

## 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



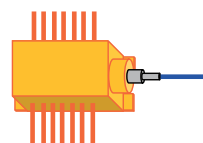
LN modulator



Variable wavelength light source



LD/PD



EO modulator

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

# Suruga Seiki Alignment System

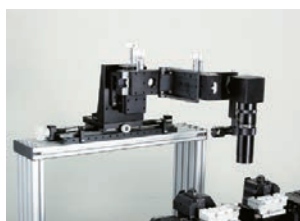
## Alignment Components (Stage Units and Device Holders)

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



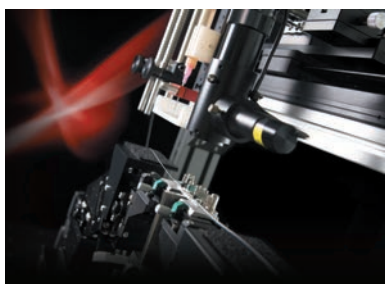
## Accessory (Peripherals)

- 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)

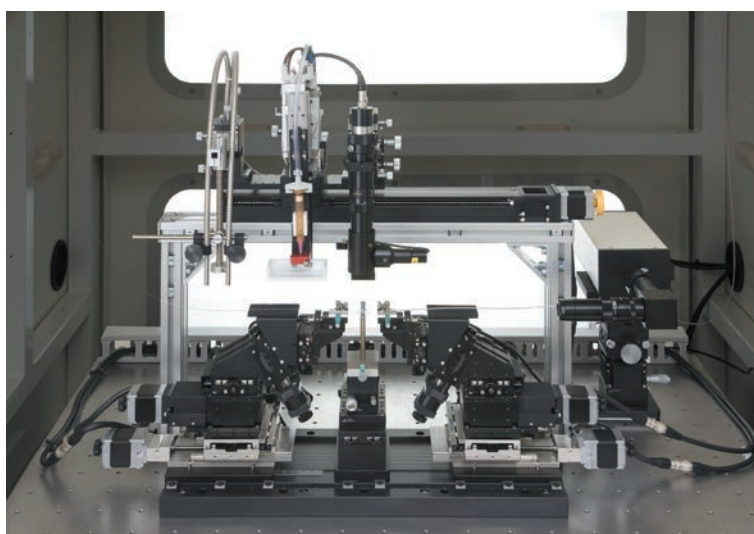
- Variety of alignment system is available for R&D, Inspection, and Mass Production purpose.
- Alignment system includes Suruga own developing software which has high performance for the axis and components control.
- The most alignment system designs by customization to meet customer's requirements.



