

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 the by 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 6 positions: 1, 2, 3, 4, and 5. The 3 position is repeated in the selector. The working position is the one aligned to the red dot mark.

Magnification Table for 985

Binocular Head Focal Length: F=170mm

Eyepiece	Position of Button	Objective Lenses									
		175		200		250		300		400	
		Magnification	Field	Magnification	Field	Magnification	Field	Magnification	Field	Magnification	Field
10X/18	1(0.4)	3.89	46.32	3.40	52.94	2.72	66.18	2.27	79.41	1.70	105.88
	2(0.6)	5.83	30.88	5.10	35.29	4.08	44.12	3.4	52.94	2.55	70.59
	3(1.0)	9.71	18.53	8.50	21.18	6.80	26.47	5.67	31.76	4.25	42.35
	4(1.6)	15.54	11.58	13.60	13.24	10.88	16.54	9.07	19.85	6.80	26.47
	5(2.5)	24.29	7.41	21.25	8.47	17.00	10.59	14.17	12.71	10.63	16.94
12.5X/16	1(0.4)	4.86	41.18	4.25	47.06	3.40	58.82	2.83	70.59	2.13	94.12
	2(0.6)	7.29	27.45	6.38	31.37	5.10	39.22	4.25	47.06	3.19	62.75
	3(1.0)	12.14	16.47	10.63	18.82	8.50	23.53	7.08	28.24	5.31	37.65
	4(1.6)	19.43	10.29	17.00	11.76	13.60	14.71	11.33	17.65	8.50	23.53
	5(2.5)	30.36	6.59	26.56	7.53	21.25	9.41	17.71	11.29	13.28	15.06
16X/16	1(0.4)	6.22	41.18	5.44	47.06	4.35	58.82	3.63	70.59	2.72	94.12
	2(0.6)	9.33	27.45	8.16	31.37	6.53	39.22	5.44	47.06	4.08	62.75
	3(1.0)	15.54	16.47	13.60	18.82	10.88	23.53	9.07	28.24	6.80	37.65
	4(1.6)	24.87	10.29	21.76	11.76	17.41	14.71	14.51	17.65	10.88	23.53
	5(2.5)	38.86	6.59	34.00	7.53	27.20	9.41	22.67	11.29	17.00	15.06
Illuminated Field		65		72		90		108		144	