

Which Zoom Lens Cover Which Sensor Size?

Updated 11/29/19

This chart is designed to show which lenses cover which 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 sensor is not shown, find the table with 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

60fps

Angenieux Ultra 12x FF/VV 36 - 435mm T4.2		cf 5'	28.1lbs	162mm
Fujinon Premista 28-100mm T2.9		cf 2' 7"	8.4 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	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
Century/ Canon 150 -600mm T6.7		cf 10'	18 lbs	125mm

Arri LF/ Mini LF Open Gate

36.70mm x 25.54mm (44.71 mm Ø)

4448 x 3096 Pixels

40fps

Angenieux Ultra 12x FF/VV 36 - 435mm T4.2		cf 5'	28.1lbs	162mm
Fujinon Premista 28-100mm T2.9		cf 2' 7"	8.4 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	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
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

60fps

Full Frame 46.31 mm Ø = Requires 1.05x Magnification

Angenieux Ultra 12x FF/VV 36 - 435mm T4.2		cf 5'	28.1lbs	162mm
Fujinon Premista 28-100mm T2.9		cf 2' 7"	8.4 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	64fps
Sony Venice 6K 3:2	36.20mm x 24.10mm (43.50 mm Ø)	6048 x 4032 Pixels	
Canon C700 FF 17:9	38.10mm x 20.10mm (43.10 mm Ø)	5592 x 3140 Pixels	

Full Frame 46.31 mm Ø= Requires 1.06x Magnification

Angenieux Ultra 12x FF/VV 36 - 435mm T4.2	cf 5'	28.1lbs	162mm
Fujinon Premista 28-100mm T2.9	cf 2' 7"	8.4 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 LF/ Mini LF Open Gate 16:9	36.70mm x 20.62mm (42.10 mm Ø)	4448 x 2502 Pixels
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Angenieux Ultra 12x FF/VV 36 - 435mm T4.2	cf 5'	28.1lbs	162mm
Fujinon Premista 28-100mm T2.9	cf 2' 7"	8.4 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
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Full Frame 46.31 mm Ø= Requires 1.11x Magnification

Angenieux Ultra 12x FF/VV 36 - 435mm T4.2	cf 5'	28.1lbs	162mm
Fujinon Premista 28-100mm T2.9	cf 2' 7"	8.4 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 7K	35.80mm x 18.90mm (40.50 mm Ø)	7168 x 3780 Pixels	68fps
Sony Venice FF 6K 17:9	35.90mm x 19.00mm (40.57 mm Ø)	6048 x 3190 Pixels	30fps
Sony FX9 FF 4K 17:9	35.70mm x 18.80mm (40.35 mm Ø)	3840 x 2160 Pixels	

Full Frame 46.31 mm Ø= Requires 1.15x Magnification

Angenieux Ultra 12x FF/VV 36 - 435mm T4.2	cf 5'	28.1lbs	162mm
Fujinon Premista 28-100mm T2.9	cf 2' 7"	8.4 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

Sony Venice 5.7K 16:9	33.7 mm x 18.9 mm (38.64 mm Ø)	5670 x 3190 Pixels	30fps
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Angenieux Ultra 12x FF/VV 36 - 435mm T4.2	cf 5'	28.1lbs	162mm
Fujinon Premista 28-100mm T2.9	cf 2' 7"	8.4 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 LF/ Mini LF 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

Full Frame 46.31 mm Ø= Requires 1.28x Magnification

Angenieux Ultra 12x FF/VV 36 - 435mm T4.2	cf 5'	28.1lbs	162mm
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 28-100mm T2.9	cf 2' 7"	8.4 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	80fps
Red Dragon 6K	30.70mm x 15.80mm (34.50mm Ø)	6144 x 3160 Pixels	
Red Helium 8K	29.90mm x 15.77mm (33.80mm Ø)	8192 x 4320 Pixels	
Arri Mini Open Gate	28.17mm x 18.13mm (33.50mm Ø)	3414 x 2198 Pixels	

Full Frame 46.31 mm Ø= Requires 1.34x Magnification

Angenieux Ultra 12x U35 26 - 320mm T3.1	cf 5'	28.1lbs	162mm
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 28-100mm T2.9	cf 2' 7"	8.4 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	80fps
Canon C700 S35	28.90mm x 15.20mm (32.60mm Ø)	4096 x 2160 Pixels	

Full Frame 46.31 mm Ø= Requires 1.4x Magnification

Angenieux Ultra 12x U35 26 - 320mm T3.1	cf 5'	28.1lbs	162mm
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 (Crops at 15mm. Clears at 15.5mm.)	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 28-100mm T2.9	cf 2' 7"	8.4 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
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

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

Full Frame 46.31 mm Ø= Requires 1.51x Magnification

Angenieux Ultra 12x S35 24 - 290mm T2.8	cf 5'	28.1lbs	162mm
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 28-100mm T2.9	cf 2' 7"	8.4 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	(starts to crops at cf 14") cf 8"		114mm

Red Monstro 5KHD	24.00mm x 13.50mm (27.54mm Ø)	4800 x 2700 Pixels	96fps
Venice S35 4K 17:9	24.30mm x 12.80mm (27.46mm Ø)	4096 x 2160 Pixels	
Arri Alexa/ Mini HD 16:9	23.76mm x 13.37mm (27.26mm Ø)	1920 x 1080 Pixels	
Sony FX9 S35 4K 17:9	24.00mm x 12.70mm (27.15 mm Ø)	3840 x 2160 Pixels	

Full Frame 46.31 mm Ø= Requires 1.6x Magnification

Angenieux Ultra 12x S35 24 - 290mm T2.8	cf 5'	28.1lbs	162mm
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
Angenieux HR 25-250mm T3.5	cf 5' 7"	9.5 lbs	136mm
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
Cooke 18-100mm T3	cf 2' 4"	13.5 lbs	150mm
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 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