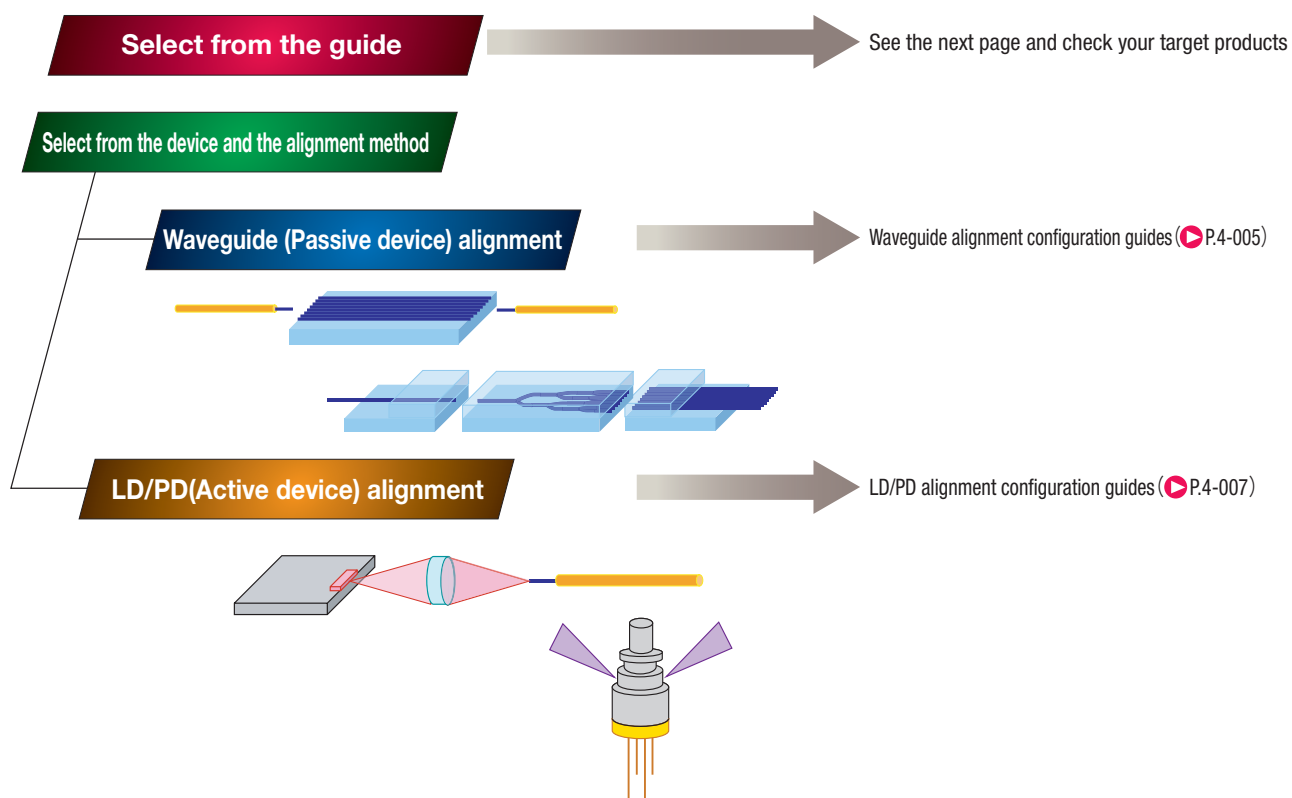
## Suruga Seiki Alignment System

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



## Guidance

WG alignment

LD/PD alignment

Alignment components

Manual alignment unit

Motorized alignment unit

Device unit

Fiber holders

Device holders

Adaptors

Contact sensing meter

Accessories for alignment

Stereomicroscope

Lens tube

Monitoring unit

CCD camera

Monitor

Lighting

UV equipment

Pump

Probe

Alignment system

Alignment controller

WG alignment

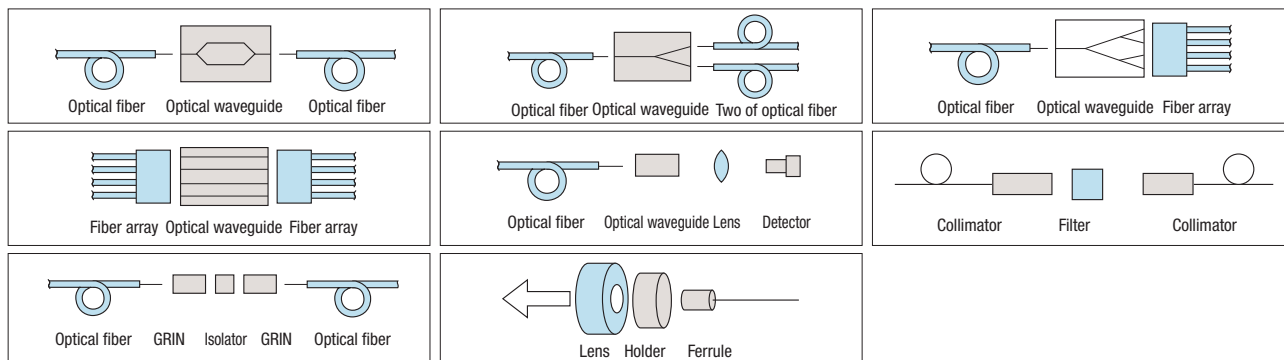
LD/PD alignment

## Waveguide Alignment (Passive Device Alignment) Configuration Guides

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

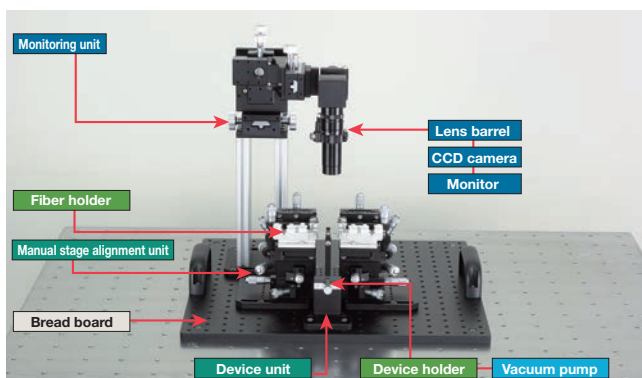
