

QS-L/AFC Manual Vision Measuring System

- Manual vision measuring system with a high speed, high-definition auto focus 3-megapixel camera.
- A 4-quadrant high-intensity LED ring light provides excellent observation performance.
- The newly designed zoom unit and interchangeable objectives achieve a maximum magnification ratio of 14X. Viewing possibilities extend from low magnification wide view measurement to high magnification micro-measurement.



Auto focus image

QS-L3017Z/AFC

From wide view measurement to micro-measurement

Optical magnification	0.5X	0.65X	0.75X	0.85X	0.98X	1X	1.28X	1.3X	1.5X	1.7X	2X	2.25X	2.5X	3X	3.5X	3.75X	4X	5X	5.25X	7X
View field Horizontal (H) (mm)	13.2	10.2	8.8	7.8	6.8	6.6	5.2	5.1	4.4	3.9	3.3	2.9	2.6	2.2	1.8	1.7	1.7	1.3	1.2	0.9
View field Vertical (V) (mm)	9.9	7.7	6.6	5.9	5.1	5.0	3.9	3.8	3.3	2.9	2.4	2.2	2.0	1.6	1.4	1.3	1.2	1.0	1.0	0.7
Total magnification (on the monitor)	20	26	30	34	39	40	51	52	60	68	79.3	89	99.3	119	138.7	149	158.7	198.7	208	277.3
Objective lens	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 15%;">1X objective (optional) Working distance</div> <div style="width: 80%; text-align: center;"> </div> </div>																			
	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 15%;">1.5X objective (standard accessory) Working distance</div> <div style="width: 80%; text-align: center;"> </div> </div>																			
	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 15%;">2X objective (optional) Working distance</div> <div style="width: 80%; text-align: center;"> </div> </div>																			

Note: The total magnification indicates the magnification on the monitor when the size of the **QSPAK** video window is 252.7x214.9 mm (default).

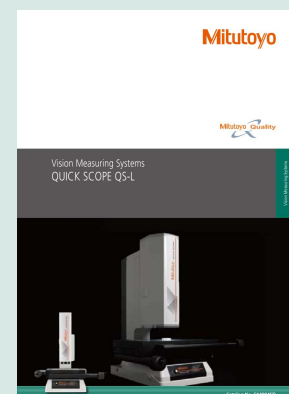
SPECIFICATIONS

Model No.	QS-L2010Z/AFC	QS-L3017Z/AFC	QS-L4020Z/AFC
Drive method	Auto focus equipped, X, Y axis: manual; Z axis: motor-operated		
Measuring range (XxYxZ)	200x100x150 mm	300x170x150 mm	400x200x150 mm
Resolution/Scale unit	0.1 μm/Linear encoder		
Vision measuring accuracy*1*2	X axis, Y axis (2.2 + 0.02L/1000) μm Z axis (4.5 + 0.006L/1000) μm		
Accuracy guaranteed temperature	20±1 °C		
Observation unit*3	7X zoom (8 steps) interchangeable objective lenses (1X objective 0.5X - 3.5X; 1.5X objective 0.75X - 5.25X; 2X objective 1X - 7X)		
Image detection method	3 megapixel, CMOS color camera (1/2 in)		
Illumination	Transmitted light	White LED	
	Co-axial light	White LED	
	Ring light	4-quadrant white LED	

*1 Inspected to a Mitutoyo standard. L=length between two arbitrary points (mm)

*2 3X lens magnification or greater

*3 1X and 2X objective lenses are optional



Refer to the **QUICK SCOPE QS-L Brochure (E14004)** for more details.