

Which Zoom Lens Covers Which Sensor Size?

Updated 11/1/25

This chart shows lens coverage for specific camera sensor formats. It only shows lenses which completely cover the sensor with no vignetting. 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.omnicalcuator.com/math/diagonal-of-rectangle>

Red Monstro 8K	40.96mm x 21.60mm (46.31 mm Ø)			8192 x 4320 Pixels
Red V-Raptor 8K 17:9	40.96mm x 21.60mm (46.31 mm Ø)			8192 x 4320 Pixels
Angenieux Ultra 12x FF/VV 36 - 435mm T4.2		cf 5'	28.1lbs	162mm
Angenieux EZ-3 FF/VV 68 - 250mm T3.5		cf 4'	5.7lbs	114mm
Angenieux EZ-2 FF/VV 22 - 60mm T3		cf 2'	4.6 lbs	114mm
Angenieux EZ-1 FF/VV 45 - 135mm T3		cf 2'	4.5 lbs	114mm
Arri Signature 65-300mm T2.8		cf6'	19.9lbs	156mm
Arri Signature 45-135mm T2.8		cf 3' 4"	8.3lbs	114mm
Arri Signature 16-32mm T2.8		cf 1' 6"	7.5lbs	156mm
Canon /Century 150 - 600mm T6.7		cf 10'	18 lbs	125mm
Cooke Varotal FF/i 30-95mm T2.9		cf 2' 8"	8.8lbs	114mm
Cooke Varotal FF/i 85-215mm T2.9		cf 5'	8.8lbs	114mm
Fujinon Premista 80-250mm T2.9		cf 5'	8.4 lbs	114mm
Fujinon Premista 28-100mm T2.9		cf 2' 7"	8.4 lbs	114mm
Fujinon Premista 19-45mm T2.9		cf 2'	7.3 lbs	114mm
Voigtlander Zoomar 36 -82mm T3.1		cf 3'	8.3lbs	136mm
Zeiss CZ 15-30mm T2.9	Crops at 15mm. Clears at 16mm.	cf 1' 10'	5.7 lbs	114mm
Zeiss CZ 28-70mm T2.9		cf 2' 8"	5.5 lbs	95mm
Zeiss CZ 70-200mm T2.9		cf 5'	6.2 lbs	95mm
Arri Mini LF Open Gate	36.70mm x 25.54mm (44.71 mm Ø)			4448 x 3096 Pixels
Canon CINE-SERVO 75-1500mm T7.5-13 (w/ 1.5x)		cf 11' 6"	14.5lbs	136mm
Angenieux Ultra 12x FF/VV 36 - 435mm T4.2		cf 5'	28.1lbs	162mm
Angenieux EZ-3 FF/VV 68 - 250mm T3.5		cf 4'	5.7lbs	114mm
Angenieux EZ-2 FF/VV 22 - 60mm T3		cf 2'	4.6 lbs	114mm
Angenieux EZ-1 FF/VV 45 - 135mm T3		cf 2'	4.5 lbs	114mm
Arri Signature 65-300mm T2.8		cf6'	19.9lbs	156mm
Arri Signature 45-135mm T2.8		cf 3' 4"	8.3lbs	114mm
Arri Signature 16-32mm T2.8		cf 1' 6"	7.5lbs	156mm
Canon /Century 150 - 600mm T6.7		cf 10'	18 lbs	125mm
Cooke Varotal FF/i 30-95mm T2.9		cf 2' 8"	8.8lbs	114mm
Cooke Varotal FF/i 85-215mm T2.9		cf 5'	8.8lbs	114mm
Fujinon Premista 80-250mm T2.9		cf 5'	8.4 lbs	114mm
Fujinon Premista 28-100mm T2.9		cf 2' 7"	8.4 lbs	114mm
Fujinon Premista 19-45mm T2.9		cf 2'	7.3 lbs	114mm
Voigtlander Zoomar 36 -82mm T3.1		cf 3'	8.3lbs	136mm
Zeiss CZ 15-30mm T2.9	Crops at 15mm. Clears at 16mm.	cf 1' 10'	5.7 lbs	114mm
