New advances in both imaging and functionality.

Featuring the brighter, clearer visibility of UIS2 optics, and the convenience of observation with instant image recording.

Clear, bright observation at all magnification levels.

- Newly improved inspection efficiency thanks to UIS2 infinity-corrected optics, which allow high-clarity observation with flat, bright, even images right to the edge of the visual field (F.N.22)*.
  * When using eyepiece WHN10x series.
- To meet high-magnification observation requirements, magnification settings extend from 5x to 100x.
- Suitable for both brightfield and simple polarizing observations. The polarizer can be rotated through 90°, allowing optimum contrast control.
- As well as the standard 6V 30W halogen lamp, users can select a 100W fiber light source, high-brightness images, even of dark samples.
- Reflected light illuminator with aperture stop. Optimum contrast is obtained according to objective lens magnification and observation method. Handy filter pockets are provided, as various types of ø25 filters can be used besides the polarizer.

Easy observations while standing or sitting.

- Different types of tilting binoculars are available, so the tilting angle can be freely changed. Observations can be made quickly and easily, even while standing.
- The 6V30W halogen lamp is pre-centered, making manual centering unnecessary.
- The coaxial coarse and fine focus handle enables focusing without changing hands.
- The revolving nosepiece accepts four objective lenses, allowing quick exchange among them.
- With the optional stage mirror (CK40M-MS) attached, the user can easily confirm the observation position of the sample (and the objective lens in use) by only a slight shift of the eye, from the eyepiece to the mirror.

Any size of sample can be comfortably observed.

- The plane stage enables observation of thicker/larger samples (more than ø50 mm), while the mechanical stage allows extremely precise movements.
- The mechanical stage is attached to the left/right side of the plane stage, according to the operator's dominant hand. A stage plate and plate holder are included.
- A special stage insert plate (IX-CP50) is provided for samples of over ø100 mm diameter.
Compact, practical design offering all necessary functions for inspecting metallurgical samples, large metal parts and electronic components.

GX41: for quick inspections at the production site.

Fiber end section
Martensite and retained austenite
Fast, easy image recording.

• Users can attach a digital microscope camera or a video camera via an intermediate attachment or trinocular tube.

Easy installation by the production line and easy to carry.

• The compact, easy-to-use GX41 can be installed in a limited space, making it suitable for on-the-spot inspections close to production lines.
• Light and easy to carry, the GX41 is ideal for moving between manufacturing site, classroom or practice location.

Easy system expansion according to need.

• UIS2 optics are especially suitable for system expansion. Using optional intermediate attachments does not cause any image deterioration.
• The GX-SPU adapter enables attachment of a digital camera or video camera while using the binocular tube.
• Dual observation attachment U-DO3 allows two people to observe the same image at the same time.
• Intermediate magnification changers U-CA (1.25x, 1.6x, 2x) and U-ECA (2x) let users select intermediate magnifications without changing objective lenses.
• Drawing attachment U-DA enables easy, accurate drawing; the tip of the pen can be seen through the binocular tube.
Quick compliance with various kinds of measurements, e.g. grain size.

* An eyepiece micrometer and grain scale are provided.

**SYSTEM DIAGRAM**

Reticle eyepiece micrometers (for WHN10x):
- 24-10/100 micro X
- 24-10/100 micro XY
- 24-10/100
- 24-#10/100x10
- 24-#5/5x5
- 24-#7/7x7
- 24-cross

Grain-size scale (LP461900)

Reticle eyepiece micrometers (for WHB10x):
- 20.4-10/100 micro X
- 20.4-10/100 micro XY
- 20.4-10/100
- 20.4-#10/100x10
- 20.4-#5/5x5
- 20.4-#7/7x7
- 20.4-cross

Grain-size scale (LP157800)

MPLN5x
MPLN10x
MPLN20x
MPLN50x
MPLN100x
Objective lenses

MPLN5x
MPLN10x
MPLN20x
MPLN50x
MPLN100x
Objective lenses

VIDEO/DIGITAL CAMERA SYSTEM

Whn10X
Whn10X-H
Cross Whn10X
Eyepieces

U-TBI-3
Tilting binocular tube

U-BI30-2
Binocular tube

U-TR30-2
Trinocular tube

U-CTR30-2
Trinocular tube

U-CBI30-2
Binocular tube

CKX-TBI
Tilting binocular tubes (eyepieces incorporated)

U-CA
Magnification changer

U-ECA
Magnification changer

GX-SPU
Side port intermediate tube

U-DA
Drawing attachment

U-DO3
Dual observation attachment

GX41-EPA
Eyepoint adjuster

CX40-M5
Stage mirror

CK40-MVR
Attachable mechanical stage

Stage plate holder (incorporated in CK40M-MVR)

CK40M-CP
Stage plate

LG-SF
Flexible light guide

LG-PS2
Light source

Quick compliance with various kinds of measurements, e.g. grain size.

