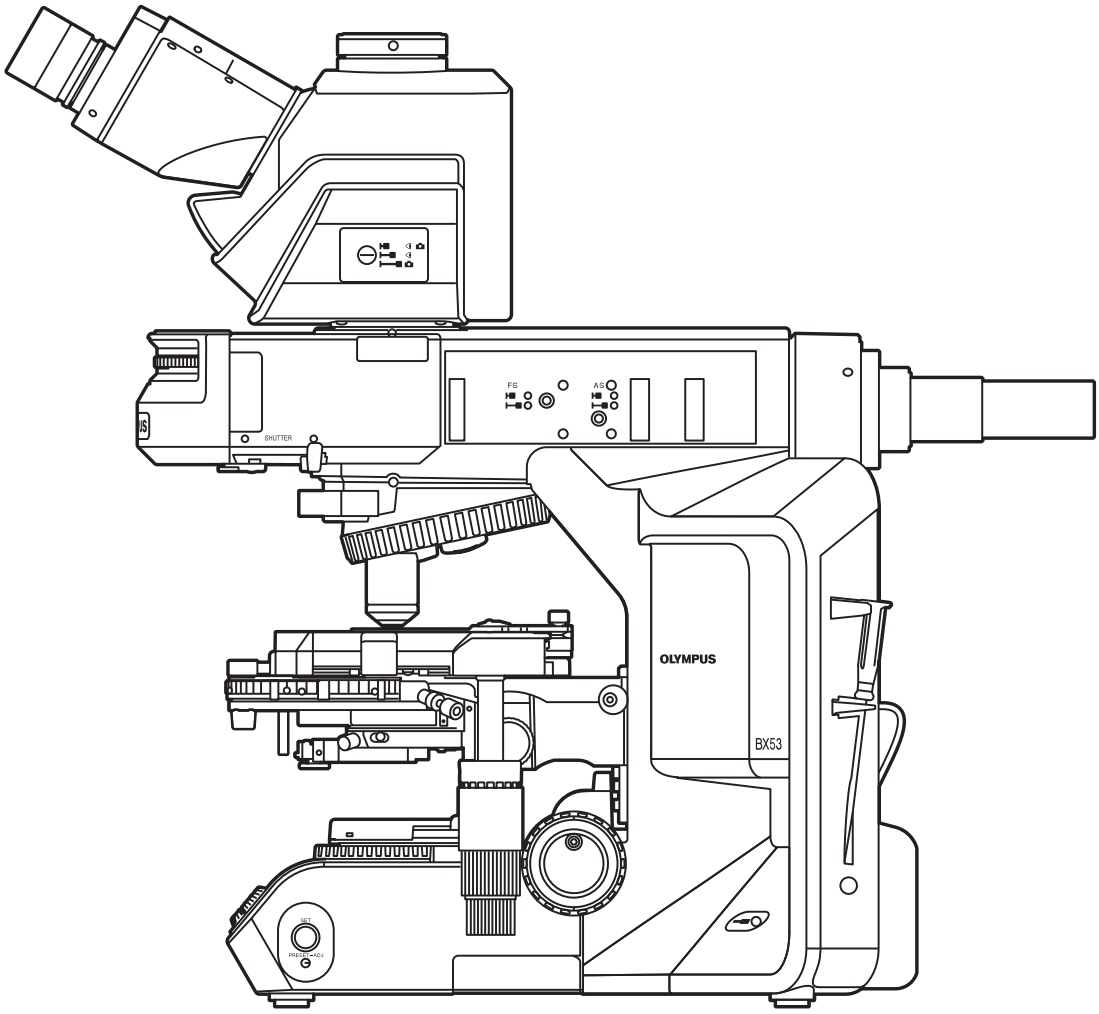
OLYMPUS

System Microscope

BX63/BX53/BX43/BX46

BX3 Series

BX3 Microscope Unit Guide



Introduction

Olympus' BX3 series can be configured to meet the needs of your research. The combination of leading-edge imaging capabilities with the flexibility to customize the system to your specific application makes BX3 series microscopes powerful research tools.

Accessories

Objective Lens

UPLXAPO Series

Thanks to novel manufacturing technology, Olympus UPLXAPO high-performance objectives offer improved optical performance in three critical areas—a larger numerical aperture (NA), better image flatness, and a wider range of chromatic correction. These advances enable high-quality, large field of view (FOV) imaging for versatility in numerous applications.

Series	Objective Lens	NA	W.D. (mm)	OFN	Cover Glass Thickness (mm)	Chromatic Correction Range	Spring Loaded
X Line	UPLXAPO4X	0.16	13	26.5	-	400-1000 nm	
	UPLXAPO10X	0.40	3.1	26.5	0.17	400-1000 nm	
	UPLXAPO20X	0.80	0.6	26.5	0.17	400-1000 nm	✓
	UPLXAPO40X	0.95	0.18	26.5	0.11-0.23	400-1000 nm	✓
	UPLXAPO40XO	1.40	0.13	26.5	0.17	400-1000 nm	✓
	UPLXAPO60XO	1.42	0.15	26.5	0.17	400-1000 nm	✓
	UPLXAPO100XO	1.45	0.13	26.5	0.17	400-1000 nm	✓
	UPLXAPO60XOPH	1.42	0.15	26.5	0.17	400-1000 nm	✓
	UPLXAPO100XOPH	1.45	0.13	26.5	0.17	400-1000 nm	✓

PLN (PLN-PH) Series

Appropriate for a range of biological applications, these high-quality objectives offer flatness up to OFN 22 in transmitted brightfield (phase contrast) observation. The PLN-PH series is designed for phase contrast observation.

UPLFLN (UPLFLN-PH) Series

These Plan objectives provide flat images with high transmission up to the near-infrared region of the spectrum. With their high signal-to-noise ratio, high resolution, and high contrast images, the objectives are especially effective in brightfield and Nomarski DIC observations. The UPLFLN-PH series is optimized for phase contrast observation.

PLAPON Series

Designed for high resolution and contrast, Plan Apochromat objectives reduce chromatic aberration to low levels.

Objective Lens	NA	W.D. (mm)	OFN	Cover Glass Thickness (mm)	Immersion	Spring Loaded
PLN2X	0.06	5.8	22	-		
PLN4X	0.10	18.5	22	-		
PLN10X	0.25	10.6	22	-		
PLN20X	0.40	1.2	22	0.17		✓
PLN40X	0.65	0.6	22	0.17		✓
PLN50XOI	0.9-0.5	0.2	22	-	Oil	✓
PLN100XO	1.25	0.15	22	-	Oil	✓
LPLN40X	0.60	3.4-4.1	22	0-1		
PLN10XPH	0.25	10.6	22	-		
PLN20XPH	0.40	1.2	22	0.17		✓
PLN40XPH	0.65	0.6	22	0.17		✓
PLN100XOPH	1.25	0.15	22	-	Oil	✓
UPLFLN4X	0.13	17	26.5	-		
UPLFLN10X2	0.30	10	26.5	-		
UPLFLN20X	0.50	2.1	26.5	0.17		
UPLFLN40X	0.75	0.51	26.5	0.17		✓

Objective Lens	NA	W.D. (mm)	OFN	Cover Glass Thickness (mm)	Immersion	Spring Loaded
UPLFLN100XO2	1.30	0.2	26.5	0.17	Oil	✓
UPLFLN100XOI2	1.3-0.6	0.2	26.5	0.17	Oil	✓
UPLFLN10X2PH	0.30	10	26.5	-		
UPLFLN20XPH	0.50	2.1	26.5	0.17		
UPLFLN40XPH	0.75	0.51	26.5	0.17		✓
UPLFLN100XO2PH	1.30	0.2	26.5	0.17	Oil	✓
PLAPON1.25X	0.04	5.0	26.5	-		
PLAPON2X	0.08	6.2	26.5	-		
MPLFLN10X	0.30	11	26.5	-		
MPLFLN20X	0.45	3.1	26.5	0		
MPLFLN40X	0.75	0.63	26.5	0		✓
MPLFLN100X	0.90	1	26.5	0		
MPLAPON60X	0.90	0.4	26.5	0		✓
MPLAPON100X	0.95	0.35	26.5	0		✓
MPLAPON100XO2	1.45	0.10	26.5	0	Oil	✓

