

Phase One Lenses

Overview

Ready for

100MP

And beyond



PHASE**ONE**

what the world's best photography is made of

Phase One Lenses

Focal Plane lenses

The Phase One Focal Plane lens range is designed to deliver clean optical performance together with fast apertures, at the lowest possible weight. For photographers needing outstanding image quality, easy portability and rugged design the Focal Plane range is an ideal choice



Schneider Kreuznach Lenses

Leaf Shutter lenses

Our Leaf Shutter lenses are designed together with world-renowned optics manufacturer, Schneider Kreuznach of Germany. Building on decades of experience in high-resolution optics the Leaf Shutter lenses delivers some of the sharpest lenses in the world, built for today's systems as well as the future. With an integrated Leaf Shutter, the range of Schneider Kreuznach lenses delivers industry leading flash synchronization speed of up to 1/1600th of a second.



Focal Plane lens range

Overview

Phase One Focal Plane lenses are built using high-resolution optics designed for the lightest possible weight. The Focal Plane lens range is an ideal choice for photographers seeking reliable high-quality glass.



28mm AF f/4.5

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

- ▶ Widest possible lens
- ▶ Push-pull Autofocus ring
- ▶ Build in "Tulip" lens hood



35mm AF f/3.5

A Compact and light-weight wide angle. Ideally suited for street, landscape, interior or architecture photography.

- ▶ 90° viewing angle
- ▶ Perfect for the travelling photographer
- ▶ Very compact size



45mm AF f/2.8

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

- ▶ Fastest wide-angle lens
- ▶ Low weight and small form factor
- ▶ Low distortion and minimum flare



80mm AF f/2.8

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

- ▶ Shallow depth of field
- ▶ Edge-to-edge sharpness
- ▶ Minimal optical distortion

Up to
1/4000s
Shutter speed



120mm MF f/4

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

- ▶ Precise manual focus control
- ▶ 1:1 magnification
- ▶ Very neutral out of focus rendition



120mm AF f/4

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.

- ▶ Staggeringly sharp lens for macro and beauty work
- ▶ Focus Limiter ensures fast auto focus in the relevant focus range
- ▶ Amazing results both in close-up and distant imaging



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.

- ▶ Amazingly sharp edge-to-edge at wide open
- ▶ Great low light performance
- ▶ Push-pull AF lock



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.

- ▶ Compact and light weight zoom lens
- ▶ Push-pull AF lock – fast and quick for hand held use
- ▶ Covering several focal lengths

Focal Plane lens range

Specifications



Specifications

28mm AF f/4.5

35mm AF f/3.5

45mm AF f/2.8

80mm AF f/2.8

Aperture range	f/4.5 - f/32	f/3.5 - f/22	f/2.8 - f/22	f/2.8 - f/22
Angle of view	102.7°	90°	74°	47°
Focusing system	Auto Focus / Manual	Auto Focus / Manual	Auto Focus / Manual	Auto Focus / Manual
Filter	Sheet filter	77mm	67mm	67mm
Optical construction	14 elements 10 groups	9 elements 5 groups	9 elements 7 groups	6 elements 5 groups
Lens hood	Built-in	Bayonet	Bayonet	Bayonet
Flash sync	1/125	1/125	1/125	1/125
Shutter Speed max (on XF)	1/4000s	1/4000s	1/4000s	1/4000s
Dimensions (L x W)	136mm x 90mm 5.35" x 3.54"	62mm x 84mm 2.4" x 3.3"	49.5mm x 77mm 1.9" x 3"	51.5mm x 80.5mm 2" x 3.2"
Weight	1100g 2.43lb	480g 1.05lb	492g 1.1lb	330g 0.7lb
Equivalent to 35 mm	17mm	22mm	28mm	50mm

Focus Range

Min. focus distance	35cm / 1.15ft	35cm / 1.15ft	45cm / 1.4ft.	70cm / 2.30ft.
Maximum magnification ratio	0.15x	0.16x	0.13x	0.15x
Area covered	372mm x 276mm 14.6" 10.8"	359mm x 266mm 14.1" 10.5"	418mm x 310mm 16.4" 12.2"	377mm x 279mm 14.8" 10"

Compatibility

Mount	XF 645 Bayonet	XF 645 Bayonet	XF 645 Bayonet	XF 645 Bayonet
Supported Systems	XF Camera System P1 & M 645DF/DF+	XF Camera System P1 & M 645DF/DF+	XF Camera System P1 & M 645DF/DF+	XF Camera System P1 & M 645DF/DF+
2x Teleconverter	no	no	no	no



