

TABELA

Związek wartości rozdzielczości [MegaPiksele] i rozmiaru piksela [um] dla matryc kamer



Format Matrycy proporcje 4:3	Przekatna d [mm]	Szerokość W [mm]	Wysokość H [mm]	Powierzchnia Sensora S [mm ²]	Rozdzielczość [MP] (MP=powierzchnia matrycy / powierzchnia piksela)											
					rozmiar piksela [um]											
					1.55	1.95	2.00	2.2	2.4	2.5	2.75	3.4	3.75	4	5	6.9
1/13"	1.420	1.134	0.854	0.968	0.4	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.04	0.02
1/10"	1.600	1.280	0.960	1.230	0.5	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.05	0.03
1/8"	2.000	1.600	1.200	1.920	0.8	0.5	0.5	0.4	0.3	0.3	0.3	0.2	0.1	0.1	0.08	0.04
1/6"	3.000	2.400	1.800	4.320	1.8	1.1	1.1	0.9	0.8	0.7	0.6	0.4	0.3	0.3	0.17	0.09
1/4"	4.000	3.200	2.400	7.680	3.2	2.0	1.9	1.6	1.3	1.2	1.0	0.7	0.5	0.5	0.31	0.16
1/3,6"	5.000	4.000	3.000	12.000	5.0	3.2	3.0	2.5	2.1	1.9	1.6	1.0	0.9	0.8	0.48	0.25
1/3,2"	5.680	4.540	3.420	15.500	6.5	4.1	3.9	3.2	2.7	2.5	2.0	1.3	1.1	1.0	0.62	0.33
Film 8 mm	5.940	4.800	3.500	16.800	7.0	4.4	4.2	3.5	2.9	2.7	2.2	1.5	1.2	1.1	0.67	0.35
1/3"	6.000	4.800	3.600	17.300	7.2	4.5	4.3	3.6	3.0	2.8	2.3	1.5	1.2	1.1	0.69	0.36
1/2.8" FullHD	6.168	5.376	3.024	16.257	6.8	4.3	4.1	3.4	2.8	2.6	2.1	1.4	1.2	1.0	0.65	0.34
1/2,7"	6.720	5.370	4.040	21.700	9.0	5.7	5.4	4.5	3.8	3.5	2.9	1.9	1.5	1.4	0.9	0.5
Film Super-8 mm	7.040	5.790	4.010	23.220	9.7	6.1	5.8	4.8	4.0	3.7	3.1	2.0	1.7	1.5	0.9	0.5
1/2,5"	7.180	5.760	4.290	24.700	10.3	6.5	6.2	5.1	4.3	4.0	3.3	2.1	1.8	1.5	1.0	0.5
1/2,3"	7.660	6.170	4.550	28.500	11.9	7.5	7.1	5.9	4.9	4.6	3.8	2.5	2.0	1.8	1.1	0.6
1/2"	8.000	6.400	4.800	30.700	12.8	8.1	7.7	6.3	5.3	4.9	4.1	2.7	2.2	1.9	1.2	0.6
1/1,8"	8.930	7.180	5.320	38.200	15.9	10.0	9.6	7.9	6.6	6.1	5.1	3.3	2.7	2.4	1.5	0.8
1/1,7"	9.500	7.600	5.700	43.300	18.0	11.4	10.8	8.9	7.5	6.9	5.7	3.7	3.1	2.7	1.7	0.9
1/1,6"	10.070	8.080	6.010	48.560	20.2	12.8	12.1	10.0	8.4	7.8	6.4	4.2	3.5	3.0	1.9	1.0
2/3"	11.000	8.800	6.600	58.100	24.2	15.3	14.5	12.0	10.1	9.3	7.7	5.0	4.1	3.6	2.3	1.2
Film 16 mm	12.700	10.260	7.490	76.850	32.0	20.2	19.2	15.9	13.3	12.3	10.2	6.6	5.5	4.8	3.1	1.6
1/1,2"	13.330	10.670	8.000	85.330	35.5	22.4	21.3	17.6	14.8	13.7	11.3	7.4	6.1	5.3	3.4	1.8
Film Super-16mm	14.540	12.520	7.410	92.800	38.6	24.4	23.2	19.2	16.1	14.8	12.3	8.0	6.6	5.8	3.7	1.9
1"	16.000	12.800	9.600	123.000	51.2	32.3	30.8	25.4	21.4	19.7	16.3	10.6	8.7	7.7	4.9	2.6
1,1"	17.515	14.130	10.350	146.246	60.9	38.5	36.6	30.2	25.4	23.4	19.3	12.7	10.4	9.1	5.8	3.1
4/3"	21.600	17.300	13.000	225.000	93.7	59.2	56.3	46.5	39.1	36.0	29.8	19.5	16.0	14.1	9.0	4.7
1,5" Canon G1 X Mark II	23.360	18.700	14.000	262.000	109.1	68.9	65.5	54.1	45.5	41.9	34.6	22.7	18.6	16.4	10.5	5.5
APS-C Canon	26.820	22.300	14.900	332.000	138.2	87.3	83.0	68.6	57.6	53.1	43.9	28.7	23.6	20.8	13.3	7.0
APS-C (Nikon DX)	28.400	23.700	15.600	370.000	154.0	97.3	92.5	76.4	64.2	59.2	48.9	32.0	26.3	23.1	14.8	7.8
APS-H Canon	33.500	27.900	18.600	519.000	216.0	136.5	129.8	107.2	90.1	83.0	68.6	44.9	36.9	32.4	20.8	10.9
Standardowy kadr 35mm	43.300	36.000	24.000	864.000	359.6	227.2	216.0	178.5	150.0	138.2	114.2	74.7	61.4	54.0	34.6	18.1

Przykład: Piksele sensora 1/1.8" o rozdzielczości 10MP, mają rozmiar 1.95x1.95 um