Advanced Modular Stereozoom Microscopes
Modular Series

Identify The Most Suitable Heads For Your Needs
OPTIKA provides three series of stereomicroscope heads based on different field number, zoom level (and consequently, zoom ratio), inclination, and working distance. An even more substantial differentiating element is also the optical system: choose between Greenough or Galilean.

Multiple Mounting Stands and Configurations
An extremely wide stand selection gives you the chance to create your tailored stereomicroscope! Choose among the several models available to virtually cover every customers’ needs, in terms of illumination, arm extension, and focusing system.
Modular Stereozoom Microscopes

Overhanging Stand, In Case Of Large Samples
This stand is recommended for efficient, quick and precise observation and digital imaging of large samples, that cannot be processed with regular stands. Achieve 360° rotation and smooth movement with no limits, as the mechanism can be tilted from right to left, backward to forward.

Get the most out of our accessories

ST-172 - Iris diaphragm module
With this accessory, the depth of field of the final image can be adjusted, for applications where different planes all in focus are needed.

Soldered Led Pin - SZP-8 with iris diaphragm module and ST-156 stand.
**Modular Series**

**Applications**
Some application examples demonstrating the versatility of stereomicroscopes with SLX, SZO and SZP heads. Applications in industrial and research are extremely facilitated by the advanced functionality offered.

**Legend**
1. Matrix LED adjustable incident illuminator on ST-156.
2. SZ-STL2H overhanging stand, SZO-T head and CL-41 flexible arm LED illuminator.
3. Sample of copper-brass weld interface.
4. CL-16.1 LED ring illuminator.
5. Oblique illumination using a CLD-01 cold light generator.
7. Applications in electronics manufacturing.
8. CLD-01 LED illuminator with CL-11.1 double-arm optical fiber guide.
OPTIKA provides three series of stereomicroscope heads based on different field number, zoom level (and consequently, zoom ratio), inclination, and working distance. An even more substantial differentiating element is also the optical system: choose between Greenough or Galilean, according to the application.
MODULAR Series - Heads

SLX-B

Part Description
Head: Binocular, 360° rotating on all stands and 45° inclined.
Interpup. distance: Adjustable between 51 and 75 mm.
Dioptic adjustment: On both eyepiece tubes.
Eyepieces: WF10x/21 mm, high eye-point.
Objective: Parfocal achromatic zoom 0.7x...4.5x (zoom factor 6.43:1).
Working distance: 100 mm
Optical system: Greenough (15° inclined)

SLX-T

Part Description
Head: Trinocular (split ratio 50/50), 360° rotating on all stands and 45° inclined.
Interpup. distance: Adjustable between 51 and 75 mm.
Dioptic adjustment: On both eyepiece tubes.
Eyepieces: WF10x/21 mm, high eye-point.
Objective: Parfocal achromatic zoom 0.7x...4.5x (zoom factor 6.43:1).
Working distance: 100 mm
Optical system: Greenough (15° inclined)
## MODULAR Series - Heads

### SZO-B

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head:</td>
<td>Binocular, 360° rotating on all stands and 45° inclined.</td>
</tr>
<tr>
<td>Interpup. distance:</td>
<td>Adjustable between 51 and 75 mm.</td>
</tr>
<tr>
<td>Dioptric adjustment:</td>
<td>On both eyepieces.</td>
</tr>
<tr>
<td>Eyepieces:</td>
<td>WF10x/23 mm, high eye-point.</td>
</tr>
<tr>
<td>Objective:</td>
<td>Parfocal achromatic zoom 0.67x...4.5x (zoom factor 6.72:1) with click-stop detents.</td>
</tr>
<tr>
<td>Working distance:</td>
<td>110 mm</td>
</tr>
<tr>
<td>Optical system:</td>
<td>Greenough (15° inclined)</td>
</tr>
</tbody>
</table>

