Instructions

U-DO3 / U-SDO3 / U-MDOB3 / U-MDO10R3 Discussion attachments

For 2, 5, 9, 10 and 13 persons

To ensure safety, obtain optimum performance and to familiarize yourself fully with the use of this product, we recommend that you study this manual thoroughly before operating this product, and always keep this manual reachable when operating this product. For details of products included in the configuration of this system, see page 7 and 10 of this instruction manual.

Optical microscope accessory

This product is applied with the requirements of standard IEC/EN61326-1 concerning electromagnetic compatibility.

- Immunity Industrial and basic electromagnetic environment

Emissions exceeding the level required by aforementioned standards may occur if this product is electrically connected to other equipment.



In accordance with European Directive on Waste Electrical and Electronic Equipment, this symbol indicates that the product must not be disposed of as unsorted municipal waste, but should be collected separately.

Refer to your local our distributor in EU for return and/or collection systems available in your country.

NOTE: This product has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the product is operated in a commercial environment. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this product in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the product.

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Introduction

This system is a discussion attachment used together with the BX series microscope. Eyepieces, objectives or condensers, etc. used together with this system should be applied to UIS2 (or UIS) optical system series.

Instruction manual

This document is an instruction manual for discussion attachment. Read the instruction manual for microscope together with this instruction manual.

Safety precautions

If the product is used in a manner not specified by this manual, the safety of the user may be imperiled. In addition, the product may also be damaged. Always use the product according to this instruction manual.

The following symbols are used in this instruction manual.
 Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
 Indicates a potentially hazardous situation which, if not avoided, may result in damage to the product or other property and/or may cause problems.
 Indicates the useful knowledge or information for use.

A CAUTION - Installation of the product -

Install the product on a sturdy and level desk.

With this system, the product is installed on the multiple desks which are arranged side by side. All desks must be sturdy and level. Also, take proper measures to fix the desks to avoid them from moving.

A CAUTION - Electric safety -

Always use the power cord provided by us.

If the proper AC adapter and the power cord are not used, the electric safety and the EMC (Electro-Magnetic Compatibility) performance of the product cannot be assured. If no power cord is provided, please select the proper power cord by referring to the section "Proper selection of the power cord" at the end of this instruction manual.

Always connect the ground terminal.

Connect the ground terminal of the power cord and that of the power outlet. If the product is not grounded, our intended electric safety and EMC performance of the product cannot be assured.

Do not use the product in close proximity to the sources of strong electromagnetic radiation.

Proper operation may be interfered. The electromagnetic environment should be evaluated prior to operation of the product.

Disconnect the power cord in case of emergency.

In case of emergency, be sure to unplug the power cord from the power cord connector on the product or from the wall power outlet. Install the product at the location where you can reach the power cord connector or the power outlet at hand to disconnect the power cord quickly.

Do not connect or disconnect the power cord, cables and units while the power is on.

CAUTION - Prevention of electric shock -

Keep the power cord and cables well away from the lamp housing.

If the power cord and cables contact a hot area of the lamp housing, they could melt and cause electric shock.

Do not touch the product with wet hands.

In particular, if you touch the main switch of the power unit or the power cord with a wet hand, electric shock, ignition or failure of the product may be caused.

A CAUTION - Safety symbols -

The following symbols are placed on this product.

Study the meaning of the symbols and always use the product in the safest possible manner.

Symbols Meaning		
15V0.2A ⊕- ⊕ -⊖	Supply DC current (from the provided AC adapter).	
(Φ)	Indicates an input jack.	
-`Ų(-	Indicates a pointer.	

Handling Precautions

- NOTE) This product is a precision instrument. Handle it with care and avoid subjecting it to a sudden or severe impact.
 - Never disassemble any part of the product. Otherwise, failure may result.
 - Do not use the product in areas where it may be subjected to direct sunlight, high temperature and/or humidity, dust or vibrations.

For the conditions of operating environments, see "4 Specifications" (page 15).

- 1. If this system is combined with a super widefield eyepiece, the pointer cannot be moved around the entire range of the field of view. Also, a ghost of the pointer may be observed.
- 2. If the eyepiece is equipped with a micrometer, a ghost of the pointer may be observed.
- 3. To prevent the stray light:
 - Cover the eyepieces which are not used by the assistant observers with the provided stray light prevention covers (page 11, page 14).
 - Make sure to attach caps to the unused tube mounts and side viewer mounts.
- 4. To ensure safety, disconnect the power plug of the AC adapter from the power outlet after use.
- 5. Using the provided cord stopper (page 31), place the AC adapter cord at the position where it does not come in the way of microscope operation and take care not to bring the cord in contact with the lamp housing.
- 6. If the reflected light illuminator is combined, these observation attachments cannot be combined.

Maintenance and storage

 Do not leave stains or fingerprints on the lenses or filters. If they get dirty, blow away dust with a commercially available blower and gently wipe the lens or filter with a piece of cleaning paper (or clean gauze).
 Only when cleaning fingerprints and oil stains, slightly moisten a piece of cleaning paper with commercially available absolute alcohol and wipe them off with it.

ACAUTION Since the absolute alcohol is highly flammable, it must be handled carefully. Be sure to keep it away from open flames or potential sources of electrical sparks. For example, the electrical equipment that is switched on and off may cause the ignition of a fire. Also, always use the absolute alcohol only in a well-ventilated room.

2. Wipe the portions other than lenses with a dry soft cloth. If the dirt cannot be removed by dry-wiping, moisten a soft cloth with diluted neutral detergent and wipe the dirty surface with it.

(NOTE) Do not use the organic solvents because they may deteriorate the coated surface or plastic parts.

- 3. After using this product, set the main switch to **O** (OFF), wait until the lamp housing is cooled down sufficiently, and keep it covered with a dust cover during storage.
- 4. When disposing of this product, follow the regulations and rules of your local government. Contact us for any questions.

