Suruga Seiki Alignment System

What is the alignment?

Alignment is to align the optical axis and optical devices such as waveguide (WG), LD and PD.

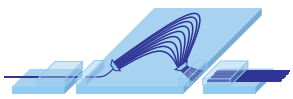
What are you looking for ?

Suruga Seiki provides better solution for

- the work efficiency
- the productivity
- compatibility of the variety devices

Our alignment system is followed customer's request and

Splitter

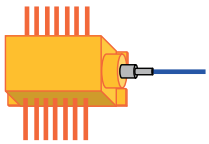


AWG

LN modulator

Variable wavelength light sourse

LD/PD



EO modulator

We can arrange any other various devices. Please feel free to contact us.

Suruga Seiki Alignment System

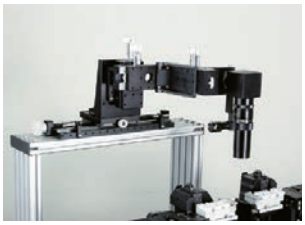
Alignment Components (Stage Units and Device Holders)

- Optimize axis configuration in many purpose.
- Device holders are available for various types of devices.
- Custom design is available.



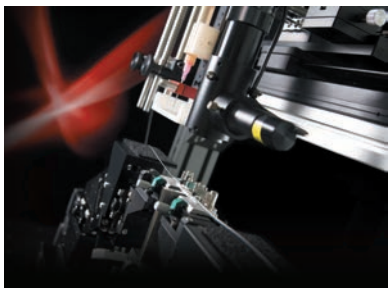

Accessory (Peripherals)

- Peripherals are available such as visual systems and UV equipments.
- Probing alignment is available.
- High capability of integration with various alignment components.

Alignment System (Equipment)

- Variety of alignment system is available for R&D, Inspection, and Mass Production purpose.
- Alignment system includes Suruga own developing software which has high performance for the axis and components control.
- The most alignment system designs by customization to meet customer's requirements.



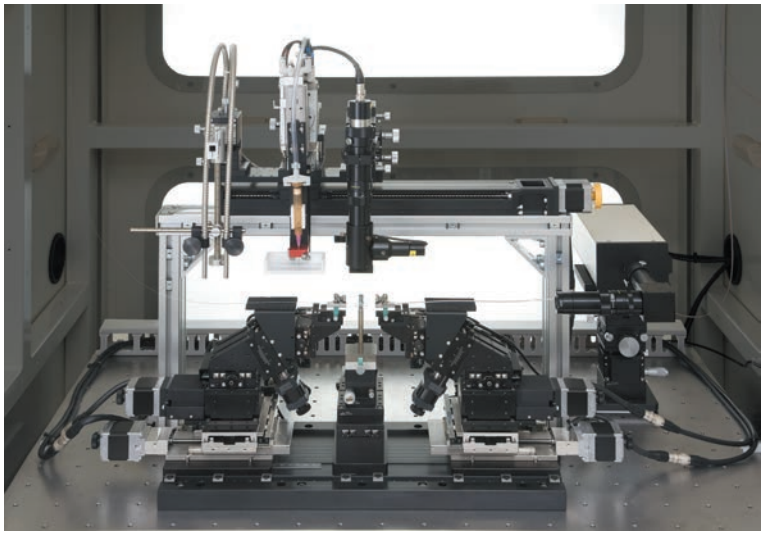

Suruga Seiki Alignment System

Efficiently adjustable optical axis of devices such as optical fiber, waveguide, LD and PD and we provide better solution for support your evaluation, modularization, inspection etc. of devices from mechanical parts to system equipment to meet your requirements.

