



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)

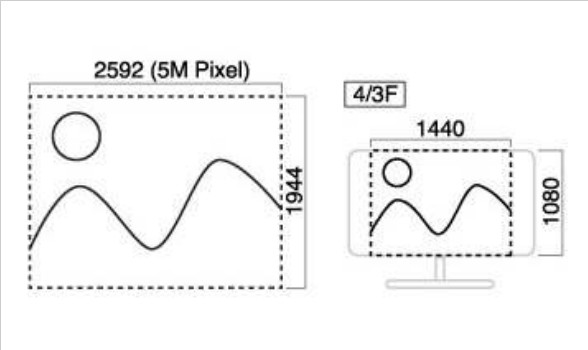
Sensor Position	1	2	3	4	5	6	7	8
Distance (mm)	9.85	9.35	9.00	8.65	8.35	8.10	7.88	7.66
F,S FOV (mm)	1.41	1.31	1.22	1.14	1.07	1.01	0.96	0.91
C FOV (mm)	1.04	0.97	0.90	0.84	0.79	0.75	0.71	0.67
F Magnification (X)	253	273	293	313	334	354	372	393
S Magnification (X)	337	363	390	417	445	471	495	523
C Magnification (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	

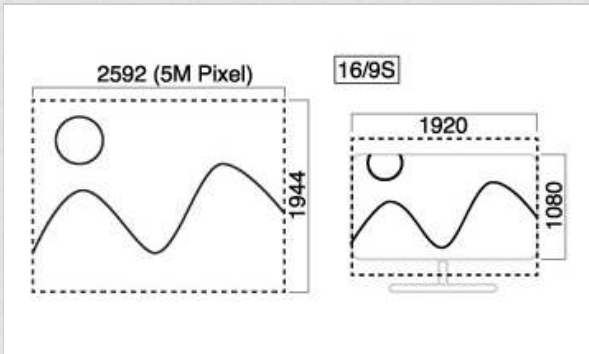
Video Ratio

- o **4/3F:** Formats the image to fit a 4:3 screen size (1440*1080) by proportionally reducing the input image to fit the screen.



- o **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.



- o **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.

