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Find the *Olympus U-PMTVC* at our website: ***Click HERE***

OLYMPUS®

INSTRUCTIONS

VIDEO/PHOTO ADAPTERS

This system employs a UIS2/UIS (Universal Infinity System) optical design, and should be used only with UIS2/UIS microscopes, eyepieces, objectives and condensers. Less than optimum performance may result if inappropriate accessories are used. To ensure the safety and obtain optimum performance and to familiarize yourself fully with the use of this microscope, we recommend that you study this manual thoroughly before operating the microscope. Retain this instruction manual in an easily accessible place near the work desk for future reference.



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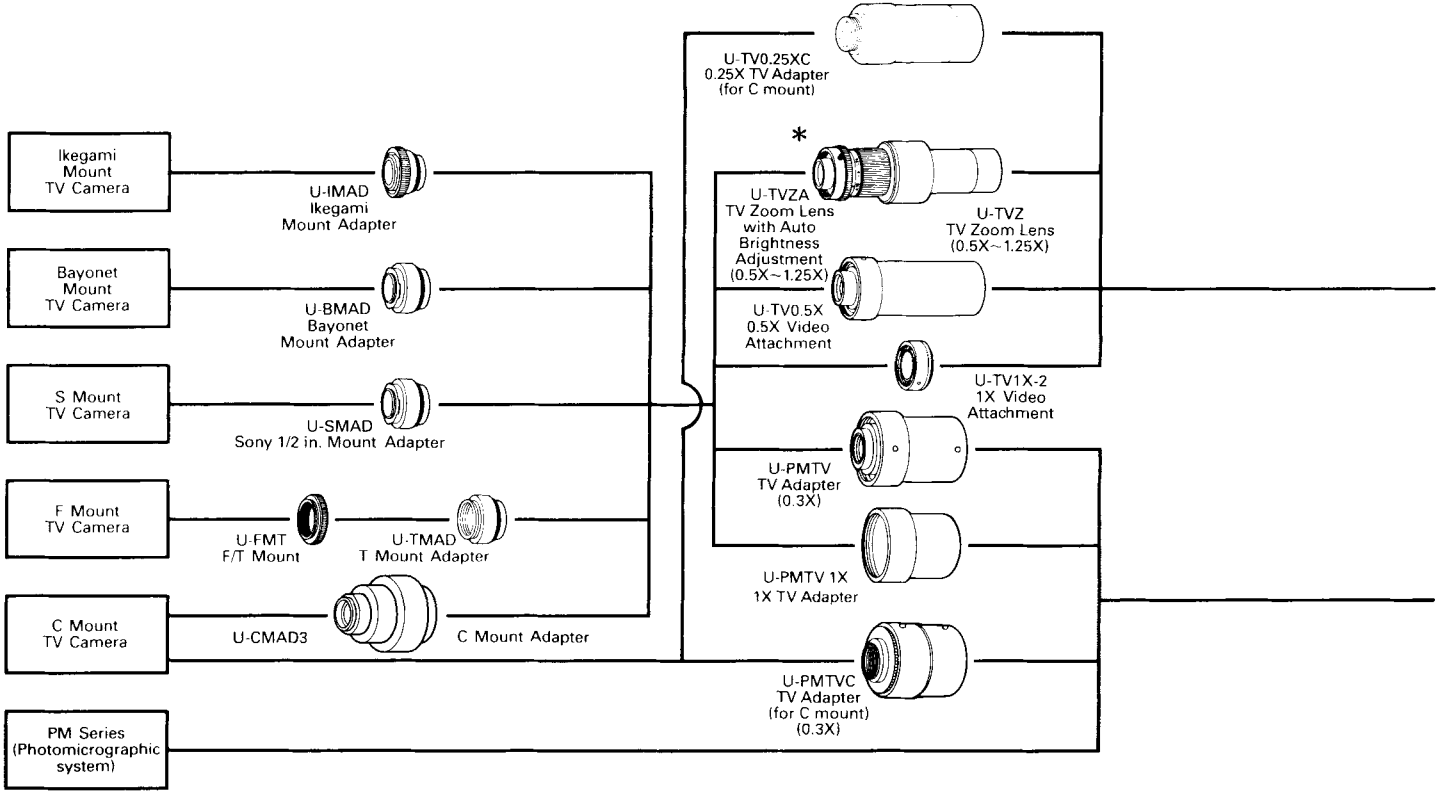
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1 TV SYSTEM

A variety of adapters are available for different TV cameras and observation magnifications, allowing a wide variety of options in TV observation or photographic work. (This TV system is for use with the UIS2/UIS (universal infinity system) series.)