Zeiss CZ 28-70mm T2.9		cf 2' 8"	5.5 lbs	95mm
Zeiss CZ 70-200mm T2.9		cf 5'	6.2 lbs	95mm
Red V-Raptor 8K 16:9	38.40mm x 21.60mm (44.10 mm Ø)			7680 x 4320 Pixels
Red Monstro 8KHD	38.40mm x 21.60mm (44.10 mm Ø)			7680 x 4320 Pixels
Canon CINE-SERVO 75-1500mm T7.5-13 (w/ 1.5x)		cf 11' 6"	14.5lbs	136mm
Angenieux Ultra 12x FF/VV 36 - 435mm T4.2		cf 5'	28.1lbs	162mm
Angenieux EZ-3 FF/VV 68 - 250mm T3.5		cf 4'	5.7lbs	114mm
Angenieux EZ-2 FF/VV 22 - 60mm T3		cf 2'	4.6 lbs	114mm
Angenieux EZ-1 FF/VV 45 - 135mm T3		cf 2'	4.5 lbs	114mm
Arri Signature 65-300mm T2.8		cf6'	19.9lbs	156mm
Arri Signature 45-135mm T2.8		cf 3' 4"	8.3lbs	114mm
Arri Signature 16-32mm T2.8		cf 1' 6"	7.5lbs	156mm
Canon /Century 150 - 600mm T6.7		cf 10'	18 lbs	125mm
Cooke Varotal FF/i 30-95mm T2.9		cf 2' 8"	8.8lbs	114mm
Cooke Varotal FF/i 85-215mm T2.9		cf 5'	8.8lbs	114mm
Fujinon Premista 80-250mm T2.9		cf 5'	8.4 lbs	114mm
Fujinon Premista 28-100mm T2.9		cf 2' 7"	8.4 lbs	114mm
Fujinon Premista 19-45mm T2.9		cf 2'	7.3 lbs	114mm
Voigtlander Zoomar 36 -82mm T3.1		cf 3'	8.3lbs	136mm
Zeiss CZ 15-30mm T2.9		cf 1' 10'	5.7 lbs	114mm
Zeiss CZ 28-70mm T2.9		cf 2' 8"	5.5 lbs	95mm
Zeiss CZ 70-200mm T2.9		cf 5'	6.2 lbs	95mm
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	36.20mm x 24.10mm (43.50 mm Ø)			6048 x 4032 Pixels
Canon C700, C500 FF 17:9	38.10mm x 20.10mm (43.10 mm Ø)			5592 x 3140 Pixels
Canon CINE-SERVO 75-1500mm T7.5-13 (w/ 1.5x)		cf 11' 6"	14.5lbs	136mm
Angenieux Ultra 12x FF/VV 36 - 435mm T4.2		cf 5'	28.1lbs	162mm
Angenieux EZ-3 FF/VV 68 - 250mm T3.5		cf 4'	5.7lbs	114mm
Angenieux EZ-2 FF/VV 22 - 60mm T3		cf 2'	4.6 lbs	114mm
Angenieux EZ-1 FF/VV 45 - 135mm T3		cf 2'	4.5 lbs	114mm
Arri Signature 65-300mm T2.8		cf6'	19.9lbs	156mm
Arri Signature 45-135mm T2.8		cf 3' 4"	8.3lbs	114mm
Arri Signature 16-32mm T2.8		cf 1' 6"	7.5lbs	156mm
Canon /Century 150 - 600mm T6.7		cf 10'	18 lbs	125mm
Cooke Varotal FF/i 30-95mm T2.9		cf 2' 8"	8.8lbs	114mm
Cooke Varotal FF/i 85-215mm T2.9		cf 5'	8.8lbs	114mm
Fujinon Premista 80-250mm T2.9		cf 5'	8.4 lbs	114mm
Fujinon Premista 28-100mm T2.9		cf 2' 7"	8.4 lbs	114mm
Fujinon Premista 19-45mm T2.9		cf 2'	7.3 lbs	114mm
Voigtlander Zoomar 36 -82mm T3.1		cf 3'	8.3lbs	136mm
Zeiss CZ 15-30mm T2.9		cf 1' 10'	5.7 lbs	114mm
Zeiss CZ 28-70mm T2.9		cf 2' 8"	5.5 lbs	95mm
