

Andrea's COMPACT CAMERA COMPARISON

Description	Mega Pixels	Sensor Size Pixels	Receptor Area, Index%	Lens	Aperture / Shutter Priority	Shutter	LCD Size Pixels	Dimensions (mm)	Mass (g)	Storage	Battery	Movies	Flash Guide No.	Focus From – 8 / Macro
Canon PowerShot S100 IXUS	1.9	1/2.7" 2.1	10.32 100%	35 – 70mm f2.8 – f4.0	No / No	1 – 1/1500	1.5"	87 x 57 x 27	250	CF	NB–1L ??	No		
Canon PowerShot S500 IXUS 500	5.0	1/1.8" 5.2	7.34 71%	36 – 108mm f2.8 – f4.9	No / No	15 – 1/2000	1.5" 118,000	87 x 57 x 28	215	CF	NB–1LH	640 x 480, 30s, 320 x 240, 3min limit, audio	3.5m 5m	?? / 5cm
Canon PowerShot S410 IXUS 430	3.9	1/1.8" 4.1	9.31 90%	36 – 108mm f2.8 – f4.9	No / No	15 – 1/2000	1.5" 118,000	87 x 57 x 28	215	CF	NB–1LH	320 x 240, 15 fps, 3min limit	3.5m 5m	?? / 5cm
Canon PowerShot SD300 IXUS 40	3.9	1/2.5" 4.1	6.03 58%	35 – 105mm f2.8 – f4.9	No / No	15 – 1/1500	2.0" 118,000	86 x 54 x 21	147	SD	NB–4L	640 x 480, 30 fps, 320 x 240, no limit, audio	3.5m 5m	?? / 3cm
hp PhotoSmart R607	4.1	1/2.5" 4.2	5.88 57%	35 – 105mm f2.6 – f4.8 / f8.0	Yes / No	16 – 1/2000	1.5" 120,000	90 x 59 x 28	157	32MB + SD		288 x 216		50cm / 6cm
hp PhotoSmart R507	4.1	1/2.5" 4.2	5.88 57%	35 – 105mm f2.6 – f4.8 / f8.0	No / No	16 – 1/2000	1.5" 120,000	90 x 59 x 28	157	SD		yes	2.7m 7m	50cm / 14cm
Pentax Optio S4i	4.0	1/2.5" 4.23	5.84 57%	35 – 105mm f2.6 – f4.8 / ??	No / No	4 – 1/2000	1.8" 85,000	84 x 52 x 21	120g	10MB + SD		320 x 240, 15 fps, no limit, audio	??	40cm / 6cm
Pentax Optio S40	4.0	1/2.5" 4.23	5.84 57%	35 – 105mm f2.6 – f4.8 / ??	No / No	4 – 1/2000	1.6" 85,000	89 x 59 x 26	175g	11MB + SD	2 x AA	320 x 240, 30 fps, no limit	3.5m 5m	40cm / 6cm
Sony Cybershot DSC-W1	5.0	1/1.8" 5.2	7.48 73%	38 – 114mm f2.8, f5.6 w / f5.2, f10 t	No / No	30 – 1/1000	2.5" 123,000	91 x 60 x 31	210g 248g?	Memory Stick	2 x AA	640 x 480, 30/16/8fps, no limit, audio	3.8m 8m	50cm / 6cm
Panasonic Lumix DMC-FX7	4.9	1/2.5" 5.4	4.58 44%	35 – 105mm f2.8 – f5.6	No / No	8 – 1/2000	2.5" 114,000	94 x 50 x 24	153	SD		320 x 240, 30fps, no limit, audio	4m	50cm / 5cm
Panasonic Lumix DMC-LX1	8.4	1/1.65" 8.61 16:9 aspect	3.87 37%	28 – 112mm f2.8 – f4.9	Yes / Yes	8 – 1/2000	2.5" 207,000	106 x 56 x 26 +lens base 17	220	SD		640 x 480, 30fps, no limit, audio	4m	50cm / 5cm
Pentax *ist D	6.1	23.5x15.7 6.3 3:2 aspect	58.56 567%	27 – 187.5mm f3.5 – f5.6	Yes / Yes	30 – 1/4000	1.8" 118,000	129 x 95 x 60	650	CF	4 x AA	No	15.6 ISO200 /m	50cm / n/a

Sensor Sizes

Type	Aspect Ratio	Diameter (mm)	Image producing area's dimensions (mm)			(mm ²)	
			Diagonal	Width	Height		
		Tube size				Area	
1/3.6"	4:3	7.056	5.000	4.000	3.000	12.00	
1/3.2"	4:3	7.938	5.680	4.536	3.416	15.49	
1/3"	4:3	8.467	6.000	4.800	3.600	17.28	
1/2.7"	4:3	9.407	6.721	5.371	4.035	21.67	
1/2.5"	4:3	10.160	7.182	5.760	4.290	24.71	
1/2"	4:3	12.700	8.000	6.400	4.800	30.72	
1/1.8"	4:3	14.111	8.933	7.176	5.319	38.17	
1/1.7"	4:3	14.941	9.500	7.600	5.700	43.32	DMC-LX1 uses 16:9, so area x 0.75
2/3"	4:3	16.933	11.000	8.800	6.600	58.08	
1"	4:3	25.400	16.000	12.800	9.600	122.88	
4/3"	4:3	33.867	22.500	18.000	13.500	243.00	
APS	3:2	n/a	28.4	23.7	15.7	372.09	D-SLR
35 mm film	3:2	n/a	43.3	36.0	24.0	864.00	

From: http://www.dpreview.com/learn/?/key=Sensor_Sizes

See also: "Size Matters" on photo.net
 at: <http://www.photo.net/equipment/digital/sensorsize/>