Configuration of the discussion system and orientation of observed images

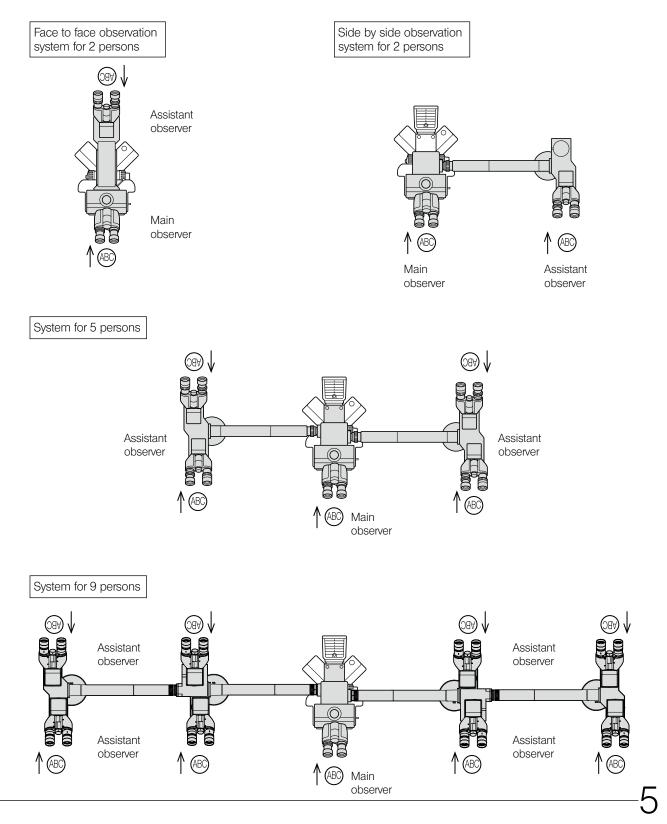
The following illustration shows the top view of the discussion system.

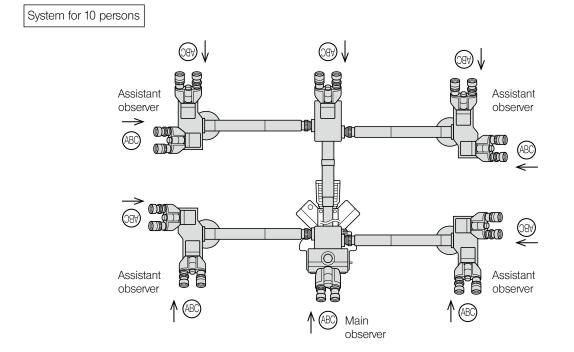
 ψ expresses the orientation of the line of sight of the observer.

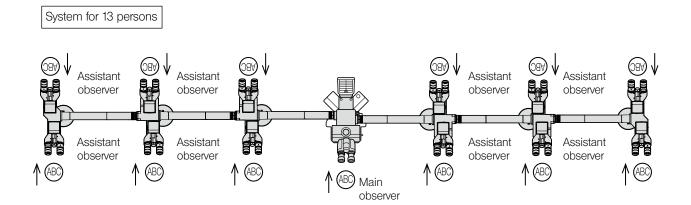
(ABO) expresses the orientation of the image observed through each eyepieces.



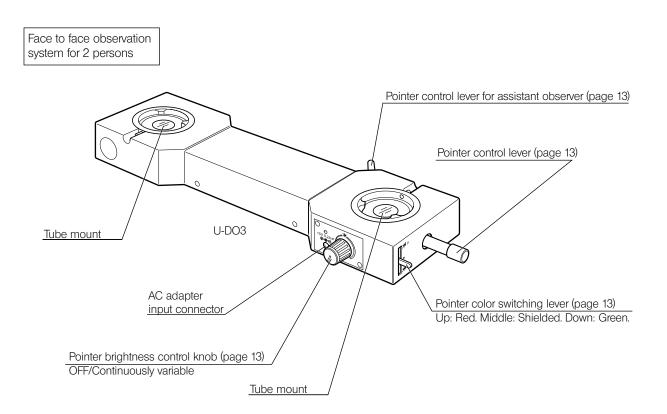
If the observation tubes are not attached in the orientation as shown in the illustration, the orientation of the image rotates.