Zeiss CZ 70-200mm T2.9		cf 5'	6.2 lbs	95mm
Red Monstro 7.5KHD	36.48mm x 20.52mm (41.86 mm Ø)			7296 x 4104 Pixels
Nikon Zr 6K FF/FX	35.90mm x 20.20mm (41.23 mm Ø)			6048 x 3402 Pixels
Sony Burano FF 8.6K 16:9	35.90mm x 20.20mm (41.19 mm Ø)			8632 x 4552 Pixels
Arri Mini LF 4.3K 16:9 - UHD	35.64mm x 20.05mm (40.89 mm Ø)			4320 x 2430 Pixels
Canon CINE-SERVO 75-1500mm T7.5-13 (w/ 1.5x)		cf 11' 6"	14.5lbs	136mm
Angenieux Ultra 12x FF/VV 36 - 435mm T4.2		cf 5'	28.1lbs	162mm
Angenieux EZ-3 FF/VV 68 - 250mm T3.5		cf 4'	5.7lbs	114mm
Angenieux EZ-2 FF/VV 22 - 60mm T3		cf 2'	4.6 lbs	114mm
Angenieux EZ-1 FF/VV 45 - 135mm T3		cf 2'	4.5 lbs	114mm
Arri Signature 65-300mm T2.8		cf6'	19.9lbs	156mm
Arri Signature 45-135mm T2.8		cf 3' 4"	8.3lbs	114mm
Arri Signature 16-32mm T2.8		cf 1' 6"	7.5lbs	156mm
Canon /Century 150 - 600mm T6.7		cf 10'	18 lbs	125mm
Cooke Varotal FF/i 30-95mm T2.9		cf 2' 8"	8.8lbs	114mm
Cooke Varotal FF/i 85-215mm T2.9		cf 5'	8.8lbs	114mm
Fujinon Premista 80-250mm T2.9		cf 5'	8.4 lbs	114mm
Fujinon Premista 28-100mm T2.9		cf 2' 7"	8.4 lbs	114mm
Fujinon Premista 19-45mm T2.9		cf 2'	7.3 lbs	114mm
Voigtlander Zoomar 36 -82mm T3.1		cf 3'	8.3lbs	136mm
Zeiss CZ 15-30mm T2.9		cf 1' 10'	5.7 lbs	114mm
Zeiss CZ 28-70mm T2.9		cf 2' 8"	5.5 lbs	95mm
Zeiss CZ 70-200mm T2.9		cf 5'	6.2 lbs	95mm
Sony Venice 2.8K 17:9	35.9mm x 19.00mm (40.62 mm Ø)			8640 x 4556 Pixels
Sony Burano FF 8.6K 17:9	35.90mm x 19.90mm (40.57 mm Ø)			8632 x 4552 Pixels
Sony Venice 6K 17:9	35.90mm x 19.00mm (40.57 mm Ø)			6048 x 3190 Pixels
Red V-Raptor 7K 17:9	35.84mm x 18.90mm (40.52 mm Ø)			7168 x 3780 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)			6008 x 2160 Pixels
Canon CINE-SERVO 75-1500mm T7.5-13 (w/ 1.5x)		cf 11' 6"	14.5lbs	136mm
Angenieux Ultra 12x FF/VV 36 - 435mm T4.2		cf 5'	28.1lbs	162mm
Angenieux EZ-3 FF/VV 68 - 250mm T3.5		cf 4'	5.7lbs	114mm
Angenieux EZ-2 FF/VV 22 - 60mm T3		cf 2'	4.6 lbs	114mm
Angenieux EZ-1 FF/VV 45 - 135mm T3		cf 2'	4.5 lbs	114mm
Arri Signature 65-300mm T2.8		cf6'	19.9lbs	156mm
Arri Signature 45-135mm T2.8		cf 3' 4"	8.3lbs	114mm
Arri Signature 16-32mm T2.8		cf 1' 6"	7.5lbs	156mm
Canon /Century 150 - 600mm T6.7		cf 10'	18 lbs	125mm
Cooke Varotal FF/i 30-95mm T2.9		cf 2' 8"	8.8lbs	114mm
Cooke Varotal FF/i 85-215mm T2.9		cf 5'	8.8lbs	114mm
Fujinon Premista 80-250mm T2.9		cf 5'	8.4 lbs	114mm
