

RaxVision

M Series
Digital Microscope



M-Series

Digital integration, compact structure, functional and applicable

One-piece design

Integrated zoom optical module with high definition camera, M series embodies the beauty of compact. Display, camera and ring lamp with one power supply, avoid the mess of mixed wires.

Compared with traditional optical microscopes, M series with display and built-in camera, is easy to observe and operate, also available for digital magnification and data storage. Avoided the fatigue by long-time observation, users are able to enjoy the comfortable operating experience.



M-7 Series



M-8 Series

M-7P is applied to educational market, with more available features.



Adjustable zoom lens

M-7P with zoom lens 0.7X~5X, magnification 7:1, working with big plan base, focusing range 225mm, is able to inspect large and different samples, working distance 170mm max.

Multiplex signals collection

M-7P with multi-channel signals transmission, support for USB/HDMI output at the same band without interference on each other.

System magnification

Main objective	0.5X						
Optical zoom	0.7X	1X	1.5X	2X	3X	4X	5X
Digital zoom	5.75X	8.21X	12.32X	16.43X	24.64X	32.86X	41.07X
Diagonal line of true field	44.64	31.24	20.82	15.62	10.41	7.81	6.25
Main objective	1X						
Optical zoom	0.7X	1X	1.5X	2X	3X	4X	5X
Digital zoom	11.5X	16.43X	24.64X	32.86X	49.28X	65.71X	82.14X
Diagonal line of true field	22.31	15.62	10.41	7.81	5.21	3.9	3.12
Main objective	1.4X						
Optical zoom	0.7X	1X	1.5X	2X	3X	4X	5X
Digital zoom	16.1X	23X	34.5X	46X	69X	92X	115X
Diagonal line of true field	15.94	11.16	7.44	5.58	3.72	2.79	2.23

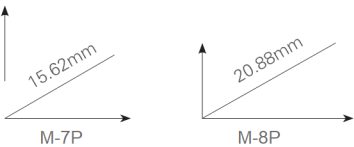


M-8P is applied to industrial market, with better product reliability.



Bigger field of view

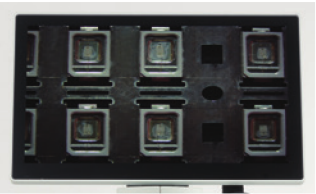
M-8P maximizes the theoretical value of the imaging range of the internal optical system. The true field of M-8P increases 33% of M-7P. See more in bigger field of view.



True field under 1X optical magnification.

More reasonable working distance

The working distance of 0.5X main objective shortens to 110mm, is convenient for hand operation and display view.



High frame digital camera

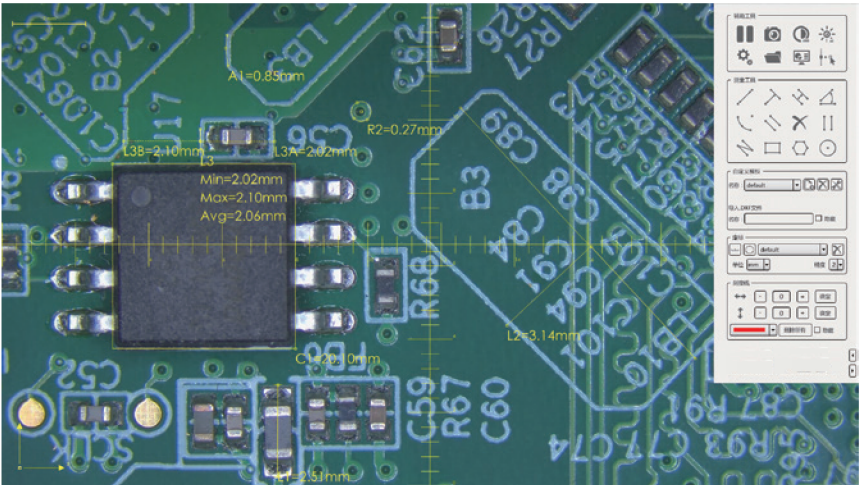
2.0 mega pixels camera with 12 inch HD display (1920X1080, 60fps), low image noise and high contrast ratio, presents smooth and un-delayed imaging under high resolution.