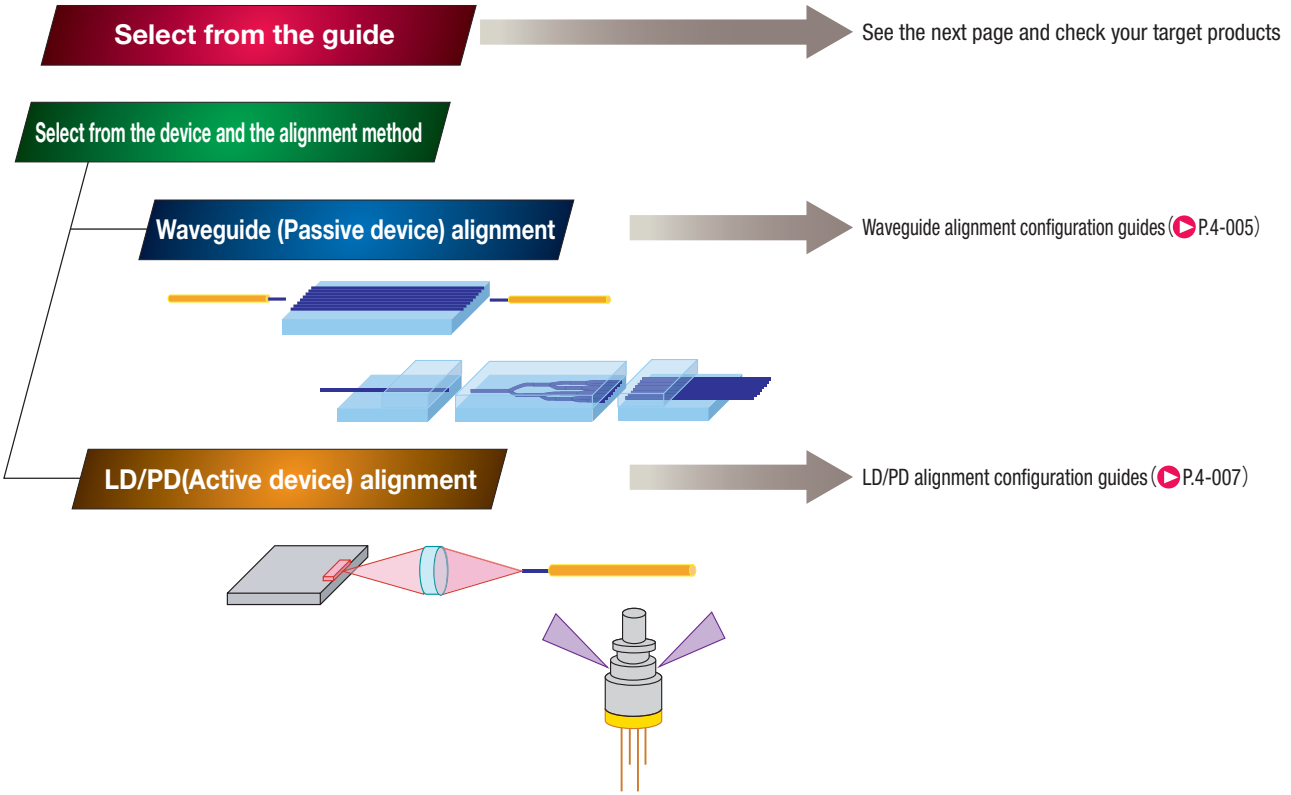
◎ Low cost/High-speed delivery
- ●Alignment system are integrated by our standard products.
- ●The components including stages are manufactured by in-house.

◎ Versatility/Extensibility
- ●Our software works data communication or I/O control by connecting 3rd equipment.
- ●Device holders are available for various types of devices.

◎ Customization
- ●Custom design is available to meet customer's requirement.



Selection guide



Optical Fiber Alignment Products Configuration

Alignment components

The customer can be designed a own system by selecting standard products.
Selecting stages and holders for your needs.

- Alignment components
  - Stage unit
    - Manual stage alignment unit ····· P.4-017 
    - Motorized stage alignment unit ····· P.4-019 
    - Device unit ····· P.4-024 
  - Holder
    - Fiber holder ····· P.4-024 
    - Device holder ····· P.4-032 
    - Adaptor ····· P.4-038 

Alignment accessory

Introduces the peripherals for alignment systems such as observation or UV radiation equipments.

