

OPTICAL BEAM ANALYSIS MODULE AP013

Image processing hardware and software package for optical beam profile measurement. EF/EAF analysis function is supported as standard function.

Optical beam analysis module AP013 is the image prosessing and data analysis system focusing on optical beam profile measurement and analysis, widely applicable to optical beam profile measurement application such as NFP, FFP, collimated beam and various application in combination with Synos' optical system M-Scope series and imaging detectors ISA series. AP013 is composed of personal computer for image processing and data analysis, optical beam analysis software Optometrics BA Standard, calibration data set, and detector driver interface. Additionally, Optometrics BA Standard is equipped with power distribution analysis function such as flux analysis function (EF/EAF) that is the standard analysis parameters for MMF, D86 analysis function, D4 σ analysis function, etc.



OPTICAL BEAM ANALYSIS SOFTWARE

Optometrics BA Standard (Ver.3.0.0)

Optical beam analysis software Optometrics BA Standard is image processing/analysis software equipped with our unique and abundant optical beam measurement and analysis functions, including general-purpose beam profile measurement, beam width measurement, optical power distribution amalysis such as EF/EAF analysis, D86 analysis, D4σ analysis.

[features of optical beam analysis software Optometrics BA Standard]

OImage acquisition and processing

Live image display, Image averaging and accumulation, Dark current correction, Storage and read out of image data

OCenter setting function

Peak intensity position of the image, Center of gravity position of the beam, Profile peak position, Center of beam profile width, any specified position

Oconversion value (unit conversion) setting function

Conversion value setting, Analysis by converted value (unit: pixel/µm/degree)

Peak intensity position & value (maximum intensity value in the image and its postion), Beam center of gravity position

Measurement and Analysis function

Optical beam profile analysis

Realtime beam profile display(vertical/horizontal, by automatic search or manual set of center position), Beam profile display of arbitrary direction, 3D display of intensity profile, Peak hold display, Gaussian fitting beam profile

Width measurement and analysis

Beam width analysis (FWHM, 1/e2, arbitrary% down width), Unit setting & conversion

Optical power distribution analysis (*These functions are included only in "Optometrics BA standard"

EF(Encircled Flux)/EAF(Encircled Angular Flux) analysis, D86 analysis(based on EF/EAF analysis), D4σ analysis

Other analysis function

Total intensity analysis in any area, etc.

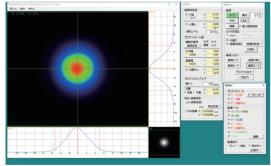
Image display

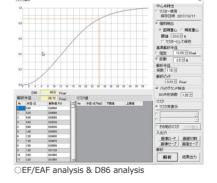
Gray scale, binarized image, pseudo color, 3D intensity display, equal intensity line display

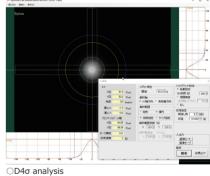
○Image and data storage

Image storage (TIFF/BMP/CSV), intensity profile data (CSV), EF/EAF data (CSV), hard copy of measurement screen (JPEG/BMP)

[Analysis function of "Optometrics BA Standard (ver.3.0.0.)]







OMain operation window of "Optometrics BA Standard"

[Main component]

- Personal computer system for image processing and data analysis ··· 1set
- · OS: Microsoft Windows 10 professional 64bit
- · Prosessor: Intel core i5 (or corresponding specification)
- Main memory: 16GB (or corresponding specification)
- Optical beam analysis software Optometrics BA Standard (ver. 3.0.0) ··· 1 license
- · Software install media: 1 (including Optometrics BA Standard, Driver and interface software for detector, Calibration data),
- · Software license key (USB key): 1

[AP013 System selection]

PAI 010 System Sciencially		
MODEL	SOFTWARE	OUTLINE
AP013	Optometrics BA Standard	Supports all the above features
AP013B	Optometrics BA Basic	Among the functions of Optometrics BA Standard, it supports functions
		excluding the optical power distribution analysis function
Option	Socket communication external control software	Software for external control of Optometrics BA Standard · Optometrics BA
	AP013-ExC	Basic.