Accessories

Microscope Frames

Main	Type	Brightness
BX43F	Manual	2W LED Light Source (30W Halogen Equivalent)
BX46F	Manual	2W LED Light Source (30W Halogen Equivalent)
BX53F2	Manual / Motorized	14W LED Light Source (100W Halogen Equivalent)
BX63F	Motorized	2W LED Light Source or 12V 100W Halogen Light Source


BX53F2

Observation Tubes

Observation Tube	FN	Type	Angle Type	Feature
U-BI30-2	22	Binocular	Fixing	-
U-TBI-3	22	Binocular	Tilting	High Eye Point
U-TBI-3-CLI	22	Binocular	Tilting	Low Eye Point
U-TTBI	22	Binocular	Tilting	Telescopic
U-TTLBI	22	Binocular	Tilting	Lift Adjustment, Telescopic
U-ETR-4	22	Trinocular	Fixing	Erected Image
U-TR30-2	22	Trinocular	Fixing	-
U-TTR-2	22	Trinocular	Tilting	-
U-SWTR-3	26.5	Trinocular	Fixing	Super Widefield
U-SWETTR-5	26.5	Trinocular	Tilting	Erected Image, Super Widefield


U-TTR-2

Eyepieces

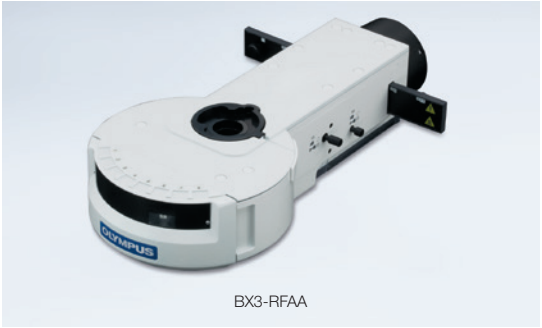
Eyepieces	FN	Reticle	Helicoid
WHN10X	22	-	
WHN10X-H	22	-	✓
CROSSWHN10X	22	Crosshair	✓
SWH10X-H	26.5	-	✓


SWH10X-H WHN10X WHN10X-H CROSSWHN10X

Accessories

Illumination Tubes

Illumination Tube	# of FL Cube	Turret Type	Illumination Pattern
BX3-URA	8	Manual	Normal
BX3-RFAS	8	Coded	FlyEye
BX3-RFAA	8	Motorized	FlyEye



BX3-RFAA

Motorized Controller

Motorized Controller	Description
U-HSCBM	Hand Switch for CBM
U-HSEXP	Hand Switch for Exposure
BX3M-HSRE	Hand Switch
U-MCZ	Controller
BX3-CBH	Control Box
BX3-CBM	Control Box
U-CBS	Control Box for Coded Function
U-IFRES	Interface for Coded Nosepiece


U-MCZ

Fluorescence Light Sources

Fluorescence Light Source	Description
U-HGLGPS	Light Source
U-LH100HG	100 W Mercury Lamp Housing
U-LH100HGAPO	100 W Mercury Apo Lamp Housing


U-HGLGPS

Bright Field Light Sources

Bright Field Light Source	Bulb	Brightness
U-LH100-3	Halogen	12V100W
U-LHLEDC	LED	2W (30W Halogen Equivalent)
U-LHLEDC100	LED	14W (100W Halogen Equivalent)

Intermediate Tubes

Intermediate Tube	Description
U-EPA2	Eyepoint Adjuster
U-EPAL-2	Eyepoint Adjuster
U-CA	Magnification Changer
U-KPA	Intermediate Attachment for Simple Polarizing Observation
U-TRU	Trinocular Intermediate Unit
U-TRUS	Trinocular Intermediate Unit
U-DP	Dual Port
U-DP1XC	Dual Port 1X


U-TRU

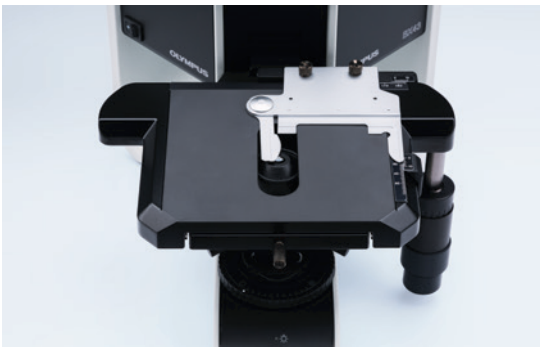
Nosepieces

Nosepieces	Type	# of Objectives	Working Slot
U-5RE-2	Manual	5	
BX43-5RES	Coded	5	
U-D6RE	Manual	6	✓
U-D6RES	Coded	6	✓
U-D7RES	Coded	7	✓
U-D7REA	Motorized	7	✓

U-D7REA

Stages

Stage	Control Handle	Type	Applicable System
U-SVLB-4	Left	Manual	All
U-SVRB-4	Right	Manual	All
U-SVLC	Left	Manual	Only BX46
U-SVRC	Right	Manual	Only BX46
U-SVRC-CY	Right	Manual	Only BX46
BX3-SSU	Motorized	Motorized	Only BX63
U-SP	No Handle	Manual	All
IX-SVL2	Left	Manual	Only BX63

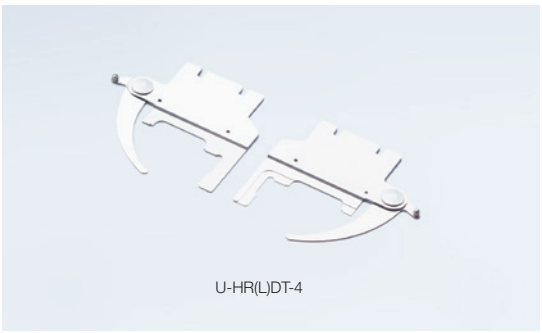


Stage Accessories

Stage Accessories	Description
BX3-SHEA	Stage Handle Extention Adaptor
U-SHG	Rubber Grip
U-SHGT	Rubber Grip (Thick)

Sample Holders

Sample Holder	Handle	# of Slide	Thickness
U-HLD-4	Left	Double	Thin
U-HLDT-4	Left	Double	Thick
U-HLS-4	Left	Single	Thin
U-HLST-4	Left	Single	Thick
U-HRD-4	Right	Double	Thin
U-HRDT-4	Right	Double	Thick



U-HR(L)DT-4

Accessories

TV Adaptors

TV Adaptor	Description
U-TV0.35XC-2	0.35X C-Mount Adaptor
U-TV0.5XC-3	0.5X C-Mount Adaptor
U-TV0.63XC	0.5X C-Mount Adaptor
U-TV1XC	1X C-Mount Adaptor (XY adjustment)
U-TV1X-2	TV Adaptor
U-CMAD3	C-Mount Adaptor
U-BMAD	Bayonet-Mount Adaptor
U-SMAD	Sony Mount Adaptor
U-TMAD	T-Mount Adaptor
U-FMT	F-Mount Adaptor
U-CMT	C-Mount Adaptor
U-DPCAD	Double Port Tubes with C Mounts

Condensers

Condenser	NA	Type	Contrast Method
U-AC2	1.1	Manual	BF
U-SC3	0.9	Manual	BF/PO
U-LC	0.75	Manual	BF/PO
U-AAC	1.4	Manual	BF
U-PCD2	1.1	Manual	BF/PH/DF
U-DCD	0.92	Manual	DF
U-DCW	1.4	Manual	DF
U-UCD8-2	Oil Top Lens 1.4 / Dry Top Lens 0.9	Manual	BF/PH/DIC/DF/PO
BX3-UCD8A	Oil Top Lens 1.4 / Dry Top Lens 0.9	Motorized	BF/PH/DIC/DF/PO

