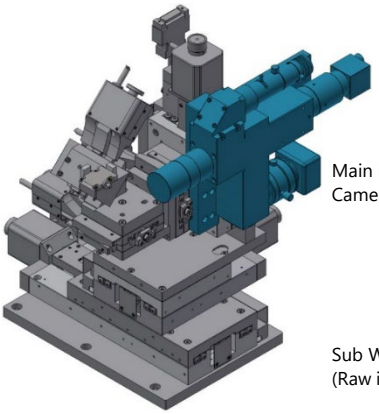
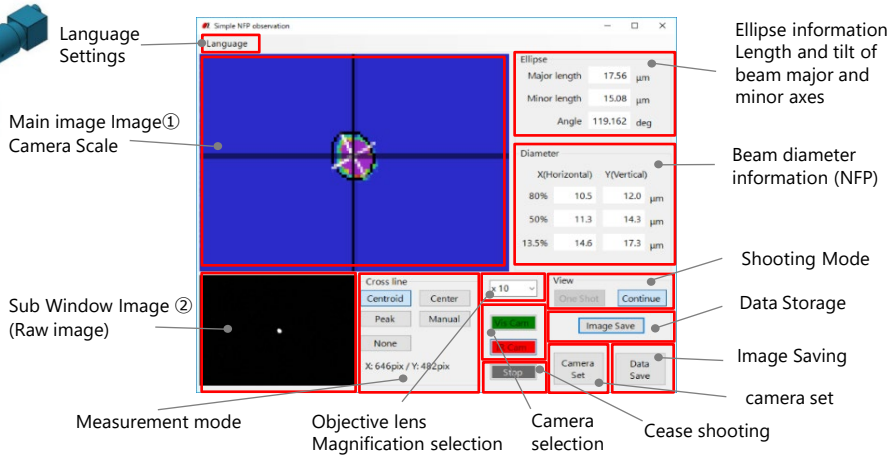
NFP Observation Unit NFP-KIT

A set of observation system and control software for easy observation of the beam diameter (NFP) to be measured.

- By combining the automatic alignment unit with this product, adjustments can be made with reference to the luminance values in the image field of view.
- The ability to observe and acquire the beam diameter (NFP), elliptical information, and center-of-gravity point of the measurement object allows for simple evaluation and experimentation of optical fibers and optical waveguides.



main screen



Guide

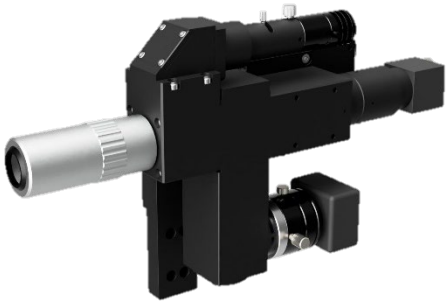
- Automatic Alignment Unit is used in combination with DAU-8100A-*-SC series. For other configurations of the auto alignment unit or changes in observation magnification, please contact our sales department.

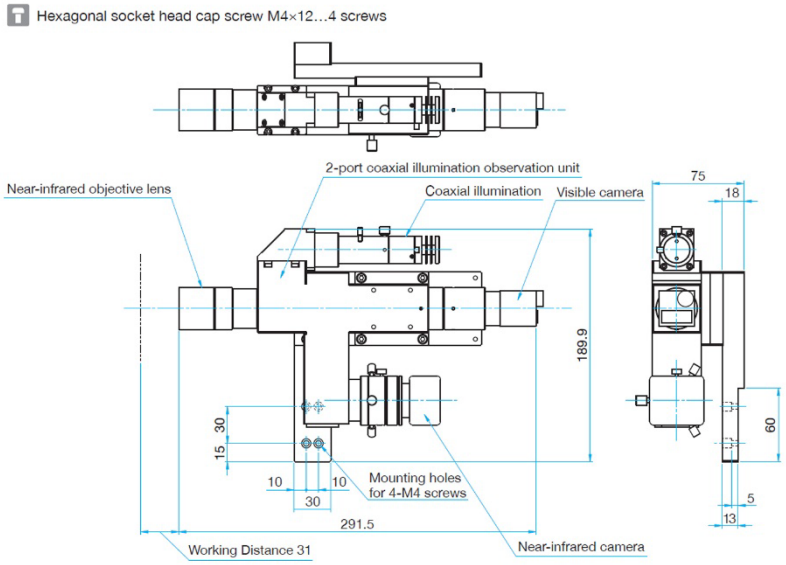
Attention

- Control software cannot be sold as a stand-alone product.

