

Which Prime Lenses Cover Which Sensor Size?

Updated 8/1/2022

This chart shows lens coverage for specific camera sensor formats.
It only shows 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	35mm	47mm	58mm	75mm	125mm
Zeiss Supreme	18mm	21mm	25mm	29mm	35mm	50mm	65mm	85mm	100mm
Tribe7 Blackwing7	20.7mm	27mm	37mm	47mm	57mm	77mm	107mm	137mm	135mm
Cooke Speed Panchro/i Full Frame	21mm	27mm	32mm	40mm	65mm Macro	75mm	100mm	135mm	152mm
Cinescope Leica R	24mm	28mm	35mm	50mm	60mm	80mm	100mm	135mm	135mm
Zero Optik Nikkor/ AIS	15mm	24mm	35mm	58mm	85mm	105mm	200mm	400mm	
Zero Optik Canon FD	14mm	24mm	28mm	35mm	55mm	85mm	135mm	200mm	300mm
Type SK - Canon Rangefinder	50mm	85mm	100mm						
Sigma Cine HS	14mm	20mm	24mm	28mm	35mm	40mm	50mm	80mm	105mm
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	35mm	47mm	58mm	75mm	125mm
Zeiss Supreme	18mm	21mm	25mm	29mm	35mm	50mm	65mm	85mm	100mm
Tribe7 Blackwing7	20.7mm	27mm	37mm	47mm	57mm	77mm	107mm	137mm	135mm
Cooke Speed Panchro/i Full Frame	21mm	27mm	32mm	40mm	65mm Macro	75mm	100mm	135mm	152mm
Cinescope Leica R	24mm	28mm	35mm	50mm	60mm	80mm	100mm	135mm	135mm
Zero Optik Nikkor/ AIS	15mm	20mm	24mm	35mm	58mm	85mm	105mm	200mm	400mm
Zero Optik Canon FD	14mm	24mm	28mm	35mm	55mm	85mm	135mm	200mm	300mm
Type SK - Canon Rangefinder	50mm	85mm	100mm						
Sigma Cine HS	14mm	20mm	24mm	28mm	35mm	40mm	50mm	80mm	105mm
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	35mm	47mm	58mm	75mm	125mm
Zeiss Supreme	18mm	21mm	25mm	29mm	35mm	50mm	65mm	85mm	100mm
Tribe7 Blackwing7	20.7mm	27mm	37mm	47mm	57mm	77mm	107mm	137mm	135mm
Cooke Speed Panchro/i Full Frame	21mm	27mm	32mm	40mm	65mm Macro	75mm	100mm	135mm	152mm
Cinescope Leica R	24mm	28mm	35mm	50mm	60mm	80mm	100mm	135mm	135mm
Zero Optik Nikkor/ AIS	15mm	20mm	24mm	35mm	58mm	85mm	105mm	200mm	400mm
Zero Optik Canon FD	14mm	24mm	28mm	35mm	55mm	85mm	135mm	200mm	300mm
Type SK - Canon Rangefinder	50mm	85mm	100mm						
Sigma Cine HS	14mm	20mm	24mm	28mm	35mm	40mm	50mm	80mm	105mm
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)	5592 x 3140 Pixels