### SZO-T

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head:</td>
<td>Trinocular (fixed photo port 70/30), 360° rotating on all stands and 45° inclined.</td>
</tr>
<tr>
<td>Interpup. distance:</td>
<td>Adjustable between 51 and 75 mm.</td>
</tr>
<tr>
<td>Dioptric adjustment:</td>
<td>On both eyepieces.</td>
</tr>
<tr>
<td>Eyepieces:</td>
<td>WF10x/23 mm, high eye-point.</td>
</tr>
<tr>
<td>Objective:</td>
<td>Parfocal achromatic zoom 0.67x...4.5x (zoom factor 6.72:1) with click-stop detents.</td>
</tr>
<tr>
<td>Working distance:</td>
<td>110 mm</td>
</tr>
<tr>
<td>Optical system:</td>
<td>Greenough (15° inclined)</td>
</tr>
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</table>
MODULAR Series - Heads

**SZP-6, SZP-8, SZP-10**

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head</td>
<td>Binocular, 360° rotating on all stands and 30° inclined.</td>
</tr>
<tr>
<td>Interpup. distance</td>
<td>Adjustable between 52 and 75 mm.</td>
</tr>
<tr>
<td>Dioptic adjustment</td>
<td>On both eyepieces.</td>
</tr>
<tr>
<td>Eyepieces</td>
<td>WF10x/24 mm, high eye-point.</td>
</tr>
<tr>
<td><strong>SZP-6 zoom body</strong></td>
<td>Parfocal achromatic zoom 0.8x...5.0x (zoom factor 6.25:1).</td>
</tr>
<tr>
<td><strong>SZP-8 zoom body</strong></td>
<td>Parfocal achromatic zoom 0.8x...6.4x (zoom factor 8:1).</td>
</tr>
<tr>
<td><strong>SZP-10 zoom body</strong></td>
<td>Parfocal achromatic zoom 0.8x...8.0x (zoom factor 10:1).</td>
</tr>
<tr>
<td>Objective lens</td>
<td>Plan Achromatic 1x.</td>
</tr>
<tr>
<td>Working distance</td>
<td>80 mm.</td>
</tr>
<tr>
<td>Optical system</td>
<td>Galilean (Parallel, infinity corrected).</td>
</tr>
</tbody>
</table>

**SZP-6e, SZP-8e, SZP-10e**

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head</td>
<td>Ergonomical binocular, 360° rotating on all stands and freely inclinable from 0° to 35°.</td>
</tr>
<tr>
<td>Interpup. distance</td>
<td>Adjustable between 55 and 80 mm.</td>
</tr>
<tr>
<td>Dioptic adjustment</td>
<td>On both eyepieces.</td>
</tr>
<tr>
<td>Eyepieces</td>
<td>WF10x/24 mm, high eye-point.</td>
</tr>
<tr>
<td><strong>SZP-6e zoom body</strong></td>
<td>Parfocal achromatic zoom 0.8x...5.0x (zoom factor 6.25:1).</td>
</tr>
<tr>
<td><strong>SZP-8e zoom body</strong></td>
<td>Parfocal achromatic zoom 0.8x...6.4x (zoom factor 8:1).</td>
</tr>
<tr>
<td><strong>SZP-10e zoom body</strong></td>
<td>Parfocal achromatic zoom 0.8x...8.0x (zoom factor 10:1).</td>
</tr>
<tr>
<td>Objective lens</td>
<td>Plan Achromatic 1x.</td>
</tr>
<tr>
<td>Working distance</td>
<td>80 mm.</td>
</tr>
<tr>
<td>Optical system</td>
<td>Galilean (Parallel, infinity corrected).</td>
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### MODULAR Series - Optical Performance

