

OBJECTIVE LENS

VERTICAL TYPE OPTICS BENCH

OP002

【Product overview】

This is vertical workbench for optical measurement optics M-Scope series. Rough position adjustment function in Z axis is equipped so that rough it is easy to adjust focusing for various uneven sample. As sample holders and stage system can be designed and selected based on device shape, the measurement system is easily configured.

【Summary of specification】

- * Loading capacity of optics installation part : approx. 5 kg
- * Motion range of Z axis rough position adjustment : approx. 80mm



Vertical type optics bench OP002

OPTICS BENCH FOR OPTICAL FIBER MEASUREMENT

OP002—F3/OP002-F5

【Product overview】

This is optics bench for Synos' optical measurement optics M-Scope series especially for optical fiber sample measurement. As manual 3-axis stage (5-axis) for fiber position adjustment is equipped, it is easy to adjust measurement position of fiber sample in NFP / FFP / beam profile measurement.

【Optics bench for optical fiber measurement with manual 3axis stage

OP002-F3】

- * Stage system for fiber position adjustment : Manual 3-axis (XYZ axis)
- * Motion range of XYZ-axis stage : $\pm 6.5\text{mm}$
- * Minimum readout : $10\mu\text{m}$ / scale
- * Fiber adaptor : FC connector (standard), SC connector and other type fiber connector (option)

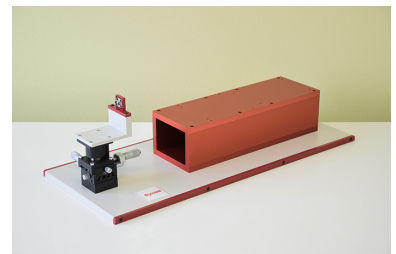
【Optics bench for optical fiber measurement with manual 5axis stage

OP002-F5】

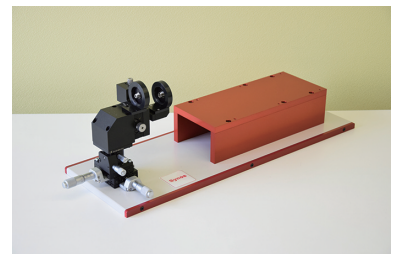
- * Stage system for fiber position adjustment : Manual 5-axis (XYZ+ $\theta_x\theta_y$ axis)
- * Motion range of XY-axis stage : $\pm 6.5\text{mm}$
- * Motion range of Z-axis stage : $\pm 3\text{mm}$
- * Minimum readout of XYZ-axis : $10\mu\text{m}$ / scale
- * Motion range of $\theta_x\theta_y$ axis stage : $\pm 15^\circ$
- * Fiber adaptor : FC connector (standard), SC connector and other type fiber connector (option)

【Adaptation of optics (OP002 · OP002-F3 · OP002-F5 common)】

- * Synos' optical measurement optics M-Scope series
 - Sophisticated optical beam irradiation and detection measurement optics / M-Scope type I
 - Simplified optical beam irradiation and detection measurement optics / M-Scope type J
 - Sophisticated optical beam NFP measurement optics / M-Scope type S
 - Simplified optical beam NFP measurement optics / M-Scope type L
 - FFP measurement optics / M-Scope type F
 - NFP/FFP simultaneous measurement optics / M-Scope type D
 - NFP/collimated beam simultaneous measurement optics / M-Scope type E
 - Underfilled launch optical system / M-Scope type G
 - Mode selective launch optical system / M-Scope type ML



Optics bench for fiber measurement with 3-axis manual stage OP002-F3



Optics bench for fiber measurement with 5-axis manual stage OP002-F5

COAXIAL EPI-ILLUMINATION LIGHT SOURCE

LED COAXIAL EPI-ILLUMINATION LIGHT SOURCE

【Product overview】

This is LED coaxial epi-illumination unit mainly for visible wavelength range. In combination with Synos' CCD detector and optical measurement optics M-Scope series with coaxial epi-illumination port, it is possible to observe microscopic image of object, such as edge image of optical fiber, optical waveguide module, and so on. There are monochromatic light type (465nm, 520nm, 645nm, 850nm, etc.) and white light type, and possible to select unit as measurement wavelength.

【Summary of specification】

Model	Summary of specification
LS-EL001/650	LED type, outer diameter:8mm ϕ , peak wavelength:645nm
LS-EL001/850	LED type, outer diameter:8mm ϕ , peak wavelength:850nm
LS-EL001/W	LED type, outer diameter:8mm ϕ , white light source

* Besides, blue (peak wavelength:465nm), green (peak wavelength:520nm) etc. can be prepared.



LED coaxial epi-illumination light source

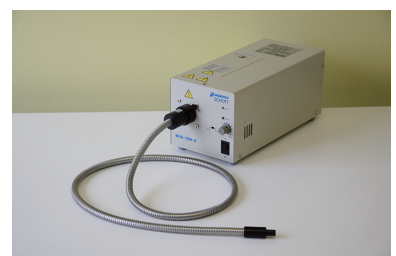
100W HALOGEN LAMP NIR COAXIAL EPI-ILLUMINATION LIGHT SOURCE

【Product overview】

This is a illumination unit for NIR image sensor. In combination with InGaAs NIR detector and optical measurement optics M-Scope series with coaxial epi-illumination port, it is possible to observe microscopic image of object, such as edge image of optical fiber, optical waveguide module and so on, in NIR wavelength range.

【Summary of specification】

Light guide	Dedicated heat resistant light guide (outer diameter:8mm ϕ)
Spectral characteristic	Peak wavelength:1150nm, illumination spectral range:1100nm-1500nm
Intensity control	Manual control / external volume control / external analog control
Compatible lamp	LM-100-IR(12.0V/100W)
Lamp lifetime	Average 1000 hours
Input voltage	AC100V - 240V (50Hz/60Hz)
Dimensions	W120 x H110 x D257 mm, approx. 3.2kg



100W halogen lamp NIR coaxial epi-illumination light source