

GT Vision

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Surveyor Rapid Scanning System**Image Size Reckoner**

CAMERA :		PAL		Pixel Output :		768	x	576															
		Approx		Frame	Frame																		
LENS	C" MOUNT	μ /pixel	Area μ²	Area mm²	Frames (Fields) For Area in mm²						Data Storage Needed - In Mbytes (Assuming 24 bit)												
					1	5	10	100	1000	10000	50000	1	5	10	100	1000	10000	50000					
5x	1.00	1.60	1132462	1.1325	0.88	4	9	88	883	8830	44152	1	6	12	117	1172	11719	58594					
	0.63	2.54	2853268	2.8533	0.35	2	4	35	350	3505	17524	1	2	5	47	465	4651	23256					
	0.50	3.20	4529848	4.5298	0.22	1	2	22	221	2208	11038	1	1	3	29	293	2930	14648					
	0.35	4.57	9244588	9.2446	0.11	1	1	11	108	1082	5409	1	1	1	14	144	1436	7178					
10x	1.00	0.80	283116	0.2831	3.53	18	35	353	3532	35321	176606	5	23	47	469	4688	46875	234375					
	0.63	1.27	713317	0.7133	1.40	7	14	140	1402	14019	70095	2	9	19	186	1860	18605	93023					
	0.50	1.60	1132462	1.1325	0.88	4	9	88	883	8830	44152	1	6	12	117	1172	11719	58594					
	0.35	2.29	2311147	2.3111	0.43	2	4	43	433	4327	21634	1	3	6	57	574	5742	28711					
20x	1.00	0.40	70779	0.0708	14.13	71	141	1413	14129	141285	706425	19	94	188	1875	18750	187500	937500					
	0.63	0.63	178329	0.1783	5.61	28	56	561	5608	56076	280380	7	37	74	744	7442	74419	372094					
	0.50	0.80	283116	0.2831	3.53	18	35	353	3532	35321	176606	5	23	47	469	4688	46875	234375					
	0.35	1.14	577787	0.5778	1.73	9	17	173	1731	17307	86537	2	11	23	230	2297	22969	114844					
40x	1.00	0.20	17695	0.0177	56.51	283	565	5651	56514	565140	2825702	75	375	750	7500	75000	750000	3750000					
	0.63	0.32	44582	0.0446	22.43	112	224	2243	22430	224304	1121521	30	149	298	2977	29768	297675	1488375					
	0.50	0.40	70779	0.0708	14.13	71	141	1413	14129	141285	706425	19	94	188	1875	18750	187500	937500					
	0.35	0.57	144447	0.1444	6.92	35	69	692	6923	69230	346148	9	46	92	919	9188	91875	459375					
60x	1.00	0.13	7476	0.0075	133.76	669	1338	13376	133761	1337610	6688051	178	888	1775	17751	177515	1775148	8875740					
	0.63	0.21	18836	0.0188	53.09	265	531	5309	53090	530898	2654488	70	352	705	7046	70456	704556	3522781					
	0.50	0.26	29904	0.0299	33.44	167	334	3344	33440	334403	1672013	44	222	444	4438	44379	443787	2218935					
	0.35	0.37	61029	0.0610	16.39	82	164	1639	16386	163857	819286	22	109	217	2175	21746	217456	1087278					
100x	1.00	0.08	2831	0.0028	353.21	1766	3532	35321	353213	3532127	17660635	469	2344	4688	46875	468750	4687500	23437500					
	0.63	0.13	7133	0.0071	140.19	701	1402	14019	140190	1401901	7009506	186	930	1860	18605	186047	1860469	9302344					
	0.50	0.16	11325	0.0113	88.30	442	883	8830	88303	883032	4415159	117	586	1172	11719	117188	1171875	5859375					
	0.35	0.23	23111	0.0231	43.27	216	433	4327	43269	432686	2163428	57	287	574	5742	57422	574219	2871094					
NOTE : All calculations assume same sized ccd chip																							