- Alignment accessory
  - Observation equipment
    - Stereomicroscope ····· P.4-045 
    - Lens barrel ····· P.4-048 
    - Monitoring unit ····· P.4-052 
    - CCD camera ····· P.4-054 
    - Monitor ····· P.4-054 
    - Lighting ····· P.4-055 
  - Adhesive/welding equipment
    - UV irradiating equipment ····· P.4-057 
  - Another accessories
    - Vacuum pump ····· P.4-059 
    - Probe ····· P.4-060 

Alignment system

Introduces variety of alignment systems according to the device from an R & D use to a production and inspection use.

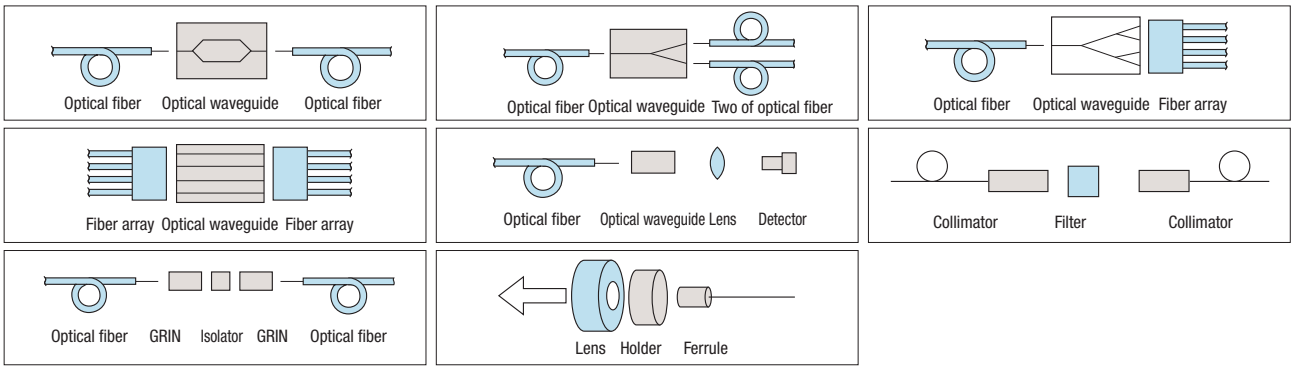
- Alignment system
  - Alignment control system ····· P.4-063 
  - Waveguide alignment system ····· P.4-065 
  - LD/PD alignment system ····· P.4-069 

Waveguide Alignment (Passive Device Alignment) Configuration Guides

Provide each unit which configurated a device as a standard model.

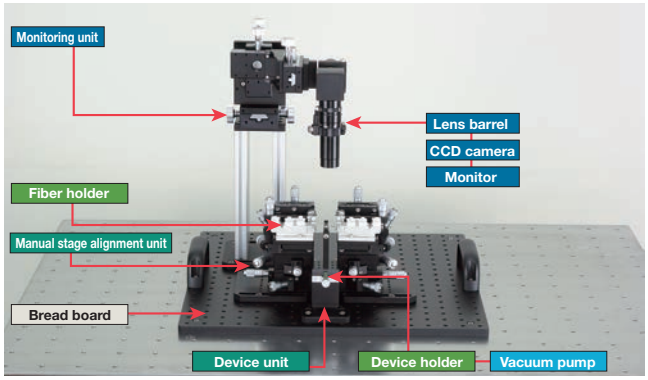
●Applications

Passive alignment has various combination of fibers, lenses, filters, or waveguide.

