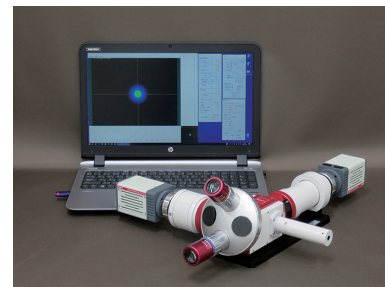


NFP/FFP SIMULTANEOUS MEASUREMENT SYSTEM

Simultaneous measurement of NFP & FFP by a single optical unit.

NFP/FFP Simultaneous measurement system realizes simultaneous observation and analysis of NFP and FFP by a single optical unit. Previously, for measurement and analysis of NFP and FFP by optical method, dedicated two kinds of optics, NFP and FFP measurement optics are needed each. **NFP&FFP simultaneous measurement system with M-Scope type D** realized simultaneous observation and analysis of NFP and FFP without changing optics.



[Features]

- **M-Scope type D**, NFP/FFP simultaneous measurement optics
 - Simultaneous observation & analysis of NFP and FFP by a single optical unit.
- Working distance during FFP measurement is approx. 17 mm.
- Possible to measure in 400nm to 1700nm wavelength range by selecting detector.
- Optical beam analysis module **AP013**, specially designed high-functional image processing software for optical beam profile analysis
 - All-in-one package of PC, optical beam analysis software, detector driver, correction data.
 - High-performance image processing software for optical beam profile measurement **Optometrics BA Standard** is pre-installed.

[Standard component]

- Optics
 - NFP/FFP simultaneous measurement optics **M-Scope type D**
- Measurement wavelength
 - Please specify the measurement wavelength because AR coating to some optical parts is required.
- Available detectors selection
 - 400~1100nm : Hi-resolution CMOS detector **ISA071/ISA071GL**
 - 950~1700nm : InGaAs high sensitivity NIR detector **ISA041H2**
 - 400~1700nm : InGaAs high resolution NIR detector **ISA041HRA**
- Regarding the field of view and pixel resolution during NFP measurement and the measurement angle coverage and pixel resolution during FFP measurement by the detector used, please refer to P50 [Detector selection and NFP/FFP simultaneous measurement specifications]
- Optical beam analysis module **AP013**
 - PC for image processing, optical beam analysis software **Optometrics BA Standard**, detector driver, calibration data, USB key
- Accessories
 - Cables, instruction manuals, etc.

[Option]

- Objective lens selection
 - Objective lens for FFP measurement: 50× (fixed)
 - Objective lens for NFP measurement: Selectable
- Option for optics (for **M-Scope type D**)
 - 2× intermediate lens port **MS-OP011-RL2** : Intermediate lens unit that doubles the overall magnification
 - 1/2× intermediate lens port **MS-OP011-RLH** : Intermediate lens unit that halves the overall magnification
 - Coaxial epi-illumination port **MS-OP011-CEP** : Coaxial epi-illumination port with removable half mirror
- ND filter
 - Visible (400~700nm): **NDF-5** (5 types per set)
 - NIR (700~1100nm): **NDF NIR-5** (5 types per set)
 - IR (1310~1550nm): **NDF IR-5** (5 types per set)
- Coaxial epi-illumination light source
 - Visible~NIR : LED epi-illumination system
 - IR : 950nm IR-LED epi-illumination system
- Optics bench
 - Optics bench for fiber measurement with manual stages
 - Vertical setting optics bench

[Component selection of NFP/FFP simultaneous measurement system]

<p>○ Stages · optics bench</p> <p>Sample stages Optics stages</p> <p>Optics bench for fiber measurement</p> <p>Vertical setting optics bench</p> <p>* Can be combined with various motorized/manual stages</p>	<p>○ Optics selection</p> <p>NFP/FFP simultaneous measurement optics M-Scope type D</p> <ul style="list-style-type: none"> ● Option <ul style="list-style-type: none"> • 2× intermediate lens port MS-OP011-RL2 • 1/2× intermediate lens port MS-OP011-RLH • Coaxial epi-illumination port MS-OP011-CEP 	<p>○ Detector selection</p> <ul style="list-style-type: none"> ● for visible~1100nm <ul style="list-style-type: none"> High resolution CMOS detector ISA071 ● for 950~1700nm <ul style="list-style-type: none"> InGaAs high sensitivity NIR detector ISA041H2 ● for 400~1700nm <ul style="list-style-type: none"> InGaAs high resolution NIR detector ISA041HRA/HRVA 	<p>○ Optical beam analysis module AP013</p> <ul style="list-style-type: none"> ● Personal computer <ul style="list-style-type: none"> • Main unit • Accessories ● Optical beam analysis software Optometrics BA Standard ● Detector driver ● Calibration data ● USB licence key <p>○ Accessories</p> <ul style="list-style-type: none"> ● ND filter ● Objective lens ● Coaxial epi-illumination system
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