#### SLX Heads

<table>
<thead>
<tr>
<th>Eyepiece</th>
<th>10x (ST-081)</th>
<th>15x (ST-082)</th>
<th>20x (ST-083)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field number (mm)</td>
<td>21</td>
<td>15</td>
<td>10</td>
</tr>
<tr>
<td>Objective</td>
<td>Total magnification</td>
<td>Field of View (mm)</td>
<td>Total magnification</td>
</tr>
<tr>
<td>0.5x (W.D. 165 mm)</td>
<td>3.5x-22.5x</td>
<td>60.00-9.23</td>
<td>5.25x-33.75x</td>
</tr>
<tr>
<td>0.75x (W.D. 177 mm)</td>
<td>5.25x-33.75x</td>
<td>40.00-6.22</td>
<td>7.875x-60.625x</td>
</tr>
<tr>
<td>1x (W.D. 100 mm)</td>
<td>7x-45x</td>
<td>30.00-4.66</td>
<td>10.5x-67.5x</td>
</tr>
<tr>
<td>1.5x (W.D. 47 mm)</td>
<td>10.5x-67.5x</td>
<td>20.00-3.11</td>
<td>15.75x-101.25x</td>
</tr>
<tr>
<td>2x (W.D. 33 mm)</td>
<td>14x-90x</td>
<td>15.00-2.33</td>
<td>21x-135x</td>
</tr>
</tbody>
</table>

#### SZO Heads

<table>
<thead>
<tr>
<th>Eyepiece</th>
<th>10x (ST-301)</th>
<th>15x (ST-302)</th>
<th>20x (ST-303)</th>
<th>25x (ST-144)</th>
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<tbody>
<tr>
<td>Field number (mm)</td>
<td>23</td>
<td>16</td>
<td>12</td>
<td>9</td>
</tr>
<tr>
<td>Objective</td>
<td>Total magnification</td>
<td>Field of View (mm)</td>
<td>Total magnification</td>
<td>Field of View (mm)</td>
</tr>
<tr>
<td>0.3x (W.D. 287 mm)</td>
<td>2.0lx-13.5x</td>
<td>114.43-17.04</td>
<td>3.0lx-20.25x</td>
<td>79.60-11.85</td>
</tr>
<tr>
<td>0.5x (W.D. 177 mm)</td>
<td>3.35x-22.5x</td>
<td>68.66-10.22</td>
<td>5.02x-33.75x</td>
<td>47.76-7.11</td>
</tr>
<tr>
<td>0.75x (W.D. 120 mm)</td>
<td>5.02x-33.75x</td>
<td>43.77-6.81</td>
<td>7.54x-50.63x</td>
<td>31.84-4.74</td>
</tr>
<tr>
<td>1x (W.D. 110 mm)</td>
<td>6.7x-45x</td>
<td>34.33-5.11</td>
<td>10.05x-67.50x</td>
<td>23.88-3.56</td>
</tr>
<tr>
<td>1.5x (W.D. 47 mm)</td>
<td>10.5x-67.5x</td>
<td>22.89-3.41</td>
<td>15.08x-101.25</td>
<td>15.92-2.37</td>
</tr>
<tr>
<td>2x (W.D. 26 mm)</td>
<td>13.4x-90x</td>
<td>17.16-2.56</td>
<td>20.10x-135.00x</td>
<td>11.94-1.78</td>
</tr>
</tbody>
</table>

#### SZP Heads

##### Optical performance SZP-6 / SZP-6e

<table>
<thead>
<tr>
<th>Eyepiece</th>
<th>10x (ST-160)</th>
<th>15x (ST-161)</th>
<th>20x (ST-162)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field number (mm)</td>
<td>24</td>
<td>15</td>
<td>10</td>
</tr>
<tr>
<td>Objective</td>
<td>Total magnification</td>
<td>Field of View (mm)</td>
<td>Total magnification</td>
</tr>
<tr>
<td>0.3x (W.D. 280 mm)</td>
<td>2.4x-19.2x</td>
<td>100.00-12.50</td>
<td>3.6x-28.8x</td>
</tr>
<tr>
<td>0.5x (W.D. 165 mm)</td>
<td>4x-32x</td>
<td>60.00-7.50</td>
<td>6x-48x</td>
</tr>
<tr>
<td>1x (W.D. 80 mm)</td>
<td>8x-64x</td>
<td>30.00-3.75</td>
<td>12x-96x</td>
</tr>
<tr>
<td>2x (W.D. 32.5 mm)</td>
<td>16x-128x</td>
<td>15.00-1.88</td>
<td>24x-192x</td>
</tr>
</tbody>
</table>

