

Important Parameters of Yen lab's microscopes

NIKON eclipse TE 2000-U

At 100x, 10 μM = 56 pixel

At 60x, 10 μM = 37 pixel

At 40x, 10 μM = 25 pixel

For deconvolution settings: 100x

Lens: **1.4** ; Refractive Index: **Oil (1.515)**
N/A

X Y spacing:

Horizontal distance –

17.5438 μM = 100 pixels \rightarrow **0.175 $\mu\text{M}/\text{pix}$**

Vertical distance –

17.5438 μM = 100 pixels \rightarrow **0.175 $\mu\text{M}/\text{pix}$**

Confocal spinning disk

At 60x, 10 μM = 96 pixel

Note: μM = micro-meter

100x = magnified by 100-fold