High-NA Endomicroscopic Imaging Objective for 2-Photon Microscopy

GRINTECH's high-NA Endomicroscopic 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-M-O-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-M-O-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 ≤ 0.07 λ)

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.

For tolerances, handling and storage see page 22
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