Fujinon Premista 28-100mm T2.9		cf 2' 7"	8.4 lbs	114mm
Fujinon Premista 19-45mm T2.9		cf 2'	7.3 lbs	114mm
Voigtlander Zoomar 36 -82mm T3.1		cf 3'	8.3lbs	136mm
Zeiss CZ 15-30mm T2.9		cf 1' 10'	5.7 lbs	114mm
Zeiss CZ 28-70mm T2.9		cf 2' 8"	5.5 lbs	95mm
Zeiss CZ 70-200mm T2.9		cf 5'	6.2 lbs	95mm
Sony Venice 2.8K 2K 17:9	34.1 mm x 18.00 mm (38.56mm Ø)			8192 x 4320 Pixels
Sony Burano FFc 6K 16:9	33.6 mm x 18.90mm (38.55mm Ø)			6052 x 3404 Pixels
Sony Venice 5.7K 16:9	33.7 mm x 19.00 mm (38.69mm Ø)			5674 x 3192 Pixels
Canon CINE-SERVO 75-1500mm T7.5-13 (w/ 1.5x)		cf 11' 6"	14.5lbs	136mm
Angenieux Ultra 12x FF/VV 36 - 435mm T4.2		cf 5'	28.1lbs	162mm
Angenieux EZ-3 FF/VV 68 - 250mm T3.5		cf 4'	5.7lbs	114mm
Angenieux EZ-2 FF/VV 22 - 60mm T3		cf 2'	4.6 lbs	114mm
Angenieux EZ-1 FF/VV 45 - 135mm T3		cf 2'	4.5 lbs	114mm
Arri Signature 65-300mm T2.8		cf6'	19.9lbs	156mm
Arri Signature 45-135mm T2.8		cf 3' 4"	8.3lbs	114mm
Arri Signature 16-32mm T2.8		cf 1' 6"	7.5lbs	156mm
Canon /Century 150 - 600mm T6.7		cf 10'	18 lbs	125mm
Cooke Varotal FF/i 30-95mm T2.9		cf 2' 8"	8.8lbs	114mm
Cooke Varotal FF/i 85-215mm T2.9		cf 5'	8.8lbs	114mm
Fujinon Premista 80-250mm T2.9		cf 5'	8.4 lbs	114mm
Fujinon Premista 28-100mm T2.9		cf 2' 7"	8.4 lbs	114mm
Fujinon Premista 19-45mm T2.9		cf 2'	7.3 lbs	114mm
Voigtlander Zoomar 36 -82mm T3.1		cf 3'	8.3lbs	136mm
Zeiss CZ 15-30mm T2.9		cf 1' 10'	5.7 lbs	114mm
Zeiss CZ 28-70mm T2.9		cf 2' 8"	5.5 lbs	95mm
Zeiss CZ 70-200mm T2.9		cf 5'	6.2 lbs	95mm
Sony Venice 2.7.6K 16:9	32.00mm x 18.00 mm (36.72 mm Ø)			7680 x 4320 Pixels
Sony Burano FFc 3.8K 16:9	32.00 mm x 18.00mm (36.72mm Ø)			3840 x 2160 Pixels
Arri Mini LF 3.8K UHD 16:9	31.68mm x 17.82mm (36.35mm Ø)			3840 x 2160 Pixels
Red Gemini 5K 1.7:1	30.72mm x 18.00mm (35.61mm Ø)			5120 x 3000 Pixels
Canon CINE-SERVO 75-1500mm T7.5-13 (w/ 1.5x)		cf 11' 6"	14.5lbs	136mm
Angenieux Ultra 12x FF/VV 36 - 435mm T4.2		cf 5'	28.1lbs	162mm
Angenieux EZ-3 FF/VV 68 - 250mm T3.5		cf 4'	5.7lbs	114mm
Angenieux EZ-2 FF/VV 22 - 60mm T3		cf 2'	4.6 lbs	114mm
Angenieux EZ-1 FF/VV 45 - 135mm T3		cf 2'	4.5 lbs	114mm
Arri Signature 65-300mm T2.8		cf6'	19.9lbs	156mm
Arri Signature 45-135mm T2.8		cf 3' 4"	8.3lbs	114mm
Arri Signature 16-32mm T2.8		cf 1' 6"	7.5lbs	156mm
Canon /Century 150 - 600mm T6.7		cf 10'	18 lbs	125mm