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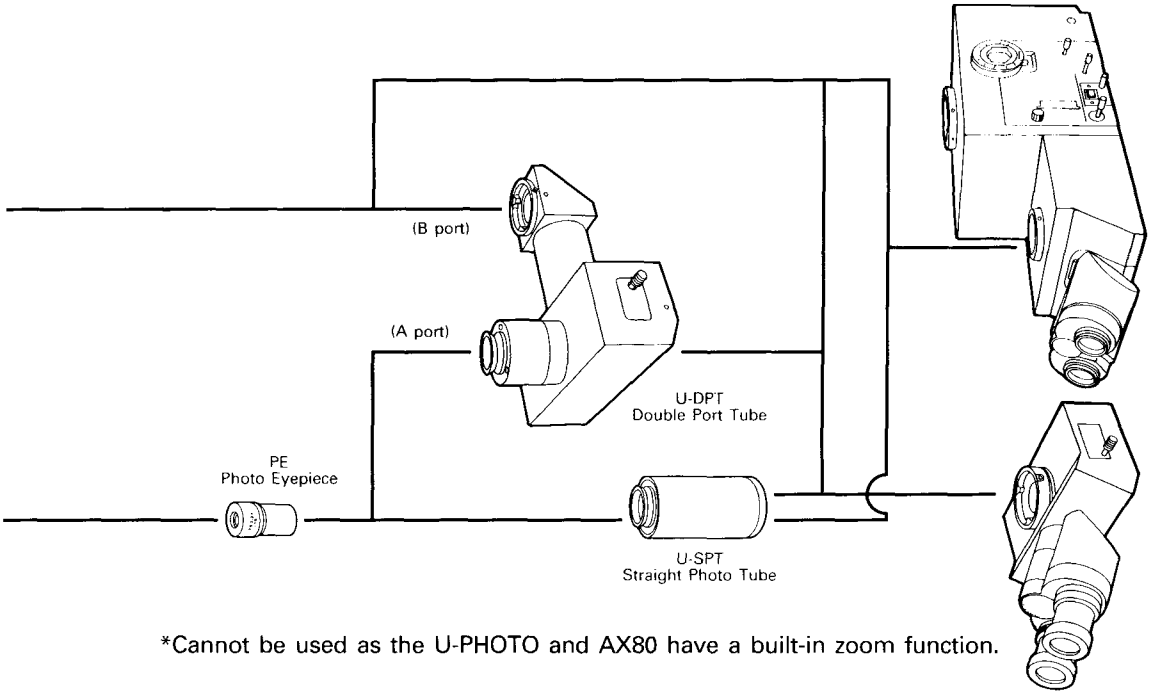


Photo Observation Tube
U-PHOTO

Photo Microscope
AX80

Super Widefield Erect Image Multi-port Observation Tube
U-MPH

Widefield Trinocular Tube
U-TR30-2

Widefield Tilting Trinocular Tube
U-TTR

Super Widefield Trinocular Tube
U-SWTR-3

Super Widefield Elect Image Trinocular Tube
U-SWETR

*Cannot be used as the U-PHOTO and AX80 have a built-in zoom function.

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2 MAGNIFICATION BY COMBINATIONS

Type	Magnification	Combination of Units	
Direct image*1	X1	1X Video Attachment	U-TV1X-2
		Mount adapter	Use any of the 5 types*3
0.25 magnification*1	X0.25	0.25X TV adapter (for C mount)	U-TV0.25XC (provided with C mount)
		Mount adapter	Not necessary
0.5 magnification*1	X0.5	0.5X Video Attachment	U-TV0.5X
		Mount adapter	Use any of the 5 types*3
Zoom lens*1	Zoom ratio 2.5 X0.5–X1.25	TV zoom lens or TV zoom lens with auto brightness adjustment	U-TVZ or U-TVZA
		Mount type	Use any of the 5 types*3
Photo eyepiece*2	X0.75	Straight Photo tube	U-SPT
		PE Photo eyepiece	PE2.5X
		TV adapter	U-PMTV or U-PMTVC (provided with C mount)
		Mount adapter	Use any of the 5 types*3
	X1	Straight Photo tube	U-SPT
		PE Photo eyepiece	PE3.3X
		TV adapter	U-PMTV or U-PMTVC (provided with C mount)
		Mount adapter	Use any of the 5 types*3

