings 19 custom functions Customizable dials and buttons
Size	W, H, D // 6, 5, 7.2" // 153, 128, 184mm
Weight	35 oz. / 1030g. w/o batteries

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