Cooke Varotal FF/i 30-95mm T2.9		cf 2' 8"	8.8lbs	114mm
Cooke Varotal FF/i 85-215mm T2.9		cf 5'	8.8lbs	114mm
Fujinon Premista 80-250mm T2.9		cf 5'	8.4 lbs	114mm
Fujinon Premista 28-100mm T2.9		cf 2' 7"	8.4 lbs	114mm
Fujinon Premista 19-45mm T2.9		cf 2'	7.3 lbs	114mm
Voigtlander Zoomar 36 -82mm T3.1		cf 3'	8.3lbs	136mm
Zeiss CZ 15-30mm T2.9		cf 1' 10'	5.7 lbs	114mm
Zeiss CZ 28-70mm T2.9		cf 2' 8"	5.5 lbs	95mm
Zeiss CZ 70-200mm T2.9		cf 5'	6.2 lbs	95mm
Red V-Raptor 6K 17:9	30.72mm x 16.20mm (34.73mm Ø)			6144 x 3240 Pixels
Red Monstro 6K	30.70mm x 16.20mm (34.70mm Ø)			6144 x 3240 Pixels
Red Dragon 6K	30.70mm x 15.80mm (34.50mm Ø)			6144 x 3160 Pixels
Arri Alexa 35 4.6K Open Gate	27.99mm x 19.22mm (33.96mm Ø)			4608 x 3164 Pixels
Red Helium 6K	29.90mm x 15.77mm (33.80mm Ø)			8192 x 4320 Pixels
Canon CINE-SERVO 50-1000mm T5.0-8.9		cf 11' 6"	14.5lbs	136mm
Angenieux Ultra 12x FF/VV 36 - 435mm T4.2		cf 5'	28.1lbs	162mm
Angenieux Optimo 24-290mm T2.8	w/ Optica Magnus OG Expander	cf 4'	24lbs	162mm
Angenieux EZ-3 FF/VV 68 - 250mm T3.5		cf 4'	5.7lbs	114mm
Angenieux EZ-2 FF/VV 22 - 60mm T3		cf 2'	4.6 lbs	114mm
Angenieux EZ-1 S35 30-90mm T2		cf 2'	4.5 lbs	114mm
Angenieux Optimo 20.5-98mm T2.6		cf 2'	12lbs	136mm
Angenieux Optimo 45-120mm T2.8		cf 3' 1"	4.3 lbs	114mm
Angenieux Optimo 28-76mm T2.6		cf 2'	4.4 lbs	114mm
Angenieux HR 25-250mm T3.5	w/ Optica Magnus OG Expander	cf 5' 7"	9.5 lbs	136mm
Arri Signature 65-300mm T2.8		cf6'	19.9lbs	156mm
Arri Signature 45-135mm T2.8		cf 3' 4"	8.3lbs	114mm
Arri Signature 16-32mm T2.8		cf 1' 6"	7.5lbs	156mm
Canon 30-105mm T2.8		cf 1' 11"	4.8 lbs	114mm
Canon /Century 150 - 600mm T6.7		cf 10'	18 lbs	125mm
Cooke Varotal FF/i 30-95mm T2.9		cf 2' 8"	8.8lbs	114mm
Cooke Varotal FF/i 85-215mm T2.9		cf 5'	8.8lbs	114mm
Cooke Varotal Classic 18-100mm T3	w/ Optica Magnus OG Expander	cf 2' 4"	13.5 lbs	150mm
Cooke Cineital Classic 25-250mm T3.7	w/ Optica Magnus OG Expander	cf 5' 6"	10.5lbs	150mm
Fujinon Premista 80-250mm T2.9		cf 5'	8.4 lbs	114mm
Fujinon Premista 28-100mm T2.9		cf 2' 7"	8.4 lbs	114mm
Fujinon Premista 19-45mm T2.9		cf 2'	7.3 lbs	114mm
Fujinon Cabrio 85-300mm T2.9		cf 4'	6.8 lbs	114mm
Fujinon Cabrio 19-90mm T2.9		cf 2' 10"	6.1 lbs	114mm
Sigma Cine 50-100mm T2		cf 3' 2"	4 lbs	95mm
Voigtlander Zoomar 36 -82mm T3.1		cf 3'	8.3lbs	136mm
Zeiss CZ 15-30mm T2.9	</			