

# Recommended Lenses

The SKATER Scope snorkel lens system brings the market into a new dimension of creating images. Mainly PL mounted film lenses can be used, but smaller compact photo lenses (e.g. from Nikon) are also supported by our interchangeable lens mounts.

A large variety of existing lenses will fit, but this does not mean all, as there are some which show limitations.

The compability of a lens to the SKATER Scope depends mainly on the optical design of the lens (basic criterion is the positioning of the exit-pupil). Generally, an exit-pupil position between 55 and 70mm to the film plane is best to use. We have no influence on the engineering of existing lenses, but during the development of the SKATER Scope, our goal was to make sure that it worked with as many different types of lenses as possible.

Enclosed you will find a short list of lenses that have been tested. If your lens does not appear, please let us know so we can update our list



Lenses	Exit Pupil Position		Very Well Suitable	* Limited Suitable	Not Suitable
	Measured to Film Plane	Manufacturer Information			
12mm T 2.0		207			√
14mm T 2.0	70,3	69	√		
16mm T 2.0	59,9	60	√		
18mm T 2.0	49,5	49			√
21mm T 2.0	60,5	60	√		
25mm T 2.0		46			√
27mm T 2.0	46,1	46			√
32mm T 2.0	63,9	63	√		
35mm T2.0		63	√		
40mm T 2.0	107,6	103			√
50mm T 2.0	122	124			√
65mm T 2.0		106			√
75mm T 2.0		289			√
100mm T 2.0	60,6	219			√
135mm T 2.0		107			√
150mm T 2.0		96		√	
180mm T 2.0		107			√
300mm T 2.0		120			√

COOKE 5/i	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
18mm T 1.4		130			√
25mm T 1.4		122			√
32mm T 1.4		139			√
40mm T 1.4		135			√
50mm T 1.4		171			√
65mm T 1.4		141			√
75mm T 1.4		191			√
100mm T 1.4		145			√
135mm T 1.4		116			√
COOKE Panchro	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
18mm T 2.8		67	√		
25mm T 2.8		64	√		
32mm T 2.8		59	√		
50mm T 2.8		109			√
75mm T 2.8		106			√
100mm T 2.8		74	√		
135mm T 2.8		287			√
Mini S4	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
18mm		66,9	√		
25mm		63,8	√		
32mm		59,1	√		
50mm		109,2			√
75mm		105,7			√
100mm		74,3		√	
135mm		132			√

Zeiss Standard T2	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
10mm T 2.1 Distagon					√
12mm T 2.1	39,6				√
14mm T 2.1 Distagon	62,8		√		
16mm T 2.1 Distagon	38,9				√
20mm T 2.1 Distagon					√
24mm T 2.1 Distagon	44,4				√
28mm T 2.1 Distagon	59,9		√		
32mm T 2.1 Planar	36,2				√
40mm T 2.1 Planar	46,3				√
50mm T 2.1 Planar	69		√		
60mm T 3 Macro Planar	64,7		√		
85mm T 2.1 Planar	77,2			√	
100mm T 2.1 Planar	92,4			√	
135mm T 2.1 Planar	83,3		√		
Zeiss HS T 1.3	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
18mm T 1.3 Distagon	70,1		√		
25mm T 1.3 Distagon	70,7		√		
35mm T 1,3 Distagon	64,4		√		
50mm T 1.3 Distagon	67,6		√		
65mm T 1.3 Distagon	85,9			√	
85mm T 1.3 Distagon	69,6		√		

ARRI/Zeiss Ultra Primes	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
8mm R				√	
10mm T 2.1					√
12mm T 1.9					√
14mm T 1.9		61,5	√		
16mm T 1.9		61,7	√		
20mm T 1.9		66,6	√		
24mm T 1.9		65,4	√		
28mm T 1.9		74,5	√		
32mm T 1.9		59,9	√		
40mm T 1.9		83,9	√		
50mm T 1.9		68,3	√		
65mm T 1.9		61,1		√	
85mm T 1.9		60,8	√		
100mm T 1.9		60,1	√		
135mm T 1.9		80,8	√		
Zeiss VP LDS	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
10mm T 2.1					√
12mm T 1.9					√
14mm T 1.9		61,5	√		
16mm T 1.9		61,7	√		
20mm T 1.9		66,6	√		
24mm T 1.9		65,4	√		
28mm T 1.9		74,5	√		
32mm T 1.9		59,9	√		
40mm T 1.9		64,3	√		
50mm T 1.9		70	√		
65mm T 1.9		83,9		√	
85mm T 1.9		68,3	√		
100mm T 1.9		61,1	√		
135mm T 1.9		60,8	√		

ARRI Macro	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
50mm T 3	53,3		√		
ARRI / Zeiss Master Primes	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
all focal lengths					√ too heavy
NIKON	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
18mm T 3.5	59,1		√		
24mm T 3.5	69,6		√		
35mm T 3.5	59,5		√		
Sigma	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
8mm T 4.0	51,8		√		
Kowa Anamorphics	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
40mm T 2.2	√			√ beware squeeze	
50mm T 2.2	√			√ beware squeeze	
75mm T 2.5	√			√ beware squeeze	
100mm T 3.2	√			√ beware squeeze	
Evolution 2X	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
32mm T 2.4	√			√ beware squeeze	
40mm T 2.4	√			√ beware squeeze	
50mm T 2.4	√			√ beware squeeze	
75mm T 2.5	√			√ beware squeeze	
100mm T 3.2	√			√ beware squeeze	
135mm T 3.5	√			√ beware squeeze	
TECHNOVISION 1.5X	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
all focal lengths					√ too heavy

Leica Summicron	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
18mm	√		√		
21mm			very likely		
25mm	√		√		
29mm			very likely		
35mm	√		√		
40mm			very likely		
50mm	√		√		
75mm			very likely		
100mm			very likely		
135mm			very likely		
Leica Summilux	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
all focal lengths					√ too heavy