

Which Prime Lenses Cover Which Sensor Size?

Updated 6/26/25

This chart shows lens coverage for specific camera sensor formats.
We only shows lenses which completely covers the sensor with no vignetting. A small amount of illumination falloff is acceptable if it is part of the lens design.
If your chosen camera shooting format is not shown, find and use the image circle Ø that is closest to your format: <https://www.opticalcalculator.com/matrix-diagonal-of-rectangle>

Red Monstro 8K	40.96mm x 21.60mm (46.31 mm Ø)					8192 × 4320 Pixels				
Arri Signature	15mm	18mm	21mm	25mm	29mm	35mm	40mm	47mm	58mm	75mm 125mm
Zeiss Supreme	18mm	21mm	25mm	29mm	35mm	50mm	65mm	85mm	100mm	135mm
Tribe7 Blackwing?	20.7mm	23.7mm	27mm	37mm	47mm	57mm	77mm	107mm	137mm	
Leica M Rangefinder - Zero Optik	24mm	28mm	35mm	50mm	75mm	90mm				
Cooke Speed Panchro/i Full Frame	18mm	21mm	27mm	32mm	40mm	65mm Macro	75mm	100mm	135mm	152mm
Cooke SP.3	25mm	32mm	50mm	75mm	100mm					
Olympus M Zuiko - Zero Optik	28mm	40mm	50mm Macro	85mm	135mm					
Leica R - TLS/ Cinescope	24mm	28mm	35mm	50mm	60mm	80mm	100mm	135mm	135mm	
Nikkor AIS - Zero Optik	15mm	24mm	35mm	58mm	85mm	105mm	200mm	400mm	400mm	
Canon FD S.S.C Asph- Zero Optik	14mm	24mm	28mm	35mm	55mm	85mm	135mm	200mm	300mm	
Canon Rangefinder - TLS	40mm	58mm	28mm	35mm	55mm					
Canon Rangefinder - Type SK	50mm	60mm	85mm	100mm						
Sigma Cine HS	14mm	20mm	24mm	28mm	35mm	40mm	50mm	80mm	105mm	135mm
Zeiss CP3 XD	15mm	18mm	25mm	35mm	50mm	85mm	100mm	135mm		
Zeiss CP.2 Superspeeds	35mm	50mm	85mm							
Schneider Xenon EF/ PL	50mm	75mm	100mm							
Leica Summicron	100mm									
Cooke S/i/4i	75mm	100mm	135mm							
Cooke Speed Panchro Classic	65mm Macro	75mm	100mm							
Zeiss Master Prime	50mm	75mm	100mm	100mm Macro						
Zeiss Ultraprime	65mm	85mm	100mm	135mm						
Zeiss Superspeed	65mm	85mm								
Zeiss Standard	50mm	85mm	100mm	135mm						
Zeiss Macro	100mm									

Arri Mini LF Open Gate	36.70mm x 25.54mm (44.71 mm Ø)					4448 × 3096 Pixels				
Arri Signature	15mm	18mm	21mm	25mm	29mm	35mm	40mm	47mm	58mm	75mm 125mm
Zeiss Supreme	18mm	21mm	25mm	29mm	35mm	50mm	65mm	85mm	100mm	135mm
Tribe7 Blackwing?	20.7mm	23.7mm	27mm	37mm	47mm	57mm	77mm	107mm	137mm	
Leica M Rangefinder - Zero Optik	24mm	28mm	35mm	50mm	75mm	90mm				
Cooke Speed Panchro/i Full Frame	18mm	21mm	27mm	32mm	40mm	65mm Macro	75mm	100mm	135mm	152mm
Cooke SP.3	25mm	32mm	50mm	75mm	100mm					
Leica R - TLS/ Cinescope	24mm	28mm	35mm	50mm	60mm	80mm	100mm	135mm	135mm	
Nikkor AIS - Zero Optik	15mm	24mm	35mm	58mm	85mm	105mm	200mm	400mm	400mm	
Canon FD S.S.C Asph- Zero Optik	14mm	24mm	28mm	35mm	55mm	85mm	135mm	200mm	300mm	
Canon Rangefinder - TLS	19mm	25mm	40mm	58mm	85mm	100mm				
Canon Rangefinder - Type SK	50mm	60mm	85mm	100mm						
Sigma Cine HS	14mm	20mm	24mm	28mm	35mm	40mm	50mm	80mm	105mm	135mm
Zeiss CP3 XD	15mm	18mm	25mm	35mm	50mm	85mm	100mm	135mm		
Zeiss CP.2 Superspeeds	35mm	50mm	85mm							
Schneider Xenon EF/ PL	50mm	75mm	100mm							
Leica Summicron	100mm									
Cooke S/i/4i	65mm	75mm	100mm	135mm						
Cooke Speed Panchro Classic	65mm Macro	75mm	100mm							
Zeiss Master Prime	50mm	75mm	100mm	100mm Macro						
Zeiss Ultraprime	65mm	85mm	100mm	135mm						
Zeiss Superspeed	65mm	85mm								
Zeiss Standard	50mm	85mm	100mm	135mm						
Zeiss Macro	100mm									

