

# OPTICAL AND FIELD MAGNIFICATION TABLE

The optical magnifications achieved with the Colposcope are determined by 3 variables: the objective focal distance, the position of the Magnification Selector, and by the eyepiece used.

The table shows the optical magnification and the observed field diameters, in millimeters, depending on those variables. At the bottom line of the table the illuminated field is shown, corresponding to the light disk incident on the field, with a diameter that depends only on the focus of the work objective.

The magnification selector has 3 positions: 1, 2, and 3. The 2nd position is repeated in the selector. The working position is the one aligned to the black dot mark. optical and field magnification table.

		OBJECTIVE LENS																			
		175				200				250				300				400			
eyepiece	position of button	magnification		field		magnification		field		magnification		field		magnification		field		magnification		field	
		f 135	f170	f 135	f170	f 135	f170	f 135	f170	f 135	f170	f 135	f170	f 135	f170	f 135	f170	f 135	f170	f 135	f170
10x/18mm	1 ( 0.6x )	4.63	5.83	38.89	30.88	4.05	5.10	44.44	35.29	3.24	4.08	55.56	44.12	2.70	3.40	66.67	52.94	2.03	2.55	88.89	70.59
	2 ( 1x )	7.71	9.71	23.33	18.53	6.75	8.50	26.67	21.18	5.40	6.80	33.33	26.47	4.50	5.67	40.00	31.76	3.38	4.25	53.33	42.35
	3 ( 1.6x )	12.86	16.19	14.00	11.12	11.25	14.17	16.00	12.71	9.00	11.33	20.00	15.88	7.50	9.44	24.00	19.06	5.63	7.08	32.00	25.41
12.5x/18	1 ( 0.6x )	5.79	7.29	38.89	30.88	5.06	6.38	44.44	35.29	4.05	5.10	55.56	44.12	3.38	4.25	66.67	52.94	2.53	3.19	88.89	70.59
	2 ( 1x )	9.64	12.14	23.33	18.53	8.44	10.63	26.67	21.18	6.75	8.50	33.33	26.47	5.63	7.08	40.00	31.76	4.22	5.31	53.33	42.35
	3 ( 1.6x )	16.07	20.24	14.00	11.12	14.06	17.71	16.00	12.71	11.25	14.17	20.00	15.88	9.38	11.81	24.00	19.06	7.03	8.85	32.00	25.41
16x/16	1 ( 0.6x )	7.41	9.33	34.57	27.45	6.48	8.16	39.51	31.37	5.18	6.53	49.38	39.22	4.32	5.44	59.26	47.06	3.24	4.08	79.01	62.75
	2 ( 1x )	12.34	15.54	20.74	16.47	10.80	13.60	23.70	18.82	8.64	10.88	29.63	23.53	7.20	9.07	35.56	28.24	5.40	6.80	47.41	37.65
	3 ( 1.6x )	20.57	25.90	12.44	9.88	18.00	22.67	14.22	11.29	14.40	18.13	17.78	14.12	12.00	15.11	21.33	16.94	9.00	11.33	28.44	22.59
20x/12	1 ( 0.6x )	9.26	11.66	25.93	20.59	8.10	10.20	29.63	23.53	6.48	8.16	37.04	29.41	5.40	6.80	44.44	35.29	4.05	5.10	59.26	47.06
	2 ( 1x )	15.43	19.43	15.56	12.35	13.50	17.00	17.78	14.12	10.80	13.60	22.22	17.65	9.00	11.33	26.67	21.18	6.75	8.50	35.56	28.24
	3 ( 1.6x )	25.71	32.38	9.33	7.41	22.50	28.33	10.67	8.47	18.00	22.67	13.33	10.59	15.00	18.89	16.00	12.71	11.25	14.17	21.33	16.94
illuminated field		59				68				85				101				136			