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Type	Magnification	Combination of Units	
Photo eyepiece*2	1.2X	Straight Photo tube	U-SPT
		PE Photo eyepiece	PE4X
		TV adapter	U-PMTV or U-PMTVC (provided with C mount)
		Mount adapter	Use any of the 5 types*3
	1.5X	Straight Photo tube	U-SPT
		PE Photo eyepiece	PE5X
		TV adapter	U-PMTV or U-PMTVC (provided with C mount)
		Mount adapter	Use any of the 5 types*3
	2.5X	Straight Photo tube	U-SPT
		PE Photo eyepiece	PE2.5X
		TV adapter	U-PMTV1X
		Mount adapter	Use any of the 5 types*3
	3.3X	Straight Photo tube	U-SPT
		PE Photo eyepiece	PE3.3X
		TV adapter	U-PMTV1X
		Mount adapter	Use any of the 5 types*3
	4X	Straight Photo tube	U-SPT
		PE Photo eyepiece	PE4X
		TV adapter	U-PMTV1X
		Mount adapter	Use any of the 5 types*3

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Type		Magnification	Combination of Units	
Photo eyepiece*2		X5	Straight Photo tube	U-SPT
			PE Photo eyepiece	PE5X
			TV adapter	U-PMTV1X
			Mount adapter	Use any of the 5 types*3
Double port	A port	Same magnification as required unit	Double port tube (U-DPT) and required unit*2 [Apart from the straight photo tube (U-SPT)]	
	B port		Double port tube (U-DPT) and required unit*1	

◎ At a magnification of 0.5X, using a 2/3 inch TV camera, a field-of-view number 22 diagonal image can be observed.

*3: Use any of the mount adapters U-CMAD3, U-IMAD, U-BMAD, U-SMAD, U-TMAD+U-FMT. However, when using the U-TV0.25XC or U-PMTVC, a mount adapter is not necessary because it is directly connected to a C mount TV camera.

$$\text{Magnification on monitor} = \frac{\text{Objective magnification} \times \text{TV system magnification} \times \text{Monitor diagonal length*}}{\text{CCD diagonal length*}}$$

*Differs depending on the manufacturer.
CCD reference: 1 in. TV camera → 16.16 mm, 2/3 in. TV camera → 11mm, 1/2 in. TV camera → 8.08 mm, 1/3 in. TV camera → 6 mm, 1/4 in. TV camera → 4 mm

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3 ASSEMBLY

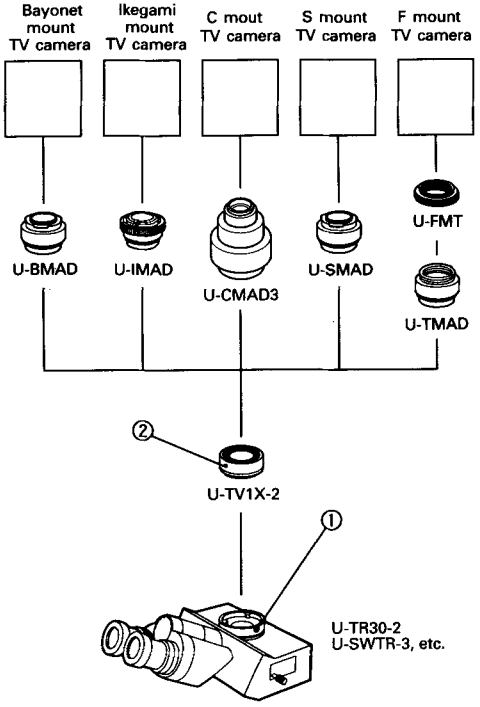


Fig. 1

1 Direct Image Type (Fig. 1)

1. Mount the direct image type video attachment (U-TV1X-2).
   - Using the Allen (hex) driver provided with the microscope frame, fully loosen the trinocular tube clamping screw ①.
   - Insert the U-TV1X-2's dovetail mount into the mounting fixture on the trinocular tube.
   - Secure by tightening the trinocular tube's clamping screw ① with the Allen (hex) driver.
2. Mount the mount adapter (U-BMAD, or any of the four other types).
   - Using the Allen (hex) driver, fully loosen the clamping screw ② on the direct image adapter (U-TV1X-2).
   - Carefully insert the mount adapter, twisting it in to an appropriate position.
   - Using the Allen (hex) driver, tighten the clamping screw.
3. Mount the TV camera.
   ★ **Mount the relevant type of TV camera as described in paragraph 6 on page 14.**

