

Clean Room Microscope Image Scales

Glenn Chapman, Mar. 20, 2015 v1

Measurement of devices in the clean room inspection microscope is easy with the camera system using this table of scale factors. The current camera is a 640x480 pixel size. Here is the image width and heights in terms of microns, and the size of each pixel (in microns). Pixels are square. Calibration was done both microfabed objects of known size and the microscope crosshair measurement instrument. Error on this measurement is about 0.1%

Objective power	Image		Pixel size (μm)
	Width (μm)	Height (μm)	
5	1320.0	990.0	2.0625
10	660.0	495.0	1.0313
20	330.0	247.5	0.5156
50	132.0	99.0	0.2063