# Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>CX31</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optical system</td>
<td>UIS2 (Universal Infinity-corrected) optical system</td>
</tr>
<tr>
<td>Illumination</td>
<td>Built-in transmitted Koehler illuminator 6V30W halogen bulb 100-120V/220-240V~ 0.85/0.45A 50/60Hz</td>
</tr>
<tr>
<td>Focusing</td>
<td>• Stage height movement by roller guide (rack &amp; pinion) • Stroke per rotation: 36.8mm • Full stroke range: 25mm • Upper limit stopped by simplified pre-focusing dial • Tension adjustment on coarse focus adjustment knob</td>
</tr>
<tr>
<td>Revolving nosepiece</td>
<td>Fixed quadruple nosepiece with inward tilt</td>
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<tr>
<td>Observation tube</td>
<td>Type</td>
</tr>
<tr>
<td></td>
<td>Field number</td>
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<tr>
<td></td>
<td>Tube inclination</td>
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<tr>
<td></td>
<td>Interpupillary distance adjustment range</td>
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<td></td>
<td>Light path selector</td>
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<tr>
<td>Stage</td>
<td>Size</td>
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<tr>
<td></td>
<td>Movement range</td>
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<tr>
<td></td>
<td>Specimen holder</td>
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<td></td>
<td>Rubber grip</td>
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<tr>
<td>Condenser</td>
<td>Type</td>
</tr>
<tr>
<td></td>
<td>N.A.</td>
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<tr>
<td></td>
<td>Aperture iris diaphragm</td>
</tr>
<tr>
<td>Dimensions &amp; weight</td>
<td>233(W) X 411(H) X 367.5(D)mm, approximately 8kg (approximately 17.6 lb.)</td>
</tr>
</tbody>
</table>

## Dimensions

(Unit: mm)

- **Objectives, Plan Achromat**
  - | PLCN | Numerical Aperture (N.A.) | Working Distance (W.D.) |
  - | 4X | 0.10 | 18.5mm |
  - | 10X | 0.25 | 10.6mm |
  - | 40X | 0.65 | 0.6mm |
  - | 100XO | 1.25 | 0.13mm |

- **Eyepiece**
  - | Field Number (F.N.) |
  - | 10X (Binocular/Trinocular) | 20 |
  - | 10X (Tilting binocular) | 18 |

* The length marked with an asterisk (*) may vary according to interpupillary distance. Distance for figure shown is 62mm.

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Environmental-friendly product

All optical components in CX31 microscope use lead-free eco-glass.

Specifications are subject to change without any obligation on the part of the manufacturer.
New standards of sharpness, clarity and flatness
The Olympus CX2 microscopes, which have gained an outstanding worldwide reputation in many medical and educational arenas, now evolve with new UIS2 infinity optics. The CX31 microscopes improve all-round performance and offer excellent cost-efficiency.

**Outstanding flat images from PLCN objectives**

The PLCN series of UIS2 objectives improves flatness dramatically, producing sharp, clear images right up to the edge of the field of view. Ideal for the 10X and 40X objectives so frequently used for inspection work, the flatness ranks among the very best in this class of microscopes.

**Bright, even observation images**

The illumination system employs a high intensity 6V, 30W halogen lamp for bright images. The aperture iris diaphragm with built-in condenser and standard field stop combine to provide bright and even illumination at all levels of magnification.

**Rigid, durable construction for high performance and long service life**

Construction quality is excellent throughout, with objectives, eyepiece, observation tube, revolving nosepiece, highly reliable rackless stage and other components all fixed firmly to the body — so there’s nothing to come loose or fall off when the microscope is being transported. The highly reputable rackless stage is employed, and since the X-axis guide does not protrude, both transportation and operation are performed easily and safely.

**For digital imaging (optional)**

An optional adapter to mount Olympus digital cameras is provided to allow easy, cost-efficient digital imaging (sold separately).

**Anti-fungus treatment**

The treatment applied to the observation tubes, eyepieces and objectives, protects quality of optical parts even in high humidity regions.
UIS2 eyepiece
Provides wide field of view (F.N. 20) and allows easy observation with eyeglasses.

Wide selection of observation tube
Three types of observation tube (Binocular, trinocular and tilting binocular) are available according to users' applications.

Quadruple inward-facing revolving nosepiece
Complies with a wide range of magnifications, allows unrestricted use of the space in front of the objectives and makes it easy to confirm observation magnifications.

Coarse upper limit stopper
Locks the upper position of the stage, preventing contact between the objective and the specimen in high magnification observations.

UIS2 objectives
4X, 10X, 40X and 100X PLCN objectives, providing world-class image flatness.

Rackless stage
Rack-free stage with no side protrusions. Low-positioned control knob allows smooth and comfortable specimen movement. Scale gradations are in white lettering on a black background.

Light intensity adjustment
Continuous light adjustment is possible.

Abbe condenser
An Abbe condenser, with N.A. 1.25 and built-in aperture diaphragm, provides the appropriate diaphragm setting to different specimens and magnifications.

Field stop
Frame integrated, with ability to accept a ø45mm filter.

Coaxial coarse/fine focusing knob
The coaxial coarse/fine focusing knob allows each operator to adjust the torque for coarse focusing operations. Focusing is smooth and easy, with the user's hands placed on the desk.

Stage handle with tactile grips
Tactile grips are fitted to the X and Y stage controls to provide a "light touch" stage movement.

Highly rigid frame
Extra rigid frame withstands frequent use and repositioning.

Hand grips for easy portability
Convenient hand grips at the front and back of the frame make it easy to carry the microscope.