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Aven's Complete Product Line : **Microscopy and Inspection** : **Digital Microscopes** : **Cyclops Digital Microscope**

Cyclops Digital Microscope • Product # 26700-400

Rating: ★★★

Product # : 26700-400

Overview : Cyclops digital microscope with built in HDMI and USB outputs. 15x-270x magnification in HDMI mode on a 21.5" HD monitor and maximum of 534x magnification in USB mode. 4x (included) and 10x (optional) interchangeable objective lenses. 30 LEDs with brightness control provides illumination to meet a variety of application needs. Heavy duty metal stand, remote and cables included. Unit comes standard with 4x objective lens.

Description Features **Specs** Video

Cyclops Digital Microscope	
Image Sensor	1/4" Color CMOS
Effective Pixels	5M
Signal Output	HDMI and USB
Video Format	AVI
Frames Per Second	30fps
Magnification	See Magnification Tables
Gain Control	Automatic
Snap Shot Mode	Hardware & Software controls
White Balance	Manual and Automatic
Power Source	DC 5V/2A input; Cable length 180cm
O/S	Windows 7 & 8

Power Consumption	110mA (AVG)		
LED Lighting	30 White LEDs with brightness & sector control		
Dimensions	106 x 152mm		
Weight	0.70lb | 310g		
Package Contents	Cyclops Digital Microscope 4x Objective lens HDMI cable | USB 2.0 cable Power adaptor | Metal stand White balance card | Calibration scale Software CD | IR remote		

Magnification Tables

Object Lens 4x on 21.5" screen *(this data is only for reference)*								
Sensor Position	1	2	3	4	5	6	7	8
Distance (cm)	21.8	18.1	11.1	8.02	6.37	5.25	4.46	3.91
F,S FOV (mm)	26.2	21.9	13.3	9.52	7.49	6.15	5.18	4.52
C FOV (mm)	19.4	16.2	9.80	7.04	5.54	4.55	3.83	3.34
F Magnification (X)	13	16	27	37	47	58	69	79
S Magnification (X)	17	21	35	49	62	77	91	105
C Magnification (X)	23	28	48	66	84	104	124	142

Sensor Position	9	10	11	12	13	14	15	
Distance (cm)	3.49	3.13	2.85	2.62	2.44	2.26	2.13	
F,S FOV (mm)	3.99	3.56	3.22	2.94	2.71	2.50	2.34	
C FOV (mm)	2.95	2.63	2.38	2.18	2.01	1.85	1.73	
F Magnification (X)	89	100	111	121	132	143	152	
S Magnification (X)	118	133	147	161	175	190	202	
C Magnification (X)	160	180	199	217	237	257	273	

Object Lens 10x on 21.5" screen *(this data is only for reference)*								
Sensor Position	1	2	3	4	5	6	7	8
Distance (mm)	9.85	9.35	9.00	8.65	8.35	8.10	7.88	7.66
F,S FOV (mm)	1.41	1.31	1.22	1.14	1.07	1.01	0.96	0.91
C FOV (mm)	1.04	0.97	0.90	0.84	0.79	0.75	0.71	0.67
F Magnification (X)	253	273	293	313	334	354	372	393
S Magnification (X)	337	363	390	417	445	471	495	523
C Magnification (X)	455	491	527	563	601	637	669	707

Sensor Position	9	10	11	12	13	14	15	
Distance (mm)	7.46	7.28	7.10	6.96	6.84	6.74	6.64	
F,S FOV (mm)	0.87	0.83	0.79	0.76	0.73	0.70	0.67	
C FOV (mm)	0.64	0.61	0.58	0.56	0.54	0.52	0.50	

| F Magnification (X)	411	431	452	470	490	511	534	
S Magnification (X)	547	574	602	626	653	681	711	
C Magnification (X)	739	775	813	846	882	919	961	

Video Ratio

- **4/3F:** Formats the image to fit a 4:3 screen size (1440*1080) by proportionally reducing the input image to fit the screen.
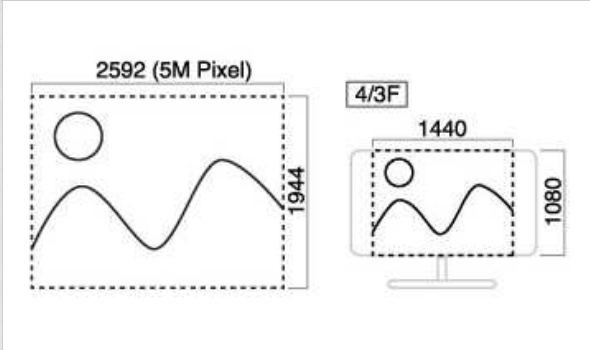
- **16/9S:** Formats the image to fit a 16:9 screen size (1920*1080) by scaling the input image width and trimming the height to fit the screen. The magnification will also increase.
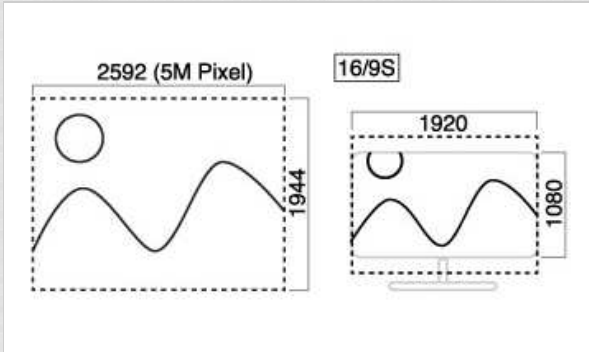
- **16/9C:** Formats the image to fit a 16:9 screen size (1920*1080) by cropping the input image (1920*1080) from input image 5M (2595*1944). The FOV becomes smaller and magnification becomes higher.