

MAGNIFICATION SETTINGS

The 955 and 985 colposcopes offer 5 magnification settings. To set the magnification, simply rotate the magnification selector to the desired position. Setting 1 offers the lowest magnification and widest field of view. As the selector number increases, magnification also increases but field of view decreases. When the colposcope is configured with a 300mm objective lens and straight binocular the magnifications are 2.8x, 4.25x, 7x, 11.3x and 17.7x. The fields of view are 70.6 mm, 47 mm, 28.2 mm, 17.7 mm, and 11.3 mm respectively. See MAGNIFICATION TABLE for other configurations.

COLOR FILTER

A green color filter is available to help highlight vascular patterns and offers tissue contrast viewing options. Use the Push/Pull Knob to select either white or green light

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 955

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