
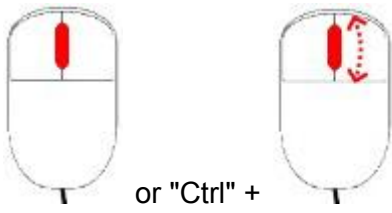
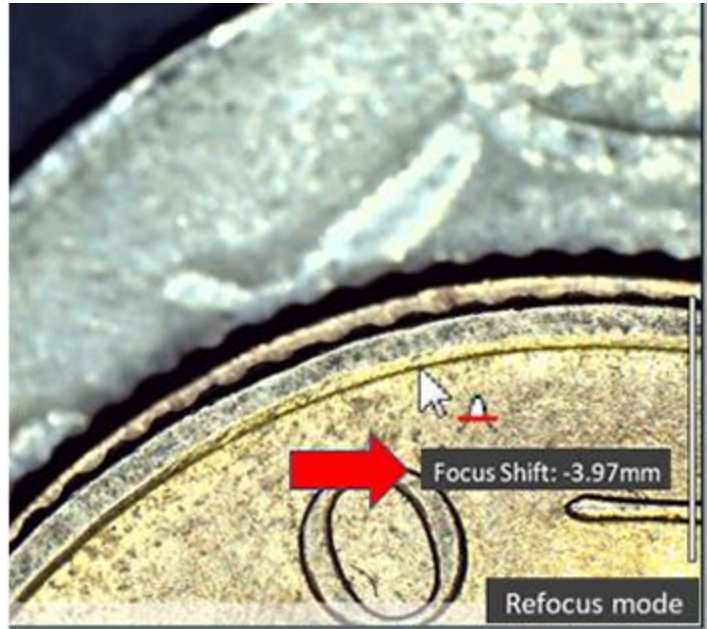



Depth Information Guide with compatible Edge models

DinoCapture 2.0 and selected Dino-Lite models offer an improved and more accurate functionality for the acquisition of depth information. Now, users can acquire depth information from the focus shift between two focal planes during live imaging.

Requirements: This functionality applies to Dino-Lite Edge Plus and Dino-Lite Edge 3.0 AM73915MZT (R10) and AM73915MZTL (R10A) with DinoCapture 2.0 ver. 1.5.40 or newer version installed. [Click here](#) to download the latest version. [Contact us](#) for capability information.

Step	Reference
<p>1 Adjust the focus to a plane of interest. This position will be considered the reference plane as 0.</p>	 A grayscale micrograph showing a cross-section of a biological specimen. A red arrow points to a specific layer or structure within the specimen, indicating the reference focal plane.
<p>2 To acquire depth information, readjust the focus by:</p> <p>Middle-click (mousewheel click) on a point of interest to autofocus, if necessary, scroll the mouse wheel to re-adjust the focus.</p> <p>or</p> <p>Press the "Ctrl" key and scroll the mouse wheel to change focus manually. The depth information is shown as the focus shift.</p>	 Two diagrams of a computer mouse. The left diagram shows a mouse with a red vertical bar on the scroll wheel. The right diagram shows a mouse with a red vertical bar on the scroll wheel and a red double-headed arrow around it, indicating manual focus adjustment. Below the diagrams is the text "or 'Ctrl' +".



This cursor  indicates that refocus mode is active and that the focus can be readjusted. A positive focus shift refers to a plane below the reference plane.

**3 To exit Refocus mode
Left-click anywhere on the preview window
or press the “ESC” key.**



Help Still have questions? We're here to help.