Polarizer/Analyzer/DIC Slider

Polarizer/Analyzer/DIC Slider	Description
U-POT	Polarizer
BX45-PO	Polarizer
U-ANT	Analyzer for Transmitted Light
U-AN-2	Analyzer Slider
U-GAN	Analyzer for Urate Crystals Observation
U-DFA	Darkfield Ring
U-PH1-S	Phase Contrast Ring (small)
U-PH2-S	Phase Contrast Ring (small)
U-PH3-S	Phase Contrast Ring (small)
U-DIC10	DIC Prism
U-DIC10S	DIC Prism (small)
U-DIC20	DIC Prism
U-DIC40	DIC Prism
U-DIC60	DIC Prism
U-DIC100	DIC Prism
U-DICT	DIC Slider for Transmitted Light
U-DICTS	Shift DIC Slider for Transmitted Light
U-FDICT	DIC Mirror Unit

U-DICT

Mirror Units

Mirror Unit	Excitation Filter	Emission Filter	Dichroic Mirror
U-FF	No Filter	No Filter	No Mirror
U-FUW	BP340-390	BA420IF	DM410
U-FUN	BP360-370	BA420IF	DM410
U-FUNA	BP360-370	BA420-460	DM410
U-FBVW	BP400-440	BA460IF	DM455
U-FBW	BP460-495	BA510IF	DM505
U-FBWA	BP460-495	BA510-550	DM505
U-FBN	BP470-495	BA510IF	DM505
U-FBNA	BP470-495	BA510-550	DM505
U-FGW	BP530-550	BA575IF	DM570
U-FGWA	BP530-550	BA575-625	DM570
U-FGNA	BP540-550	BA575-625	DM570
U-FYW	BP540-585	BA600IF	DM595
U-FCFP	BP425-445CFP	BA460-510CFP	DM455CFP
U-FGFP	BP460-480GFP	BA495-540GFP	DM490GFP
U-FYFP	BP490-500YFP	BA515-560YFP	DM515YFP
U-FRFP	BP535-555HQ	BA570-625HQ	DM565HQ
U-FMCHE	BP565-585	BA600-690	DM595

Group Observation Systems

Multi-head discussion systems are invaluable for lab training and education. Olympus offers discussion systems for as few as two or as many as 26 people. With our BX3 series multi-discussion observation (MDO) system, every participant can see the same high-quality image. The integrated LED arrow pointer helps instructors highlight key features in the teaching specimen.

Heads	2	2	3	5	9	10	18	26
Shape	Front to Back	Side by Side	Linear	Linear	Linear	H-Shape	H-Shape	H-Shape
U-DO3	1							
U-SDO3		1						
U-MDOB3			1	1	1			
U-MDO10B3						1	1	1
U-MDO10R3						1		
U-MDOSV			1	2	4	4	8	12
BX3-MDO18R							1	1
BX3-MDOE					2		4	8

