

GT Vision

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Surveyor Rapid Scanning System**Image Size Reckoner**

CAMERA :		NTSC		Pixel Output :		640	x	480										
LENS	"C" MOUNT	Approx μ /pixel	Frame Area μ^2	Frame Area mm 2	Frames (Fields) For Area in mm 2							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	1.92	1132462	1.1325	0.88	4	9	88	883	8830	44152	1	4	8	81	814	8138	40690
	0.63	3.05	2853268	2.8533	0.35	2	4	35	350	3505	17524	1	2	3	32	323	3230	16150
	0.50	3.84	4529848	4.5298	0.22	1	2	22	221	2208	11038	1	1	2	20	203	2035	10173
	0.35	5.49	9244588	9.2446	0.11	1	1	11	108	1082	5409	1	1	1	10	100	997	4985
10x	1.00	0.96	283116	0.2831	3.53	18	35	353	3532	35321	176606	3	16	33	326	3255	32552	162760
	0.63	1.52	713317	0.7133	1.40	7	14	140	1402	14019	70095	1	6	13	129	1292	12920	64600
	0.50	1.92	1132462	1.1325	0.88	4	9	88	883	8830	44152	1	4	8	81	814	8138	40690
	0.35	2.74	2311147	2.3111	0.43	2	4	43	433	4327	21634	1	2	4	40	399	3988	19938
20x	1.00	0.48	70779	0.0708	14.13	71	141	1413	14129	141285	706425	13	65	130	1302	13021	130208	651042
	0.63	0.76	178329	0.1783	5.61	28	56	561	5608	56076	280380	5	26	52	517	5168	51680	258398
	0.50	0.96	283116	0.2831	3.53	18	35	353	3532	35321	176606	3	16	33	326	3255	32552	162760
	0.35	1.37	577787	0.5778	1.73	9	17	173	1731	17307	86537	2	8	16	160	1595	15951	79753
40x	1.00	0.24	17695	0.0177	56.51	283	565	5651	56514	565140	2825702	52	260	521	5208	52083	520833	2604167
	0.63	0.38	44582	0.0446	22.43	112	224	2243	22430	224304	1121521	21	103	207	2067	20672	206719	1033594
	0.50	0.48	70779	0.0708	14.13	71	141	1413	14129	141285	706425	13	65	130	1302	13021	130208	651042
	0.35	0.69	144447	0.1444	6.92	35	69	692	6923	69230	346148	6	32	64	638	6380	63802	319010
60x	1.00	0.16	7476	0.0075	133.76	669	1338	13376	133761	1337610	6688051	123	616	1233	12327	123274	1232742	6163708
	0.63	0.25	18836	0.0188	53.09	265	531	5309	53090	530898	2654488	49	245	489	4893	48928	489275	2446376
	0.50	0.31	29904	0.0299	33.44	167	334	3344	33440	334403	1672013	31	154	308	3082	30819	308185	1540927
	0.35	0.45	61029	0.0610	16.39	82	164	1639	16386	163857	819286	15	76	151	1510	15101	151011	755054
100x	1.00	0.10	2831	0.0028	353.21	1766	3532	35321	353213	3532127	17660635	326	1628	3255	32552	325521	3255208	16276042
	0.63	0.15	7133	0.0071	140.19	701	1402	14019	140190	1401901	7009506	129	646	1292	12920	129199	1291992	6459961
	0.50	0.19	11325	0.0113	88.30	442	883	8830	88303	883032	4415159	81	407	814	8138	81380	813802	4069010
	0.35	0.27	23111	0.0231	43.27	216	433	4327	43269	432686	2163428	40	199	399	3988	39876	398763	1993815