

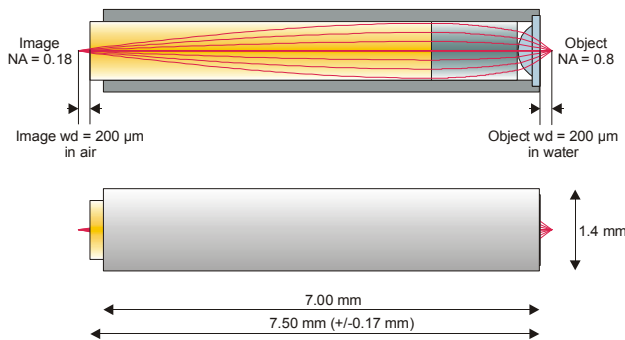
High-NA Endoscopic Imaging Objective for 2-Photon Microscopy

GRINTECH's high-NA Endoscopic Imaging Objectives cascade the optical power of a plano-convex lens and a GRIN lens with aberration compensation to achieve an object NA of 0.8.

Applications: In vivo endomicroscopy, 2-photon microscopy, deep brain and tissue imaging, flexible fluorescence microscopy, NA conversion

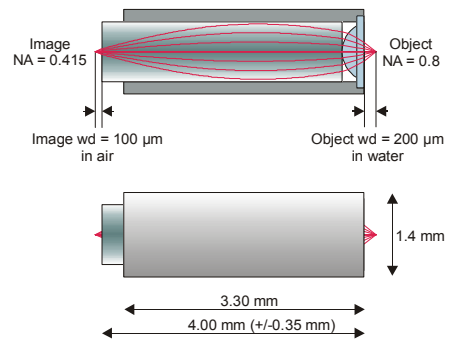
Product Code: GT-MO-080-018-810

- Features:**
- Object NA = 0.80
 - Object working distance 200 μm (water)
 - Image NA = 0.18
 - Magnification 4.8 x
 - Recommended Excitation 800 – 900 nm
 - Mounted in stainless steel holder

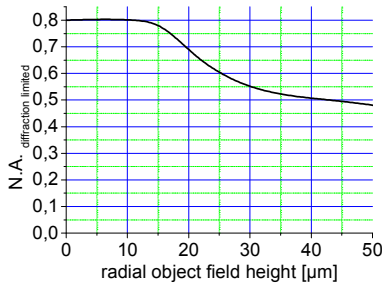


Product Code: GT-MO-080-0415-810

- Features:**
- Object NA = 0.80
 - Object working distance 200 μm (water)
 - Image NA = 0.415
 - Magnification 1.92 x
 - Recommended Excitation 800 – 900 nm
 - Mounted in stainless steel holder

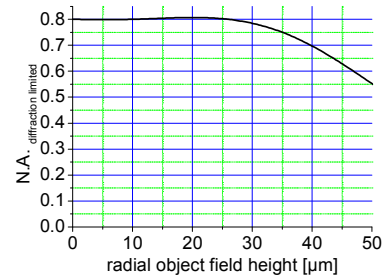


Diffraction limited NA versus Field



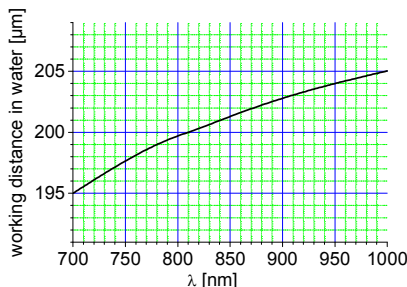
(from optical design simulation according to Marechal criterion @ 810 nm, wavefront RMS $\leq 0.07 \lambda$)

Diffraction limited NA versus Field

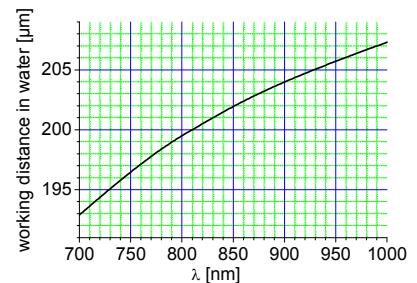


(from optical design simulation according to Marechal criterion @ 810 nm, wavefront RMS $\leq 0.07 \lambda$)

Chromatic Aberration in Object Space



Chromatic Aberration in Object Space



Variations due to modifications of the production process are possible. It is the user's responsibility to determine suitability for the user's purpose.

Pat. US 7,511,891