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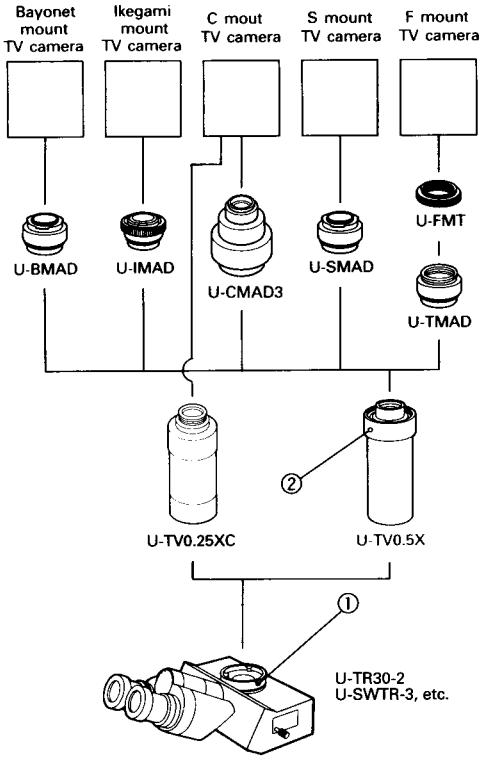


Fig. 2

2 0.25 / 0.5-power Type (Fig. 2)

1. Mount the U-TV0.25XC/U-TV0.5X.
   - Using the Allen (hex) driver provided with the microscope frame, fully loosen clamping screw ① of photo mount of trinocular tube.
   - Insert the U-TV0.5X's dovetail mount into the mounting fixture on the trinocular tube.
   - Secure by tightening the trinocular tube's clamping screw ① with the Allen (hex) driver.
2. Mount the mount adapter (U-BMAD, or any of the four other types) (U-TV0.5X only).
   - Using the Allen (hex) driver, fully loosen the clamping screw ② on the 0.5-power TV lens (U-TV0.5X).
   - Carefully insert the mount adapter, twisting it in to an appropriate position.
   - Using the Allen (hex) driver, tighten the clamping screw.
3. Mount the TV camera.
   ★ **Mount the relevant type of TV camera as described in paragraph 6 on page 14.**

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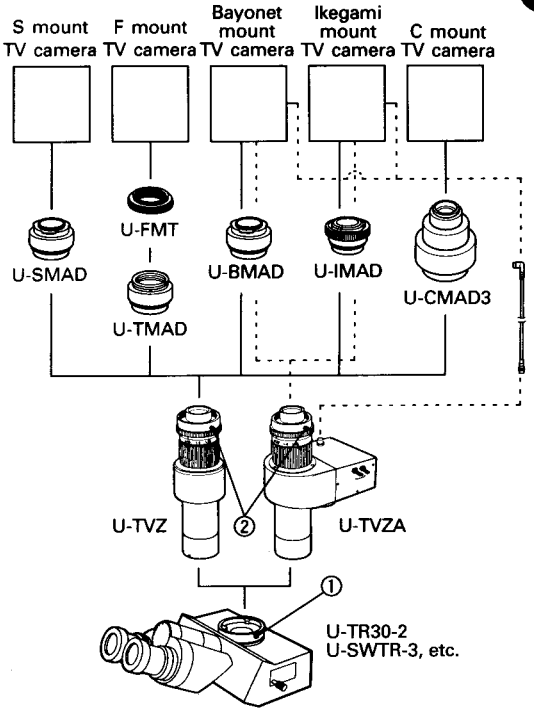


Fig. 3

3 Zoom Lens Type (Figs. 3, 4)

1. Mounting the Zoom Lens Type (U-TVZ, U-TVZA)
   - Using the Allen (hex) driver provided with the microscope frame, loosen the trinocular tube clamping screw ①.
   - Insert the U-TVZ or U-TVZA's dovetail mount into the mounting fixture on the trinocular tube.
   - Align the index mark on the zoom lens with the mark on the trinocular tube and secure by tightening the clamping screw with the Allen (hex) driver.
     ★ **Always mount with the index marks aligned. If the marks are not aligned, decentration will occur during zooming.**
2. Mounting the mount adapter (U-BMAD, or any of the four other types).
   - Using the Allen (hex) driver, loosen the clamping screw ② on the zoom lens (U-TVZ or U-TVZA).
   - Carefully insert the mount adapter, and thread it in to an appropriate position.
   - Using the Allen (hex) driver, tighten the clamping screw.