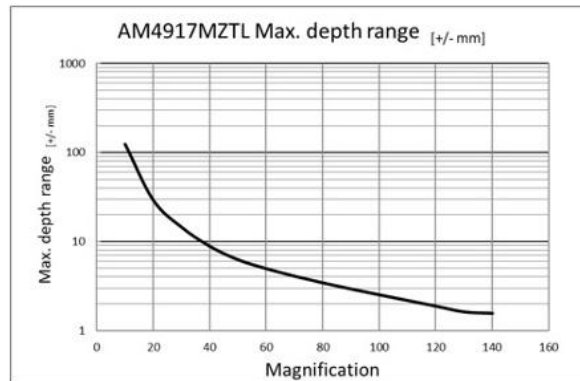
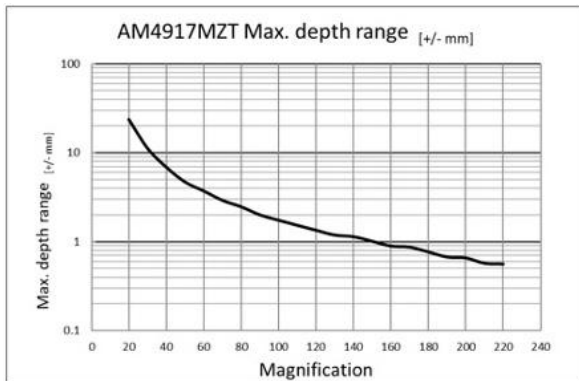
[Contact our technical support team](#)

Depth Acquisition maximum depth range and accuracy

When performing depth acquisitions, its maximum depth range and tolerance are determined by the magnification being used. This section shows the variations in maximum depths and tolerance at different magnifications in AM4917 models.

Maximum Depth Range

The maximum measurable depths that the device can perform is referred to as maximum depth range. Usually, the higher the magnification, the lower the maximum depth range, and vice versa.



Tolerance

The tolerance is the allowable variance in depth acquisitions. The higher the magnification, the lower the tolerance, and vice versa.

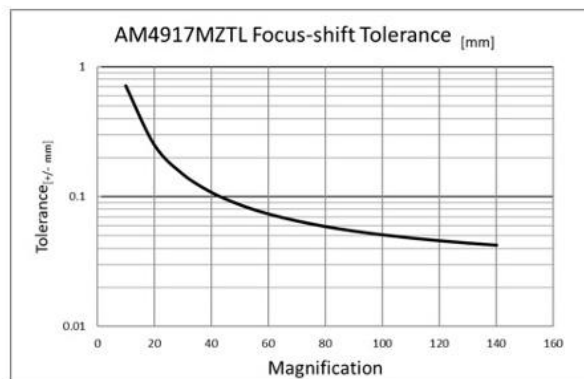
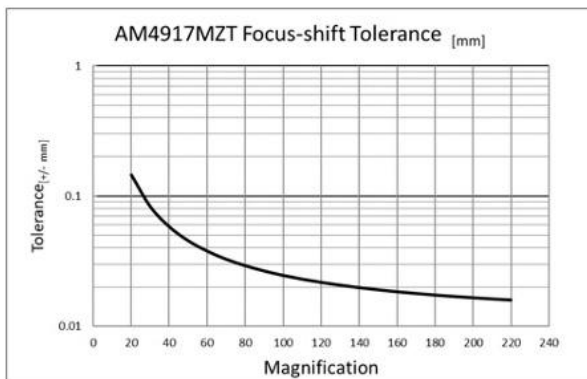


Table with focus shift parameters of AM4917MZT and AM4917MZTL

Below is a table providing all the relevant parameters when acquiring depths with AM4917MZT and AM4917MZTL microscope models.

AM4917MZT		
Magnification	Max. Depth Range (+/- mm)	Tolerance (+/- mm)
20	23.775	0.146
30	11.238	0.083
40	6.899	0.058
50	4.696	0.045
60	3.722	0.038
70	2.917	0.033
80	2.468	0.029
90	2.003	0.027
100	1.742	0.025
110	1.527	0.023
120	1.345	0.022
130	1.187	0.020
140	1.138	0.020
150	1.010	0.019
160	0.893	0.019
170	0.867	0.018
180	0.766	0.017
190	0.672	0.017
200	0.657	0.017

210	0.571	0.016
220	0.016	0.016

AM4917MZTL		
Magnification	Max. Depth Range (+/- mm)	Tolerance (+/- mm)
10	125.100	0.715
20	29.176	0.251
30	14.504	0.149
40	8.835	0.108
50	6.243	0.087
60	4.956	0.074
70	4.077	0.065
80	3.429	0.059
90	2.926	0.054
100	2.517	0.051
110	2.173	0.048
120	1.877	0.046
130	1.615	0.044
140	1.557	0.042