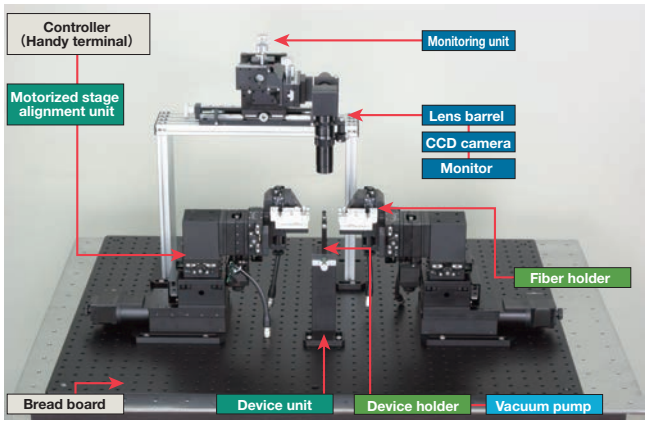


●Configuration example

■Example): Manual stage alignment unit



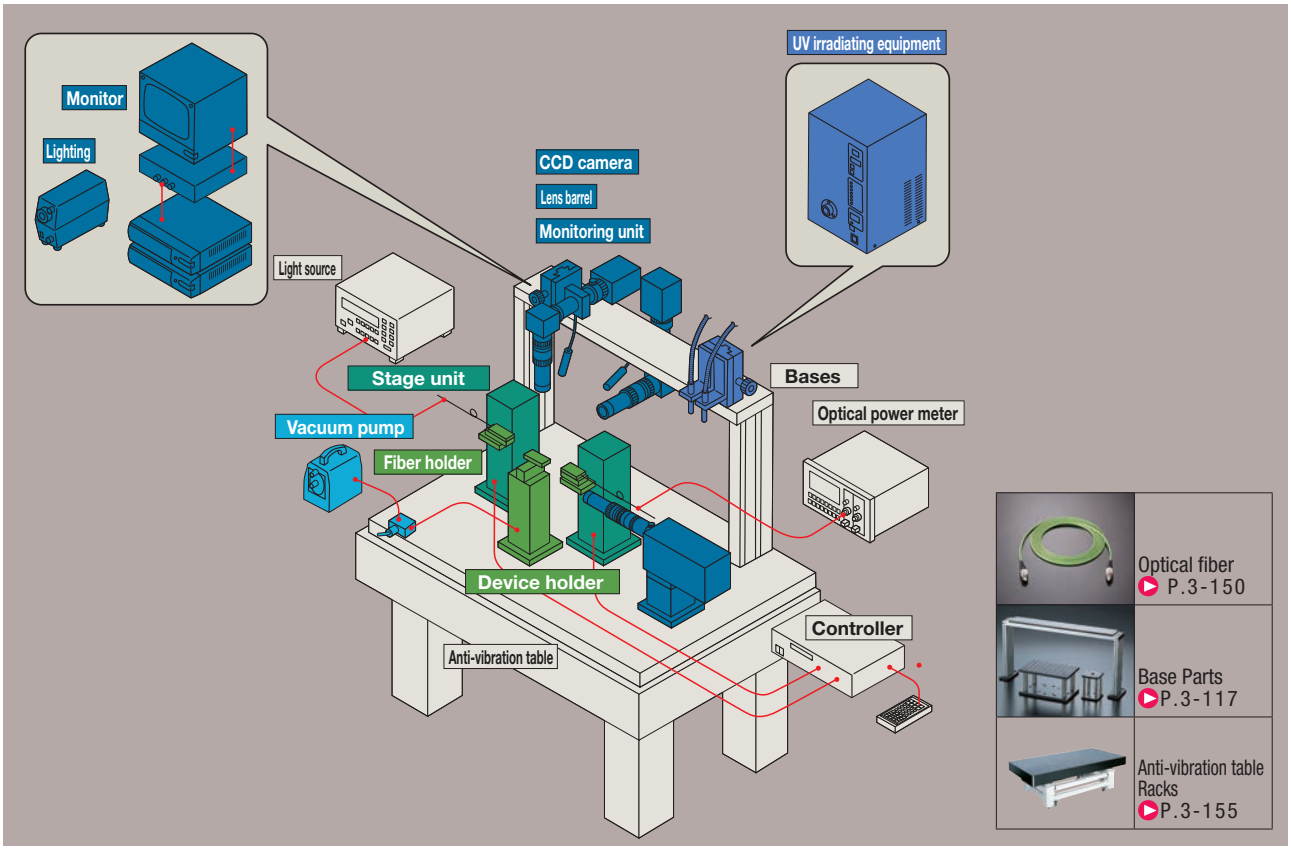
■Example): Motorized stage alignment unit