### ● Applications

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

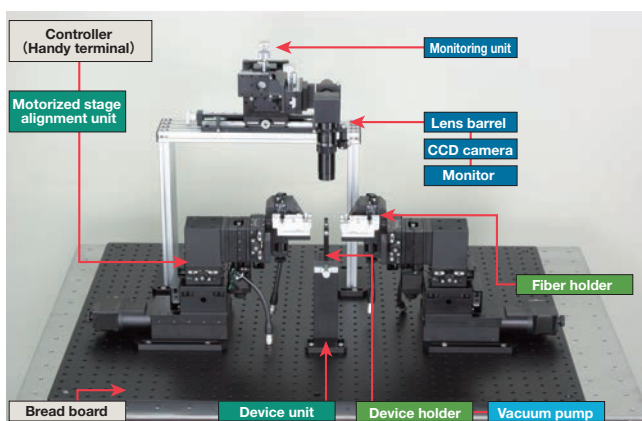


### ● Configuration example

#### ■ Example): Manual stage alignment unit



#### ■ Example): Motorized stage alignment unit



#### ■ Automated alignment system



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

Alignment system  
P.4-061



Guidance

WG alignment

LD/PD alignment

Alignment components

Manual alignment unit

Motorized alignment unit

Device unit

Fiber holders

Device holders

Adaptors

Contact sensing meter

Accessories for alignment

Stereomicroscope

Lens tube

Monitoring unit

CCD camera

Monitor

Lighting

UV equipment

Pump

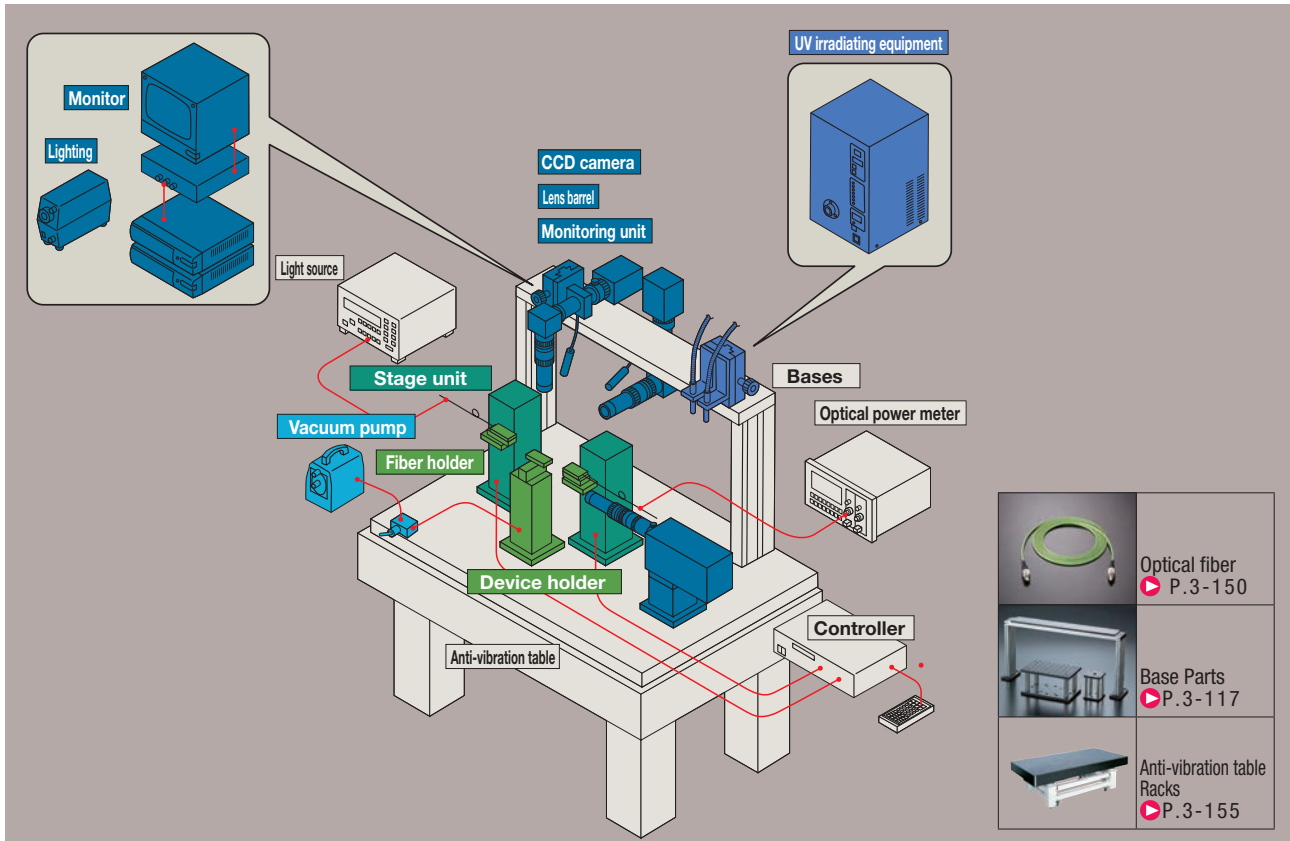
Probe

Alignment system

Alignment controller

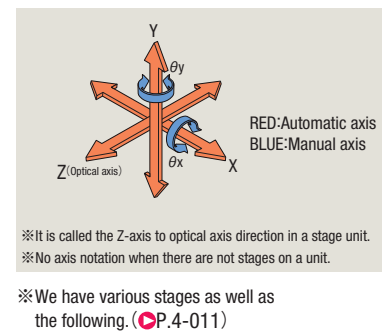
