IQ Digital Back Overview

| | IQ | 180 | IQ ² | 160 | IQ | 140 | |
|--|-------------------------|--|------------------------------|---|-----------------------|--|--|
| with 80 resolutio and get frame in a faster sensitivi also the | | orld leading image quality h 80 megapixel full-frame solution. Switch to Sensor+ d get 20 megapixel full- me images as well as aster workflow and ISO nsitivity up to 3200. Enjoy o the new, intuitive multi uch screen. | | The IQ160 digital back is the optimal solution for the demanding photographer, offering 60.5 megapixel full-frame captures and a new multi touch screen with a fast and intuitive zoom, pan and browse function. | | The IQ140 digital back delivers the perfect combination of world leading image quality and a fast workflow. The new multi touch screen provides complete intuitive control on set. | |
| Sensors | 40 0.4 mm 53.7 | 7 mm | 40 0.4 33 53. | 9 mm | 32. 9 mm 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 | 10328 | 10328 x 7760 | | 8984 x 6732 | | 7320 x 5484 | |
| Active pixels Sensor ⁺ | 5162 | x 3878 | 4490 x 3364 | | 3658 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) | 50 - 800 | 200 - 3200 | 50 - 800 | 200 - 3200 | 50 - 800 | 200 - 3200 | |
| Exposure time | | | 1/10.000 sec 1 minute | | | | |
| Image quality | | 16bit-Op | tiColor+, 12.5 f-st | ops and Lens+ 1 | echnology | | |
| 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" retina tvne | multi touch screer | with 1.15 megapi | xels 290 ppi(dpi) 1 | 6 million colors, 1 | 70° viewing angl | |

*) 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



Touch the Future

The Phase One IQ140 camera system is the first step into the intuitive future. The 4-button navigation is now complemented by touch screen navigation, providing complete intuitive control of the Phase One IQ140 digital back.

New technology means more options, but the Phase One solution is always focused on performance, quality and stability. Digital photography has never provided more options. The Phase One IQ140 will easily reproduce scenes with extreme tonal range and details in one shot from a full 12.5 f-stop dynamic range.

Enjoy the seamless compatibility between Phase One digital focal plane lenses or Schneider Kreuznach leaf shutter lenses and the Phase One 645 DF camera body, which in conjunction with the Phase One IQ140 will provide the optimal solution for the demanding photographer.

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|----|----|-----|---|---|---|
|----|----|-----|---|---|---|

Your local Phase One partner

IQ140 Camera System



Inset image © Jens Honoré

| Imaging technology | | |
|------------------------------------|--------------------|--|
| Lens Factor | 1.3 | |
| Resolution | 40 megapixel | |
| Active pixels | 7320 x 5484 pixels | |
| CCD size effective | 44 mm x 33 mm | |
| Pixel size | 6 x 6 micron | |
| Image ratio | 4:3 | |
| Dynamic range | 12.5 f-stops | |
| IQ140 full resolution capture mode | | |

| | Resolution | 40 megapixel | |
|--|----------------------|--------------------------------------|--|
| | Pixel size | 6 x 6 micron | |
| | RAW file compression | IIQ large: 40 MB IIQ small: 26 MB | |
| | ISO | 50, 100, 200, 400, 800 | |
| | ada | | |

| Sensor+ | capture | mod | le |
|---------|---------|-----|----|
| | | | |

| Resolution | 10 megapixel |
|----------------------|-------------------------------------|
| Pixel size | 12 x 12 micron |
| RAW file compression | IIQ large: 10 MB IIQ small: 7 MB |
| ISO | 200, 400, 800, 1600, 3200 |

| | 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 |

| touch screen |
|--------------|
| |
| |

Lighting

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

| 40 megapixel resolution for | extreme | detail l | evel |
|-----------------------------|---------|----------|------|
|-----------------------------|---------|----------|------|

- 645 full-frame CCD
- 10 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
- Multi touch screen functionality to pan, browse and zoom up to 400%

| Oper | Operating conditions | | | | |
|---|---|-------------------------------------|--|--|--|
| Temperature | | | 0° to 40°C (32° to 122°F) | | |
| Humi | dity | | 15 to 80% RH (non-condensing) | | |
| Com | puter minim | um | n 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 | | D 0 configured systems for max per- | | | |
| PC | C 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 ba | IQ back mounts | | | | |
| 1 11000 0110/ | | | Phase One 645DF/AF Mamiya 645DF/ AFDIII | | |
| Phase One H101 | | Н | asselblad H1 and H2 | | |
| a | | ar | asselblad 555ELD, 553ELX, 503CW nd 501CM ia adaptor: Mamiya RZ67 Pro II Mamiya RB67 | | |
| Conta | ах | С | ontax 645 AF | | |
| Wide | angle & teo | :hn | ical 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 IIQ RAW-large format is completely lossless. | | | | | |
| Software | | | | | |

| Software | |
|--------------------------|--|
| Capture One 6.1 or later | |
| Certifications | |
| CE | |

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- 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
- Guaranteed up to 300.000 captures or 3 years (VA)
- 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 syncronisation 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 | Viewfinder | Fixed prism viewfinder |
|-------------------|--|-----------------------|--|
| Lenses | Phase One Digital focal plane lenses, Schneider Kreutznach leaf shutter lenses and Mamiya 645 AFD lenses Compatible with Hasselblad V lenses | | Exchangeable diopter from -5 to +3 LCD panel with full exposure information |
| | | Focusing Screen | Interchangeable focus screens Laser engraved mask for digital back |
| Backs | Open platform back mount | | Matte, Grid, Checker, Microprism |
| 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 | Selftimer | Self-timer from 2 to 60 sec |
| | | Remote | Screw-in cable release on shutter button Terminal for electronic triggering devices |
| Shutter | 1/4000s to 60 minutes Up to 2 fps Shutter speed bracketing | Stop Down Preview | Stop down button on front of camera |
| | | Tripod Socket | 1/4 inch and 3/8 inch included |
| Flash | Focal plane shutter: Up to 1/125s Leaf shutter lenses: Up to 1/1600s' 1 st and 2 nd curtain flash synchronization X sync terminal and support for TTL flash | Power Requirements | 6 AA batteries (standard or rechargeable) External battery pack – 6 AA batteries External AC adapter |
| Light Metering | TTL metering (average, spot and auto) Programmable AEL button Exposure compensation: +/- 5EV | User configuration | 3 Custom dial modes for capture settings 36 custom settings Customizable dials and buttons |
| Mirror-Up | Electronically-activated by switch on grip | Size | W, H, D // 6, 5, 7.2" // 153, 128, 184mm |
| | 1 | Weight | 35 oz. / 1030g. w/o batteries |

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