OLYMPUS®

Your Vision, Our Future

Biological Microscope

CX23

Bringing Reliability to the Classroom

User-Friendly Design and Outstanding Optical Performance

Ergonomic grip

- Ergonomic grips add safety when retrieving the microscope from high places.
- Colored grips indicate the appropriate places to hold the microscope.
- Smooth, rounded design eliminates sharp edges.
- The CX23 microscope is one of the lightest in its class, with a total weight of approx. 5.9 kg (13.01 lbs).

Lift

1

Angled arm enables comfortable carrying

Ergonomic grip for easy carrying

Fixed eyepieces

Rackless stage and stage cover

- The arm is angled to keep user's wrists in a comfortable, neutral position.
- The eyepiece can be fixed in place to help prevent damage or loss during transportation.
- A rackless stage and stage cover enable safety and stability during long periods of use.

Carry

2

Convenient and easily accessible power cable storage

Locking pin for easy binocular rotation

Interpupillary adjustment

Eyepoint height adjustment

- A locking pin keeps the observation tube in place.
- Interpupillary adjustments, ranging from 48 to 75 mm, enables individual users to set it to their needs.
- Eyepoint adjustments accommodate the user's height and provide greater comfort.
- Left and right diopter adjustment enable optimal focus for each eye.

Prepare

3

Designed for the Classroom

Set the Sample

4

- An inward-facing rotating nosepiece facilitates a larger working area above the stage, enabling easier operation and specimen exchange or making it easier to apply oil to immersion objectives.
- Objectives with long working distances provide clearance for thick samples and slides.
- Bring specimens into focus quickly by using the coaxial knobs for fine or coarse adjustments. The microscope is built for durability and precise control, whether accessed from the left or right side.
- A torque release function helps prevent damage if excess force is applied to the coarse focusing knob or stage knob.

Inward-facing revolving nosepiece

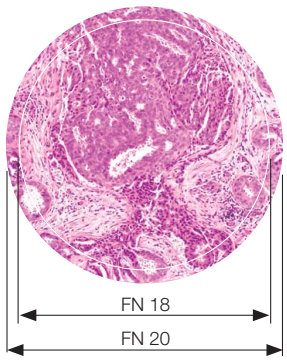
Coaxial knobs

Observe

5

- The focus lock helps prevent the objectives from damaging the specimen.
- Field number (FN) of 20 provides a wide field of view.
- The CX23 microscope features plan achromat objectives that preserve outstanding image flatness throughout the field of view.
- The energy saving LED light source provides a long operation lifetime of 20,000 hours.
- Daylight balanced LED illumination preserves the vivid colors on HE-stained samples.

Focus lock



Wide field of view

Store

6

- A storage compartment on the back of the CX23 microscope makes it easy to stow the power cable after use.
- Protect your investment with an optional custom designed wooden case.
- When the CX23 microscope needs to be left unattended, a built-in security slot enables attachment of an anti-theft cable.

Cable storage compartment

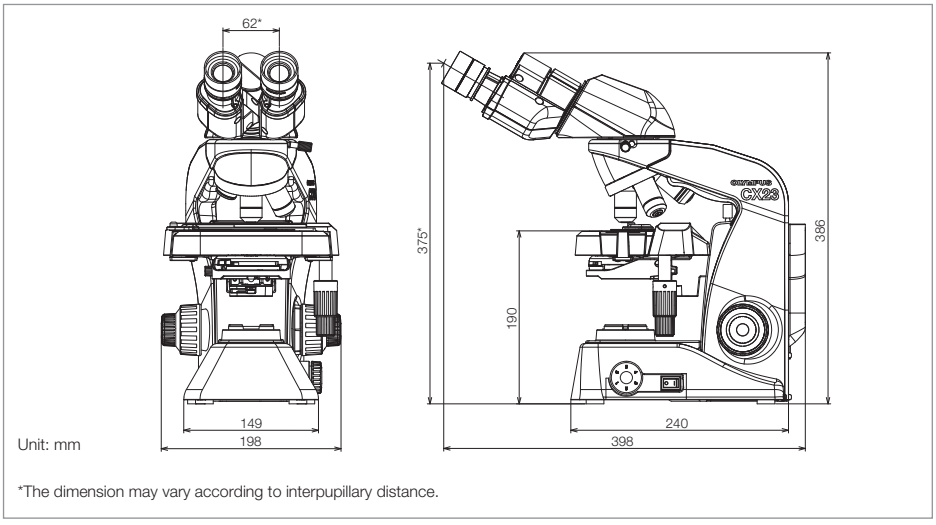
Built-in security slot

CX23 Specifications

Model		CX23LEDRF (S1/S2)	CX23RTFS2
Body		Aluminum die-cast metal frame, protective plastic covering	
Optical System		Infinity optical system	
Illumination System		Built-in transmited illumination system LED power consumption: 0.5 W (nominal value)	
Focusing		•Stage height movement •Coarse movement stroke: 15 mm •Coarse adjustment limit stopper •Torque adjustment for coarse adjustment knob •Fine focus knob (minimum adjutsment gradations: 2.5 µm)	
Revolving Nosepiece		Fixed quadruple nosepiece with inward tilt	
Stage		Wire movement mechanical fixed stage •Size (W × D): 174 mm × 89 mm •Traveling range (X × Y): 76 mm × 30 mm •Specimen holder •Specimen position scale	
Observation Tube	Type	Binocular, anti-fungal	Trinocular, anti-fungal
	Eyepiece (anti-fungal)	10X Field Number (FN): 20 15X Eyepiece (FN): 12 (optional)	
	Tube inclination	30°	
	Light path selector	None	Eyepiece/Camera port = 100/0 or 0/100
	Interpupillary distance adjusting range	48 – 75 mm	
	Eyepoint adjustment	370.0 – 432.9 mm	
Condenser		•Abbe condenser NA 1.25 with oil immersion •Built-in aperture iris diaphragm	
Objectives		Plan Achromat, anti-fungal 4X NA 0.1 W.D. 27.8 mm 10X NA 0.25 W.D. 8.0 mm 20X NA 0.4 W.D. 2.5 mm (optional) 40X NA 0.65 W.D. 0.6 mm 100XOil NA 1.25 W.D. 0.13 mm (CX23LEDRFS1 built-in, CX23LEDRFS2/RTFS2 optional)	
Optional Accessories		Reflection mirror (CH20-MM), eyepiece micrometer Dust cover, darkfield stop (CH2-DS+CH2-FH) Field Diaphragm (CX23-FS)* Dedicated wooden case (CH20-WB2)	Reflection mirror (CH20-MM), eyepiece micrometer Dust cover, darkfield filter (CH2-DS)
Dimensions (W × D × H)		198 mm × 398 mm × 386 mm	198 mm × 398 mm × 430 mm
Weight		Approximately 5.9 kg	Approximately 6.5 kg
Rated Voltage/Electric Current		AC 100 – 240 V 50/60 Hz 0.4 A	
Power Consumption		Less than 2 W	

*CX23-FS is included in CX23RTFS2 standard set

DIMENSIONS



Unit: mm

*The dimension may vary according to interpupillary distance.

Dedicated wooden case (optional)

Specimen courtesy of :
JAPANESE FOUNDATION FOR CANCER RESEARCH
Cancer Institute, Cancer Institute Hospital
Department of Pathology
Futoshi Akiyama, M.D., Ph.D.
Yuichi Ishikawa, M.D., Ph.D.

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