

Canon 7D Mark II Field Angles

Input DSLR Sensor Horizontal : 22.4 mm

Input DSLR Sensor Vertical : 15.0 mm

DSLR Horz/Vert Ratio = 1.493

DSLR Diagonal = 27.0 mm

35 mm Film Diagonal (36 x 24 mm) = 43.3 mm

35 mm/DSLR Diagonal Ratio = 1.605

Note: Yellow cells are not locked. To remove protection, click "Review" then click "Unprotect Sheet." No password has been set.

• = EF-S type (for APS-C sensor, won't fit or not functional for full-frame)

40D = 22.2 x 14.8 mm 1.486 5.71 um 3888 x 2592 60Da = 22.3 x 14.9 mm, 5184 x 3456, 4.30 um

7D Mk II = 22.4 x 15.0 mm 1.493 4.09 um 5472 x 3648

6D = 35.8 x 23.9 mm 1.498 6.55 um 5472 x 3648

Small Angle Approximation

Lens FL (mm)	Horizontal FOV	Vertical FOV	Diagonal FOV	Lenses	H to V Angular Ratio	Angular Ratio vs. Sensor Ratio	Small Angle Approximation			Delta Diag Sm - Trig
							Horz	Vert	Diag	
15	73.5°	53.1°	83.9°	1. Irix 15 mm f/2.4 Firefly	1.383	0.926	85.6°	57.3°	103.0°	19.09°
20	58.5°	41.1°	68.0°	2. Sigma 20 mm f/1.4 DG HSM Art series	1.423	0.953	64.2°	43.0°	77.2°	9.27°
24	50.0°	34.7°	58.6°	• 3. Canon 24 mm f/2.8 STM pancake EF-S	1.442	0.965	53.5°	35.8°	64.4°	5.72°
30	40.9°	28.1°	48.4°	• 4. Sigma 30 mm f/1.4 DC HSM EX	1.459	0.977	42.8°	28.6°	51.5°	3.10°
40	31.3°	21.2°	37.2°	• 5. Canon 40 mm f/2.8 STM pancake	1.473	0.986	32.1°	21.5°	38.6°	1.37°
45	28.0°	18.9°	33.3°	6. Tamron 45 mm f/1.8	1.477	0.989	28.5°	19.1°	34.3°	0.97°
12	86.1°	64.0°	96.6°	• 7. Tokina 12-28 mm f/4 (EF-S type)	1.344	0.900	107°	71.6°	129°	32.1°
16	70.0°	50.2°	80.2°	•	1.393	0.933	80.2°	53.7°	96.5°	16.31°
20	58.5°	41.1°	68.0°	•	1.423	0.953	64.2°	43.0°	77.2°	9.27°
24	50.0°	34.7°	58.6°	•	1.442	0.965	53.5°	35.8°	64.4°	5.72°
28	43.6°	30.0°	51.4°	•	1.454	0.974	45.8°	30.7°	55.2°	3.75°
18	63.8°	45.2°	73.7°	• 8. Sigma 18-50 mm f/2.8 (EF-S type)	1.410	0.944	71.3°	47.7°	85.8°	12.16°
24	50.0°	34.7°	58.6°	•	1.442	0.965	53.5°	35.8°	64.4°	5.72°
28	43.6°	30.0°	51.4°	•	1.454	0.974	45.8°	30.7°	55.2°	3.75°
35	35.5°	24.2°	42.1°	•	1.467	0.982	36.7°	24.6°	44.1°	2.01°
50	25.3°	17.1°	30.2°	•	1.480	0.991	25.7°	17.2°	30.9°	0.72°
24	50.0°	34.7°	58.6°	9. Canon 24-105 mm f/4L IS zoom	1.442	0.965	53.5°	35.8°	64.4°	5.72°
35	35.5°	24.2°	42.1°		1.467	0.982	36.7°	24.6°	44.1°	2.01°
50	25.3°	17.1°	30.2°	17. Sigma 20 mm f/1.4 DG HSM Art	1.480	0.991	25.7°	17.2°	30.9°	0.72°
70	18.2°	12.2°	21.8°		1.486	0.995	18.3°	12.3°	22.1°	0.27°
105	12.2°	8.17°	14.6°		1.490	0.998	12.2°	8.2°	14.7°	0.08°
85	15.0°	10.1°	18.0°	10. Yongnou 85 mm f/1.8	1.489	0.997	15.1°	10.1°	18.2°	0.15°
70	18.2°	12.2°	21.8°	11. Canon 70-200 mm f/2.8L zoom	1.486	0.995	18.3°	12.3°	22.1°	0.27°
100	12.8°	8.58°	15.4°	12. Canon 100 mm f/2.8L IS macro	1.490	0.998	12.8°	8.6°	15.4°	0.09°
135	9.49°	6.36°	11.4°		1.491	0.999	9.51°	6.37°	11.4°	0.04°
200	6.41°	4.30°	7.71°	13. Canon 200 mm f/2.8L II USM	1.492	0.999	6.42°	4.30°	7.72°	0.01°
300	4.28°	2.86°	5.15°	14. Sigma 70-300 mm f/4-5.6 apo zoom	1.493	1.000	4.28°	2.86°	5.15°	0.00°
400	3.21°	2.15°	3.86°	15. Canon 400 mm f/5.6L telephoto	1.493	1.000	3.21°	2.15°	3.86°	0.00°
910	1.41°	0.94°	1.70°	Stellavue 130 mm, f/7 apo refractor	1.493	1.000	1.41°	0.94°	1.70°	0.00°
150	8.54°	5.72°	10.27°	16. Tamron 150-600 mm f/5-6.3 zoom	1.492	0.999	8.56°	5.73°	10.30°	0.028°
200	6.41°	4.30°	7.71°		1.492	0.999	6.42°	4.30°	7.72°	0.012°
250	5.13°	3.44°	6.17°		1.493	1.000	5.13°	3.44°	6.18°	0.006°
300	4.28°	2.86°	5.15°		1.493	1.000	4.28°	2.86°	5.15°	0.003°
350	3.67°	2.46°	4.41°		1.493	1.000	3.67°	2.46°	4.41°	0.002°
400	3.21°	2.15°	3.86°		1.493	1.000	3.21°	2.15°	3.86°	0.001°
450	2.85°	1.91°	3.43°		1.493	1.000	2.85°	1.91°	3.43°	0.001°
500	2.57°	1.72°	3.09°		1.493	1.000	2.57°	1.72°	3.09°	0.001°
550	2.33°	1.56°	2.81°		1.493	1.000	2.33°	1.56°	2.81°	0.001°
600	2.14°	1.43°	2.57°		1.493	1.000	2.14°	1.43°	2.57°	0.000°