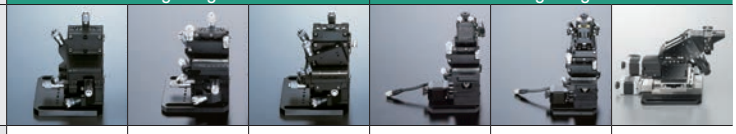
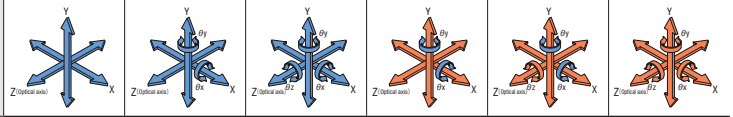
Jump to the configuration products page after referring to the right section.

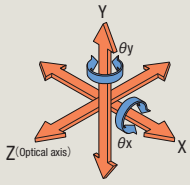
■Automated alignment system

Alignment system
P.4-061



Select the alignment axis (Stage unit)

	Alignment components (Stage Unit)					
	Manual stage alignment unit			Motorized stage alignment unit		
Appearance						
Specification						
The page for guidance	P.4-011					

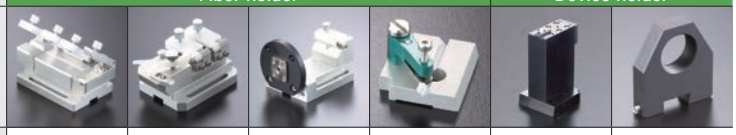
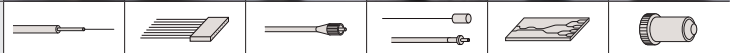


RED:Automatic axis
BLUE:Manual axis

※It is called the Z-axis to optical axis direction in a stage unit.
※No axis notation when there are not stages on a unit.

※We have various stages as well as the following. (P.4-011)

Select the holder to a fiber device

	Alignment components (Holder)					
	Fiber holder				Device holder	
Appearance						
Uses						
The page for guidance	P.4-013				P.4-015	

※We have various holders as well as the following. (P.4-013)

Select the peripherals

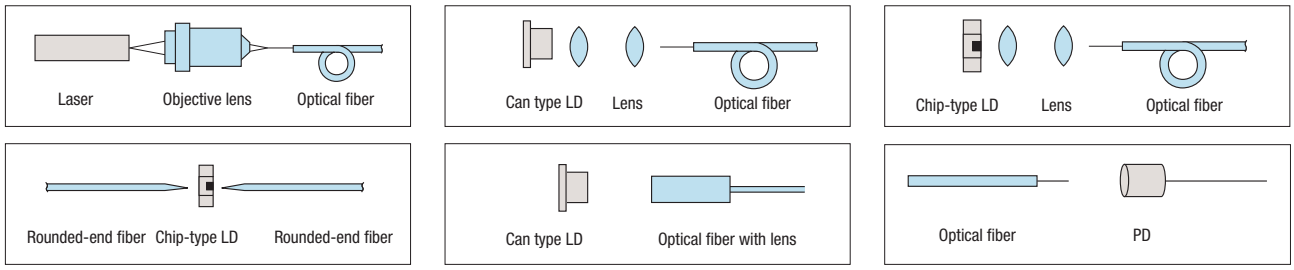
	Alignment accessory							
	Microscope/Mirror tube	Monitoring unit	CCD camera	Monitor	Lighting	UV light source	Vaccum pump	Probe unit
Appearance								
Uses	For general monitorings	external monitoring	For general monitorings	For general monitorings	For general monitorings	UV adhesive	device adsorbing	Probing
The page for guidance	P.4-043							

LD/PD Alignment (Active device alignment) Configuration Guides

Provide each unit which configurated a device as a standard model.