##### Optical performance SZP-8 / SZP-8e

<table>
<thead>
<tr>
<th>Eyepiece</th>
<th>10x (ST-160)</th>
<th>15x (ST-161)</th>
<th>20x (ST-162)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field number (mm)</td>
<td>24</td>
<td>15</td>
<td>10</td>
</tr>
<tr>
<td>Objective</td>
<td>Total magnification</td>
<td>Field of View (mm)</td>
<td>Total magnification</td>
</tr>
<tr>
<td>0.3x (W.D. 280 mm)</td>
<td>2.4x-24x</td>
<td>100.00-10.00</td>
<td>3.6x-36x</td>
</tr>
<tr>
<td>0.5x (W.D. 165 mm)</td>
<td>4x-40x</td>
<td>60.00-6.00</td>
<td>6x-60x</td>
</tr>
<tr>
<td>1x (W.D. 80 mm)</td>
<td>8x-80x</td>
<td>30.00-3.00</td>
<td>12x-120x</td>
</tr>
<tr>
<td>2x (W.D. 32.5 mm)</td>
<td>16x-160x</td>
<td>15.00-1.50</td>
<td>24x-240x</td>
</tr>
</tbody>
</table>
### ACCESSORIES FOR SLX HEADS

#### Eyecups & Eyepieces
- **ST-036** Eyecups (pair), curved
- **ST-081** EW10x/21 eyepieces (pair), high eyepoint, with rubber cup
- **ST-082** WF15x/15 eyepieces (pair), high eyepoint
- **ST-083** WF20x/10 eyepieces (pair), high eyepoint
- **ST-084** WF10x/21 micrometric eyepiece, high eyepoint, with rubber cup

#### Additional Lenses
- **ST-085.1** Additional lens 0.5x (w.d. 165mm) with SZ-EXT working distance enlarger
- **ST-086.1** Additional lens 1.5x (w.d. 45mm) with compensating disc
- **ST-087** Additional lens 2x (w.d. 33mm)

#### Camera Adapters
- **M-173** C-Mount projection lens for APS-C/full frame reflex cameras (trino)
- **M-090** 0.35x focusable C-Mount adapter (stereomicroscopes)
- **M-090.1** 0.5x focusable C-Mount adapter (stereomicroscopes)
- **M-090.2** 0.65x focusable C-Mount adapter (stereomicroscopes)

#### Miscellaneous
- **ST-090** 0.35x focusable C-Mount adapter (stereomicroscopes)
- **ST-090.1** 0.5x focusable C-Mount adapter (stereomicroscopes)
- **ST-090.2** 0.65x focusable C-Mount adapter (stereomicroscopes)
- **M-620.3** 1x focusable C-Mount adapter (biological & stereomicroscopes)

### ACCESSORIES FOR SZP HEADS

#### Eyecups & Eyepieces
- **ST-160** WF10x/24 eyepiece, high eyepoint, focusable, with rubber cup
- **ST-161** WF15x/16 eyepieces (pair), focusable, with rubber cup
- **ST-162** WF20x/12 eyepieces (pair), focusable, with rubber cup
- **ST-163** WF10x/24 micrometric eyepiece, high eyepoint, focusable, rubber cup

#### Additional Lenses
- **ST-165** 0.3x objective (w.d. 280mm)
- **ST-166** 0.5x objective (w.d. 118mm)
- **ST-167** 2x objective (w.d. 32.5mm)

