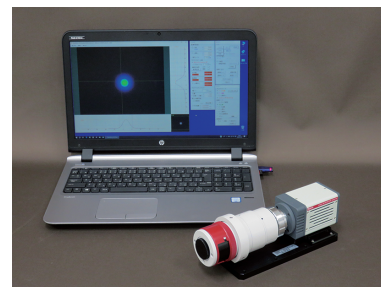


COLLIMATED BEAM MEASUREMENT SYSTEM

Collimated beam pattern measurement system in combination with collimated beam measurement optics & image processing.

Collimated beam measurement system is for measurement of beam divergence angle of collimated beam with high resolution by image processing method. Since the beam divergence angle of collimated beam can be observed and measured in real time, it can be used for beam quality evaluation of collimator modules and assembling adjustment of collimator lenses, etc.



[Features]

- **M-Scope type C**, collimated beam measurement optics
 - Quick and easy measurement by dedicated optics and image processing method.
 - Divergence angle of collimated beam can be observed and measured in real time with high angular resolution.
- 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.
- By combining with various automatic precision positioning stages and image processing, it is possible to automate the collimated beam adjustment process for collimator module assembling adjustment.

[Standard component]

- Collimated beam measurement optics selection
 - Focal length 200mm: **M-Scope type C/200**
 - Focal length 150mm: **M-Scope type C/150**
 - Focal length 100mm: **M-Scope type C/100**
- Available detector selection
 - 400~1100nm : Hi-resolution CMOS detector **ISA071/ISA071GL**
 - 950~1700nm : InGaAs NIR detector **ISA041H2**
 - 400~1700nm : InGaAs high resolution NIR detector **ISA041HRA**

☞ Regarding the measurement angle coverage and pixel resolution during collimated beam measurement by the detector used, please refer to P50 [Detector selection and collimated beam 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
 - NFP measurement is also possible if an objective lens is attached. Select the objective lens according to the optical magnification (field of view), pixel resolution, N.A., wavelength, etc.
 - ☞ Regarding the field of view and pixel resolution during NFP measurement by the detector used, please refer to P51 [Detector selection and NFP measurement specifications]
- 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)
- Optics bench
 - Optics bench for fiber measurement with manual stages
 - Vertical setting optics bench

[Component selection of collimated beam measurement system]

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| <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>○ FFP measurement optics selection</p> <p>Collimated beam measurement optics M-Scope type C/200 M-Scope type C/150 M-Scope type C/100</p> | <p>○ Detector selection</p> <ul style="list-style-type: none"> ● for visible~1100nm High resolution CMOS detector ISA071 ● for 950~1700nm InGaAs high sensitivity NIR detector ISA041H2 ● for 400~1700nm 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 |
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