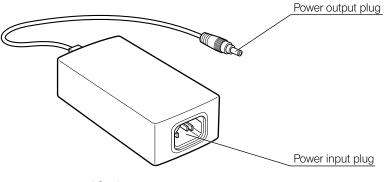




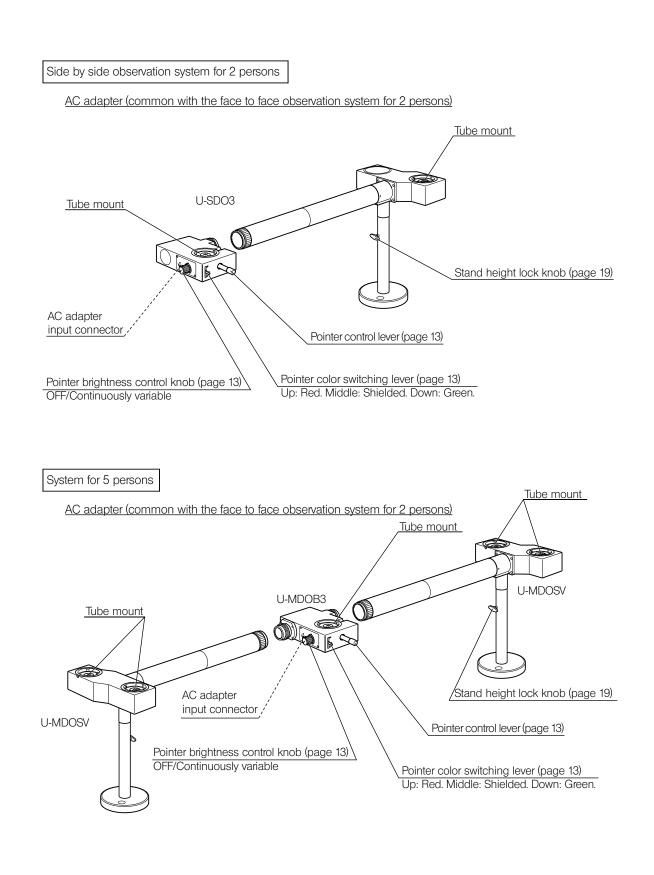


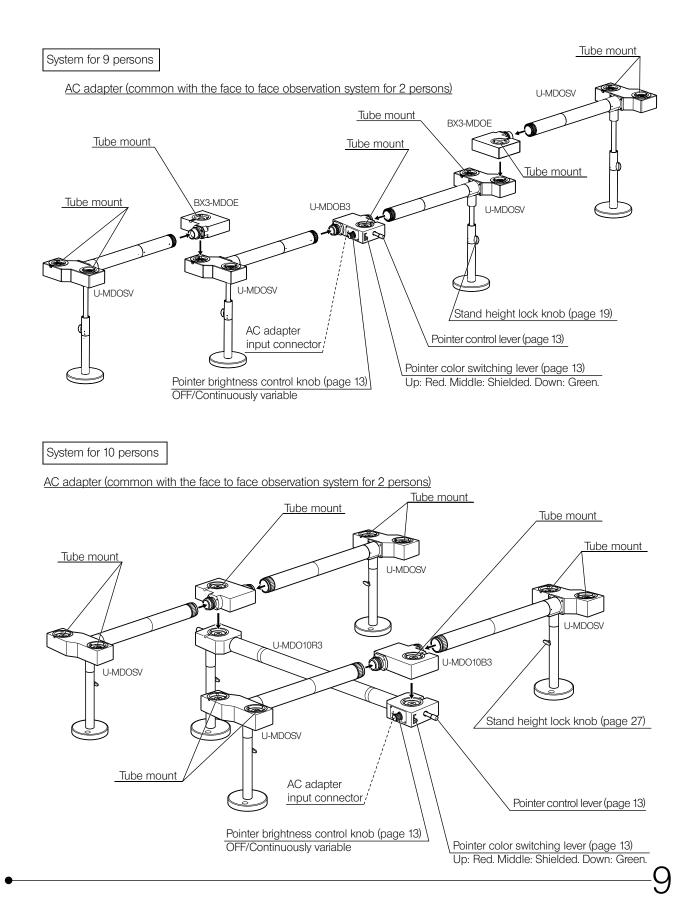
2 Nomenclature of units and functions



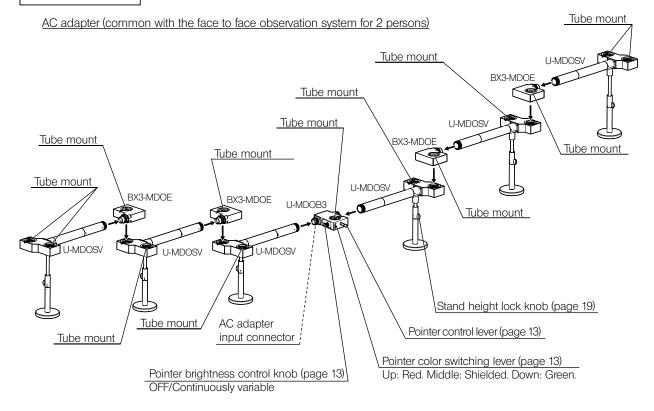


AC adapter



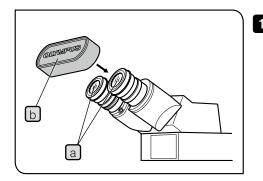


System for 13 persons



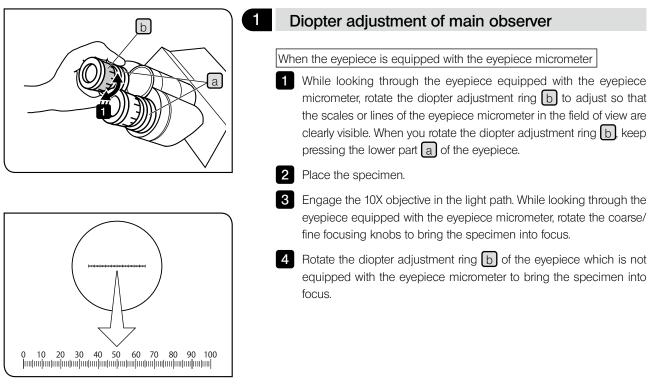
3 Operation

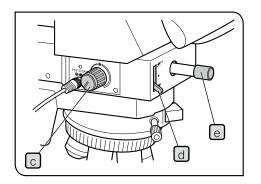
3-1 Using the stray light prevention cover



1 Cover the eyepieces a which are not used by the assistant observers with the provided stray light prevention covers b.

3-2 Diopter adjustment

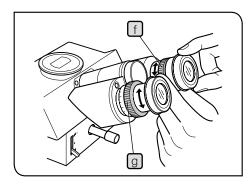




When the eyepiece is not equipped with the eyepiece micrometer

1 Rotate the pointer brightness control knob c of the discussion attachment in the clockwise direction to turn ON the pointer (A).

2 Set the pointer color switching lever d to the Down position (G). At this time, if the pointer cannot be observed in the field of view, move the pointer to the center of the field of view using the pointer control lever e.



3 Rotate the diopter adjustment ring **f** of the right eyepiece to bring the pointer into focus.

4 Rotate the interpupillary distance adjustment ring g of the left eyepiece sleeve to bring the pointer into focus.

5 Set the pointer color switching lever d to the Up position (R), and make sure that the pointer is into focus or not. When it is not into focus, perform 3 and 4 repeatedly at both positions of the pointer color switching lever d to bring the both pointers, red and green, into focus.

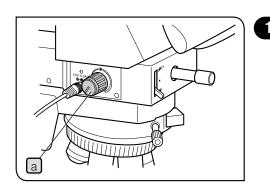
6 Place the specimen and rotate the coarse/fine focusing knobs to bring the specimen into focus.