System magnification

Main objective	0.5X						
Optical zoom	0.7X	1X	1.5X	2X	3X	4X	5X
Digital zoom	4.94X	7.06X	10.59X	14.11X	21.17X	28.23X	35.29X
Diagonal line of true field	59.64	41.75	27.83	20.88	13.92	10.44	8.35
Main objective	1X						
Optical zoom	0.7X	1X	1.5X	2X	3X	4X	5X
Digital zoom	9.88X	14.11X	21.17X	28.23X	42.34X	56.46X	70.57X
Diagonal line of true field	29.82	20.88	13.92	10.44	6.96	5.22	4.18

With simple but functional software, M-8P is able to take photo and video, and is also available to be upgraded with measuring system.

Basic measuring function, can be used to measure length, perimeter, area, angle etc. And the line width, color and typeface are able to be personalized. The flat and practical user interface, is easy and effective to be operated.



USB flesh disk (2.0), max.128G, for photo storage, helps users to keep test records.



Photograph type



Measure type

Accessories

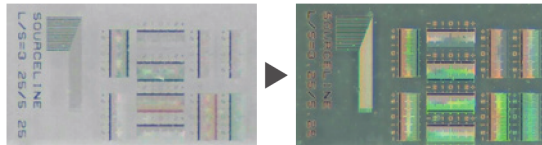
Main objectives

Different main objectives to expand zoom range, is able to check the sample in full-scale or in detail. M-7P with 0.5X, 1X, 1.4X objectives for option; M-8P with 0.5X and 1X objectives for option.

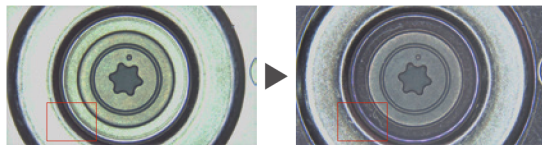


LED ring lamp with two circle bulbs

Separated switches for intensity control of inner and outer circle light. Outer circle as oblique illumination, is available to present more details. Inner circle as near coaxial light, improve the accuracy and reproducibility of visual expression.



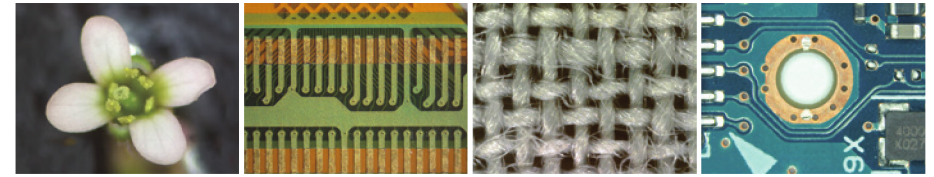
Cellphone LCD under inner circle light under outer circle light