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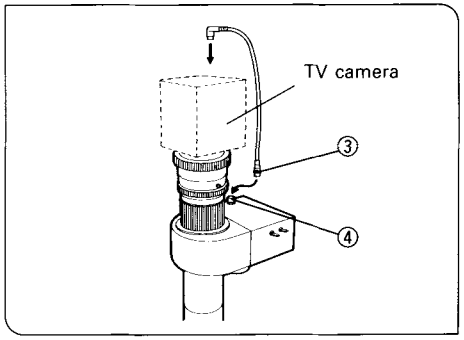


Fig. 4

3. Connecting the brightness adjustment signal cord (U-TVZA only)

- Connect the brightness adjustment signal cord's connector ③ to the receptacle ④ on the TV zoom lens. Connect the other end of the cord to the TV Camera. (Fig. 4)

◎ Refer to the next page for applicable TV cameras.

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Mount	TV Camera	Brightness Adjustment Signal Cord
Bayonet mount adapter (U-CMAD3)	DK8000 (Hitachi)*	UYKK-H
	DK-H1* (Hitachi)	
	CS520MD (Tokyo Electronic)	Use cord provided with TV camera
Mount adapter (Ikegami) (U-IMAD)	MKC385* (Ikegami)	Special order item

*Circuit modification required.

4. Mounting the TV camera

★ **Mount the relevant type of TV camera as outlined in paragraph 6, page 14.**

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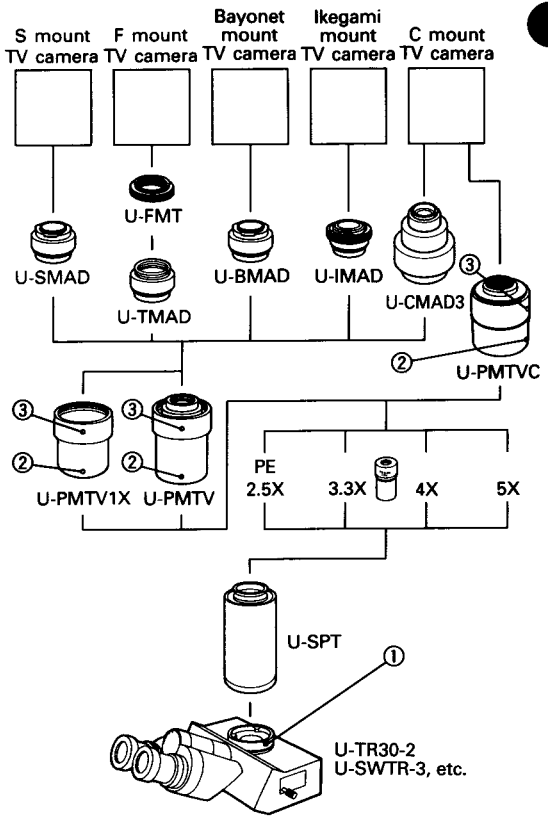


Fig. 5

4 Photo Eyepiece Lens Type (Fig. 5)

1. Mount the single port tube for PM camera (U-SPT).
   - Using the Allen (hex) driver provided with the microscope frame, fully loosen the trinocular tube's clamping screw ①.
   - Insert the U-SPT's dovetail mount into the mounting fixture on the photo tube.
   - Secure by tightening the trinocular tube's clamping screw with the Allen (hex) driver.
2. Mount the PE photo eyepiece (PE2.5X, PE3.3X, PE4X, or PE5X). Carefully insert the PE photo eyepiece all the way into the socket on the single port tube for PM camera.
3. Mount the TV adapter (U-PMTV, U-PMTV1X, or U-PMTVC).
   - Using the Allen (hex) driver, fully loosen the TV adapter's tube's clamping screw ②.
   - Insert the adapter's mounting ring over the mounting fixture on the single port tube for PM camera (U-SPT).
   - Secure by tightening the TV adapter's clamping screw with the Allen (hex) driver.

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4. Mount the mount adapter (U-BMAD, or any of the four other types).
   ★ **Use the following procedure to mount the mount adapter when using the U-PMTV or U-PMTV1X. The U-PMTVC has a built-in mount adapter.**
   - Using the Allen (hex) driver, fully loosen the clamping screw ③ on the TV adapter (P-PMTV, U-PMTV1X).
   - Carefully insert the mount adapter, twisting it in to an appropriate position.
   - Using the Allen (hex) driver, tighten the clamping screw.