2

Diopter adjustment of assistant observer

Perform the same operation as "Diopter adjustment of main observer". If the eyepiece is not equipped with the eyepiece micrometer, turn ON the pointer (\uparrow) and bring the specimen into focus at the main observer position.

3-3 Pointer operation



Adjusting the pointer brightness

TIP

2

3

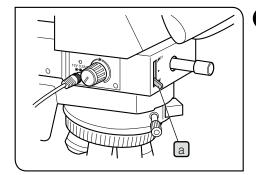
TIP

The brightness adjustment range for the pointer of this product is set to support a dark specimen (e.g. specimen for fluorescence observation).

For this reason, when observing a bright specimen (e.g. specimen for brightfield observation), you may feel it difficult to identify the pointer unless rotating the brightness control knob to the maximum, but this is not a failure of this product.

1 Rotating the brightness control knob a of the pointer in clockwise direction makes the pointer brighter continuously.

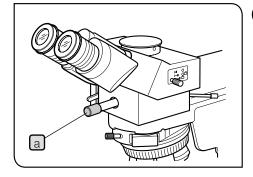
2 Rotating the brightness control knob a in counterclockwise direction until it stops turns OFF the pointer.



Selecting the pointer color

1 Using the pointer color switching lever a select a pointer color which is clearly distinguishable from the color of the observed image.

- Up position: Red
- Middle position: Shielded
- Down position: Green



Moving the pointer

1 The main observer operates the pointer control lever a on the front of the discussion attachment to move the pointer to the desired position in the field of view.

Turn OFF the pointer when not in use. (For procedures to turn OFF the pointer, see 2 in "Adjusting the pointer brightness".) If you do not want to display the pointer in the field of view during observation temporarily, move it away from the field of view or set the pointer color switching lever to the middle position.

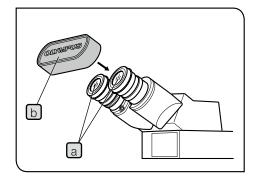
3-4 Notes for image acquisition

This section describes special considerations for image acquisition in combination with discussion attachments.

- When combining the camera, attach the trinocular tube at the main observer position and attach the camera via camera adapter.
- If the pointer is in the metering area, the exposure during image acquisition may be affected. Refer to the instruction manual for camera in use and set the appropriate exposure time.
- If eyepieces at assistant observer positions are not covered with stray light prevention covers, the stray light entered from eyepieces may appear on the image. During image acquisition, cover the eyepieces a at assistant observer positions with stray light prevention covers b.

You can acquire the image showing the pointer ($\mathbf{\hat{f}}$) on the specimen.

TIP





ltem	Specification
Maximum number of observers	2 persons (face to face observation), 2 persons (side by side observation), 5 persons, 9 persons , 10 persons and 13 persons.
Magnification of observation tube	1X
Orientation of observed image	When using the same type of observation tube, orientations of images observed by all observers are identical. Note, only with the system for 10 persons, four observers observe 90° rotated images.
Maximum field number	22
Pointer color	3 steps switchable (Up: Red. Middle: Shielded. Down: Green.)
Pointer movement	Joystick control (only with the face to face observation system for 2 persons, both main and assistant observers can operate thee pointer.)
Pointer power supply	AC adapter Rated Input: 100-240 V ∼ 50/60 Hz 1.2 A (Max.) Output: 15 V == 3.34 A Pointer body Input: 15 V == 0.2 A
Pointer lifetime	Lifetime: Designed for 5,000 hours or longer
Operating environment	 Indoor use Altitude: Max. 2000 meters Ambient temperature: 5 to 40 °C (41 to 104 °F) Humidity: Max. 80% (31 °C or less) (without condensation) In case of over 31 °C (88 °F), the humidity in operating environment is decreased linearly through 70% at 34 °C (93 °F), 60% at 37 °C (99 °F), and to 50% at 40 °C (104 °F). Supply voltage fluctuation: ±10 % Pollution degree: 2 (in accordance with IEC60664-1) Installation (overvoltage) category: II (in accordance with IEC60664-1)



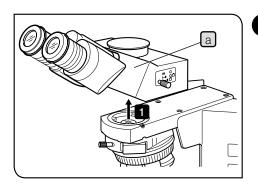
-----In order to deliver our intended performance, we recommend you to request us to assemble the system. Place each unit of the discussion system according to "1 Configuration of the discussion system and orientation of observed images" (page 5).



NOTE) Install each unit of the discussion system on the desk with the same height as much as possible.

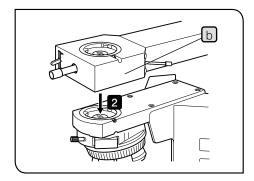
5-1 Face to face observation system for 2 persons

1

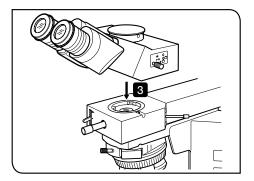


Attaching the observation attachment body

1 Remove the observation tube a of the microscope.

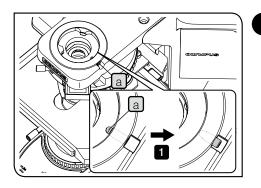


2 Attach the observation attachment body b to the microscope frame.



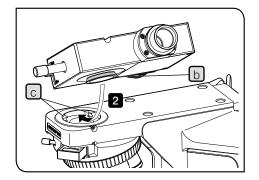
3 Attach the observation tube removed in 1 on top of the observation attachment body.

5-2 Side by side observation system for 2 persons and system for 5 persons

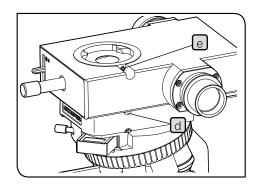


Attaching the observation attachment body

1 Loosen the clamping screw a of the standard arm (BX3-ARM) of the microscope until the clamping screw is not viewable from above (i.e. until there is no protrusion when touched with fingers).