120mm MF f/4

120mm AF f/4

150mm AF f/2.8

75-150mm AF f/4.5

f/4 - f/32	f/4 - f/32	f/2.8 - f/22	f/4.5 - f/32
33°	32°	26°	Wide: 50° Tele: 26°
Manual (digital focus confirmation)	Auto Focus / Manual	Auto Focus / Manual	Auto Focus / Manual
67mm	72mm	72mm	77mm
9 elements 8 groups	9 elements 8 groups	8 elements 7 groups	11 elements 10 groups
Bayonet	Bayonet Metal hood	Bayonet	Bayonet
1/125	1/125	1/125	1/125
1/4000s	1/4000s	1/4000s	1/4000s
111mm x 83mm 4.4" x 3.25"	107mm x 91mm 4.2" x 3.6"	120mm x 85mm 4.7" x 3.3"	145mm x 86mm 5.7" x 3.4"
835g 29.2 oz.	960g 33.86 oz.	780g 27.03 oz.	1114g 38.99 oz.
75mm	75mm	94mm	Wide: 47mm Tele: 93mm
40cm / 1.3ft.	37cm / 1.2ft.	100cm / 3.3ft.	100cm / 3.3ft.
1.00x	1.00x	0.19x	Wide: 0.09x Tele: 0.16x
56mm x 42mm 2.2" 1.6"	56mm x 42mm 2.2" 1.6"	295mm x 218mm 11.6" 8.5"	Wide: 545mm x 409mm (at 75mm) Tele: 293mm x 220mm (at 150mm)
XF 645 Bayonet	XF 645 Bayonet	XF 645 Bayonet	XF 645 Bayonet
XF Camera System P1 & M 645DF/DF+	XF Camera System P1 & M 645DF/DF+	XF Camera System P1 & M 645DF/DF+	XF Camera System P1 & M 645DF/DF+
no	no	yes	no

Leaf Shutter lens range

Overview

Our Leaf Shutter lenses are designed together with world-renowned optics manufacturer, Schneider Kreuznach of Germany. Building on decades of experience in high-resolution optics and precision manufacturing, the Leaf Shutter lenses are some of the sharpest lenses in the world, built for today's systems as well as the future.



28mm LS f/4.5

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

- ▶ Nearly distortion free
- ▶ Minimal light falloff
- ▶ 102° viewing angle and a min. focusing distance of 35 cm

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

- ▶ Tack sharp wide-angle lens
- ▶ Full frame edge-to-edge sharpness
- ▶ Minimum optical distortion

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

- ▶ Fast aperture, shallow depth of field
- ▶ Compact size with LS capabilities

35mm LS f/3.5

55mm LS f/2.8

80mm LS f/2.8

110mm LS f/2.8

120mm LS f/4.0

A preferred choice for location fashion photographers using fill flash.

- ▶ Fast aperture allowing shallow depth of field
- ▶ Edge-to-edge sharpness
- ▶ Extreme optical performance

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

- ▶ Fast lens allowing shallow depth of field
- ▶ Extreme anti-flare optical design

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

- ▶ Edge-to-edge tack sharp images
- ▶ Beautiful out-of-focus bokeh
- ▶ Auto Focus and Manual focus

Ready for
100MP
And beyond

Up to
1/1600
LS Flash Synchronization

Up to
1/4000
Focal Plane shutter speed



150mm LS f/3.5

240mm LS f/4.5

40-80mm LS f/4.0

75-150mm LS f/4.0

120mm TS f/5.6

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

- ▶ Tack-sharp, long focal length
- ▶ Compact and light weight design
- ▶ Metal Lens hood

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

- ▶ Incredibly sharp lens with great resolving power
- ▶ Internal Focus (IF) with no external movements
- ▶ Compatible with 2x Teleconverter

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

- ▶ Prime lens quality on full zoom range
- ▶ Practically no "breathing" during zoom
- ▶ Zoom lock function on barrel

The most all-round and versatile Normal/Tele lens for the XF camera system.

- ▶ Preferred lens for location fashion at all focal lengths
- ▶ Practically no focus travel during zoom
- ▶ Zoom lock function on barrel

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.

- ▶ No flare, even at extreme angles
- ▶ Convenient tilt/shift solution
- ▶ Technical camera quality on 645 format

Leaf Shutter lens range

Specifications



Specifications	28mm LS f/4.5	35mm LS f/3.5	55mm LS f/2.8	80mm LS f/2.8	110mm LS f/2.8	120mm LS f/4
Aperture range	f/4.5 - f/32	f/3.5 - f/32	f/2.8 - f/22	f/2.8 - f/22	f/2.8 - f/22	f/4 - f/32
Angle of view	102.7°	89°	64°	47°	29°	33°
Focusing system	Auto Focus / Manual	Auto Focus / Manual	Auto Focus / Manual	Auto Focus / Manual	Auto Focus / Manual	Auto Focus / Manual
Filter	Rear sheet filter	105mm	72mm	72mm	72mm	86mm
Optical construction	14 elements 10 groups	11 elements 8 groups	7 elements 6 groups	6 elements 5 groups	6 elements 5 groups	9 elements 8 groups
Lens hood	Built-in	Bayonet	Bayonet	Bayonet	Bayonet	Bayonet Metal Hood
Flash sync (using LS)	Up to 1/1600	Up to 1/1600	Up to 1/1600	Up to 1/1600	Up to 1/1600	Up to 1/1600
Shutter speed max (using FPS)	1/4000s	1/4000s	1/4000s	1/4000s	1/4000s	1/4000s
Dimensions (L x W)	90mm x 136mm 3.5" x 5.5"	111mm x 119mm 4.4" x 4.7"	77.6mm x 86.5mm 3" x 3.4"	64.4mm x 86.5mm 2.5" x 3.4"	83.3mm x 86.5mm 3.2" x 3.4"	51.5mm x 80.5mm 2" x 3.2"
Weight	1100g 2.43lb	1370g 3.02lb	600g 1.3lb	500g 1.10lb	635g 1.40lb	960g 2.12lb
Equivalent to 35 mm	17mm	22mm	34mm	50mm	68mm	75mm

