

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 60 and 80mm 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			
COOKE S4					
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			√

Lenses	Exit Pupil Position				
COOKE 5/i	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
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			✓

Zeiss Standard T2	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
10mm 2.1 Distagon					✓
12mm 2.1	39,6				✓
14mm 2.0 Distagon	62,8		✓		
16mm 2.1 Distagon	38,9				✓
20mm 2.1 Distagon					✓

Zeiss Standard T2	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
24mm 2.1 Distagon	44,4				✓
28mm 2.1 Distagon	59,9		✓		
32mm 2.1 Planar	36,2				✓

Lenses	Exit Pupil Position				
Zeiss Standard T2	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
40mm 2.1 Planar	46,3				✓
50mm 2.1 Planar	69		✓		
60mm 3 Macro Planar	64,7		✓		
85mm 2.1 Planar	77,2			✓	
100mm 2.1 Planar	92,4			✓	
135mm 2.1 Planar	83,3		✓		

Zeiss HS T1.3	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 Planar	67,6		✓		
65mm T 1.3 Planar	85,9			✓	
85mm T 1.3 Planar	69,6		✓		

ARRI/Zeiss Ultra Primes	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
8mm R				✓	
10mm 2.1					✓
12mm 1.9					✓
14mm 1.9		61,5	✓		
16mm 1.9		61,7	✓		

Lenses	Exit Pupil Position				
ARRI/Zeiss Ultra Primes	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
20mm 1.9		66,6	✓		
24mm 1.9		65,4	✓		
28mm 1.9		74,5	✓		
32mm 1.9		59,9	✓		
40mm 1.9		83,9	✓		
50mm 1.9		68,3	✓		
65mm 1.9		61,1		✓	
85mm 1.9		60,8	✓		
100mm 1.9		60,1	✓		
135mm 1.9		80,8	✓		

Zeiss VP LDS	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
10mm 2.1					✓
12mm 1.9					✓
14mm 1.9		61,5	✓		
16mm 1.9		61,7	✓		
20mm 1.9		66,6	✓		
24mm 1.9		65,4	✓		
28mm 1.9		74,5	✓		
32mm 1.9		59,9	✓		
40mm 1.9		64,3	✓		

Zeiss VP LDS	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
50mm 1.9		70	✓		

Lenses	Exit Pupil Position				
Zeiss VP LDS	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
65mm 1.9		83,9		✓	
85mm 1.9		68,3	✓		
100mm 1.9		61,1	✓		
135mm 1.9		60,8	✓		

ARRI Macro	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
50mm T3	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 T3.5	59,1		✓		
24mm T3.5	69,6		✓		
35mm T3.5	59,5		✓		

Sigma	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
8mm T4.0	51,8		✓		

Lenses	Exit Pupil Position				
Kowa Anamorphics	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
40mm	✓			✓ beware squeeze	
50mm	✓			✓ beware squeeze	
75mm	✓			✓ beware squeeze	
100mm	✓			✓ beware squeeze	

P+S Technik Evolution 2X	Measured to Film Plane	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
32mm	✓			✓ beware squeeze	
40mm T2.4	✓			✓ beware squeeze	
50mm T2.4	✓			✓ beware squeeze	
75mm T2.5	✓			✓ beware squeeze	
100mm T3.2	✓			✓ beware squeeze	
135mm	✓			✓ beware squeeze	

Lenses	Exit Pupil Position				
P+S Technik TECHNOVISION Classic 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

SENSOR SIZE & RESOLUTION

Camera/ Resolution	Tested	Manufacturer Information	Very Well Suitable	* Limited Suitable	Not Suitable
Alexa	✓		✓		
Red Epic 4K	✓		✓		
Red Epic 5K	✓		✓		
Red Epic 6K					✓