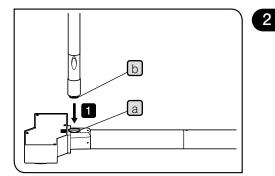


2 Insert the circular dovetail b of the observation attachment body under two protrusions c in the mount on the standard arm of the microscope.



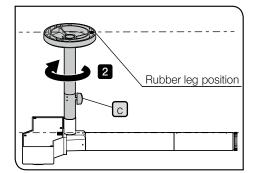
- **3** Tighten the clamping screw **d** of the standard arm to secure the standard arm firmly.

Attach the observation attachment body so that the clamping screw d of the standard arm of the microscope and the clamping screw e of the observation attachment body are aligned in one line perpendicularly.

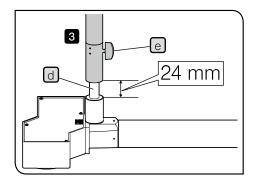


Attaching the stand

1 Place the side viewer on the desk upside down and screw the b portion of the stand into the mount screw hole a of the side viewer.

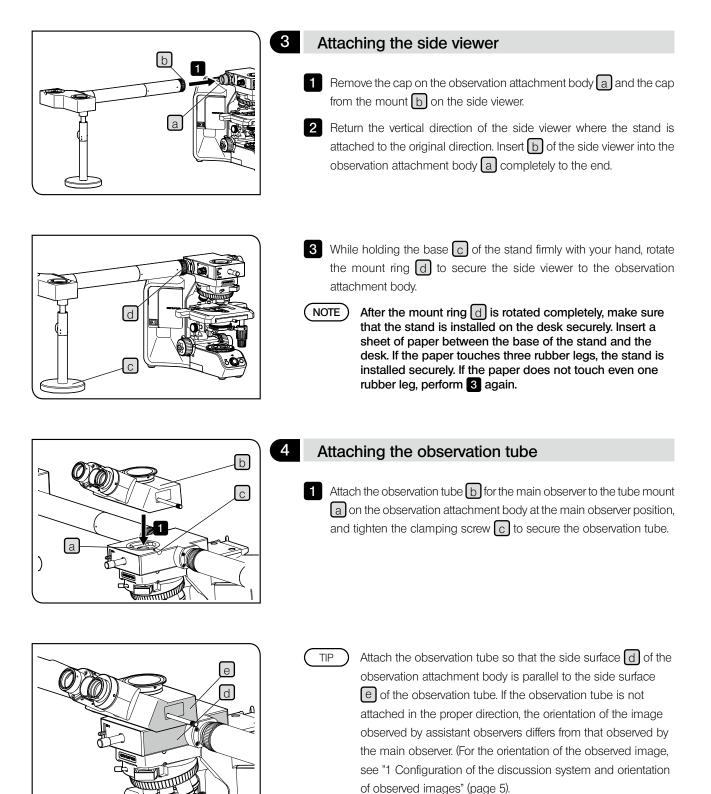


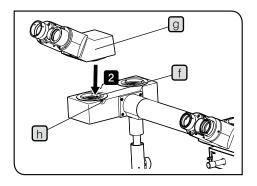
2 Loosen the stand height lock knob c. Rotate the portion shown in the picture and place one of three rubber legs attached to the back side of the base of the stand so that it is parallel to the tube of the side viewer as shown in the picture.



3 Move the portion shown in the picture up and down so that the d portion of the stand is 24 mm, and tighten the stand height lock knob e.

TIP If there is a difference in height between the desk top surface where the microscope frame is installed and the desk top surface where the side viewer is installed, adjust the length of the d portion of the stand. For example, if the height difference is 5 mm (if the desk top surface of the microscope frame is higher than the desk top surface of the side viewer), d will be 29 mm.





2 Attach the observation tube g for the assistant observer to the tube mount f on the side viewer, and tighten the clamping screw h to secure the observation tube.

TIP

Attach the observation tube so that the side surface i of the side viewer is parallel to the side surface i of the observation tube.

5

TIP

Attaching the eyepiece

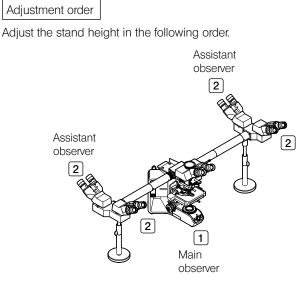
Procedures to attach eyepieces are same as those with normal microscopes.

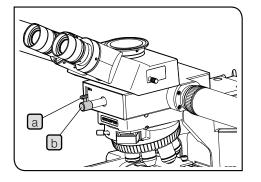
Combine observation tubes and eyepieces so that the diopter adjustment mechanism is equipped to light paths of both eyes of the main observer and assistant observers.

Main observer Assistant observer $() \mathbb{D}$ - 11 Eyepiece WHN10X Helicoid eyepiece WHN10X-H Binocular tube U-BI30-2 Helicoid eyepiece Binocular WHN10X-H tube $\square 0$ U-BI30-2 (0)Eyepiece WHN10X Eyepiece WHN10X Helicoid eyepiece WHN10X-H or CROSSWHN10X, Trinocular tube U-TR30-2 etc.

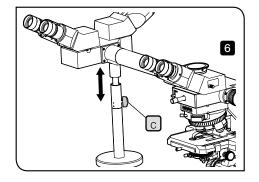
6

Adjusting the stand height





1 Look through the eyepieces at the main observer position 1 and display the pointer using the pointer color switching lever a. Use the pointer control lever b to move the pointer to the center of the field of view. (For detailed operating procedures of the pointer color switching lever and the pointer control lever, see "3-3 Pointer operation" (page 13).)



2 Look through the eyepieces at the assistant observer position 2. If there is a deviation in the displayed pointer position, adjust the stand height with the stand height lock knob c so that the pointer comes to the center of the field of view.

TIP

NOTE

Be sure to adjust the stand height.