Side-by-Side Observation

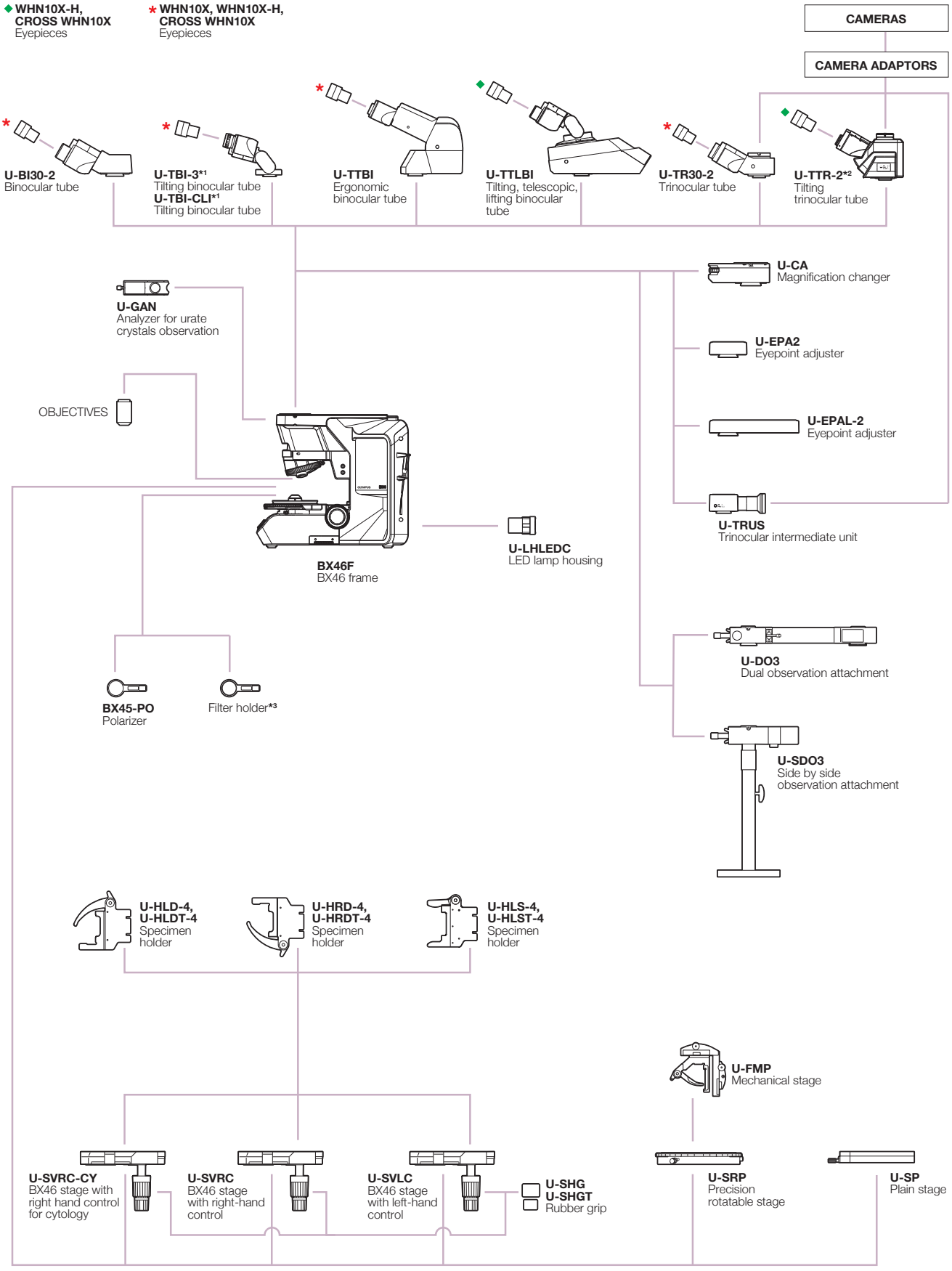
Front to Back Observation

Multi Observation for 9 people

Multi Observation for 26 people

System Diagram

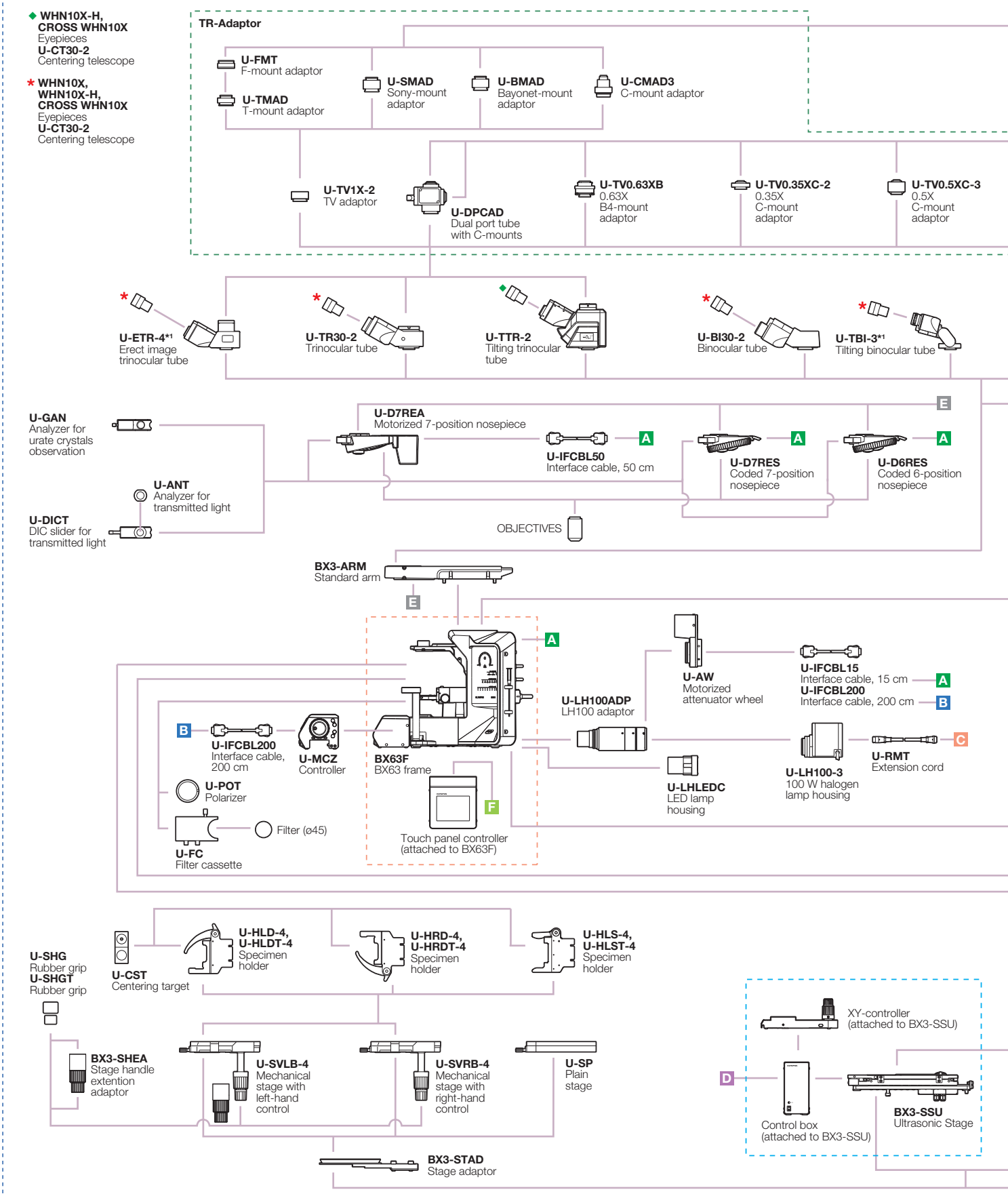
BX46 SYSTEM DIAGRAM



***1** Vignetting may occur in combination with an additional intermediate attachment. ***2** Only U-EPA2 and U-EPAL-2 are able to use as an additional intermediate attachment.
***3** Attached to BX46F.

System Diagram

BX63 SYSTEM DIAGRAM



*1 Slight vignetting may occur in combination with an additional intermediate attachment or fluorescence illuminator. *2 Require an additional intermediate attachment or fluorescence illuminator.

CAMERAS

U-TV0.63XC
0.63X C-mount adaptor

U-TV1XC
C-mount adaptor 1X (XY adjustment)

U-TBI-3-CLI*1
Tilting binocular tube

U-TTBI
Ergonomic binocular tube

U-TTLBI*2
Tilting, telescopic, lifting binocular tube

U-KPA
Intermediate attachment for simple polarizing observation

U-ANT
Analyzer for transmitted light

U-CA
Magnification changer

U-EPA2
Eyepoint adjuster

U-EPAL-2
Eyepoint adjuster

U-LLGAD
Liquid light guide adapter

U-LLG150/ U-LLG300
Liquid light guide (1.5 m/3 m)

U-HGLGPS
Light source

BX3-RFAS
Coded fluorescence illuminator

U-LH100HGAPO
100 W mercury apo lamp housing

U-LH100HG
100 W mercury lamp housing

U-RFL-T
Power supply unit for mercury lamp

U-LHEAD
Extension adaptor for lamp housing

U-DULHA
Double lamp housing adaptor

Mirror units

U-AN-2
Analyzer slider

U-IFCBL15
Interface cable, 15 cm

U-IFCBL200
Interface cable, 200 cm

U-AW
Motorized attenuator wheel

BX3-RFAA
Motorized fluorescence illuminator

U-IFCBL15
Interface cable, 15 cm

C1394A
Interface cable

BX3-CBH
Control box

PC (software)

IX2-GCP
Glass stage insert plate

IX-CP50
Insert plate

IX-SCL
Slide clip

IX-SVL2*3
Cross stage with short left handle

U-SC3
Swing-out condenser

U-AAC
Achromatic/ Aplanatic condenser

U-DCD
Darkfield condenser, dry

U-DCW
Darkfield condenser, oil

U-TLD
Dry top lens

U-UCD8-2
8-position universal condenser

BX3-UCD8A
Motorized universal condenser

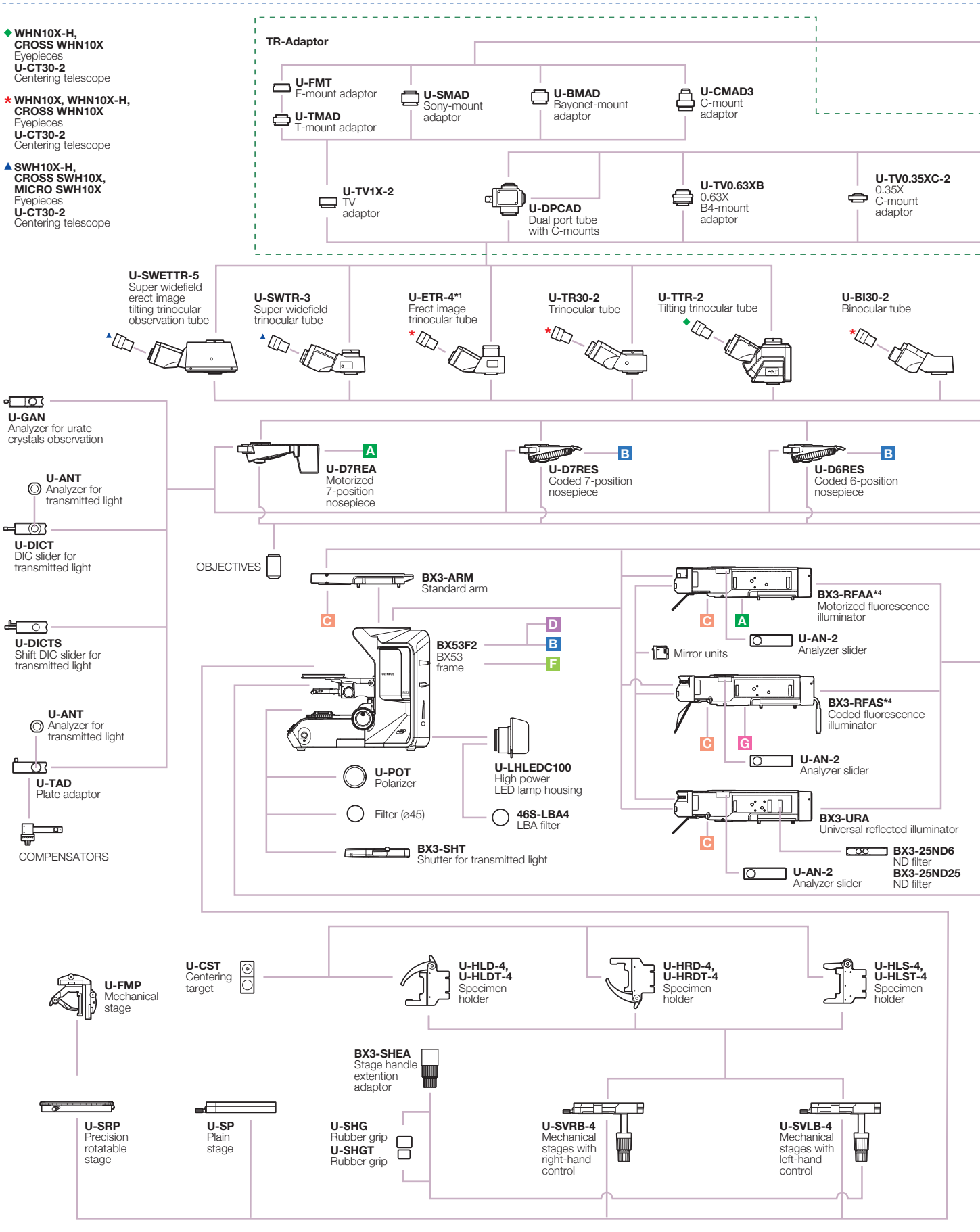
Optical elements

U-IFCBL15
Interface cable, 15 cm

***3** Cannot be used with BX3-UCD8A and U-UCD8-2

System Diagram

BX53 SYSTEM DIAGRAM



*1 Slight vignetting may occur in combination with an additional intermediate attachment or observation method. *2 Require an additional intermediate attachment or fluorescence illuminator.
*3 Cannot be used with U-TTLBI. *4 Compatible with FN 22. *5 Cannot be used with BX3-URA. *6 Stand is a standard equipment of the U-MDOSV, BX3-MDO18R, and U-MDO10R3.