#### Camera Adapters
- **M-113.1** Ring adapter, 30mm (for monocular and binocular microscopes)
- **M-115** 0.35x C-Mount projection lens
- **M-117** 0.75x C-Mount projection lens
- **M-173** C-Mount projection lens for APS-C/full frame reflex cameras (trino)
- **M-699** Universal adapter for C-Mount projection lens (trino)
- **ST-090** 0.35x focusable C-Mount adapter (stereomicroscopes)
- **ST-090.1** 0.5x focusable C-Mount adapter (stereomicroscopes)
- **ST-090.2** 0.65x focusable C-Mount adapter (stereomicroscopes)
- **M-620.3** 1x focusable C-Mount adapter (biological & stereomicroscopes)

#### Miscellaneous
- **15104** Cleaning kit
- **ST-151** HBO 100W high-pressure mercury bulb for fluorescence
- **ST-151.1** HBO 100W high-pressure mercury bulb for fluorescence (OSRAM)
- **ST-098** Polarisation set (filters and rotating stage - specify stand diameter)
- **ST-170** Photo/Video beam splitter - 1 port
- **ST-171** Photo/Video beam splitter - 2 port
- **ST-172** Iris diaphragm module
- **ST-176** Protective glass for stereohead
- **SZP-FL-EU** HBO fluo attachment, 3-pos. (B & G filter set), EU
- **SZP-FL-UK** HBO fluo attachment, 3-pos. (B & G filter set), UK
- **SZP-FL-US** HBO fluo attachment, 3-pos. (B & G filter set), US
- **VP-SZP** IQ/OQ/PQ manual for SZP series

### ACCESSORIES FOR SZO HEADS

#### Eyecups & Eyepieces
- **ST-144** WF25x/9 eyepieces (pair), high eyepoint, focusable, with rubber cup
- **ST-301** WF10x/23 eyepieces (pair), high eyepoint, focusable, with rubber cup
- **ST-302** WF15x/16 eyepieces (pair), high eyepoint, focusable, with rubber cup
- **ST-303** WF20x/12 eyepieces (pair), high eyepoint, focusable, with rubber cup
- **ST-305** WF10x/23 micrometric eyepiece, high eyepoint, focusable, rubber cup

#### Additional Lenses
- **ST-102** Additional lens 0.3x (w.d. 287mm)
- **ST-103** Additional lens 0.5x (w.d. 177mm)
- **ST-104** Additional lens 0.75x (w.d. 120mm)
- **ST-105** Additional lens 1.5x (w.d. 47mm)
- **ST-106** Additional lens 2x (w.d. 26mm)

#### Camera Adapters
- **M-113.1** Ring adapter, 30mm (for monocular and binocular microscopes)
- **M-115** 0.35x C-Mount projection lens
- **M-117** 0.75x C-Mount projection lens
- **M-173** C-Mount projection lens for APS-C/full frame reflex cameras (trino)
- **M-699** Universal adapter for C-Mount projection lens (trino)
- **ST-090** 0.35x focusable C-Mount adapter (stereomicroscopes)
- **ST-090.1** 0.5x focusable C-Mount adapter (stereomicroscopes)
- **ST-090.2** 0.65x focusable C-Mount adapter (stereomicroscopes)
- **M-620.3** 1x focusable C-Mount adapter (biological & stereomicroscopes)

#### Miscellaneous
- **15104** Cleaning kit
- **DC-002** Plastic dust cover, medium, 490(l)x490(h) mm
- **M-005** Micrometric slide, 26x76mm, with 2 scales (1mm/100 & 10mm/100)
- **ST-092** Protective glass for stereohead
- **VP-SZ** IQ/OQ/PQ manual for SZ series
MODULAR Series - Stands

An extremely wide stand selection gives you the chance to create your tailored stereomicroscope! Choose among the several models available to virtually cover every customers’ needs, in terms of illumination, arm extension, and focusing system.
MODULAR Series - Stands

**ST-150**

Large, simple plain stand with head holder and focusing mechanism. **Pillar type.**
Base size: 320x290 mm. Pillar size: Ø32x360 mm.