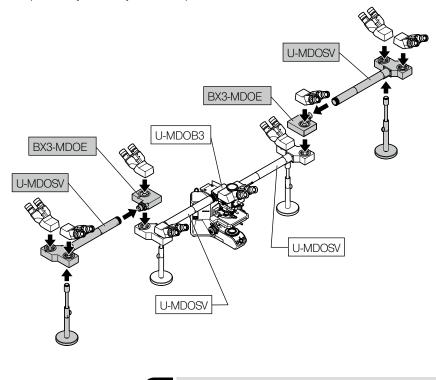
If the stand height is not adjusted, following phenomena may appear.

- The periphery areas of the field of view of the assistant observer are cut off.
- The deviation in the field of view occurs between the main observer and the assistant observer.
- The field of view of the assistant observer is colored.

The farther away from the center of the system you apply the force to the observation tube, the larger the force to be applied to the entire system becomes. Do not apply the excess force on the observation tube carelessly.

5-3 System for 9 persons

The procedures to assemble (white) areas (1 to 3 and 7 to 9) in the following diagram are same as "5-2 Side by side observation system for 2 persons and system for 5 persons". The procedures to assemble (gray) areas (4 to 6) are required only for the system for 9 persons.



Attaching U-MDOB3

See "Attaching the observation attachment body" in "5-2 Side by side observation system for 2 persons and system for 5 persons" (page 17).



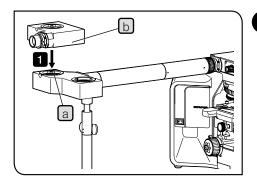
Attaching the stand

See "Attaching the stand" in "5-2 Side by side observation system for 2 persons and system for 5 persons" (page 18).



Attaching U-MDOSV

See "Attaching the side viewer" in "5-2 Side by side observation system for 2 persons and system for 5 persons" (page 19).

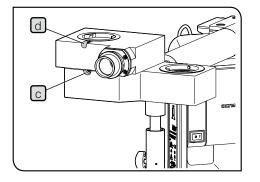


Attaching BX3-MDOE

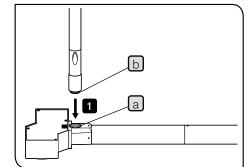
4

5

1 Attach BX3-MDOE b to the tube mount a on U-MDOSV.

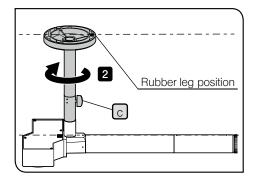


2 Tighten the clamping screw c to secure BX3-MDOE to U-MDOSV. Attach BX3-MDOE so that the clamping screw c of U-MDOSV and the clamping screw d of BX3-MDOE are aligned in one line perpendicularly.

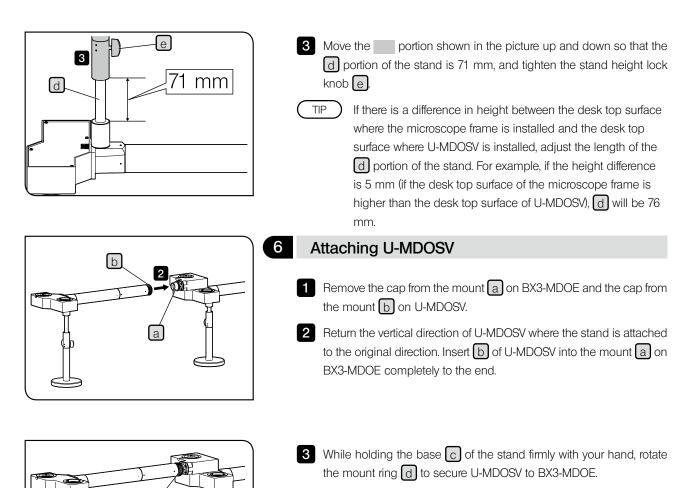


Attaching the stand

1 Place U-MDOSV on the desk upside down and screw the b portion of the stand into the mount screw hole a of U-MDOSV.



2 Loosen the stand height lock knob c. Rotate the portion shown in the picture and place one of three rubber legs attached to the back side of the base of the stand so that it is parallel to the tube of U-MDOSV as shown in the picture.



NOTE After the mount ring d is rotated completely, make sure that the stand is installed on the desk securely. Insert a sheet of paper between the base of the stand and the desk. If the paper touches three rubber legs, the stand is installed securely. If the paper does not touch even one rubber leg, perform 3 again.

7

Attaching the observation tube

See "Attaching the observation tube" in "5-2 Side by side observation system for 2 persons and system for 5 persons" (page 19). 8

Attaching the eyepiece

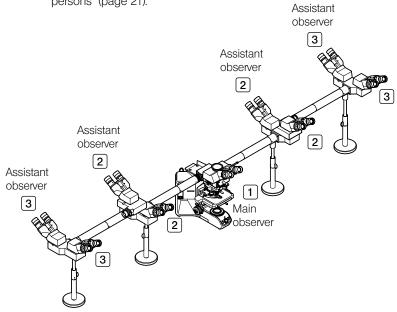
See "Attaching the eyepiece" in "5-2 Side by side observation system for 2 persons and system for 5 persons" (page 20).

9

Adjusting the stand height

Adjustment order

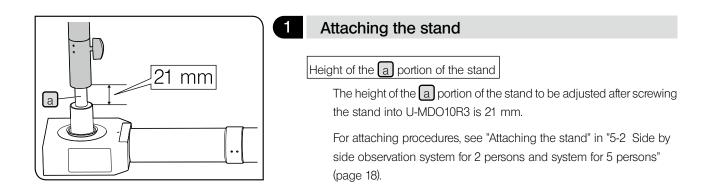
Adjust the stand height in the following order. For adjusting procedures, see "Adjusting the stand height" in "5-2 Side by side observation system for 2 persons and system for 5 persons" (page 21).



5-4 System for 10 persons



The large desk (1250 to $1400(W) \times 1100$ to 1250(D) mm) is required for assembling and operating this system. Prepare the sufficient installation space.

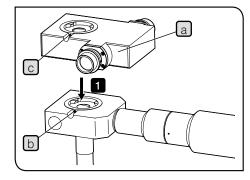


2

Attaching U-MDO10R3

Attach U-MDO10R3 to the microscope frame.