Red Monstro 8KHD	38.40mm x 21.60mm (44.10 mm Ø)					7680 x 4320 Pixels				
Ari Signature	15mm	18mm	21mm	25mm	29mm	35mm	40mm	47mm	58mm	75mm 125mm
Zeiss Supreme	18mm	21mm	25mm	29mm	35mm	50mm	65mm	85mm	100mm	135mm
Tribe7 Blackwing?	20.7mm	23.7mm	27mm	37mm	47mm	57mm	77mm	107mm	137mm	
Leica M Rangefinder - Zero Optik	24mm	28mm	35mm	50mm	75mm	90mm				
Cooke Speed Panchro/i Full Frame	18mm	21mm	27mm	32mm	40mm	65mm Macro	75mm	100mm	135mm	152mm
Cooke SP.3	25mm	32mm	50mm	75mm	100mm					
Olympus M Zuiko - Zero Optik	21mm	24mm	28mm	35mm	40mm	50mm Macro	85mm	135mm		
Leica R - TLS/ Cinescope	19mm	24mm	28mm	35mm	40mm	60mm	80mm	100mm	135mm	
Nikkor AIS - Zero Optik	15mm	24mm	35mm	58mm	85mm	105mm	200mm	400mm	400mm	
Canon FD S.S.C Asph- Zero Optik	14mm	24mm	28mm	35mm	55mm	85mm	135mm	200mm	300mm	
Canon Rangefinder - TLS	19mm	25mm	35mm	40mm	50mm DL	58mm	85mm	100mm		
Canon Rangefinder - Type SK	50mm	60mm	85mm	100mm						
Sigma Cine HS	14mm	20mm	24mm	28mm	35mm	40mm	50mm	80mm	105mm	135mm
Zeiss CP3 XD	15mm	18mm	25mm	35mm	50mm	85mm	100mm	135mm		
Zeiss CP.2 Superspeeds	35mm	50mm	85mm							
Schneider Xenon EF/ PL	50mm	75mm	100mm							
Leica Summicron	100mm									
Cooke S/i/4i	65mm	75mm	100mm	135mm						
Cooke Speed Panchro Classic	65mm Macro	75mm	100mm							
Zeiss Master Prime	50mm	75mm	100mm	100mm Macro						
Zeiss Ultraprime	32mm	65mm	85mm	100mm	135mm					
Zeiss Superspeed	65mm	85mm								
Zeiss Standard	50mm	85mm	100mm	135mm						
Zeiss Macro	100mm									