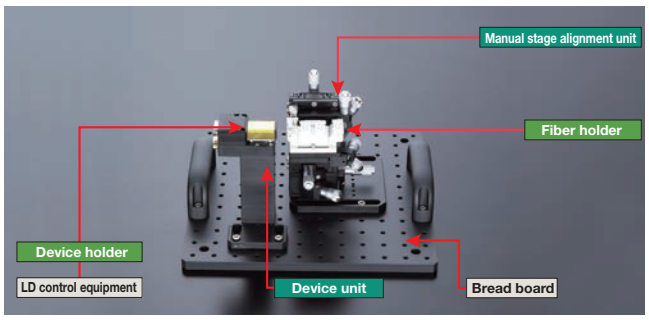
●Applications

Active device alignment has various combination of fibers, lenses, or lasers

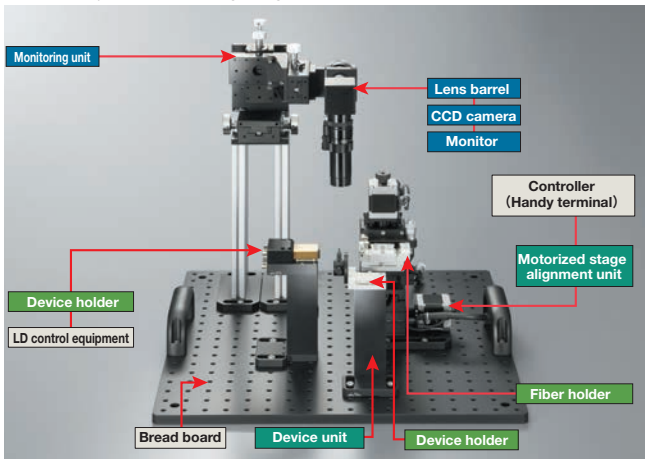


●Configuration example

■Example): Manual stage alignment unit



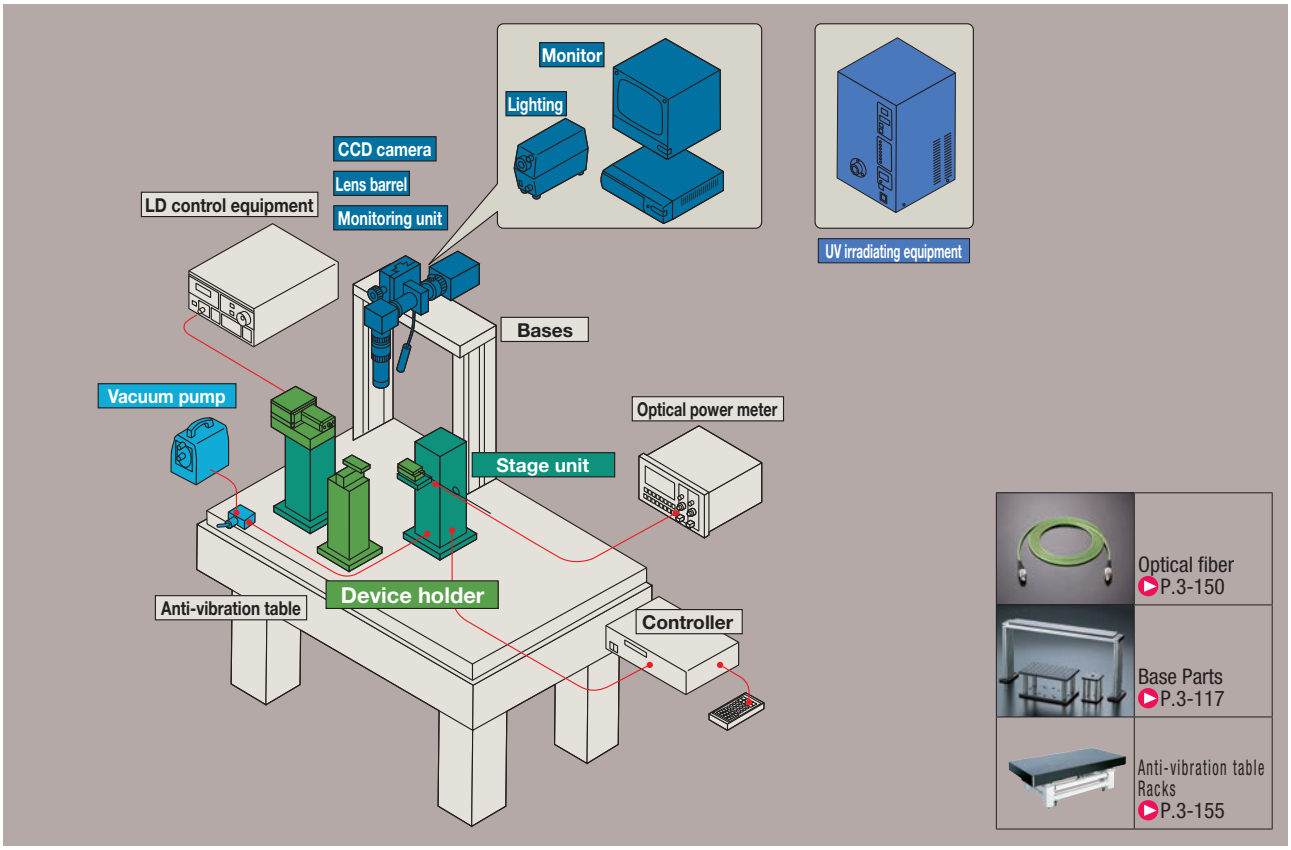
■Example): Motorized stage alignment unit



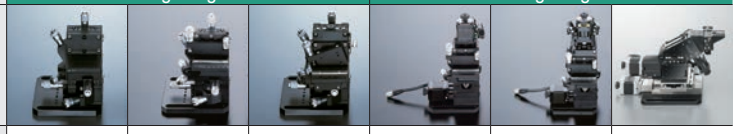
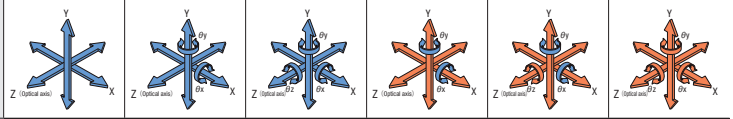
Jump to the configuration products page after referring to the right section.

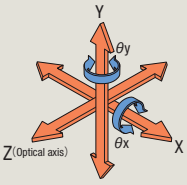
■Automated alignment systems

Alignment system
P.4-061



Select the alignment axis (Stage unit)

	Alignment components (Stage Unit)					
	Manual stage alignment unit			Motorized stage alignment unit		
Appearance						
Specification						
The page for guidance	P.4-011					



RED:Automatic axis
BLUE:Manual axis

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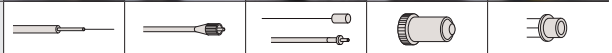
Select the holder to a fiber device

	Alignment components (Holder)				
	Fiber holder			Device holder	
Appearance					
Uses					
The page for guidance	P.4-013			P.4-015	

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Select the peripherals

	Alignment accessory							
	Microscope/Mirror tube	Monitoring unit	CCD camera	Monitor	Lighting	UV light source	Vacuum pump	Probe unit
Appearance								
Uses	For general monitorings	External monitoring	For general monitorings	For general monitorings	For general monitorings	UV adhesive	device adsorbing	Probing
The page for guidance	P.4-043							