

Compix Model 320 Lens Performance Data

12/22/2009

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	Inches				cm			
	DISTANCE to subject	Field of View		Pixel size	DISTANCE to subject	Field of View		Pixel size
		Horz	Vert			Horz	Vert	
Compix 320								
6 Deg HFOV Lens	72	7.5	5.7	0.0236	182.9	19.2	14.4	0.060
4.5 Deg VFOV	120	12.6	9.4	0.0393	304.8	31.9	24.0	0.100
320 Vertical pixels	240	25.2	18.9	0.0786	609.6	63.9	47.9	0.200
240 Horizontal pixels	480	50.3	37.7	0.1572	1219.2	127.8	95.8	0.399

	Inches				cm			
	DISTANCE to subject	Field of View		Pixel size	DISTANCE to subject	Field of View		Pixel size
		Horz	Vert			Horz	Vert	
Compix 320								
12 Deg HFOV Lens	60	12.6	9.5	0.0394	152.4	32.0	24.0	0.100
9 Deg VFOV	72	15.1	11.4	0.0473	182.9	38.4	28.8	0.120
320 Vertical pixels	120	25.2	18.9	0.0788	304.8	64.1	48.1	0.200
240 Horizontal pixels	240	50.5	37.8	0.1577	609.6	128.1	96.1	0.400
	480	100.9	75.7	0.3153	1219.2	256.3	192.2	0.801

	Inches				cm			
	DISTANCE to subject	Field of View		Pixel size	DISTANCE to subject	Field of View		Pixel size
		Horz	Vert			Horz	Vert	
Compix 320								
25 Deg HFOV Lens	1.5	0.7	0.5	0.0021	3.8	1.7	1.3	0.005
19 Deg VFOV	2	0.9	0.7	0.0028	5.1	2.3	1.7	0.007
320 Vertical pixels	6	2.7	2.0	0.0083	15.2	6.8	5.1	0.021
240 Horizontal pixels	10	4.43	3.3	0.0139	25.4	11.3	8.4	0.035
Std Config Minimum:	12	5.32	4.0	0.0166	30.5	13.5	10.1	0.042
	20	8.9	6.7	0.0277	50.8	22.5	16.9	0.070
	24	10.6	8.0	0.0333	61.0	27.0	20.3	0.084
	72	31.9	23.9	0.0998	182.9	81.1	60.8	0.253

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	Inches				cm			
	DISTANCE to subject	Field of View		Pixel size	DISTANCE to subject	Field of View		Pixel size
		Horz	Vert			Horz	Vert	
Compix 320								
50 Deg HFOV Lens	1.5	1.4	1.0	0.0044	3.8	3.6	2.7	0.011
38 Deg VFOV	2	1.9	1.4	0.0058	5.1	4.7	3.6	0.015
320 Vertical pixels	6	5.6	4.2	0.0175	15.2	14.2	10.7	0.044
240 Horizontal pixels	10	9.3	7.0	0.0291	25.4	23.7	17.8	0.074
	20	18.7	14.0	0.0583	50.8	47.4	35.5	0.148
	24	22.4	16.8	0.0699	61.0	56.9	42.6	0.178
	72	67.1	50.4	0.2098	182.9	170.6	127.9	0.533

MAGNIFICATION LENSES

	Inches				cm			
	DISTANCE to subject	Field of View		Pixel size	DISTANCE to subject	Field of View		Pixel size
		Horz	Vert			Horz	Vert	
Compix 320								
	Standard 25 Deg Lens with single extender							
320 Vertical pixels	0.63	0.36	0.3	0.0011	1.6	0.9	0.7	0.003
240 Horizontal pixels								
Compix 320								
	Magnification Lenses, 320 x 240 pixels							
L37	0.98	0.47	0.35	0.00147	2.5	1.2	0.9	0.0037
L22	0.27	0.28	0.21	0.00088	0.7	0.7	0.5	0.0022
L06	0.59	0.08	0.06	0.00024	1.5	0.2	0.1	0.0006