SYSTEM DIAGRAM

Grain size scale

Grid scale

* When combining GX41-EPA or CKX-TBI, disconnect the adapter attached to GX41F.  
* An additional mount adapter is required.
**GX41 specifications**

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Optical system</strong></td>
<td>UIS2 optical system (infinity-corrected system)</td>
</tr>
<tr>
<td><strong>Observation method</strong></td>
<td>Reflected light brightfield observation, reflected light simple polarizing observation</td>
</tr>
<tr>
<td><strong>Focus</strong></td>
<td>Vertical revolving nosepiece movement (fixed stage), coarse and fine handles (with torque adjustment), roller guide movement. Stroke (from 1 mm above focusing position from stage surface) Upward: 7 mm, Downward: 2 mm Stroke per coarse handle rotation: 36.8 mm, Stroke per fine handle rotation: 0.2 mm</td>
</tr>
<tr>
<td><strong>Revolving nosepiece</strong></td>
<td>Quadruple revolving nosepiece</td>
</tr>
<tr>
<td><strong>Stage</strong></td>
<td>Plane stage Size: 160(W) x 250(D) mm, stage insert plate type (no accessories)</td>
</tr>
<tr>
<td><strong>Mechanical stage</strong></td>
<td>Stroke: 120mm(X) x 78(Y) mm Coaxial handle: attachable to right/left side of stage Use special stage plate CK40M-CP to observe samples up to ø50 mm.</td>
</tr>
<tr>
<td><strong>Illumination</strong></td>
<td>Built-in aperture diaphragm (Lever operation type) Various ø25 mm filters can be inserted</td>
</tr>
<tr>
<td><strong>Light source</strong></td>
<td>6V30WHAL-L: long-life halogen lamp 6V30WHAL: High intensity halogen lamp Rated power output: 6V<del>30VA Rated input voltage, current and frequency: 100-120V/220-240V</del>0.85/0.45A, 50/60Hz</td>
</tr>
<tr>
<td><strong>Observation tube</strong></td>
<td>Eyepieces: Attached to microscope body (F.N. 18) U-CTBI (tilting tube) Inclination angle: 30°-60°, adjustable interpupillary distance range: 48-75 mm</td>
</tr>
<tr>
<td><strong>Eyepieces</strong>:</td>
<td>WHB10X3, WHB10X3-H (F.N. 20) U-CBI30-2 (binocular tube), U-CTR30-2 (trinocular tube) Inclination angle: 30°, interpupillary distance: 48-75 mm</td>
</tr>
<tr>
<td><strong>Eyepieces</strong>:</td>
<td>WHN10X, WHN10X-H, CROSSWHN10X (F.N.22) U-B30-2 (binocular tube), U-TR30-2 (binocular tube) Inclination angle: 30°, interpupillary distance: 50-76 mm</td>
</tr>
<tr>
<td><strong>Eyepieces</strong>:</td>
<td>U-TBI-3 (tilting binocular tube) Inclination angle: 5°-35°, interpupillary distance: 50-76 mm</td>
</tr>
<tr>
<td><strong>Intermediate attachments</strong></td>
<td>U-CA, GX-SPU, U-ECA, U-DA, U-DO3</td>
</tr>
<tr>
<td><strong>Electrical components</strong></td>
<td>Continuous light intensity volume adjustment, built-in voltage exchange switch</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>Maximum power consumption: 85VA 40W</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>236(W) x 24(D) x 407(H) mm (binocular tube)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Approx. 10 kg</td>
</tr>
</tbody>
</table>

**GX41 dimensions**

<table>
<thead>
<tr>
<th>Unit (mm)</th>
</tr>
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<tr>
<td>236(W) x 24(D) x 407(H)</td>
</tr>
</tbody>
</table>

**Stage plate CK40M-CP 1:1 illustration**

![Stage plate CK40M-CP 1:1 illustration](image-url)

•OLYMPUS CORPORATION has obtained ISO9001/ISO14001.

Specifications are subject to change without any obligation on the part of the manufacturer.