CAMERAS

U-TV0.5XC-3
0.5X C-mount adaptor

U-TV0.63XC
0.63X C-mount adaptor

U-TV1XC
C-mount adaptor 1X (XY adjustment)

U-TBI-3*1
Tilting binocular tube

U-TBI-CLI*1
Tilting binocular tube

U-TTBI
Ergonomic binocular tube

U-TTLBI*2
Tilting, telescopic, lifting binocular tube

C

U-D6RE
Sextuple revolving nosepiece for DIC/simple POL

U-5RE-2
Quintuple revolving nosepiece

U-LLGAD
Liquid light guide adaptor

U-LLG150/ U-LLG300
Liquid light guide (1.5 m/3 m)

U-HGLGPS
Light source

U-LHEAD*5
Extension adaptor for lamp housing

U-DULHA
Double lamp house adaptor

U-LH100HGAPO
100 W mercury apo lamp housing

U-LH100HG
100 W mercury lamp housing

U-RFL-T
Power supply unit for mercury lamp

U-AW
Motorized attenuator wheel

A

U-LC*7
Low magnification condenser

U-AC2
Abbe condenser

U-SC3
Swing-out condenser

U-AAC
Achromatic/ Aplanatic condenser

U-PCD2
Phase/darkfield condenser

Optical devices

BX3-UCD8A
Motorized universal condenser

U-UCD8-2
8-position universal condenser

U-TLD
Dry top lens

U-DCD
Darkfield condenser, dry

U-DCW
Darkfield condenser, oil

B

U-IFRES
Interface for coded nosepiece

D E

U-KPA
Intermediate attachment for simple polarizing observation

U-ANT
Analyzer for transmitted light

U-CA
Magnification changer

U-DP*1*3
Dual port

U-DP1XC
Dual port 1X

U-EPA2
Eyepoint adjuster

U-EPAL-2
Eyepoint adjuster

U-TRU*1*3
Trinocular intermediate unit

U-TRUS*1
Trinocular intermediate unit

U-CPA
Intermediate attachment for conoscopic andorthoscopic observation

U-AN360P
Rotatable analyzer

U-OPA
Intermediate attachment for orthoscopic observation

U-DO3
Dual observation attachment

U-SDO3
Side by side observation attachment

BX3-MDOE
Multi-observation extension

U-MDOSV*6
Multi-observation side viewer

U-MDOB3
Multi-observation body

U-MDO10B3
Multi-observation body for 10 persons

U-MDO10R3*6
Multi-observation body for 10 persons

BX3-MDO18R
Multi-observation body for 18 persons

Stand*6

U-HSEXP
Hand switch forexposure

E B G

U-CBS
Control box for coded function

CBSIFCBL200
Interface cab le, 200cm

U-HSCBM
Hand switch for CBM

F

BX3-CBM
Control box

A

U-IFCBL200
Interface cable, 200 cm

DP2-SAL
Standalone Connection Kit

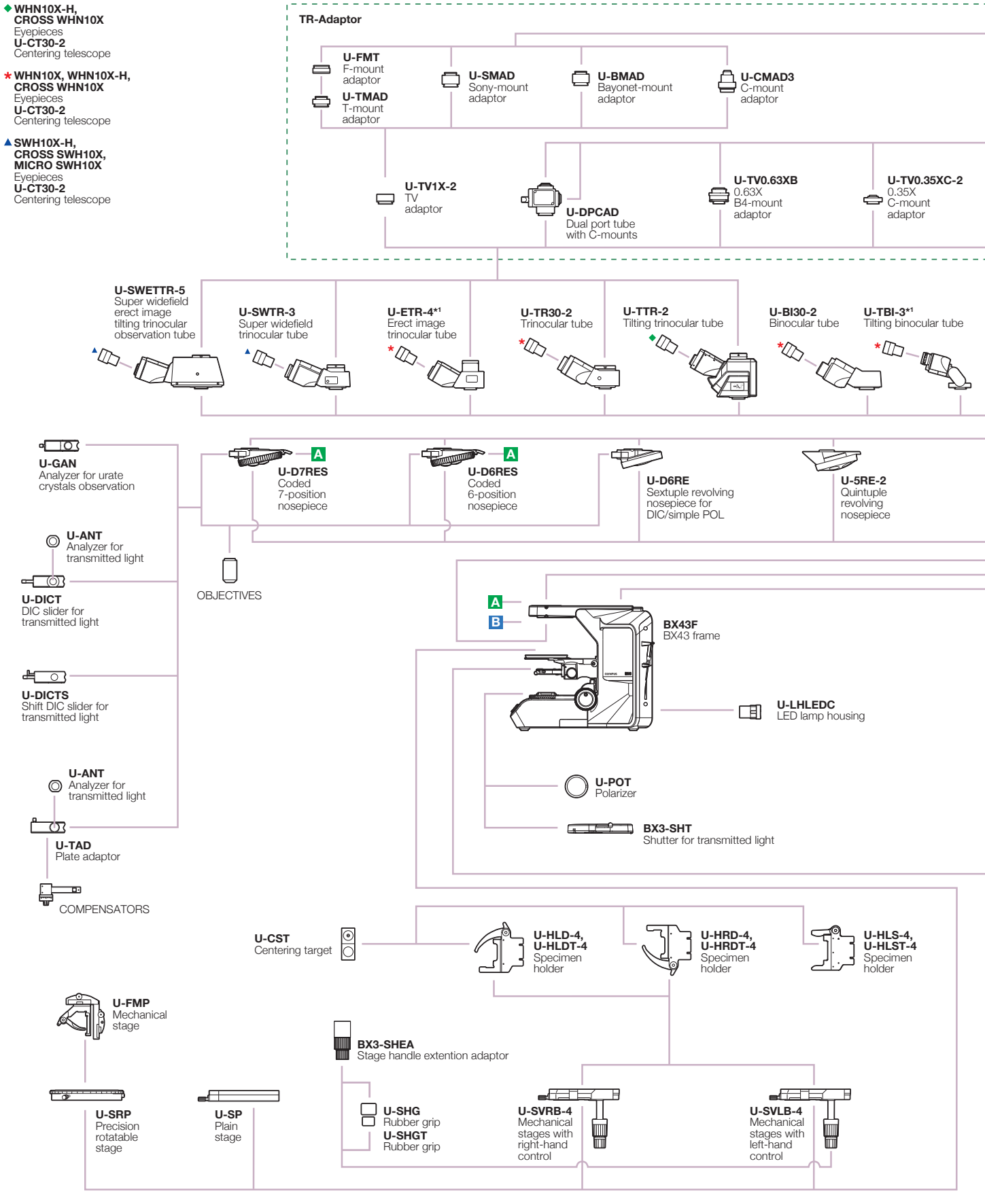
BX3M-HSRE
Hand switch

PC (Software)

***7** An auxiliary lens is equipped.

System Diagram

BX43 SYSTEM DIAGRAM



*1 Slight vignetting may occur in combination with an additional intermediate attachment or observation method.
*2 Require an additional intermediate attachment or fluorescence illuminator. *3 Cannot be used with U-TTLBI. *4 Compatible with FN 22. *5 An auxiliary lens is equipped.

