



Image 1: P 65+ Full resolution pixel quality (100%).

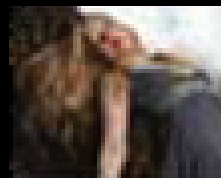


Image 2: Simple image scaling.



Image 3: P 65+ Sensor+ scaled pixel quality.

Sensor+ technology (patent pending)

The P 65+ is the first digital back ever to feature the Sensor+ breakthrough innovation for unprecedented versatility in photography.

Sensor+ involves combining pixels on a CCD chip to create larger pixels for increased sensitivity and smaller files for faster workflow, while maintaining the full sensor area (no crop).

Sensor+ is unique by maintaining image quality while scaling. **Image 1** is a full resolution P 65+ capture at 100% pixel view. **Image 2** is an example of simple scaling with massive loss of quality. **Image 3** is an example of Sensor+ maintaining full image quality at 25% of the full resolution.

No lens factor. No Crop. No mask.

With Sensor+ full frame captures you are ensured to get the full picture in every capture. In addition to the true wide angle performance, you have complete control of the composition with 100% use of the viewfinder in 645 cameras.

- P 65+ delivers full frame captures at both full resolution and Sensor+ capture mode.
- **Image 4:** Simple cropping is the alternative for multiple resolution options, resulting in lost control of composition and reduced wide angle.



Image 4: Example of 35mm crop from 645 format (1:1).



Phase One A/S
 Roskildevej 39
 DK-2000 Frederiksberg
 Denmark
 Tel.: +45 36 46 01 11
 Fax: +45 36 46 02 22
 Email: info@phaseone.dk

Phase One Asia
 Qing Hai Lu, 138, 25B
 Jing An District
 Shanghai 200041
 China
 Tel.: +86 21 63842854
 Fax: +86 21 55217747
 Email: lzm@phaseone.com

Phase One Inc. - USA
 200 Broadhollow Road
 (Suite 312)
 Melville, NY 11747 - 0983
 Tel.: +1 631 547 8900
 Fax: +1 631 547 9898
 Email: info@phaseone.com

Phase One Japan
 #302,2-11-1 Nakano
 Nakano-ku, Tokyo
 Japan 164-0001
 Tel.: +81 3 3229 0977
 Fax: +81 3 3229 0987
 Email: japan@phaseone.com

Phase One Germany
 Oskar-Jäger-Str. 160
 D-50825 Köln - Germany
 Tel.: +49 (0)221 54 02 26 - 0
 Fax: +49 (0)221 45 02 26 - 22
 Email: info@phaseone.de

www.phaseone.com
 Phase One support: www.phaseone.com/support

DigitalFusion.
 THE PROFESSIONAL STANDARD

332-253-9008 • sales@digitalfusion.net

digitalfusion.net/phaseone

3542 Hayden Avenue, Culver City, Ca 90232



CAPTURE REDEFINED

P 65+

The world's most desirable digital back

Leading photographers back to the days of true wide angle, full view of the scene to be captured, while delivering unsurpassed level of details, the P 65+ connects the past with an inspiring future. Being the benchmark for reliability and image quality, the P 65+ ensures that you amaze your clients at every capture.

The P 65+ offers the world's first full frame 645 sensor, delivering astounding 60.5 mega pixel captures and giving you full advantage of your medium format lenses. Sensor+ technology marks another milestone offering ultimate flexibility with scalable pixels for higher sensitivity and faster workflow.

PHASEONE

what the world's best photography is made of

P 65⁺

Full resolution capture mode

- Full frame 645 sensor for true wide angle
- Extraordinary details with 60.5 mega pixel resolution
- Full 645 viewfinder coverage for clear view of image composition and focus
- Extreme dynamic range of 12.5 f-stops
- ISO 50 – 800
- Up to 1 fps capture rate
- 20% larger sensor area than 39 and 50 mega pixels digital backs

P 65⁺

Sensor⁺ capture mode

- Full frame image capture – no crop
- Smaller image files for faster workflow and reduced storage
- 12 x 12 micron pixel for higher sensitivity
- ISO 100 to 1600
- Smaller lossless files save storage: IIQ large 15MB, IIQ small 10 MB
- Upgradeable performance



Specifications:

Imaging technology

CCD:	Full frame CCD
Lens Factor:	Full frame / 1.0
Resolution:	60.5 mega pixels
Active pixels:	8984 x 6732
CCD size effective:	53.9 mm x 40.4 mm
Pixel size:	6 x 6 micron
Image ratio:	4 : 3
Micro lens on CCD:	No
Dynamic range:	12.5 f-stops

P65⁺ full resolution 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:	100, 200, 400, 800, 1600

Output files

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

Color management:

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Camera system

Capture time:	1.0 sec./ frame – 1.2sec/ frame depending on camera platform
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Storage security:

	Phase One Secure Storage System technology
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Battery type:	7.2 V Lithium Ion 2500mAh
Battery lifetime:	2000 captures
Exposure time:	1/10000 sec. – 1 minute
Live preview:	Yes
IR filter:	Mounted on CCD
Cooling system:	Passive cooling
Power up time:	Less than 2 sec. from OFF, sleeping architecture for instant ON

Power:

	8-33 V DC (from FireWire®)
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LCD screen

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

P⁺ back mounts

Phase One/Mamiya:	Phase One 645 AF Mamiya 645AFD series, RZ67 Pro IID, Mamiya RB67es
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Phase One H101:	Hasselblad H1 and H2
Hasselblad V:	Hasselblad 555ELD, 533ELX, 503CW and 501CM

Contax 645:	Contax 645 AFD
Hasselblad H:	Hasselblad H1 and H2
Contax:	Contax 645AF

Technical cameras and wide angle 4 x 5" via Flexadaptor:

	Arca Swiss, Cambo, Linhof, Toyo, Sinar, Plaubel, Horseman
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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
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Computer minimum requirements

Mac:	Fast Core 2 Dual or later CPU. 4 GB RAM. Fast HDD: RAID 0 configured systems for max. performance. Nvidia 8800 series graphics card or newer.
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PC/Mac:	Pentium III, 1 GB RAM, IEEE 1394 interface, Windows XP/2000
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Software

	Capture One 4.5
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Certifications

	CE
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Storage files

	Phase Ones IIQ RAW file format speeds up the image capture and file transfer. 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.
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