HDD disc under outer circle light under inner circle light



Application



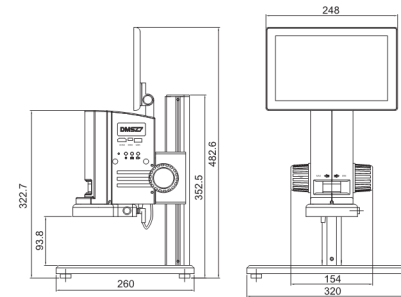
Plant morphology

FPCB

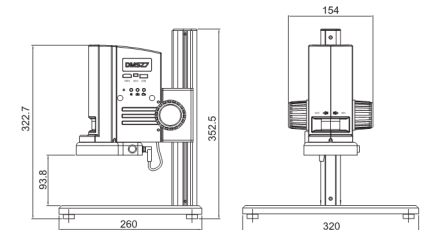
Fiber

PCB

M-7 Series Dimension :mm

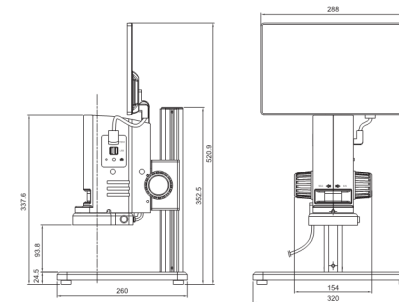


M-7P

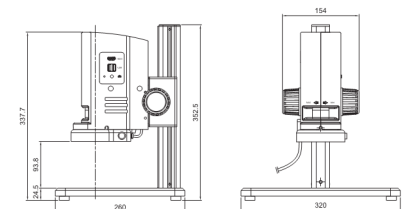


M-7

M-8 Series Dimension :mm



M-8P



M-8

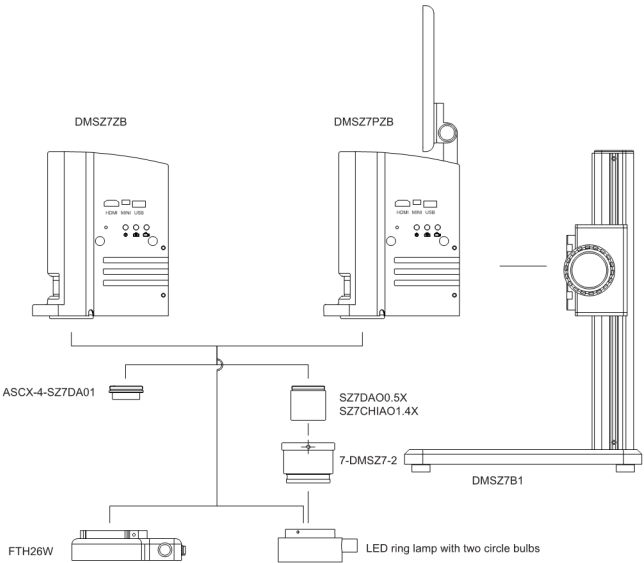
M-7 Series Specification

Model	M-7P	M-7
Frame	IPS10 inch Touch-screen (−5° ~15° tilting)	
	Zoom lenses 0.7X–5X; built-in CMOS 4.0 mega pixels camera, with OSD manual, high dynamic range; sensor size 1/3"; RAM 16G, support for SD card (Max.32G); output interface: HDMI, USB2.0, mini USB2.0, support for wireless mouse	
Objective	1X objective, WD=105mm	
	1.4X objective, WD=100mm	
	0.5X objective, WD=170mm	
Illumination	LED ring lamp with 56 bulbs, intensity adjustable, color temperature 5000–5500K;	
	LED ring lamp with two circles, intensity separately adjustable, color temperature 5000–5500K	
Base	Big plan base, lifting range 225mm	
Accessories	1.5m USB cable; 5m HDMI cable	

M-8 Series Specification

Model	M-8	M-8P	M-8C	M-8CP
Frame	\	12 inch high definition LCD (−5° ~15° tilting), resolution 1920X1080	\	12 inch high definition LCD (−5° ~15° tilting), resolution 1920X1080
	Zoom lenses 0.7X–5X; built-in CMOS 2.0 mega pixels camera; sensor size 1/2"; support for USB flash disk (Max. 128G); output interface: HDMI, USB2.0, support for wireless mouse		Zoom lenses 0.7X–5X; built-in CMOS 2.0 mega pixels camera with measuring software; sensor size 1/2"; support for USB flash disk (Max. 128G); output interface: HDMI, USB2.0, support for wireless mouse	
Objective	1X objective, WD=105mm			
	0.5X objective, WD=110mm			
Illumination	LED ring lamp with 56 bulbs, intensity adjustable, color temperature 5000–5500K;			
	LED ring lamp with two circles, intensity separately adjustable, color temperature 5000–5500K.			
Base	Big plan base, lifting range 225mm			
Accessories	5m HDMI cable, 32G USB flash disk, wireless mouse			

M-7 Series Diagram



M-8 Series Diagram