CAMERAS

U-CA
Magnification changer

U-TV0.5XC-3
0.5X
C-mount
adaptor

U-TV0.63XC
0.63X
C-mount
adaptor

U-TV1XC
C-mount
adaptor 1X
(XY adjustment)

U-DP[*1*3]
Dual port

U-DP1XC
Dual port 1X

U-TBI-CLI[*1]
Tilting binocular tube

U-TTBI
Ergonomic
binocular tube

U-TTLBI[*2]
Tilting,
telescopic,
lifting binocular tube

U-TRU[*1*3]
Trinocular intermediate unit

U-TRUS[*3]
Trinocular intermediate unit

U-ANT
Analyzer for
transmitted light

U-KPA
Intermediate attachment for
simple polarizing observation

U-EPA2
Eyepoint adjuster

U-EPAL-2
Eyepoint adjuster

C A
BX43-5RES
Coded
5-position
nosepiece
for BX43

U-LLGAD
Liquid light
guide
adaptor

U-LLG150/
U-LLG300
Liquid light
guide
(1.5 m/3 m)

U-HGLGPS
Light source

U-LH100HGAPO
100 W mercury
apo lamp
housing

U-LH100HG
100 W mercury
lamp housing

U-RFL-T
Power supply unit
for mercury lamp

U-CPA
Intermediate
attachment for
conoscopic and
orthoscopic
observation

U-AN360P
Rotatable
analyzer

U-OPA
Intermediate attachment for
orthoscopic observation

C
BX3-URA
Universal reflected illuminator

U-PO
Polarizer

BX3-6ND6
ND filter
BX3-25ND25
ND filter

Mirror units

U-AN-2
Analyzer slider

C D
BX3-RFAS[*4]
Coded
fluorescence
illuminator

U-DULHA
Double
lamp house
adaptor

U-DO3
Dual observation attachment

U-SDO3
Side by side observation
attachment

U-LC[*5]
Low
magnification
condenser

U-AC2
Abbe
condenser

U-SC3
Swing-out
condenser

U-AAC
Achromatic/
Aplanatic
condenser

U-PCD2
Phase/darkfield
condenser

U-DCD
Darkfield
condenser,
dry

U-DCW
Darkfield
condenser,
oil

U-TLD
Dry top lens

Optical devices

U-UCD8-2
8-position
universal
condenser

A
U-IFRES
Interface for
coded
nosepiece
B D E

E A D
U-CBS
Control box for
coded function

U-HSEXP
Hand switch for
exposure

DP2-SAL
Standalone Connection Kit

PC (Software)

Specifications

BX63 SPECIFICATIONS

Microscope Frame	Optical System	UIS2 optical system
	Focus	Built-in motorized nosepiece focus Stroke: 20 mm; minimum increment: 0.01 µm; maximum nosepiece movement speed: 5 mm/s
	Illuminator	Built-in Köhler illumination for transmitted light, light intensity LED indicator, built-in motorized field stop • High color reproductivity LED light source •12 V 100 W halogen bulb (pre-centered)
Revolving Nosepiece		• Motorized septuple revolving nosepiece • Interchangeable reversed coded sextuple/coded septuple nosepiece
Observation Tube	Widefield (FN 22)	• Widefield tilting trinocular • Widefield trinocular • Widefield erect image trinocular • Widefield tilting binocular • Widefield tilting, telescopic, lifting binocular • Widefield ergo binocular • Widefield binocular
Stage		• Ultrasonic stage (Stage stroke: X: 76 mm × Y: 52 mm; maximum stage movement speed: 30 mm/s • Ceramic-coated coaxial stage with left or right hand low drive control: with rotating mechanism and torque adjustment mechanism, optional rubber grips, and available stage handle extension adaptor • Cross stage with short left handle
Condenser		• Motorized universal condenser (NA 0.9, motorized 8-position turret, aperture stop, polarizing filter in/out mechanism, and top lens swing out mechanism), for 1.25X–100X [swing-out 1.25X-4X, with oil top lens: (NA 1.4)] • Swing out Achromatic (NA 0.9), for 1.25X–100X (swing-out: 1.25X–4X) • Achromatic Aplanatic (NA 1.4), for 10X–100X • Universal (NA 0.9), for 1.25X–100X [swing-out: 1.25X–4X, with oil top lens: (NA 1.4)] • Darkfield dry (NA 0.8–0.92), for 10X–100X • Darkfield oil (NA 1.20–1.40), for 20X–100X
ND Filter Wheel		• Motorized 6-position ND filter wheel
Fluorescence Illuminator		• Motorized multi-purpose coded type (FN 22, motorized 8-position mirror unit turret, 4-position ND slider) • Multi-purpose coded type (FN 22, 8-position mirror unit turret, 4-position ND slider)
Fluorescence Light Source		• 130 W mercury light guide illumination • 100 W mercury apo lamp housing and power supply unit • 100 W mercury lamp housing and power supply unit
Controller		• High-performance control box (I/F: FireWire)

BX53 SPECIFICATIONS

Microscope Frame	Optical System	UIS2 optical system
	Focus	Vertical stage movement: 25 mm stage stroke with coarse adjustment limit stopper, torque adjustment for coarse adjustment knobs, stage mounting position variable, high sensitivity fine focusing knob (minimum adjustment gradations: 1 µm)
	Illuminator	Built-in Koehler illumination for transmitted light, light preset switch, light intensity manager switch, high color reproductivity 14 W LED light source (Brightness: equivalent to or brighter than a 100W halogen lamp, LED light emission method: 405nm excited RGB fluorescence substance)
Revolving Nosepiece		Interchangeable reversed quintuple/sextuple/septuple/coded sextuple/coded septuple nosepiece
Observation Tube	Widefield (FN 22)	• Widefield tilting trinocular • Widefield trinocular • Widefield tilting binocular • Widefield tilting, telescoping and lifting binocular • Widefield ergo binocular • Widefield binocular
	Super Widefield (FN 26.5)	• Super widefield trinocular • Super widefield erect image tilting trinocular
Stage		Ceramic-coated coaxial stage with left or right hand low drive control: with rotating mechanism and torque adjustment mechanism, optional rubber grips and stage handle extension adaptor available (non stick grooved coaxial, plain, rotatable stages are also available)
Condenser		• Abbe (NA 1.1), for 4X–100X • Swing out Achromatic (NA 0.9), for 1.25X–100X (swing-out: 1.25X–4X) • Achromatic Aplanatic (NA 1.4), for 10X–100X • Phase contrast, darkfield (NA 1.1), [phase contrast: for 10X–100X, darkfield: for 10X–100X (up to NA 0.80)] • Universal (NA 0.9), for 1.25X–100X [swing-out: 1.25X–4X, with oil top lens:(NA 1.4)] • Low (NA 0.75), for 2X–100X (Dry) • Darkfield dry (NA 0.8–0.92), for 10X–100X • Darkfield oil (NA 1.20–1.40), for 20X–100X
Fluorescence Illuminator		• Multi-purpose coded type (FN 22, 8-position mirror unit turret, 4-position ND slider) • Economical type (FN 26.5, 8-position mirror unit turret)
Fluorescence Light Source		100 W mercury apo lamp housing and power supply unit, 100 W mercury lamp housing and power supply unit, or 130 W mercury light guide illumination