WG alignment

LD/PD alignment



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					



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

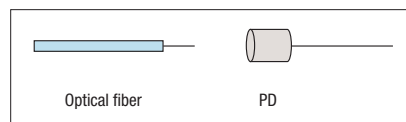
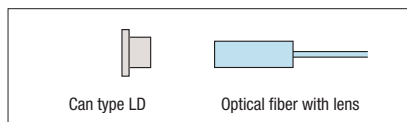
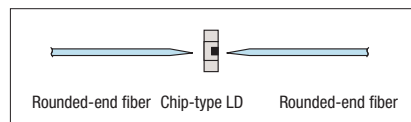
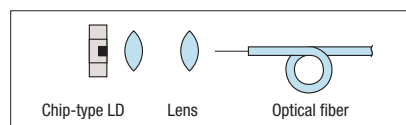
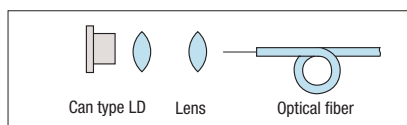
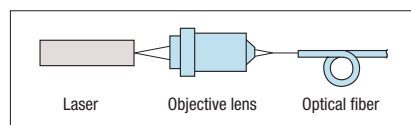
	Alignment accessory							
	Microscope/Mirror tube	Monitoring unit	CCD camera	Monitor	Lighting	UV light source	Vacuum pump	Probe unit
Appearance								
Uses	For general monitorings	external monitoring	For general monitorings	For general monitorings	For general monitorings	UV adhesive	device adsorbing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