5. Mount the TV camera.
   ★ **Mount the relevant type of TV camera as described in paragraph 6, page 14.**

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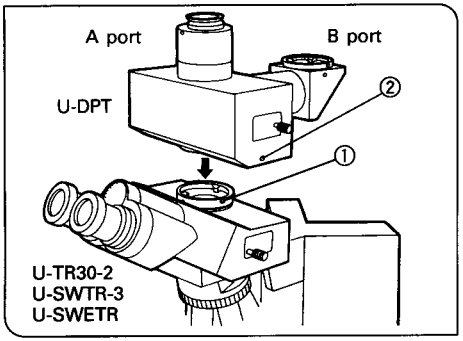


Fig. 6

5 Double Port type (Fig. 6)

1. Mount the double port (U-DPT).
   - Using the Allen (hex) driver provided with the microscope frame, fully loosen the trinocular tube's clamping screw ①.
   - Insert the double port's dovetail mount into the mounting fixture on the trinocular tube straight tube.
   - Inserting the Allen (hex) driver through the screw hole ② in the double port, secure by tightening the trinocular tube's clamping screw ①.
2. Units mounted on the A port
   - A photo eyepiece type can be mounted on the A port. Follow the procedure given in paragraph 4-2 to 5. (Where the procedure indicates "single port tube for PM camera," substitute "A port".)
   - A photography unit can also be mounted on the A port. See the Microscope Operating Instructions for how to mount a photography unit.
3. Units mounted on the B port
   Either the direct image type, the 0.5-power type, or the zoom lens type can be mounted on the B port. Follow the procedure given in paragraph 1 or 2. (Where the procedure indicates "photo tube," substitute "B port".)
   - ★ **Ensure that the total weight of adapter and TV camera mounted on the B port does not exceed 5 kg.**
   - ★ **The U-SPT (single port tube for PM camera) is optically unusable on the B port.**

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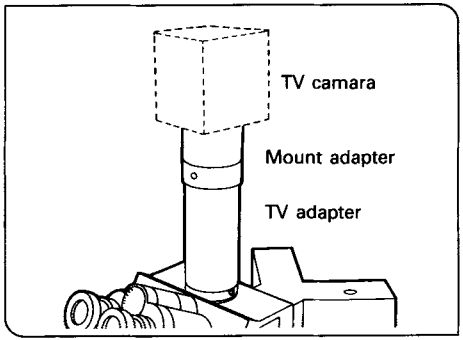


Fig. 7

6 Mount of TV Camera (Fig. 7)

1. Bayonet mount TV camera
   - If lenses and/or viewfinders are mounted on the TV camera, remove them.
   - Align the positioning slot on the TV camera with the pin on the mount adapter, then set the camera onto the mount adapter and turn it to lock it into place.
2. Ikegami mount TV camera
   Align the positioning slot on the TV camera with the pin on the mount adapter, then set the camera onto the mount adapter and turn the lock ring to lock the camera into place.
3. C mount TV camera
   Secure the TV camera by threading it into the mount adapter.

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4 PROCEDURES FOR USE

■ See the operating instructions provided with the TV camera and/or monitor for its operating procedure.

1 Microscope Frame Adjustment

1. Turn on the light of microscope and make adjustments necessary to enable observation.
2. Pull out the light path selector on the microscope's trinocular tube.

2 TV Camera and Monitor Adjustment

Referring to the operating instructions for the TV camera and/or monitor, adjust the image color.

★ **The center of the image in the eyepiece may not match that on the monitor. This is related to the adjustment of the TV camera's image tube, and is not due to the components of the microscope system.**

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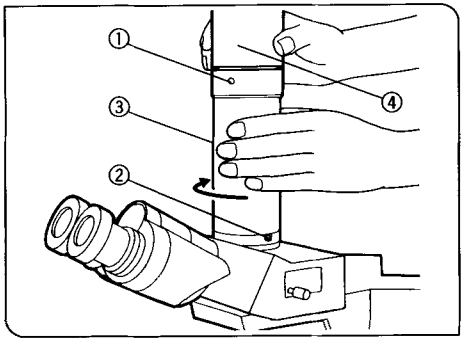


Fig. 8

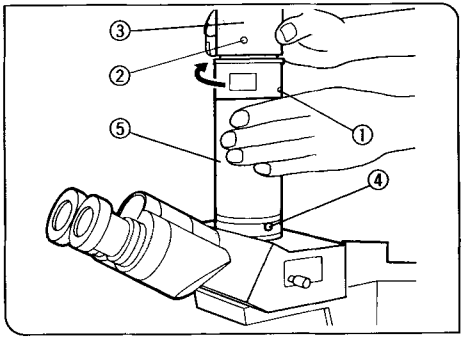


Fig. 9

3 Coinciding Observed Image with Monitor Image (Figs. 8, 9)

1. Set the light path selector on the trinocular tube to the middle position and focus on the specimen while looking through the eyepiece.
2. Adjust the focus of the monitor image.

