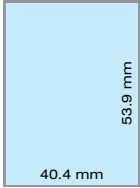
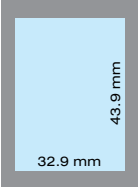
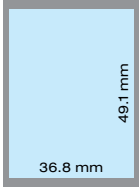
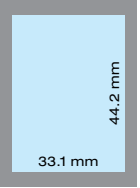
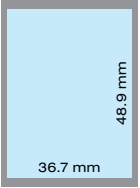


P+ Digital Back Overview

	P 65+	P 40+	P 45+	P 30+	P 25+
Description	World's first full frame medium format digital back, featuring Sensor+ with a choice of 60.5 megapixels for finest resolution or scaled full frame captures for fast workflow and low light versatility.	Fastest digital back with up to 1.8 fps in Sensor+ mode. A choice of 40 or 10 megapixels and an ISO range from 50 to 3200 makes this digital back the most versatile tool in the range.	High resolution shooter with unlimited burst sequences and optimized for large format photography with live preview functionality for easy composition and focus checking.	The top quality fast fashion shooter with ISO 1600, with superior moiré control and well suited for harsh environments.	All-round shooter with unlimited burst sequences and optimized for large format photography with live preview functionality for easy composition and focus checking.
Sensors					
Lens Factor	1.0	1.3	1.1	1.3	1.1
CCD size effective	53.9 x 40.4 mm	43.9 x 32.9	49.1 x 36.8	44.2 x 33.1	48.9 x 36.7
Active pixels	8984 x 6732	7320 x 5484	7216 x 5412	6496 x 4872	5436 x 4080
Pixel size (micron)	Full res. 6 x 6 Sensor+ 12 x 12	Full res. 6 x 6 Sensor+ 12 x 12	6.8 x 6.8	6.8 x 6.8	9 x 9
Resolution (megapixels)	60.5 15.0	40 10	39	31.6	22
Light sensitivity (ISO)	50-800 200-3200	50-800 200-3200	50-800	100-1600	50-800
Exposure time	1/10.000 – 1 minute	1/10.000 – 1 minute	1/10.000 sec. up to one hour with XPose+ technology		
Image quality	16bit-OptiColor+, 12 f-stops Dynamic+ and Lens+ technology				
Capture time (frames per sec.**)	1.0 1.4	1.2 1.8	0.67	0.8	0.67
Battery Lifetime (up to captures/up to stand-by time*)	2000 / 3	2500 / 4	2500 / 4	3000 / 4	4000 / 4
Image buffer	1.3 GB High Speed RAM	1.3 GB High Speed RAM	640 MB high speed RAM		
Display	2.2" QVGA TFT with 230,000 pixels, high brightness and contrast both indoor and outdoor, very fine details				

All test figures are expected maximum made at Phase One test department "all things being equal". Battery used for test is new 2500mAh Li+.
 *) standby Time will vary a lot depending on temperature, usage of battery and state of the back e.g. Zero Latency will increase power consumption significantly
 **) Maximum expected performance. The actual performance will be dependent on the camera model and on the camera and digital back capture modes

Your local Phase One partner

www.phaseone.com

P 25+ Camera System



Building a new view of possibility

The Phase One P 25+ Camera system is designed to be a seamless extension of your creativity. Extraordinary capture becomes natural through ease of use and direct control.

Take advantage of the Phase One digital focal plane lenses or Schneider Kreuznach leaf shutter lenses. You can also use your Mamiya 645 AF/AFD or Hasselblad V lenses for an even broader choice.

For general purpose photography choose the 22 mega pixel P 25+ digital back from Phase One. The P 25+ is a very powerful tool for commercial, portrait, advertising and fashion shooting. The open platform flexibility also allows you to mount the digital back on technical cameras.

Combine this and the virtually full frame captures with a 28 mm lens for a solid foundation for any food, fine art or architectural photography assignment.

PHASEONE

what the world's best photography is made of

P 25+ Digital Back Specifications



Inset image © Malcolm Dare

- Near full frame captures at 22 mega pixel
- Up to 1 hour noise free exposures
- Great entry solution for aspiring photographers
- Versatile, all-round digital back
- World leading image quality
- Unlimited burst capacity
- Light sensitivity 50-800 ISO
- XPose+ technology solution

Imaging technology	
CCD	Full frame CCD
Lens Factor	1.1
Resolution	22 mega pixels
Active pixels	5436 x 4080 pixels
CCD size effective	48.9 x 36.7 mm
Pixel size	9 x 9 micron
Image ratio	4:3
Antiblooming	10 f-stops
Dynamic range	12 f-stops

Output files	
Color depth	16 bit per color
Image file formats	TIFF-RGB, TIFF-CMYK, JPEG
Color management	RGB, Embedded ICC profile, CMYK

Sensitivity	
ISO	50, 100, 200, 400, 800

LCD screen	
Size	2.2"
Resolution	230,400 pixels
Viewing angle	160°

Operating conditions	
Temperature	0° to 40°C (32° to 122°F)
Humidity	15 to 80% RH (non-condensing)

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

Computer minimum requirements	
Mac	G4, 1 GB RAM, FireWire® interface, Mac OS X 10.3.9 or later
PC	Pentium III, 1 GB RAM, IEEE 1394 interface, Windows XP/2000

P+ back mounts	
Phase One/Mamiya	Phase One 645DF/AF, Mamiya 645DF/AFD, 645AFDII/ AFDIII, Mamiya RZ67 PRO IID via adaptor
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 645

Wide angle & technical cameras	
Possible via the Phase One FlexAdaptor & third party adaptors.	

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.	
IIQ small:	17 MB
IIQ large:	25 MB

Software	
Capture One 4.8.3 or later	

Certifications	
CE	

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 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 1/800 sec.

Shutter speed from 1/4000s to 60 minutes, B and X modes can match the extreme long exposure capability of the P+ digital backs or 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 1/800s' 1 st and 2 nd 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 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 preview 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 36 custom settings Customizable dials and buttons
Size	W, H, D // 6, 5, 7.2" // 153, 128, 184mm
Weight	35 oz. / 1030g, w/o batteries