**ST-151**

Large, simple plain stand with head holder and focusing mechanism. **Pillar type.**
Base size: 320x290 mm. Pillar size: Ø32x360 mm.

**ST-152**

Large, simple plain stand with head holder and focusing mechanism. **Fixed arm type.**
Base size: 320x280 mm. Fixed arm height: 360 mm.

**ST-153**

Large, simple plain stand with head holder and focusing mechanism. **Fixed arm type.**
Base size: 320x290 mm. Fixed arm height: 360 mm.

**LED transmittted illumination** and adjustable intensity control.
MODULAR Series - Stands

ST-155

Modern, large plain stand equipped with LED transmitted and incident illumination, both with intensity control. It comes complete of head holder and focusing mechanism. Base size: 330x290 mm. Height: 40 mm. Fixed arm height: 340 mm. Head not included.

ST-156

Modern, large plain stand equipped with LED transmitted and incident illumination, both with intensity control. It comes complete of head holder and coaxial coarse and fine focusing system. Base size: 330x290 mm. Height: 40 mm. Fixed arm height: 340 mm. Head not included.

SZ-STL8

Modern stand equipped with the exclusive X-LED\textsuperscript{3} lighting system located in two flexible arms and extra-large settable X-LED\textsuperscript{T3} transmitted illumination for enhanced brightness and improved sample observation.

Incident illuminator: Two X-LED\textsuperscript{3} (single LED, 3.6W) on flexible gooseneck. Illuminance: 170,000 lux (at 10 cm distance).

Transmitted illuminator: X-LED\textsuperscript{T3} (60 LEDs). Base size: 270x210 mm. Height: 30 mm. Pillar: Ø32x315 mm. Multi-plug 100-240Vac/12Vdc external power supply.
MODULAR Series - Stands

**SZ-STL1H**

Extremely stable overhanging stand complete of head holder and focusing system for perpendicular observation of particularly large specimens. Smooth horizontal and vertical movements are ensured. In case illumination is needed, choose from the wide choice of external illuminators available.

Base dimensions: 230x230 mm.
Pillar: Ø32x420 mm.
Horizontal arm: 430 mm.

**SZ-STL2H**

Extremely stable, hinged and long overhanging stand complete of head holder and focusing system for observation of particularly large specimens. The head can be easily tilted for inspection at oblique angles ideal e.g. for stone setters. Smooth horizontal and vertical movement are ensured. In case illumination is needed, choose from the wide choice of external illuminators available.

Base dimensions: 255x210 mm.
Pillar: Ø32x420 mm.
Horizontal arm: 670 mm.
MODULAR Series - Stands

SZ-STL5

Highly versatile flexible arm stand, 360° rotating, ideal for industrial applications. It comes complete of head holder with focusing system and all the supports for table clamp and wall mount. Small footprint is ensured when not in use, saving valuable space on the bench.

Wall mount & table clamp, both included

SZ-STL5LED

Mechanical component
SZ-STL5LED and SZM-T

Highly versatile flexible arm stand, 360° rotating, ideal for industrial applications. It comes complete of the settable and exclusive X-LED® incident illumination system, head holder with focusing system and all the supports for table clamp and wall mount. Small footprint is ensured when not in use, saving valuable space on the bench. Head not included. Multi-plug 100-240Vac/6Vdc external power supply.
Extremely stable, long overhanging stand complete of head holder and focusing system for observation of particularly large specimens. The head can be easily swivelled and tilted for inspection at oblique angles. Smooth horizontal and vertical movements are ensured. In case illumination is needed, choose from the wide choice of external illuminators available.