Red Monstro 7.5K	38.40mm x 20.40mm (43.50 mm Ø)					7680 x 4080 Pixels				
Sony Venice 2 BK 3-2	35.90mm x 24.00mm (43.18 mm Ø)					8640 x 5760 Pixels				
Sony Venice 6K 3-2	35.90mm x 24.00mm (43.18 mm Ø)					6048 x 4032 Pixels				
Canon C700, C500 Mk2 FF 17-9	38.10mm x 20.10mm (43.10 mm Ø)					5592 x 3140 Pixels				
Arri Signature	15mm	18mm	21mm	25mm	29mm	35mm	40mm	47mm	58mm	75mm 125mm
Zeiss Supreme	18mm	21mm	25mm	29mm	35mm	50mm	65mm	85mm	100mm	135mm
Tribe7 Blackwing?	20.7mm	23.7mm	27mm	37mm	47mm	57mm	77mm	107mm	137mm	
Leica M Rangefinder - Zero Optik	24mm	28mm	35mm	50mm	75mm	90mm				
Cooke Speed Panchro/i Full Frame	18mm	21mm	27mm	32mm	40mm	65mm Macro	75mm	100mm	135mm	152mm
Cooke SP.3	25mm	32mm	50mm	75mm	100mm					
Olympus M Zuiko - Zero Optik	21mm	24mm	28mm	35mm	40mm	50mm Macro	85mm	135mm		
Leica R - TLS/ Cinescope	19mm	24mm	28mm	35mm	40mm	60mm	80mm	100mm	135mm	
Nikkor AIS - Zero Optik	15mm	24mm	35mm	58mm	85mm	105mm	200mm	400mm	400mm	
Canon FD S.S.C Asph- Zero Optik	14mm	24mm	28mm	35mm	55mm	85mm	135mm	200mm	300mm	
Canon Rangefinder - TLS	19mm	25mm	35mm	40mm	50mm DL	58mm	85mm	100mm		
Canon Rangefinder - Type SK	50mm	60mm	85mm	100mm						
Sigma Cine HS	14mm	20mm	24mm	28mm	35mm	40mm	50mm	80mm	105mm	135mm
Zeiss CP3 XD	15mm	18mm	25mm	35mm	50mm	85mm	100mm	135mm		
Zeiss CP.2 Superspeeds	35mm	50mm	85mm							
Schneider Xenon EF/ PL	50mm	75mm	100mm							
Leica Summicron	100mm									
Cooke S/i/4i	65mm	75mm	100mm	135mm						
Cooke Speed Panchro Classic	65mm Macro	75mm	100mm							
Zeiss Master Prime	50mm	75mm	100mm	100mm Macro						
Zeiss Ultraprime	32mm	65mm	85mm	100mm	135mm					
Zeiss Superspeed	65mm	85mm								
Zeiss Standard	50mm	85mm	100mm	135mm						
Zeiss Macro	100mm									

Red Monstro 7.5KHD	36.48mm x 20.52mm (41.86 mm Ø)					7296 x 4104 Pixels				
Sony Burano FF 8.6K 16-9	35.90mm x 20.2mm (41.19 mm Ø)					8632 x 4856 Pixels				
Ari Signature	15mm	18mm	21mm	25mm	29mm	35mm	40mm	47mm	58mm	75mm 125mm
Zeiss Supreme	18mm	21mm	25mm	29mm	35mm	50mm	65mm	85mm	100mm	135mm
Tribe7 Blackwing?	20.7mm	23.7mm	27mm	37mm	47mm	57mm	77mm	107mm	137mm	
Leica M Rangefinder - Zero Optik	24mm	28mm	35mm	50mm	75mm	90mm				
Cooke Speed Panchro/i Full Frame	18mm	21mm	27mm	32mm	40mm	65mm Macro	75mm	100mm	135mm	152mm
Cooke SP.3	25mm	32mm	50mm	75mm	100mm					
Olympus M Zuiko - Zero Optik	21mm	24mm	28mm	35mm	40mm	50mm Macro	85mm	135mm		
Leica R - TLS/ Cinescope	19mm	24mm	28mm	35mm	40mm	60mm	80mm	100mm	135mm	
Nikkor AIS - Zero Optik	15mm	24mm	35mm	58mm	85mm	105mm	200mm	400mm	400mm	
Canon FD S.S.C Asph- Zero Optik	14mm	24mm	28mm	35mm	55mm	85mm	135mm	200mm	300mm	
Canon Rangefinder - TLS	19mm	25mm	35mm	40mm	50mm DL	58mm	85mm	100mm		
Canon Rangefinder - Type SK	50mm	60mm	85mm	100mm						
Sigma Cine HS	14mm	20mm	24mm	28mm	35mm	40mm	50mm	80mm	105mm	135mm
Zeiss CP3 XD	15mm	18mm	25mm	35mm	50mm	85mm	100mm	135mm		
Zeiss CP.2 Superspeeds	35mm	50mm	85mm							
Schneider Xenon EF/ PL	25mm	35mm	50mm	75mm	100mm					
Leica Summicron	50mm	75mm	100mm	135mm						
Cooke S/i/4i	65mm	75mm	100mm	135mm						
Cooke Speed Panchro Classic	65mm Macro	75mm	100mm							
Zeiss Master Prime	50mm	75mm	100mm	100mm Macro						
Zeiss Ultraprime	32mm	65mm	85mm	100mm	135mm					
Zeiss Superspeed	65mm	85mm								
Zeiss Standard	50mm	85mm	100mm	135mm						
Zeiss Macro	100mm									

