

Which Zoom Lens Cover Which Sensor Size?

Updated 5/25/22

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.omnicalculator.com/math/diagonal-of-rectangle>

Red Monstro 8K		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
Arri Signature 65-300mm T2.8	cf6'	19.9lbs	156mm
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
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
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
Century/ Canon 150 -600mm T6.7	cf 10'	18 lbs	125mm
Arri Mini LF Open Gate		36.70mm x 25.54mm (44.71 mm Ø)	4448 x 3096 Pixels
Angenieux Ultra 12x FF/VV 36 - 435mm T4.2	cf 5'	28.1lbs	162mm
Arri Signature 65-300mm T2.8	cf6'	19.9lbs	156mm
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
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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
Century/ Canon 150 -600mm T6.7	cf 10'	18 lbs	125mm
Red Monstro 8KHD		38.40mm x 21.60mm (44.10 mm Ø)	7680 x 4320 Pixels
Angenieux Ultra 12x FF/VV 36 - 435mm T4.2	cf 5'	28.1lbs	162mm
Arri Signature 65-300mm T2.8	cf6'	19.9lbs	156mm
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
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
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
Century/ Canon 150 -600mm T6.7	cf 10'	18 lbs	125mm
Red Monstro 7.5K		38.40mm x 20.40mm (43.50 mm Ø)	7680 x 4080 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
Angenieux Ultra 12x FF/VV 36 - 435mm T4.2	cf 5'	28.1lbs	162mm
Arri Signature 65-300mm T2.8	cf6'	19.9lbs	156mm
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
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
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
Century/ Canon 150 -600mm T6.7	cf 10'	18 lbs	125mm
Red Monstro 7.5KHD		36.48mm x 20.52mm (41.86 mm Ø)	7296 x 4104 Pixels
Arri Mini LF 4.3K 16:9 - UHD		35.64mm x 20.05mm (40.89 mm Ø)	4320 x 2430 Pixels
Angenieux Ultra 12x FF/VV 36 - 435mm T4.2	cf 5'	28.1lbs	162mm
Arri Signature 65-300mm T2.8	cf6'	19.9lbs	156mm
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
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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
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
Century/ Canon 150 -600mm T6.7	cf 10'	18 lbs	125mm
Sony Venice 5.7K 16:9		33.7 mm x 18.9 mm (38.64 mm Ø)	5670 x 3190 Pixels
Angenieux Ultra 12x FF/VV 36 - 435mm T4.2	cf 5'	28.1lbs	162mm
Arri Signature 65-300mm T2.8	cf6'	19.9lbs	156mm
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
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
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
Century/ Canon 150 -600mm T6.7	cf 10'	18 lbs	125mm
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
Angenieux Ultra 12x FF/VV 36 - 435mm T4.2	cf 5'	28.1lbs	162mm
Arri Signature 65-300mm T2.8	cf6'	19.9lbs	156mm
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
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
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
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
Sigma Cine 50-100mm T2	cf 3' 2"	4 lbs	95mm
Century/ Canon 150 -600mm T6.7	cf 10'	18 lbs	125mm
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
Red Helium 8K		29.90mm x 15.77mm (33.85mm Ø)	8192 x 4320 Pixels