Base dimensions: 210×255 mm.
Pillar: Ø32×425 mm.
Horizontal arm: 790 mm (movement range 330 mm).
Swivel: 360°
Tilt: 180°
Weight: 16.25 kg
Head not included.
MODULAR Series - Accessories

Most of the time, it is of fundamental importance to combine a stereomicroscope with the right accessories, such as attachments, illuminators to provide an efficient illumination and achieve the best working conditions possible. and moving or heating stages are necessary for some specific applications.
Attachment for fluorescence applications for SZP stereomicroscopes only.

Used in many applications like biology, botany, electronics, materials, forensics. Equipped with HBO 100W mercury lamp illuminator. To be combined with ST-150 or ST-151 stand.

### SZP-FL - Epi-Fluorescence Attachment

#### Description:
SZP fluorescence attachment for biology, industrial inspection, criminal justice, etc. Essential tool for security printing and mineral research.

#### Illumination:
100W HBO high-pressure mercury bulb. Average lamp lifetime: 400 hours. Input voltage: 110/240Vac, 50/60Hz, 1A; Fuse: F8AL 250V. Maximum input power: 125W. Current and time counter LED displays.

#### Photo Attachment:
Trinocular output Photo/Video port.

<table>
<thead>
<tr>
<th>Name</th>
<th>Excitation filter (nm)</th>
<th>Dichroic mirror cut-off (nm)</th>
<th>Emission filter (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B Blue</td>
<td>460 - 500</td>
<td>505</td>
<td>510LP</td>
</tr>
<tr>
<td>G Green</td>
<td>510 - 550</td>
<td>570</td>
<td>575LP</td>
</tr>
</tbody>
</table>
MODULAR Series - Illuminators

CLD-01

Flexible and professional cold light illuminator with high power, extra-efficiency 14W LED system, extremely bright and uniform.

- Optical power: >1000 lumen.
- Color temperature: pure white 6,300 K.
- Brightness control potentiometer, external power supply.

Illuminance (at 10 cm distance):
- 100,000 lux.

Optional accessory:
- CL-17.1: Polarizing filters (pair) for CL-11.1.

CLD-01 Accessories
The output can be coupled to the following accessories:

- CL-11.1: Double-arm optical fiber guide with focusing lenses. Arm length 500 mm.
- CL-17.1: Polarizing filters (pair) for CL-11.1.
- CL-12: Ring optical fiber guide (length 700 mm).
  - Guide diameter 16 mm.
  - Diameter of the fixing ring: 55mm.
  - The circular end is suitable for all stereo series.

CL-11.1

Double-arm guide for CLD-01, with focusing lenses.
- Arm length 500 mm. Each arm fitted with focusable lens adapter.
- Illuminance (at 10 cm distance): 100,000 lux.

CL-12

Ring optical fiber guide for CLD-01.
- Length 700 mm, diameter 16 mm.
- The circular end is suitable for all series, by using the three locking screws.
- Diameter of the fixing ring: 55 mm.
- Illuminance (at 10 cm distance): 40,000 lux.
MODULAR Series - Illuminators

**CL-32**

- Arm illuminator with magnetic fixing plate, USB powered.
- Light sources: LED; With 2W high efficiency LED.
- Color temperature: pure white 6,300 K;
- Luminous flux: 200 lm;
- Illuminance: 20,000 (on 5 cm diameter).

**CL-33**

- Pair of arm illuminators with magnetic fixing plates, metal base, USB.
- Light sources: LED; With 2W high efficiency LEDs.
- Color temperature: pure white 6,300 K;
- Luminous flux: 200 lm (x2);
- Illuminance: 20,000 (on 5 cm diameter) (x2).

**CL-32/CL-33 quick connection**

- Place the adhesive disk in the preferred position on the instrument.
- Magnetically connect the arm and remove it for every need.

**CL-41**

- Double-arm X-LED³ illuminator, with brightness control.
- Light sources: With 3.6 W high efficiency X-LED³.
- Color temperature: pure white 6,300 K;
- Luminous flux: 400 lm each arm;
- Illuminance: 170,000 lux (at 10 cm distance).
- Multi-plug 100-240Vac/12Vdc external power supply.
MODULAR Series - Illuminators

**CL-14**

56-LED ring light illuminator, with brightness control. Compact, with 360° rotating ring connector. Illuminance (at 10 cm distance): >8,000 lux. Suitable for LAB, SZM and SZO.