Sigma 1.8e RPs	35mm	20mm	24mm	28mm	35mm	40mm	50mm	80mm	105mm	135mm
Zeiss CP.1 XO	15mm	18mm	25mm	35mm	50mm					
Zeiss CP.2 Super	35mm	50mm	85mm							
Schneider Xenon EF/ PL	25mm	35mm	50mm	75mm	100mm					
Leica Summicron	50mm	75mm	100mm	135mm						
Cooke 5/4i	65mm	75mm	100mm	135mm						
Cooke Speed Panchro Classic	65mm Macro	75mm	100mm							
Zeiss Master Prime	50mm	75mm	100mm	100mm Macro						
Zeiss Ultraprime	32mm	65mm	85mm	100mm	135mm					
Zeiss Superspeed	50mm	65mm	85mm							
Zeiss Standard	50mm	85mm	100mm	135mm						
Zeiss Macro	100mm									

Sony Venice 2 8.6K 17:9	35.90mm x 19.00mm (40.62 mm Ø)					8640 x 4556 Pixels				
Sony Burano FF 8.6K 17:9	35.90mm x 18.90mm (40.57 mm Ø)					8632 x 4552 Pixels				
Sony Venice FF 6K 17:9	35.90mm x 19.00mm (40.57 mm Ø)					6048 x 3190 Pixels				
Red Monstro 7K	35.80mm x 18.90mm (40.48 mm Ø)					7168 x 3780 Pixels				
Sony FX9 FF 4K 17:9	35.70mm x 18.80mm (40.35 mm Ø)					4096 x 2160 Pixels				
Sony FX6 FF 4K 17:9	35.70mm x 18.80mm (40.35 mm Ø)					4096 x 2160 Pixels				

Arri Signature	15mm	18mm	21mm	25mm	29mm	35mm	40mm	47mm	58mm	75mm	125mm
Zeiss Supreme	18mm	21mm	25mm	29mm	35mm	50mm	65mm	85mm	100mm	135mm	
Tribe7 Blackwing?	20.7mm	23.7mm	27mm	37mm	47mm	57mm	77mm	107mm	137mm		
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Cooke SP.3	25mm	32mm	50mm	75mm	100mm						
Olympus M Zuiko - Zero Optik	21mm	24mm	28mm	35mm	40mm	50mm Macro	85mm	135mm			
Leica R - TLS/ Cinescope	19mm	24mm	28mm	35mm	50mm	60mm	80mm	100mm	135mm		
Nikkor AIS - Zero Optik	15mm	24mm	35mm	58mm	85mm	105mm	200mm	400mm	400mm		
Canon FD S.S.C Asph- Zero Optik	14mm	24mm	28mm	35mm	55mm	85mm	135mm	200mm	300mm		
Canon Rangefinder - TLS	19mm	25mm	35mm	40mm	50mm DL	58mm	85mm	100mm			
Canon Rangefinder - Type SK	25mm	35mm	50mm	60mm	85mm	100mm					