Sony FX9 FF Crop 5K 17:9		29.73mm x 15.66mm (33.55mm Ø)	5008 x 2640 Pixels
Arri Mini Open Gate		28.17mm x 18.13mm (33.50mm Ø)	3414 x 2198 Pixels
Angenieux Ultra 12x U35 26 - 320mm T3.1	cf 5'	28.1lbs	162mm
Arri Signature 65-300mm T2.8	cf6'	19.9lbs	156mm
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
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
Angenieux Optimo 45-120mm T2.8	cf 3' 1"	4.3 lbs	114mm
Canon 30-105mm T2.8	cf 1' 11"	4.8 lbs	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
Fujinon Cabrio 85-300mm T2.9	cf 4'	6.8 lbs	114mm
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
Sigma Cine 50-100mm T2	cf 3' 2"	4 lbs	95mm
Century/ Canon 150 -600mm T6.7	cf 10'	18 lbs	125mm
Red Monstro 6KHD		28.80mm x 16.20mm (33.00mm Ø)	5760 x 3240 Pixels
Canon C700 S35		28.90mm x 15.20mm (32.60mm Ø)	4096 x 2160 Pixels
Angenieux Ultra 12x U35 26 - 320mm T3.1	cf 5'	28.1lbs	162mm
Arri Signature 65-300mm T2.8	cf6'	19.9lbs	156mm
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
Angenieux EZ-2 FF/VV 22 - 60mm T3	cf 2'	4.6 lbs	114mm
Angenieux EZ1 S35 30-90mm T2	cf 2'	4.5 lbs	114mm
Angenieux Optimo 15-40mm T2.6	cf 2'	4.2 lbs	114mm
Angenieux Optimo 45-120mm T2.8	cf 3' 1"	4.3 lbs	114mm
Angenieux Optimo DP 30-80mm T2.8	cf 2'	4.2 lbs	114mm
Canon 17-120mm T2.95	cf 2' 9"	6.4 lbs	114mm
Canon 15.5 - 47mm T2.8	cf 1' 7"	4.8 lbs	114mm
Canon 30-105mm T2.8	cf 1' 11"	4.8 lbs	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 Cabrio 85-300mm T2.9	cf 4'	6.8 lbs	114mm
Fujinon Premista 19-45mm T2.9	cf 2'	7.3 lbs	114mm
Fujinon Cabrio 19-90mm T2.9	cf 2' 10"	6.1 lbs	114mm
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
Sigma Cine 50-100mm T2	cf 3' 2"	4 lbs	95mm
Century/ Canon 150 -600mm T6.7	cf 10'	18 lbs	125mm
Red Komodo 6K		27.03mm x 14.25mm (30.55mm Ø)	6144 x3240 Pixels
Arri Mini LF 3.2K S35 16:9		26.40mm x 14.85mm (29.99mm Ø)	3200 x 1800 Pixels
Arri Mini 4K UHD		26.40mm x 14.85mm (29.99mm Ø)	3840 x 2160 Pixels
Phantom Flex 4K UHD		25.90mm x 14.60mm (29.70mm Ø)	3840 x 2160 Pixels
Canon C300 MkIII 4K		26.20mm x 13.80mm (29.61mm Ø)	4096 x 2160 Pixels
Canon C70 4K		26.20mm x 13.80mm (29.61mm Ø)	4096 x 2160 Pixels
Angenieux Ultra 12x U35 26 - 320mm T3.1	cf 5'	28.1lbs	162mm
Arri Signature 65-300mm T2.8	cf6'	19.9lbs	156mm
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
Angenieux EZ-2 FF/VV 22 - 60mm T3	cf 2'	4.6 lbs	114mm
Angenieux EZ1 S35 30-90mm T2	cf 2'	4.5 lbs	114mm
Angenieux Optimo Style 25-250mm T3.5	cf 4'	16 lbs	136mm
Angenieux Optimo 15-40mm T2.6	cf 2'	4.2 lbs	114mm
Angenieux Optimo 45-120mm T2.8	cf 3' 1"	4.3 lbs	114mm
Angenieux Optimo DP 30-80mm T2.8	cf 2'	4.2 lbs	114mm
Canon 30-300mm T2.95	cf 5'	12.8 lbs	136mm
Canon 17-120mm T2.95	cf 2' 9"	6.4 lbs	114mm
Canon 15.5 - 47mm T2.8	cf 1' 7"	4.8 lbs	114mm
Canon 30-105mm T2.8	cf 1' 11"	4.8 lbs	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
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
Arri Fujinon Alura 18-100mm T2.6	cf 2' 4"	10.4 lbs	134mm
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
Sigma Cine 50-100mm T2	cf 3' 2"	4 lbs	95mm
Sigma Cine 18 - 35mm T2	cf 2'		95mm
Century/ Canon 150 -600mm T6.7	cf 10'	18 lbs	125mm
Tokina Duclos 11 - 16mm T2.8	cf 1'		80mm
Red 18 - 50mm T3	cf 8"		114mm
Red Monstro 5KHD		24.00mm x 13.50mm (27.54mm Ø)	4800 x 2700 Pixels
Venice S35			