

Megapixels and Print Sizes

inches	1	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	x300	1,200	1,500	1,800	2,100	2,400	2,700	3,000	3,300	3,600	3,900	4,200	4,500	4,800	5,100	5,400	5,700	6,000
4	1,200	1,440,000	1,800,000	2,160,000	2,520,000	2,880,000	3,240,000	3,600,000	3,960,000	4,320,000	4,680,000	5,040,000	5,400,000	5,760,000	6,120,000	6,480,000	6,840,000	7,200,000
5	1,500	1,800,000	2,250,000	2,700,000	3,150,000	3,600,000	4,050,000	4,500,000	4,950,000	5,400,000	5,850,000	6,300,000	6,750,000	7,200,000	7,650,000	8,100,000	8,550,000	9,000,000
6	1,800	2,160,000	2,700,000	3,240,000	3,780,000	4,320,000	4,860,000	5,400,000	5,940,000	6,480,000	7,020,000	7,560,000	8,100,000	8,640,000	9,180,000	9,720,000	10,260,000	10,800,000
7	2,100	2,520,000	3,150,000	3,780,000	4,410,000	5,040,000	5,670,000	6,300,000	6,930,000	7,560,000	8,190,000	8,820,000	9,450,000	10,080,000	10,710,000	11,340,000	11,970,000	12,600,000
8	2,400	2,880,000	3,600,000	4,320,000	5,040,000	5,760,000	6,480,000	7,200,000	7,920,000	8,640,000	9,360,000	10,080,000	10,800,000	11,520,000	12,240,000	12,960,000	13,680,000	14,400,000
9	2,700	3,240,000	4,050,000	4,860,000	5,670,000	6,480,000	7,290,000	8,100,000	8,910,000	9,720,000	10,530,000	11,340,000	12,150,000	12,960,000	13,770,000	14,580,000	15,390,000	16,200,000
10	3,000	3,600,000	4,500,000	5,400,000	6,300,000	7,200,000	8,100,000	9,000,000	9,900,000	10,800,000	11,700,000	12,600,000	13,500,000	14,400,000	15,300,000	16,200,000	17,100,000	18,000,000
11	3,300	3,960,000	4,950,000	5,940,000	6,930,000	7,920,000	8,910,000	9,900,000	10,890,000	11,880,000	12,870,000	13,860,000	14,850,000	15,840,000	16,830,000	17,820,000	18,810,000	19,800,000
12	3,600	4,320,000	5,400,000	6,480,000	7,560,000	8,640,000	9,720,000	10,800,000	11,880,000	12,960,000	14,040,000	15,120,000	16,200,000	17,280,000	18,360,000	19,440,000	20,520,000	21,600,000
13	3,900	4,680,000	5,850,000	7,020,000	8,190,000	9,360,000	10,530,000	11,700,000	12,870,000	14,040,000	15,210,000	16,380,000	17,550,000	18,720,000	19,890,000	21,060,000	22,230,000	23,400,000
14	4,200	5,040,000	6,300,000	7,560,000	8,820,000	10,080,000	11,340,000	12,600,000	13,860,000	15,120,000	16,380,000	17,640,000	18,900,000	20,160,000	21,420,000	22,680,000	23,940,000	25,200,000
15	4,500	5,400,000	6,750,000	8,100,000	9,450,000	10,800,000	12,150,000	13,500,000	14,850,000	16,200,000	17,550,000	18,900,000	20,250,000	21,600,000	22,950,000	24,300,000	25,650,000	27,000,000
16	4,800	5,760,000	7,200,000	8,640,000	10,080,000	11,520,000	12,960,000	14,400,000	15,840,000	17,280,000	18,720,000	20,160,000	21,600,000	23,040,000	24,480,000	25,920,000	27,360,000	28,800,000
17	5,100	6,120,000	7,650,000	9,180,000	10,710,000	12,240,000	13,770,000	15,300,000	16,830,000	18,360,000	19,890,000	21,420,000	22,950,000	24,480,000	26,010,000	27,540,000	29,070,000	30,600,000
18	5,400	6,480,000	8,100,000	9,720,000	11,340,000	12,960,000	14,580,000	16,200,000	17,820,000	19,440,000	21,060,000	22,680,000	24,300,000	25,920,000	27,540,000	29,160,000	30,780,000	32,400,000
19	5,700	6,840,000	8,550,000	10,260,000	11,970,000	13,680,000	15,390,000	17,100,000	18,810,000	20,520,000	22,230,000	23,940,000	25,650,000	27,360,000	29,070,000	30,780,000	32,490,000	34,200,000
20	6,000	7,200,000	9,000,000	10,800,000	12,600,000	14,400,000	16,200,000	18,000,000	19,800,000	21,600,000	23,400,000	25,200,000	27,000,000	28,800,000	30,600,000	32,400,000	34,200,000	36,000,000

This chart presents the results of a simple calculation to determine how many megapixels are needed to print at 300 dpi at a number of sizes (in inches).

$$1,000,000 = 1 \text{ megapixel}$$

For example, the chart shows that a 7-megapixel image could be printed, without resampling, at 300 dpi at sizes such as these:

$$6 \times 13, 7 \times 11, 8 \times 10, \text{ etc}$$

To determine the values for printing at 200 dpi, multiply these results by .44.

For good-quality results, print at about 224 dpi or higher. Acceptable results, depending on one's standards, can be obtained in some print media at lower dpi.