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LASER VIBROMETRY

Fiber-Micro-Manipulator



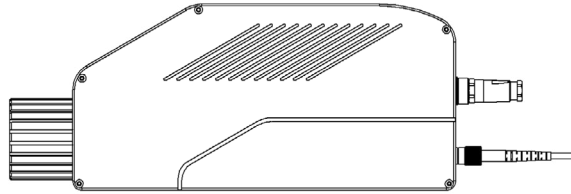
KEY FEATURES

Discover intriguing applications
in medical technology

The Fiber-Micro-Manipulator is a state-of-the-art tool designed for precise laser alignment. With its innovative mirror-controlled system, operated effortlessly by a joystick with a high gear ratio, it provides unparalleled control over the laser beam direction. This advanced technology works in perfect synergy with the Fiber vibrometer, harnessing the advantages of SWIR laser capabilities to accurately measure dark, rough, or glowing surfaces with ease.

Technical Data

Specifications



Autofocus Pro Mid-Range Fiber Head:

Dimensions (L x W x H)	241 x 100,5 x 44 mm
Working distance	135 mm to 10 m
Min. stand-off distance (mm)	135
Focal length (mm)	50
Spot size at min. stand-off distance (µm)	42

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For optimal alignment precision, a visible targeting laser is integrated into the system. This laser assists in achieving the desired alignment, ensuring accuracy and efficiency in the setup process. The compact and lightweight design of the sensing head facilitates seamless integration into existing systems, while the autofocus feature enables flexibility in achieving different working distances and small spot sizes.

When combined with a microscope, the Fiber-Micro-Manipulator unlocks a new level of precision alignment possibilities. This unique combination allows for separate measurements, enabling researchers, for example, to analyze the ear canal while ensuring precise alignment of the laser beam.



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