Focus Range

Min. focus distance	35cm / 1.15ft	0.5m / 1.64ft	45cm / 1.47ft	70cm / 2.30ft.	90cm / 2.90ft.	0.37m / 1.21 ft.
Maximum magnification ratio	0.15x	0.104x	0.18x	0.15x	0.16x	1.00x
Area covered (WxH)	372mm x 276mm 14.6" 10.9"	518mm x 390mm 20.4" x 15.3"	310mm x 230mm 12.2" 9"	279mm x 377mm 11" 14.8"	310mm x 230mm 12.2" 9"	56mm x 42mm 2.2" x 1.6"

Compatibility

Mount	XF 645 Bayonet	XF 645 Bayonet	XF 645 Bayonet	XF 645 Bayonet	XF 645 Bayonet	XF 645 Bayonet
Supported Systems	XF Camera System P1 & M 645DF/DF+	XF Camera System P1 & M 645DF/DF+	XF Camera System P1 & M 645DF/DF+	XF Camera System P1 & M 645DF/DF+	XF Camera System P1 & M 645DF/DF+	XF Camera System P1 & M 645DF/DF+
2x Teleconverter	no	no	no	no	no	no



150mm LS f/3.5 240mm LS f/4.5 40-80mm LS f/4 75-150mm LS f/4

f/3.5 - f/32	f/4.5 - f/22	f/4.0, 5.6 - f/32	f/4.0, 5.6 - f/22
26°	16.5°	Wide: 82° Tele: 47°	Wide: 50° Tele: 26°
Auto Focus / Manual	Auto Focus / Manual	Auto Focus / Manual	Auto Focus / Manual
72mm	86mm	105mm	95mm
5 elements 5 groups	8 elements 8 groups	15 elements 11 groups	11 elements 10 groups
Bayonet Metal Hood	Bayonet	Bayonet "tulip"	Bayonet
Up to 1/1600s	Up to 1/1000s	Up to 1/1600	Up to 1/1600
1/4000s	1/4000s	1/4000s	1/4000s
87.1mm x 86.5mm 3.4" x 3.4"	169mm x 104.5mm 6.7" x 4.1"	105mm x 111mm 5.9" x 4.4"	172mm x 105.5mm 6.8" x 4.2"
645g 1.42lb	1600g 3.53lb	1850g 4.08lb	1800g 3.96 lb
94mm	150mm	Wide: 25mm Tele: 50mm	Wide: 47mm Tele: 93mm

150cm / 4.92ft.	170cm / 5.58ft.	60cm / 1.97ft.	100cm / 3.28ft.
0.12x	0.17x	Wide: 0.094x Tele: 0.179x	Wide: 0.09x Tele: 0.164x
461mm x 341mm 18.1" 13.4"	327mm x 242mm 12.9" 9.5"	W) 56 x 42cm 22" x 16.5" T) 30 x 23cm 11.8" x 9"	W) 636mm x 472mm 25" 18.6" T) 341mm x 253mm 13.4" 10.0"

XF 645 Bayonet	XF 645 Bayonet	XF 645 Bayonet	XF 645 Bayonet
XF Camera System P1 & M 645DF/DF+	XF Camera System P1 & M 645DF/DF+	XF Camera System P1 & M 645DF/DF+	XF Camera System P1 & M 645DF/DF+
yes	yes	no	no

Speciality lenses



120mm TS F/5.6 2 x Teleconverter

f/5.6 - f/22	f/4.5 - f/32
8° tilt / 12mm shift 360° on two axes	102°
Manual Focus	Auto Focus / Manual
Bayonet VIII (ø 104mm)	77 mm
6 elements 4 groups	14 elements 10 groups
Built-in	Bayonet
1/125	n/a
1/4000s	1/4000s
135mm x 106mm 5.31" x 4.17"	90mm x 136mm 3.5" x 5.5"
1038g 2.28lb	630g 1.4lb
73mm	2x

840cm	35cm / 1.15ft.
0.16x	0.15 x
45mm x 60mm	372mm x 276mm 14.6" 10.9"

XF 645 Bayonet	XF 645 Bayonet
XF Camera System P1 & M 645DF/DF+	XF Camera System P1 & M 645DF/DF+
no	

Ready for 100MP



Schneider Kreuznach
35mm LS f/3.5



Schneider Kreuznach
120mm LS f/4.0 Macro

The 35mm LS and the 120mm LS are the latest additions to our high-resolution lens range. With a range of lenses designed to resolve even beyond the limits of current sensor technology, our new Schneider Kreuznach are ready for the future.

PHASEONE

what the world's best photography is made of