For attaching procedures, see "Attaching the observation attachment body" in "5-2 Side by side observation system for 2 persons and system for 5 persons" (page 17).



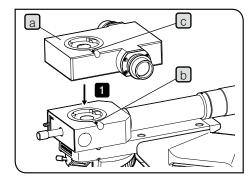
Attaching the light path split unit

3

4

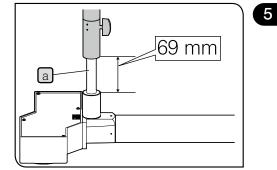
1 Attach the light path split unit a provided with U-MDO10R-3 to the top of U-MDO10R-3 (at assistant observer position), and tighten the clamping screw b to secure the light path split unit.

TIP Attach the light path split unit a so that the clamping screw b of U-MDO10R-3 and the clamping screw c of the light path split unit are aligned in one line perpendicularly.



Attaching U-MDO10B3

- 1 Attach U-MDO10B3 a on the top of U-MDO10R-3 (at main observer position) and tighten the clamping screw b to secure U-MDO10B3.
 - TIP Attach U-MDO10B3 a so that the clamping screw b of U-MDO10R-3 and the clamping screw c of U-MDO10B3 are aligned in one line perpendicularly.



Attaching the stand

TIP

6

Height of the a portion of the stand

The height of the a portion of the stand to be adjusted after screwing the stand into U-MDOSV is 69 mm.

If there is a difference in height between the desk top surface where the microscope frame is installed and the desk top surface where U-MDOSV is installed, adjust the length of the a portion of the stand. For example, if the height difference is 5 mm (if the desk top surface of the microscope frame is higher than the desk top surface to install U-MDOSV), a will be 74 mm.

For attaching procedures, see "Attaching the stand" in "5-2 Side by side observation system for 2 persons and system for 5 persons" (page 18).

Attaching U-MDOSV

See "Attaching the side viewer" in "5-2 Side by side observation system for 2 persons and system for 5 persons" (page 19).



Attaching the observation tube

See "Attaching the observation tube" in "5-2 Side by side observation system for 2 persons and system for 5 persons" (page 19).

8

Attaching the eyepiece

See "Attaching the eyepiece" in "5-2 Side by side observation system for 2 persons and system for 5 persons" (page 20).

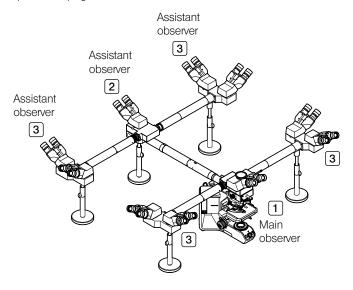


Adjusting the stand height

Adjustment order

Adjust the stand height in the following order.

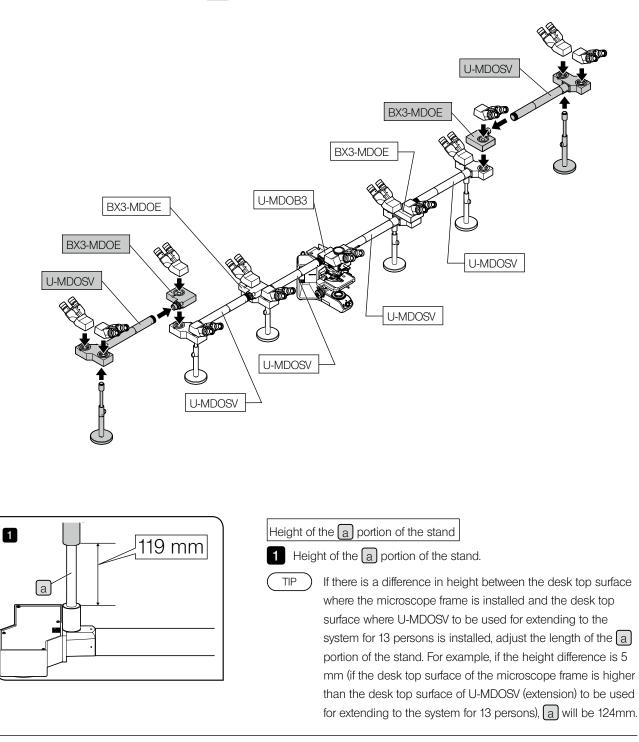
For adjusting procedures, see "Adjusting the stand height" in "5-2 Side by side observation system for 2 persons and system for 5 persons" (page 21).



5-5 Extending to the system for 13 persons

The units (gray) areas in the following diagram are BX3-MDOE and U-MDOSV. The system for 9 persons can be extended to the system for 13 persons by attaching BX3-MDOE and U-MDOSV to two positions in total. For assembling procedures, see "5-2 Side by side observation system for 2 persons and system for 5 persons" (page 17) and "5-3 System for 9 persons" (page 22).

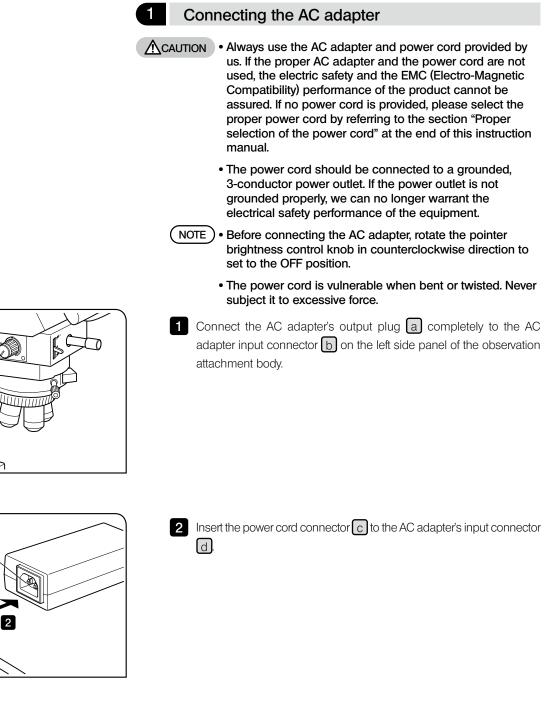
Concerning the stands assembled [[[gray]] areas in the following diagram, adjust the stand height written below.