## LD/PD Alignment (Active device alignment) Configuration Guides

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

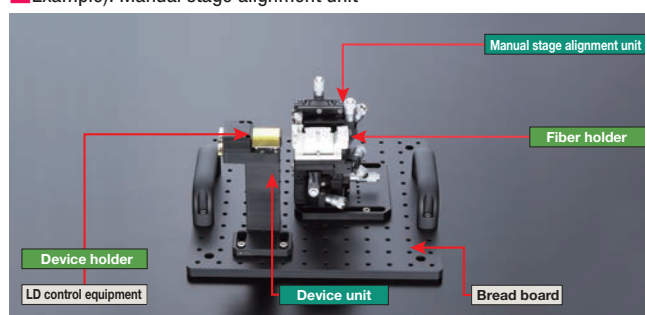
### ● Applications

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

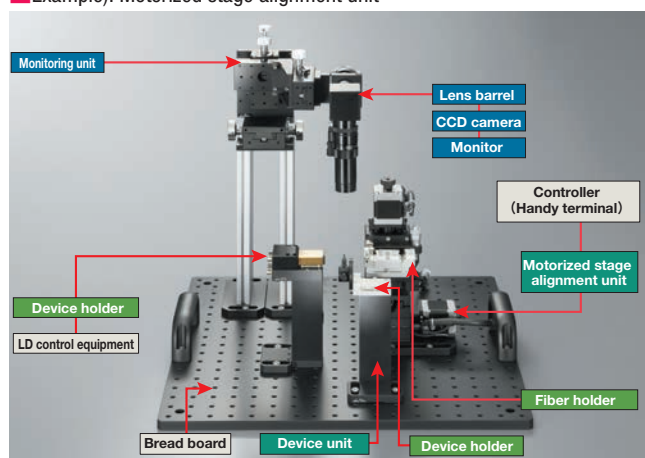


### ● Configuration example

#### ■ 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

Guidance

WG alignment

LD/PD alignment

Alignment components

Manual alignment unit

Motorized alignment unit

Device unit

Fiber holders

Device holders

Adaptors

Contact sensing meter

Accessories for alignment

Stereomicroscope

Lens tube

Monitoring unit

CCD camera

Monitor

Lighting

UV equipment

Pump

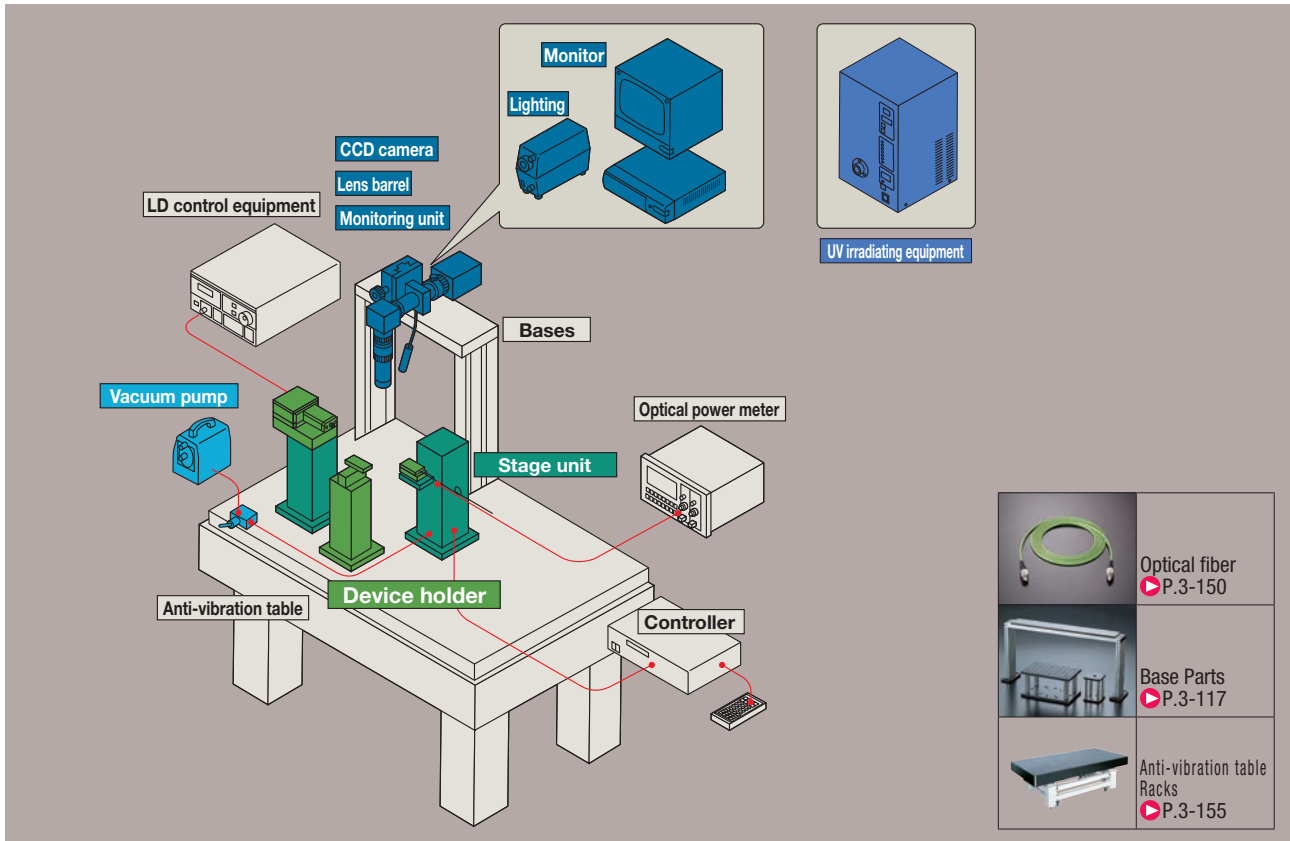
Probe

Alignment system

Alignment controller

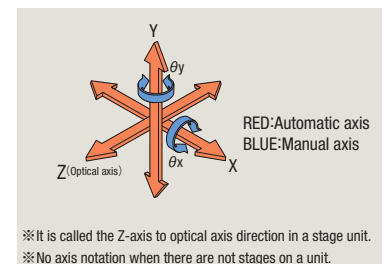
WG alignment

LD/PD alignment



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					



※ 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	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							