With the U-TV1X-2, U-TV0.25XC or U-TV0.5X Type

Loosen clamping screws ① and ② with the Allen (hex) driver provided with the microscope frame. While observing the monitor and keeping the mount adapter ④ stationary, rotate the U-TV1X-2, U-TV0.25XC or U-TV0.5X ③ to where the image is in focus and re-tighten clamping screws ① and ②. (Fig. 8)

★ **The shape of the microscope frame may make it impossible to tighten the clamping screw ①, In this event, hold and the rotate the U-TV1X-2, U-TV0.25XC or U-TV0.5X ③ only and then tighten ①. Then return to the original position and tighten ②.**

With the U-SPT

Loosen clamping screws ① and ② with the Allen (hex) driver provided with the microscope frame. While observing the monitor and keeping the mount adapter (in case of U-PMTV1X) or upper portion ③ (in case of U-PMTVC) stationary, rotate the lower portion of U-PMTV or U-PMTVC, PMTV1X to where the image is in focus and re-tighten clamping screws ① and ②. (Fig. 9)

★ **If the clamping screws ①, ② are positioned so that they cannot be tightened, loosen the clamping screw ④. Then hold and rotate the U-SPT ⑤ only. After tightening ①, ②, return the U-SPT to the original position and tighten ④.**

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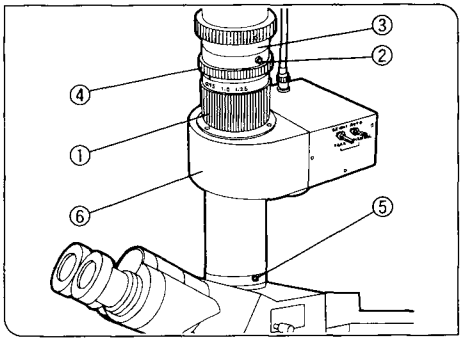


Fig. 10

Coinciding Observed Image with Monitor Image when Using Zoom Lens

1. Perform eyepiece diopter adjustment.
2. Looking through the eyepieces, bring the specimen into focus.
3. Rotate the zoom ring ① to the 0.5X position.
4. Using the Allen (hex) driver provided with the microscope frame, loosen the clamping screw ② on the upper part of the zoom lens. While observing the monitor image and keeping the mount adapter ③ stationary, turn the focusing ring ④ to focus the image.
5. Rotate the zoom ring ① to the 1.25X position. Confirm that the monitor image does not drift out of focus.
   ★ If the monitor image is out of focus after changing the magnification, repeat the steps 1 through 5.

◎ If a finder eyepiece is not used, and the monitor image is out of focus after performing the adjustments in steps 2 to 5, use the microscope's focusing knob to slightly move the image focus, and then repeat the steps 3 through 5.

6. Tighten the clamping screw ② securely.
   ★ If the clamping screw ② is positioned so that it cannot be tightened, loosen the clamping screw ⑤. Hold and rotate the zoom lens ⑥ only. After tightening ②, return the zoom lens to the original position and tighten ⑤.

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4 Rotating the TV Camera (Fig. 10)

If you want to rotate the TV camera on its mounting axis, loosen the clamping screws on the following units to rotate the camera.

- Direct image adapter (U-TV1X-2)
- 0.25-power TV adapter (for C mount) (U-TV0.25XC)
- 0.5-power TV lens (U-TV0.5X)
- Single port tube for PM camera (U-SPT)
- TV adapter (U-PMTV, U-PMTV1X, U-PMTVC)
  Loosen the clamping screw on the upper part of the zoom lens and rotate the mount adapter and the focusing ring together.
- TV zoom lens (U-TVZ)
- TV zoom lens with auto brightness adjustment (U-TVZA)

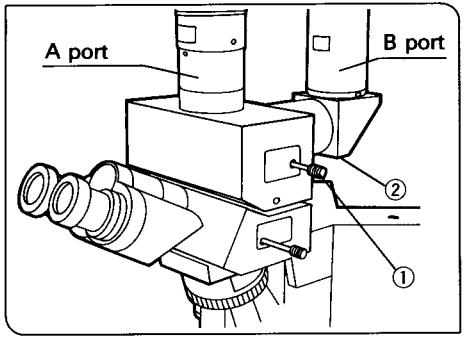


Fig. 11

5 Light Path Selection with the U-DPT (Fig. 11)

Select the desired light path by sliding the light path selector lever ①.

