

### Specifications and operational requirements:

The **Olympus CX23 standard configuration** features a lightweight, robust design optimized for clinical and educational workflows. Managed by Evident Scientific, the detailed technical specifications encompass the following component structures:

### Optical & Imaging System

- **Optical System:** Infinity-corrected optical system.
- **Observation Head:** Anti-fungal binocular tube inclined at 30°. Rotatable up to 360° with a locking pin.
- **Interpupillary Distance:** Adjustable between 48 mm and 75 mm.
- **Eyepoints:** Dual adjustable height paths between 370.0 mm and 432.9 mm.
- **Eyepieces:** Standard 10x magnification with a 20 mm Field Number (FN 20) and anti-fungus coating. Fixed by locking screws.
- **Revolving Nosepiece:** Fixed quadruple (4 slots) positioning system with an inward/reversed tilt design

### Objectives (Plan Achromat)

All standard-issue objectives include anti-fungal properties:

- **4x Objective:** Numerical Aperture (NA) 0.10, Working Distance (WD) 27.8 mm.
- **10x Objective:** NA 0.25, WD 8.0 mm.
- **40x Objective:** NA 0.65, WD 0.60 mm.
- **100x Objective:** Oil immersion, NA 1.25, WD 0.13 mm.

### Illumination & Condenser

- **Light Source:** Built-in transmitted LED system with low power consumption (0.5 Watts nominal value).
- **Condenser:** Built-in Abbe condenser with NA 1.25, featuring a manual aperture iris diaphragm

### Stage & Mechanical Control

- **Specimen Stage:** Wire-movement rackless mechanical fixed stage measuring 174 mm × 89 mm.
- **Travel Range:** X-axis travel of 76 mm and Y-axis travel of 30 mm. Control knobs are located low on the right-hand side.
- **Focusing Knobs:** Coaxial coarse and fine adjustment systems. Minimum graduation scale on fine focus is 2.5 µm.
- **Safety Hardware:** Built-in coarse adjustment limit stopper (upper focus lock) and torque adjustment knob.

### Physical Profile

- **Frame Material:** Aluminum die-cast metal body complete with protective exterior resin handling grips.
- **Dimensions:** 198 mm (W) × 398 mm (D) × 386 mm (H).
- **Weight:** Approximately 5.9 kg.