**CL-16.1**

Professional lighting system including 144 LEDs (2W total power) for enhanced light uniformity and brightness. The ring light illumination is divided into 4 different zones, individually adjustable for selectable light zones. The separated, external control panel prevents interferences during use, whilst the sturdy metal structure makes it more durable and resistant. Diameter of the fixing ring: 60mm. Color temperature: pure white 6,300 K. Illuminance: 6,000 lux (at 10 cm distance).

**CL-18**

Professional lighting system including 96 LEDs for enhanced light uniformity and brightness, and built-in rotating polarizing filter and analyzer filters for complete polarization, ideal to reduce glares and reflections when viewing metallic parts. Provided with on-board intensity level adjustment. Diameter of the fixing ring: 60mm. Color temperature: pure white 6,300 K. Illuminance: 9,000 lux (at 10 cm distance).
**MODULAR Series - Stages**

**ST-100 & ST-100.1**

- **Hand moving stage**
  - Dimensions: 185x145mm.
  - Range: 56mm (X) x 35mm (Y).
  - ST-100: model for SZM-1 and SZM-2.
  - ST-100.1: model for SZM-LED1, SZM-LED2 and SZO.
  - Please note that this item cannot be combined with SZO-5, SZO-6 and SZ-STL8. Specific versions available also for other models.
  - Note: Fastening on microscope base on request.

**ST-110 & ST-110.1**

- **Moving stage, with knobs**
  - Dimensions: 180x155mm. Range: 75mm (X) x 54mm (Y).
  - ST-110.1: model for SZM-LED1, SZM-LED2 and SZO.
  - Please note that this item cannot be combined with SZO-5, SZO-6 and SZ-STL8. Specific versions available also for other models.
  - Note: Fastening on microscope base on request.

**ST-111 & ST-111.1**

- **Moving stage, with micrometer screws**
  - Manual positioning stage, using micrometer screws.
  - Dimensions: 185x145mm. Range: 25mm (X) x 25mm (Y).
  - Micrometer screws resolution: 0.01mm.
  - ST-111: model for SZM-1 and SZM-2.
  - ST-111.1: model for SZM-LED1, SZM-LED2 and SZO.
  - Please note that this item cannot be combined with SZO-5, SZO-6 and SZ-STL8. Specific versions available also for other models.
  - Note: Fastening on microscope base on request.

**ST-666 & ST-666.1**

- **Heating stage, round**
  - Temperature range: 20°C (room temperature) – 50°C.
  - Temperature setting resolution: 1°C. Temperature measuring resolution: 0.1°C. Display: LED display for set temperature. LED display for measured temperature.
  - ST-666.1: model for SZM-LED1, SZM-LED2, SZO and SZ-STL8.
  - Specific versions available also for other models.
  - Note: Fastening on microscope base on request.
**MODULAR Series - General Accessories**

### Miscellaneous

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>15104</td>
<td>Cleaning kit</td>
</tr>
<tr>
<td>DC-002</td>
<td>Plastic dust cover, medium, 490(l)x490(h) mm</td>
</tr>
<tr>
<td>DC-003</td>
<td>TNT dust cover, medium, 600(l)x550(h) mm</td>
</tr>
<tr>
<td>DC-004</td>
<td>TNT dust cover, large, 700(l)x550(h) mm</td>
</tr>
<tr>
<td>M-005</td>
<td>Micrometric slide, 26x76mm, with 2 scales (1mm/100 &amp; 10mm/100)</td>
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**15104 - Cleaning kit**

It cleans glass quickly and effectively, without leaving residue or odor. Ideal for precision lens or prism cleaning.

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How to connect the cameras to our microscopes.

Please refer to the Adapter reference list on Digital section.