BX43 SPECIFICATIONS

Microscope Frame	Optical System	UIS2 optical system
	Focus	Vertical stage movement: 25 mm stage stroke with coarse adjustment limit stopper, torque adjustment for coarse adjustment knobs, stage mounting position variable, high sensitivity fine focusing knob (minimum adjustment gradations: 1 µm)
	Illuminator	Built-in Koehler illumination for transmitted light, light intensity manager switch high color reproductivity 2 W LED light source
Revolving Nosepiece		Interchangeable reversed quintuple/coded quintuple/sextuple/septuple/coded sextuple/coded septuple nosepiece
Observation Tube	Widefield (FN 22)	• Widefield tilting, telescopic and lifting binocular • Widefield tilting trinocular • Widefield trinocular • Widefield erect image trinocular • Widefield tilting binocular • Widefield ergo binocular • Widefield binocular
	Super Widefield (FN 26.5)	• Super widefield trinocular • Super widefield erect image tilting trinocular
Stage		Ceramic-coated coaxial stage with left or right hand low drive control: with rotating mechanism and torque adjustment mechanism, optional rubber grips and stage handle extension adaptor available (non stick grooved coaxial, plain, rotatable stages are also available)
Condenser		• Abbe (NA 1.1), for 4X–100X • Swing out Achromatic (NA 0.9), for 1.25X–100X (swing-out: 1.25X–4X) • Achromatic Aplanatic (NA 1.4), for 10X–100X • Phase contrast, darkfield (NA 1.1), [phase contrast: for 10X–100X, darkfield: for 10X–100X (up to NA 0.80)] • Universal (NA 0.9), for 1.25X–100X [swing-out: 1.25X–4X, with oil top lens:(NA 1.4)] • Low (NA 0.75), for 2X–100X (Dry) • Darkfield dry (NA 0.8–0.92), for 10X–100X • Darkfield oil (NA 1.20–1.40), for 20X–100X

BX46 SPECIFICATIONS

Microscope Frame	Optical System	UIS2 optical system
	Focus	Fixed low stage nosepiece focus 15 mm focus stroke with coarse adjustment limit stop Torque adjustment for coarse adjustment knobs High sensitivity fine focusing knob (adjustment gradations: 1 µm)
	Illuminator	Built-in Koehler illumination for transmitted light, light intensity manager switch High color reproductivity 2 W LED light source
Revolving Nosepiece		Fixed reversed coded quintuple nosepiece
Observation Tube	Widefield (FN 22)	• Widefield tilting trinocular • Widefield trinocular • Widefield tilting binocular • Widefield tilting, telescopic, lifting binocular • Widefield ergo binocular • Widefield binocular
Stage		Ceramic-coated coaxial stage with left or right hand low drive control, rotating mechanism and torque adjustment mechanism (low torqe, plain, rotating stages are also available)
Condenser		Built-in condenser (NA 0.9) 1.25X–100X (swing out: 1.25X–2X)

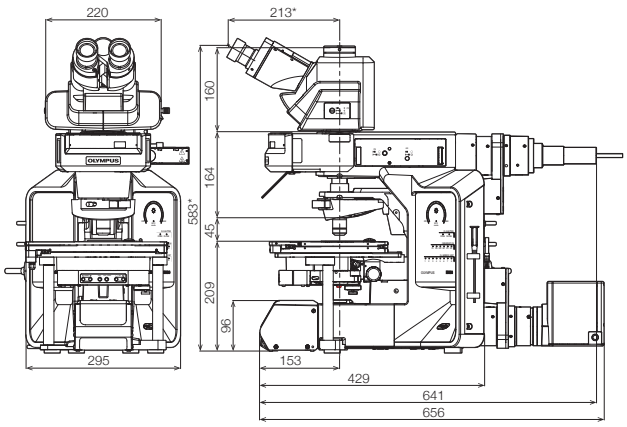
BX53/BX43/BX46 SPECIFICATIONS

Operating Environment	• Indoor use • Ambient temperature : 5˚ to 40˚C (41˚ to 104˚ F) • Maximum relative humidity : 80% for temperatures up to 31˚C (88˚F), decreasing linearly through 70% at 34˚C (93˚F), 60% at 37˚C (99˚F), to 50% relative humidity at 40˚C (104˚F) • Supply voltage fluctuations : not to exceed ±10 % of the normal voltage

Dimensions

BX63 FL DIMENSIONS

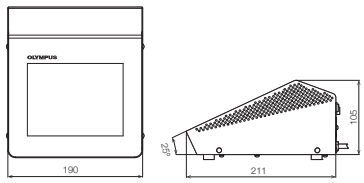
(unit: mm)



Weight: Approx. 33 kg, Power consumption: Approx. 450 W
The length marked with an asterisk (*) may vary according to interpupillary distance.
Distance for figure shown is 62 mm.

TOUCH PANEL CONTROLLER DIMENSIONS

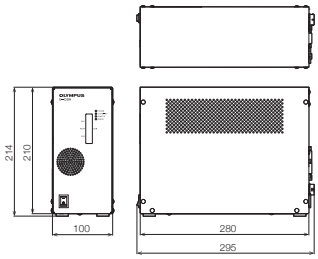
(unit: mm)



Weight: Approx. 2.4 kg, Power consumption: Approx. 25 W

BX3-CBH DIMENSIONS

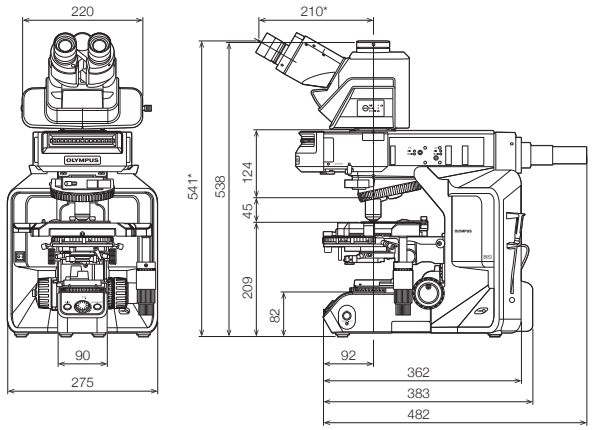
(unit: mm)



Weight: Approx. 4.2 kg, Power consumption: Approx. 230 W

BX53 FL DIMENSIONS

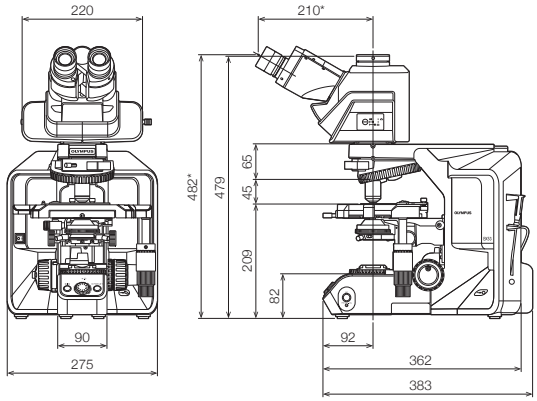
(unit: mm)



Weight: Approx. 21 kg, Power consumption: Approx. 330 W
The length marked with an asterisk (*) may vary according to interpupillary distance. Distance for figure shown is 62 mm.

BX53 DIMENSIONS

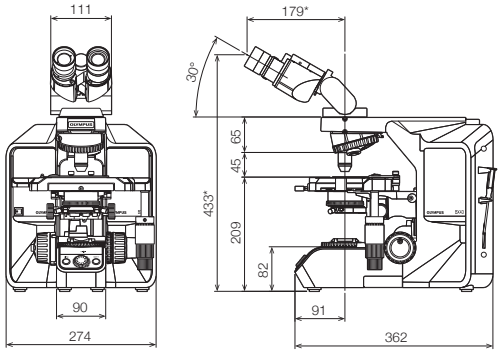
(unit: mm)



Weight: Approx. 16 kg, Power consumption: Approx. 24 W
The length marked with an asterisk (*) may vary according to interpupillary distance. Distance for figure shown is 62 mm.

BX43 DIMENSIONS

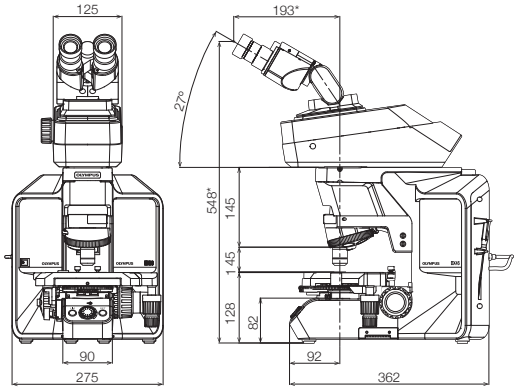
(unit: mm)



Weight: Approx. 13 kg, Power consumption: Approx. 4 W
The length marked with an asterisk (*) may vary according to interpupillary distance. Distance for figure shown is 62 mm.