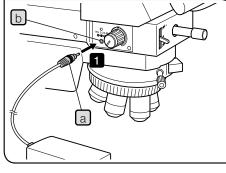


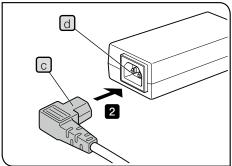
29

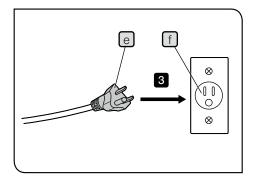
5-6 Attaching other units

This section describes attaching the common units for all systems and attaching the option unit.

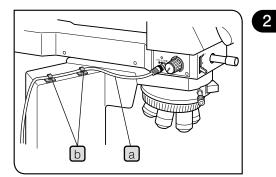






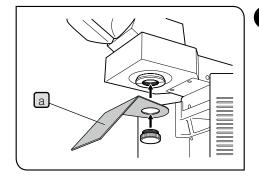


3 Connect the power cord's plug e to the power outlet f on the wall.



Attaching the cord stopper

To prevent the AC adapter cord a from getting in the way of microscope operation and from contacting the lamp housing, peel off the backing paper from the stickers of the provided cord stopper b (2 pcs.) and attach them. Be sure to clean the place to attach the cord stopper with absolute alcohol, etc. in advance.



3 At

Attaching the heat protection shield (Option)

When using the face to face observation system for 2 persons, if the heat from the lamp housing bothers observation, attach the optional heat protection shield (BH2-DO-HPS).

1 Attach the heat protection shield a to the screw hole under the assistant observer' position of the observation attachment body (U-DO3).

TIP) This screw hole will also be used for attaching the stand.

Proper selection of the power supply cord

If no power supply cord is provided, please select the proper power supply cord for the equipment by referring to "Specifications" and "Certified Cord" below:

Caution : In case you use a non-approved power supply cord for our products, we can no longer warrant the electrical safety of the equipment.

Specifications

Voltage rating Current rating	125 V AC (for 100-120 V AC area) or, 250 V AC (for 220-240 V AC area) 6 A minimum
Temperature rating	60 °C minimum
Length	3.05 m maximum
Fittings configuration	Grounding type attachment plug cap. Opposite terminates in molded-on IEC configuration appliance coupling.

Table 1 Certified cord

A power supply cord should be certified by one of the agencies listed in Table 1, or comprised of cordage marked with an agency marking per Table 1 or marked per Table 2. The fittings are to be marked with at least one of the agencies listed in Table 1. In case you are unable to buy locally the power supply cord which is approved by one of the agencies mentioned in Table 1, please use replacements approved by any other equivalent and authorized agencies in your country.

Country	Agency	Certification mark	Country	Agency	Certification mark
Argentina	IRAM		Italy	IMQ	۲
Australia	SAA	Ş a	Japan	JET, JQA,	PS E
Austria	ÖVE	®2	Netherlands	KEMA	Ki Ja
Belgium	CEBEC	6	Norway	NEMKO	N
Canada	CSA	€.	Spain	AEE	÷
Denmark	DEMKO	0	Sweden	SEMKO	\$
Finland	FEI	Ð	Switzerland	SEV	(†)
France	UTE	(i)	United Kingdom	ASTA BSI	````
Germany	VDE	Â	USA	UL	(E)
Ireland	NSAI	Æ			

Table 2 HAR flexible cord

Approval organizations and cordage harmonization marking methods

Approval organization	I organization Printed or embossed located on jacket or insulation of internal wiring)		Alternative marking utilizing black-red-yellow thread (Length of color section in mm)		
			Black	Red	Yellow
Comite Electrotechnique Belge (CEBEC)	CEBEC	<hr/> HAR>	10	30	10
Verband Deutscher Elektrotechniker (VDE) e.V. Prüfstelle	<vde></vde>	(HAR)	30	10	10
Union Technique de l'Electricite´ (UTE)	USE	(HAR)	30	10	30
Instituto Italiano del Marchio di Qualita´ (IMQ)	IEMMEQU	(HAR)	10	30	50
British Approvals Service for Electric Cables (BASEC)	BASEC	(HAR)	10	10	30
N.V. KEMA	KEMA-KEUR	(HAR)	10	30	30
SEMKO AB Svenska Elektriska Materielkontrollanstalter	SEMKO	(HAR)	10	10	50
Österreichischer Verband für Elektrotechnik (ÖVE)	(ÖVE)	(HAR)	30	10	50
Danmarks Elektriske Materialkontroll (DEMKO)	(DEMKO)	(HAR)	30	10	30
National Standards Authority of Ireland (NSAI)	(NSAI)	(HAR)	30	30	50
Norges Elektriske Materiellkontroll (NEMKO)	NEMKO	(HAR)	10	10	70
Asociacion Electrotecnica Y Electronica Espanola (AEE)	(UNED)	(HAR)	30	10	70
Hellenic Organization for Standardization (ELOT)	ELOT	(HAR)	30	30	70
Instituto Portages da Qualidade (IPQ)	np	(HAR)	10	10	90
Schweizerischer Elektro Technischer Verein (SEV)	SEV	(HAR)	10	30	90
Elektriska Inspektoratet	SETI	(HAR)	10	30	90
Lindonwriters Laboratoriae Inc. (LIL)					

Underwriters Laboratories Inc. (UL) Canadian Standards Association (CSA) SV, SVT, SJ or SJT, 3 X 18AWG SV, SVT, SJ or SJT, 3 X 18AWG

MEMO

- Manufactured by –

Evident Corporation

6666 Inatomi, Tatsuno-machi, Kamiina-gun, Nagano 399-0495, Japan

– Distributed by –

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Evident Europe GmbH – UK Branch

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Life science solutions

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