

Which Zoom Lens Cover Which Sensor Size?

6/21/2023

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>

Angenieux Ultra 12x FF/AV 36 - 435mm T4.2		cf 5'	28.1lbs	162mm	
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	
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	
Angenieux EZ-2 FF/AV 22 - 60mm T3		cf 2'	4.6 lbs	114mm	
Angenieux EZ-1 FF/AV 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 8KHD		38.40mm x 21.60mm (44.10 mm Ø)		7680 x 4320 Pixels	
Angenieux Ultra 12x FF/AV 36 - 435mm T4.2		cf 5'	28.1lbs	162mm	
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	
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	
Angenieux EZ-2 FF/AV 22 - 60mm T3		cf 2'	4.6 lbs	114mm	
Angenieux EZ-1 FF/AV 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 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	
Angenieux Ultra 12x FF/AV 36 - 435mm T4.2		cf 5'	28.1lbs	162mm	
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	
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	
Angenieux EZ-2 FF/AV 22 - 60mm T3		cf 2'	4.6 lbs	114mm	
Angenieux EZ-1 FF/AV 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/AV 36 - 435mm T4.2		cf 5'	28.1lbs	162mm	
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	
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	
Angenieux EZ-2 FF/AV 22 - 60mm T3		cf 2'	4.6 lbs	114mm	
Angenieux EZ-1 FF/AV 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 7K		35.80mm x 18.90mm (40.50 mm Ø)		7168 x 3780 Pixels	
Sony Venice 2.8.6K 17:9		35.9mm x 19.00mm (40.62 mm Ø)		8640 x 4556 Pixels	
Sony Venice FF 6K 17:9		35.90mm x 19.00mm (40.57 mm Ø)		6048 x 3190 Pixels	
Sony FX9 FF 4K 17:9		35.70mm x 18.80mm (40.35 mm Ø)		3840 x 2160 Pixels	
Angenieux Ultra 12x FF/AV 36 - 435mm T4.2		cf 5'	28.1lbs	162mm	
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	
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	
Angenieux EZ-2 FF/AV 22 - 60mm T3		cf 2'	4.6 lbs	114mm	
Angenieux EZ-1 FF/AV 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	
Sony Venice 2.8.2K 17:9		34.1 mm x 18.00 mm (38.56 mm Ø)		8192 x 4320 Pixels	
Angenieux Ultra 12x FF/AV 36 - 435mm T4.2		cf 5'	28.1lbs	162mm	
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	
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	
Angenieux EZ-2 FF/AV 22 - 60mm T3		cf 2'	4.6 lbs	114mm	
Angenieux EZ-1 FF/AV 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 2.7.6K 16:9		32.00mm x 18.00 mm (36.72 mm Ø)		7680 x 4320 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	
Angenieux Ultra 12x FF/AV 36 - 435mm T4.2		cf 5'	28.1lbs	162mm	
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	
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	
Angenieux EZ-2 FF/AV 22 - 60mm T3		cf 2'	4.6 lbs	114mm	
Angenieux EZ-1 FF/AV 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 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 8K		29.90mm x 15.77mm (33.80mm Ø)		8192 x 4320 Pixels	
Angenieux Ultra 12x U35 26 - 320mm T3.1		cf 5'	28.1lbs	162mm	
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	
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	
Angenieux EZ-2 FF/AV 22 - 60mm T3		cf 2'	4.6 lbs	114mm	
Angenieux EZ-1 FF/AV 45 - 135mm T3		cf 2'	4.5 lbs	114mm	
Zeiss CZ 15-30mm T2.9		cf 1' 10"	5.7 lbs	114mm	