

## Which Zoom Lens Cover Which Sensor Size?

Updated 1/29/2020

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

<b>Red Monstro 7.5K</b>	<b>38.40mm x 20.40mm ( 43.50 mm Ø )</b>	<b>7680 x 4080 Pixels</b>	<b>64fps</b>
<b>Sony Venice 6K 3:2</b>	<b>36.20mm x 24.10mm ( 43.50 mm Ø )</b>	<b>6048 x 4032 Pixels</b>	
<b>Canon C700 FF 17:9</b>	<b>38.10mm x 20.10mm ( 43.10 mm Ø )</b>	<b>5592 x 3140 Pixels</b>	

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

<b>Arri LF/ Mini LF Open Gate 16:9</b>	<b>36.70mm x 20.62mm ( 42.10 mm Ø )</b>	<b>4448 x 2502 Pixels</b>
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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

<b>Red Monstro 7.5KHD</b>	<b>36.48mm x 20.52mm ( 41.86 mm Ø )</b>	<b>7296 x 4104 Pixels</b>
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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

<b>Red Monstro 7K</b>	<b>35.80mm x 18.90mm ( 40.50 mm Ø )</b>	<b>7168 x 3780 Pixels</b>	<b>68fps</b>
<b>Sony Venice FF 6K 17:9</b>	<b>35.90mm x 19.00mm ( 40.57 mm Ø )</b>	<b>6048 x 3190 Pixels</b>	<b>30fps</b>
<b>Sony FX9 FF 6K 17:9</b>	<b>35.70mm x 18.80mm ( 40.35 mm Ø )</b>	<b>6008 x 3168 Pixels</b>	<b>30fps</b>

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

<b>Sony Venice 5.7K 16:9</b>	<b>33.7 mm x 18.9 mm ( 38.64 mm Ø )</b>	<b>5670 x 3190 Pixels</b>	<b>30fps</b>
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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

<b>Arri LF/ Mini LF 16:9</b>	<b>31.68mm x 17.82mm ( 36.35mm Ø )</b>	<b>3840 x 2160 Pixels</b>
<b>Red Gemini 5K 1.7:1</b>	<b>30.72mm x 18.00mm ( 35.61mm Ø )</b>	<b>5120 x 3000 Pixels</b>

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

<b>Red Monstro 6K</b>	<b>30.70mm x 16.20mm ( 34.70mm Ø )</b>	<b>6144 x 3240 Pixels</b>	<b>80fps</b>
<b>Red Dragon 6K</b>	<b>30.70mm x 15.80mm ( 34.50mm Ø )</b>	<b>6144 x 3160 Pixels</b>	
<b>Red Helium 8K</b>	<b>29.90mm x 15.77mm ( 33.80mm Ø )</b>	<b>8192 x 4320 Pixels</b>	
<b>Arri Mini Open Gate</b>	<b>28.17mm x 18.13mm ( 33.50mm Ø )</b>	<b>3414 x 2198 Pixels</b>	

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

<b>Red Monstro 6KHD</b>	<b>28.80mm x 16.20mm ( 33.00mm Ø )</b>	<b>5760 x 3240 Pixels</b>	<b>80fps</b>
<b>Canon C700 S35</b>	<b>28.90mm x 15.20mm ( 32.60mm Ø )</b>	<b>4096 x 2160 Pixels</b>	

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

<b>Red Komodo 6K</b>	<b>27.03mm x 14.25mm ( 30.55mm Ø )</b>	<b>6144 x 3240 Pixels</b>
<b>Arri Mini 4K UHD</b>	<b>26.40mm x 14.85mm ( 29.99mm Ø )</b>	<b>3840 x 2160 Pixels</b>
<b>Phantom Flex 4K UHD</b>	<b>25.90mm x 14.60mm ( 29.70mm Ø )</b>	<b>3840 x 2160 Pixels</b>

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

<b>Red Monstro 5KHD</b>	<b>24.00mm x 13.50mm ( 27.54mm Ø )</b>	<b>4800 x 2700 Pixels</b>	<b>96fps</b>
<b>Venice S35 4K 17:9</b>	<b>24.30mm x 12.80mm ( 27.46mm Ø )</b>	<b>4096 x 2160 Pixels</b>	
<b>Arri Alexa/ Mini HD 16:9</b>	<b>23.76mm x 13.37mm ( 27.26mm Ø )</b>	<b>1920 x 1080 Pixels</b>	
<b>Sony FX9 S35 4K 17:9</b>	<b>24.00mm x 12.70mm ( 27.15 mm Ø )</b>	<b>3840 x 2160 Pixels</b>	<b>60fps</b>
<b>Black Magic BPMCC 6K</b>	<b>23.10mm x 12.99mm ( 26.50 mm Ø )</b>	<b>6144 x 3456 Pixels</b>	

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



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