Light path selector lever	Marking	Illumination ratio
Pushed in	A	A: 100%
Middle position	A B	A: 50% B: 50%
Pulled out	B	B: 100%

★ Since overall balance of the microscope system is adversely affected when a heavy TV camera is installed, prevent the set-up from accidentally tipping by making use of the tripod thread on the bottom of the B port ②.

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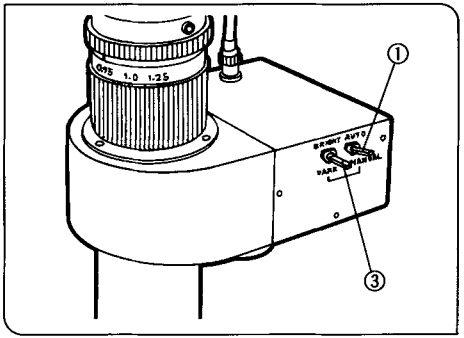


Fig. 12

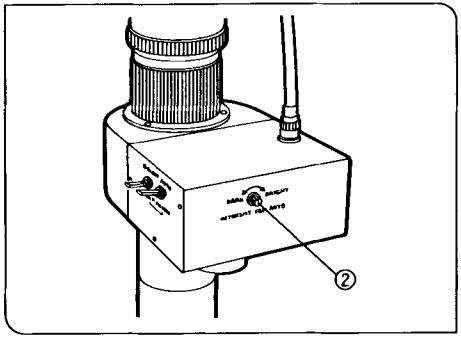


Fig. 13

6 Brightness Adjustment of TV Zoom Lens (U-TVZA) (Figs. 12, 13)

6-1 Details on the Auto Brightness Adjustment

1. Set the AUTO/MANUAL selector switch ① to AUTO.

◎ Even if the objective is changed, the brightness is automatically kept at a uniform level.

2. The level compensation knob ② is used to retain a uniform brightness to compensate for dispersion caused by the TV camera. Only if the tracking of the auto brightness adjustment is unsatisfactory, use the following procedure for fine adjustment.

- First turn the level compensation knob ② all the way to the DARK position.
- Corresponding to the type of TV camera used, slowly turn the knob to the approximate standard position.

TV Camera	Approximate Standard Position
DK8000 (Hitachi)	⊘ 11 o'clock direction
DK-HI (Hitachi)	⊕ 12 o'clock direction (Center position)
CS520MD (Tokyo Electronic)	
MKC385 (Ikegami)	

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★ Even if the brightness of the microscope is altered, e.g. by selection of another objective, the monitor image will retain a uniform brightness. However, if the brightness of the microscope becomes extraordinarily bright or dark, it may become difficult to find an appropriate brightness or it may take more than 10 seconds for the function to respond. In this event, use MANUAL adjustment.

1. Adjust the brightness of the microscope by using an N.D. filter.
2. Increase the sensitivity of the TV camera.
3. Adjust the BRIGHT setting of the monitor.

★ When observing a specimen with large differences between bright and dark areas at a high brightness setting, ghost images may appear. In this event, reduce the brightness of the microscope.
If this does not improve the image, set the AUTO/MANUAL selector switch ① to MANUAL. Then turn the level compensation knob ② towards BRIGHT until the ghost images become less pronounced, or reduce the brightness of the microscope.

6-2 Using Manual Brightness Adjustment

◎ When the specimen contains too dark or too bright areas, use manual brightness adjustment.

1. Set the AUTO/MANUAL selector switch ① to MANUAL.
2. Operate the brightness adjustment switch ③ to adjust to an appropriate brightness.
   ★ Repeat the brightness adjustment if the objective is changed.

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5 TROUBLESHOOTING GUIDE

Under certain conditions, performance of this unit may be adversely affected by factors other than defects. If problems occur, please review the following list and take remedial action as needed. If you cannot solve the problem after checking the entire list, contact your local Olympus representative for assistance.

Problem	Cause	Remedy	Page
Dirt/dust can be seen. 1. Dirt/dust moves when the specimen is moved. 2. Dirt/dust moves when the TV camera is rotated 90°.	Dirt/dust adhering to specimen. Dirt/dust adhering to the TV camera.	Clean.	—
Monitor image is unsatisfactory.	Designated TV camera not used.	Check which camera is appropriate and use designated camera.	—
Poor color reproduction.	White balance is not adjusted.	Adjust as required.	15
The image is not focused.	Monitor hue is not adjusted.	Adjust hue on monitor.	15
	Focusing not performed correctly.	Adjust correctly.	15-17

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