

Field of View and Panorama tables (Canon EOS 350D)

Description

These tables are intended to be used in conjunction with a panoramic head for panoramic photography. They tell you the fields of view for various focal-length lenses, and how far you should turn your pano head between shots in order to achieve the desired frame overlap.

This set of tables is calculated based on the 14.8mm × 22.2mm sensor of the Canon EOS 350D. The figures should be accurate to within a percent or two for other Canon APS-C DSLRs.

This document contains the same table in two sizes - full size below and a pocket size version over the page.

Instructions

Select your chosen focal length in the left-hand column. Look across the row for the approximate frame overlap desired (generally between 10% and 40%). Then read the required rotational increment off from the top of the column.

Example: suppose you're using the camera in the portrait position to shoot a horizontal panorama. This means you're interested in the vertical field of view (VFOV) so you need to look at the upper half of the table.

Imagine you've selected a focal length of 35mm. Read across the 35mm row for a reasonable frame overlap - say 25%. From the top of the column you can see that you will need to rotate the camera 18° between shots, and you'll need to shoot 20 frames to make a complete 360° panorama.

Field of View and Panorama tables (Canon EOS 350D)

Frame overlap vs. incremental angle per frame														
Incremental angle per frame		3°	4°	6°	8°	10°	12°	15°	18°	20°	24°	30°	36°	45°
Frames per 360°		120	90	60	45	36	30	24	20	18	15	12	10	8
Vertical Field of View														
Focal length	VFOV													
18 mm	44.7°	93%	91%	87%	82%	78%	73%	66%	60%	55%	46%	33%	19%	11%
24 mm	34.3°	91%	88%	82%	77%	71%	65%	56%	47%	42%	30%	12%		
35 mm	23.9°	87%	83%	75%	66%	58%	50%	37%	25%	16%				
50 mm	16.8°	82%	76%	64%	52%	41%	29%	11%						
70 mm	12.1°	75%	67%	50%	34%	17%	1%							
100 mm	8.5°	65%	53%	29%	5%									
135 mm	6.3°	52%	36%	4%										
200 mm	4.2°	29%	6%											
Horizontal Field of View														
Focal length	HFOV													
18 mm	63.3°	95%	94%	91%	87%	84%	81%	76%	72%	68%	62%	53%	43%	37%
24 mm	49.6°	94%	92%	88%	84%	80%	76%	70%	64%	60%	52%	40%	27%	19%
35 mm	35.2°	91%	89%	83%	77%	72%	66%	57%	49%	43%	32%	15%		
50 mm	25.0°	88%	84%	76%	68%	60%	52%	40%	28%	20%	4%			
70 mm	18.0°	83%	78%	67%	56%	45%	33%	17%	0%					
100 mm	12.7°	76%	68%	53%	37%	21%	5%							
135 mm	9.4°	68%	57%	36%	15%									
200 mm	6.4°	53%	37%	6%										

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