BX46 DIMENSIONS

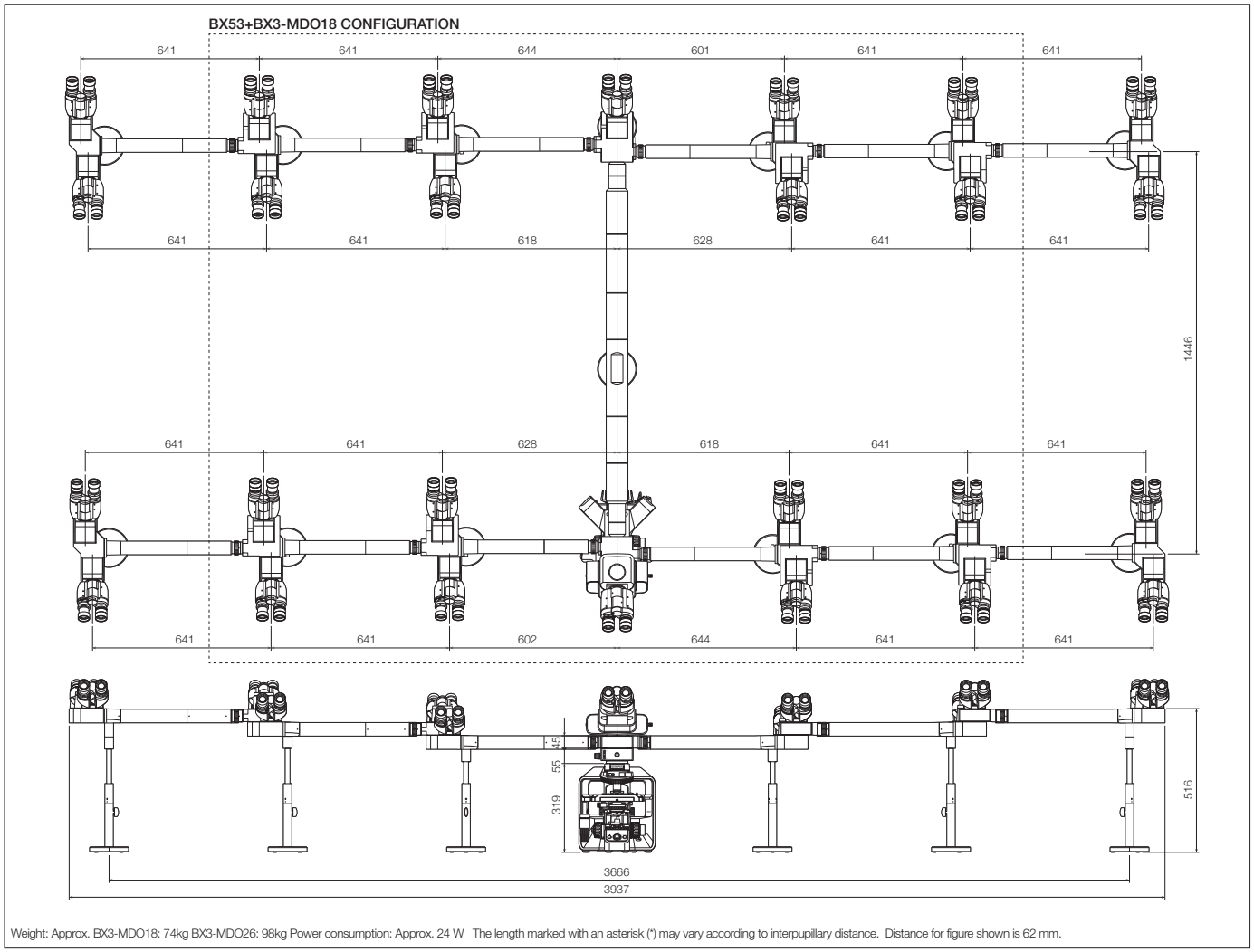
(unit: mm)



Weight: Approx. 17 kg, Power consumption: Approx. 4 W
The length marked with an asterisk (*) may vary according to interpupillary distance. Distance for figure shown is 62 mm.

BX53+BX3-MDO18/MDO26 DIMENSIONS

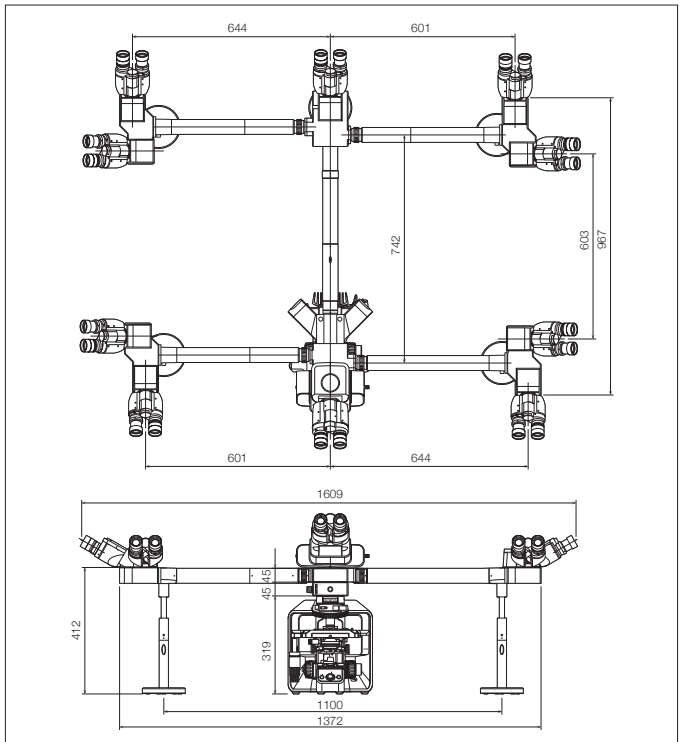
(unit: mm)



Weight: Approx. BX3-MDO18: 74kg BX3-MDO26: 98kg Power consumption: Approx. 24 W The length marked with an asterisk (*) may vary according to interpupillary distance. Distance for figure shown is 62 mm.

BX53+U-MDO10 DIMENSIONS

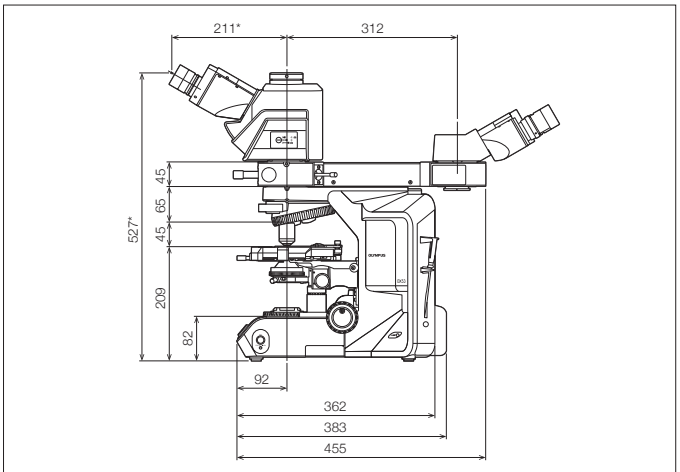
(unit: mm)



Weight: Approx. 35 kg, Power consumption: Approx. 24 W
The length marked with an asterisk (*) may vary according to interpupillary distance. Distance for figure shown is 62 mm.

BX53+U-DO DIMENSIONS

(unit: mm)



Weight: Approx. 19 kg, Power consumption: Approx. 24 W
The length marked with an asterisk (*) may vary according to interpupillary distance. Distance for figure shown is 62 mm.

- **OLYMPUS CORPORATION is ISO14001 certified.**
- **OLYMPUS CORPORATION is ISO9001 certified.**
- **OLYMPUS CORPORATION is ISO13485 certified.**
- **Illumination devices for microscope have suggested lifetimes. Periodic inspections are required. Please visit our website for details.**

www.olympus-lifescience.com

OLYMPUS

OLYMPUS CORPORATION
Shinjuku Monolith, 2-3-1 Nishi-Shinjuku, Shinjuku-ku, Tokyo 163-0914, Japan

Printed in Japan N8601578-062019