Arri Signature	15mm	18mm	21mm	25mm	35mm	47mm	58mm	75mm	125mm
Zeiss Supreme	18mm	21mm	25mm	29mm	35mm	50mm	65mm	85mm	100mm
Tribe7 Blackwing7	20.7mm	27mm	37mm	47mm	57mm	77mm	107mm	137mm	135mm
Cooke Speed Panchro/i Full Frame	21mm	27mm	32mm	40mm	65mm Macro	75mm	100mm	135mm	152mm
Cinescope Leica R	24mm	28mm	35mm	50mm	60mm	80mm	100mm	135mm	135mm
Zero Optik Nikkor/ AIS	15mm	20mm	24mm	35mm	58mm	85mm	105mm	200mm	400mm
Zero Optik Canon FD	14mm	24mm	28mm	35mm	55mm	85mm	135mm	200mm	300mm
Type SK - Canon Rangefinder	50mm	85mm	100mm						
Sigma Cine HS	14mm	20mm	24mm	28mm	35mm	40mm	50mm	80mm	105mm
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 7.5KHD	36.48mm x 20.52mm (41.86 mm Ø)				7296 x 4104 Pixels				
Arri Signature	15mm	18mm	21mm	25mm	35mm	47mm	58mm	75mm	125mm
Zeiss Supreme	18mm	21mm	25mm	29mm	35mm	50mm	65mm	85mm	100mm
Tribe7 Blackwing7	20.7mm	27mm	37mm	47mm	57mm	77mm	107mm	137mm	135mm
Cooke Speed Panchro/i Full Frame	21mm	27mm	32mm	40mm	65mm Macro	75mm	100mm	135mm	152mm
Cinescope Leica R	24mm	28mm	35mm	50mm	60mm	80mm	100mm	135mm	135mm
Zero Optik Nikkor/ AIS	15mm	20mm	24mm	35mm	58mm	85mm	105mm	200mm	400mm
Zero Optik Canon FD	14mm	24mm	28mm	35mm	55mm	85mm	135mm	200mm	300mm
Type SK - Canon Rangefinder	50mm	85mm	100mm						
Sigma Cine HS	14mm	20mm	24mm	28mm	35mm	40mm	50mm	80mm	105mm
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	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								

Arri Mini LF 4.3K 16:9 - UHD	35.64mm x 20.05mm (40.89 mm Ø)				4320 x 2430 Pixels				
Arri Signature	15mm	18mm	21mm	25mm	35mm	47mm	58mm	75mm	125mm
Zeiss Supreme	18mm	21mm	25mm	29mm	35mm	50mm	65mm	85mm	100mm
Tribe7 Blackwing7	20.7mm	27mm	37mm	47mm	57mm	77mm	107mm	137mm	135mm
Cooke Speed Panchro/i Full Frame	21mm	27mm	32mm	40mm	65mm Macro	75mm	100mm	135mm	152mm
Cinescope Leica R	19mm	24mm	28mm	35mm	50mm	60mm	80mm	100mm	135mm
Zero Optik Nikkor/ AIS	15mm	20mm	24mm	35mm	58mm	85mm	105mm	200mm	400mm
Zero Optik Canon FD	14mm	24mm	28mm	35mm	55mm	85mm	135mm	200mm	300mm
Type SK - Canon Rangefinder	50mm	85mm	100mm						
Sigma Cine HS	14mm	20mm	24mm	28mm	35mm	40mm	50mm	80mm	105mm
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	135mm					
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								

Zeiss CP.3 XD	15mm	18mm	25mm	35mm	50mm	85mm	100mm	135mm	200mm	300mm
Zeiss CP.2 Superspeeds	35mm	50mm	85mm							
Schneider Xenon EF/ PL	25mm	35mm	50mm	75mm	100mm					
Leica Summicron	35mm	50mm	75mm	100mm	135mm					
Cooke S/4i	65mm	75mm	100mm	135mm						
Cooke Speed Panchro Classic	50mm	65mm Macro	75mm	100mm						
Zeiss Master Prime	50mm	100mm	100mm Macro							
Zeiss Ultraprime	32mm	40mm	65mm	85mm	100mm	135mm				
Zeiss Superspeed	65mm	85mm								
Zeiss Standard	50mm	85mm	100mm	135mm						
Zeiss Macro	50mm	100mm								

Sony Venice 5.7K 16:9	33.7 mm x 19.00 mm (38.69 mm Ø)					5674 x 3192 Pixels				
Sony Venice 2 8.2K 17:9	34.1 mm x 18.00 mm (38.56 mm Ø)					8192 x 4320 Pixels				
Arri Signature	15mm	18mm	21mm	25mm	35mm	47mm	58mm	75mm	125mm	
Zeiss Supreme	18mm	21mm	25mm	29mm	35mm	50mm	65mm	85mm	100mm	135mm
Tribe7 Blackwing7	20.7mm	27mm	37mm	47mm	57mm	77mm	107mm	137mm		