Specifications		
Part number		**NFP-KIT**
name of product		NFP Observation Unit
Magnification		x10
Camera field of view	Visible	0.570mm * 0.427mm
	NIR	0.486mm * 0.362mm
Wavelength	NIR	1550nm
NFP information display accuracy	NIR	±1.5μm（4 pixel）

NFP observation unit configuration image (Unit: mm)



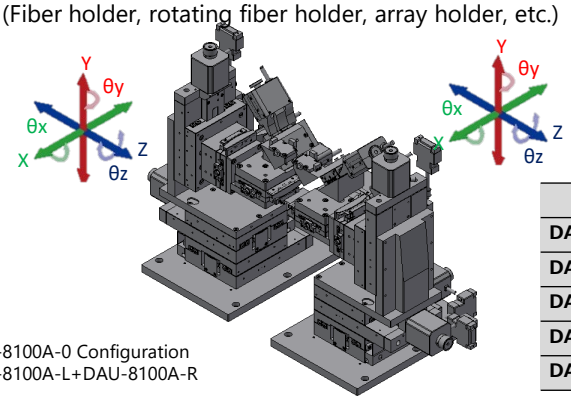


Motorized 12-axis Optical Fiber Alignment Stage Unit DAU-8100A

RoHS

This is a stage unit for 6-axis automatic alignment combining θxθyθz axes with linear motion XYZ axes. L type and R type are available symmetrically.

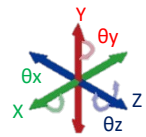
- High rigidity and performance of the stage enable highly reproducible centering.
- Compared to the conventional automatic centering unit (DAU-080A type), the rigidity is further improve and a longer travel distance can be secured.
- The holder is magnetically fixed and butt-jointed to ensure position reproducibility.
- Interchangeable holders allow for expansion of applications in accordance with changes in devices. (Fiber holder, rotating fiber holder, array holder, etc.)



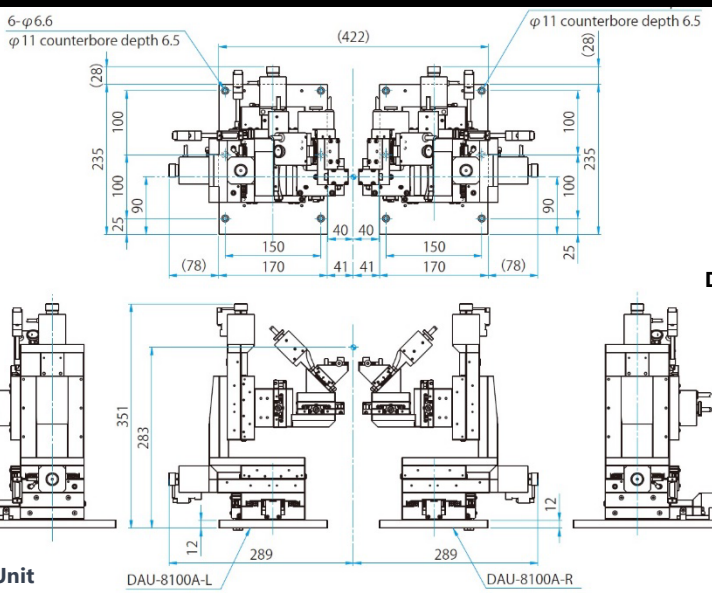
DAU-8100A-0 Configuration
DAU-8100A-L+DAU-8100A-R

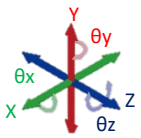
Part Number	Axis	Travel (X axis)
DAU-8100A-0	12	50mm
DAU-8100A-L	6	50mm
DAU-8100A-R	6	50mm
DAU-8100A-L-SC	6	100mm
DAU-8100A-R-SC	6	100mm

Outline Drawing (in: mm)



DAU-8100A-L





DAU-8100A-R

(Reference)
Configuration Image of the Unit

Part Number	Axis	X	Y	Z	θx	θy	θz
DAU-8100A-L	Part Number	TAMM100-50C	TAMM100-50CR	TAMM100-50CR	OSMS-40A60R	OSMS-60A105	OSMS-60A85R
	Travel	50mm	50mm	50mm	±5°	±7°	±9°
	Resolution (Full)	2μm	2μm	2μm	≒0.00217°	≒0.00189°	≒0.00229°
	Resolution (Half)	1μm	1μm	1μm	≒0.00108°	≒0.00095°	≒0.00115°
	Positioning Accuracy	<6μm	<6μm	<6μm	-	-	-
	Positional Repeatability	<1μm	<1μm	<1μm	<±0.004°	<±0.004°	<±0.004°
DAU-8100A-R	Part Number	TAMM100-50CR	TAMM100-50C	TAMM100-50C	OSMS-40A60	OSMS-60A105R	OSMS-60A85
	Travel	50mm	50mm	50mm	±5°	±7°	±9°
	Resolution (Full)	2μm	2μm	2μm	≒0.00217°	≒0.00189°	≒0.00229°
	Resolution (Half)	1μm	1μm	1μm	≒0.00108°	≒0.00095°	≒0.00115°
	Positioning Accuracy	<6μm	<6μm	<6μm	-	-	-
	Positional Repeatability	<1μm	<1μm	<1μm	<±0.004°	<±0.004°	<±0.004°