

Which Prime Lenses Cover Which Sensor Size?

Updated 3/20/24

This chart shows lens coverage for specific camera sensor formats.

We only show lenses which completely cover 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.omnicalculator.com/math/diagonal-of-rectangle>

Red Monstro 8K	40.96mm x 21.60mm (46.31 mm Ø)										8192 x 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 Blackwing7	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 - T/LS/ Cinemascope	24mm	24mm	28mm	35mm	50mm	60mm	80mm	100mm	135mm							
Nikkor AIS - Zero Optik	15mm	24mm	35mm	58mm	85mm	105mm	200mm	400mm								
Canon FD S.S.C Asph- Zero Optik	14mm	24mm	28mm	35mm	58mm	85mm	135mm	200mm	300mm							
Canon Rangefinder - Type SK	50mm	60mm	85mm	100mm												
Sigma Cine HS	14mm	20mm	24mm	28mm	35mm	40mm	50mm	80mm	105mm	135mm						
Zeiss CP.3 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/4i	75mm	100mm	135mm													
Cooke Speed Panchro Classic	65mm Macro	75mm	100mm													
Zeiss Master Prime	50mm	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 x 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 Blackwing7	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 - T/LS/ Cinemascope	24mm	24mm	28mm	35mm	50mm	60mm	80mm	100mm	135mm							
Nikkor AIS - Zero Optik	15mm	24mm	35mm	58mm	85mm	105mm	200mm	400mm								
Canon FD S.S.C Asph- Zero Optik	14mm	24mm	28mm	35mm	55mm	85mm	135mm	200mm	300mm							
Canon Rangefinder - Type SK	50mm	60mm	85mm	100mm												
Sigma Cine HS	14mm	20mm	24mm	28mm	35mm	40mm	50mm	80mm	105mm	135mm						
Zeiss CP.3 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/4i	65mm	75mm	100mm	135mm												
Cooke Speed Panchro Classic	65mm Macro	75mm	100mm													
Zeiss Master Prime	50mm	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					
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 Blackwing7	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 - T/LS/ Cinemascope	24mm	24mm	28mm	35mm	50mm	60mm	80mm	100mm	135mm							
Nikkor AIS - Zero Optik	15mm	24mm	35mm	58mm	85mm	105mm	200mm	400mm								
Canon FD S.S.C Asph- Zero Optik	14mm	24mm	28mm	35mm	55mm	85mm	135mm	200mm	300mm							
Canon Rangefinder - Type SK	50mm	60mm	85mm	100mm												
Sigma Cine HS	14mm	20mm	24mm	28mm	35mm	40mm	50mm	80mm	105mm	135mm						
Zeiss CP.3 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/4i	65mm	75mm	100mm	135mm												
Cooke Speed Panchro Classic	65mm Macro	75mm	100mm													
Zeiss Master Prime	50mm	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 8K 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)										6592 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 Blackwing7	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 - T/LS/ Cinemascope	24mm	24mm	28mm	35mm	50mm	60mm	80mm	100mm	135mm							
Nikkor AIS - Zero Optik	15mm	24mm	35mm	58mm	85mm	105mm	200mm	400mm								
Canon FD S.S.C Asph- Zero Optik	14mm	24mm	28mm	35mm	55mm	85mm	135mm	200mm	300mm							
Canon Rangefinder - Type SK	50mm	60mm	85mm	100mm												
Sigma Cine HS	14mm	20mm	24mm	28mm	35mm	40mm	50mm	80mm	105mm	135mm						
Zeiss CP.3 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													
Cooke S/4i	65mm	75mm	100mm	135mm												
Cooke Speed Panchro Classic	65mm Macro	75mm	100mm													
Zeiss Master Prime	50mm	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					
Arri Signature	15mm	18mm	21mm	25mm	29mm	35mm	40mm	47mm	58mm	75mm	125mm					
Zeiss Supreme	18mm	21mm	25mm	29mm	3											