
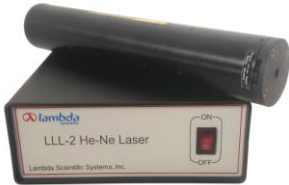



## 2. Parts of LEOK-3

### 2.1 Light Sources


<b>Bromine Tungsten Lamp (LLC-3)</b> 12 V/35 W (variable) with power supply (100 to 240VAC, 50/60Hz) <i>1 set</i>		<b>He-Ne Laser (LLL-2)</b> 1.5 mW with power supply (120 or 220 VAC, 50/60Hz) <i>1 set</i>	
<b>Low Pressure Mercury/Sodium Lamp (LLE-1/2)</b> w/ ground glass and small hole plates <i>1 set</i>		20 W (120 or 220 VAC, 50/60Hz) <i>Note: this set includes one power supply, one Mercury bulb housing and one Sodium bulb housing. The power supply is shared between both bulbs. The actual power supply may look different from the one shown left.</i>	

### 2.2 Mechanical Hardware

<b>3-Axis Stage (SZ-01)</b> X & Y translation (10mm travel and 0.01mm resolution) , Z-adjustable (30mm) with a magnetic base <i>1 piece</i>		<b>Two-Axis Stage (SZ-02)</b> X translation stage (10mm travel and 0.01mm resolution) Z-adjustable (30mm) with a magnetic base <i>2 pieces</i>	
<b>Z-Adjustable Stage (SZ-03)</b> Travel 30mm with a magnetic base <i>2 pieces</i>		<b>Magnetic Base (SZ-04)</b> With post holder <i>5 pieces</i>	
<b>Rotary Lens Holder (SZ-06A)</b> 360° axial rotatory, $\Phi 40$ mm, for mounting polarizer, lens etc. <i>2 pieces</i>		<b>Kinematic Holder (SZ-07)</b> $\Phi 40$ mm for mounting optical components such as lenses, mirrors, gratings, reticle, etc. <i>2 pieces</i>	
<b>Lens Holder (SZ-08)</b> $\Phi 40$ mm <i>2 pieces</i>		<b>Adapter Piece (SZ-09)</b> By using this piece, two optical components can stand closer. <i>1 piece</i>	
<b>Grating/Prism Table (SZ-10)</b> 30° Z-axis rotation, two directions tilt-able <i>1 piece</i>		<b>Plate Holder A (SZ-12)</b> One direction tilt-able (pitch) <i>2 pieces</i>	

<b>White Screen (SZ-13)</b> Uniform diffusing paint <i>1 piece</i>		<b>Object Screen (SZ-14)</b> Symmetrical triangle holes uniform diffusing paint <i>1 piece</i>	
<b>Sample Stage (SZ-20)</b>  <i>1 piece</i>		<b>Multi-Pinhole Disc Assembly (SZ-23A)</b> $\Phi 0.15, 0.30, 0.50, 0.70, 1.0, 1.5$ mm <i>1 piece</i>	
<b>Adjustable Slit (SZ-27B)</b> Slit width 0–2 mm, (if mounted onto SZ-41, slit direction can tilt within $\pm 5^\circ$ ) <i>2 pieces</i>		<b>Lens Group Holder (SZ-28)</b> Movable on rail for nodal measurement  <i>1 piece</i>	
<b>Erecting prism (SZ-30)</b> Used for inverting image in two directions  <i>1 piece</i>		<b>Stand Ruler (SZ-33)</b> Used for experiment of measuring telescope's magnification (with a tripod) <i>1 piece</i>	
<b>DMM Holder (SZ-36)</b> * DMM is the abbreviation of Direct Measuring Microscope  <i>1 piece</i>		<b>Newton Ring Assembly (SZ-37B)</b>  <i>1 piece</i>	
<b>Biprism Holder (SZ-41)</b> Can attach a biprism or other optical component to it, and rotate within $\pm 5^\circ$ .  <i>1 piece</i>		<b>Laser Holder (SZ-42)</b> Allows attaching a He-Ne laser and other tubular part to it.  <i>1 piece</i>	
<b>45° Glass Holder (SZ-45)</b> Used for microscope magnification experiment.  <i>1 piece</i>		<b>Optical Goniometer (SZ-47)</b> Used for polarization caused by reflection and refraction, measuring Brewster angle at accuracy of $0.5^\circ$ . <i>1 piece</i>	
<b>Iceland Crystal (SZ-48)</b> Used for crystal birefringence experiment.  <i>1 piece</i>		<b>Ground Glass Screen (SZ-49)</b>  <i>1 piece</i>	
<b>Paper Clip (SZ-50)</b> Used for Abbe's theory of image formation and experiment of space filtering.  <i>1 piece</i>		<b>Manual Counter</b> 4 digit, counts 0 ~ 9999  <i>1 piece</i>	

## 2.3 Optical Components

<p>Mounted Lenses: <math>f = 4.5, 6.2, 29, 45, 50, 70, 105, 150, 190, 225, 300, -100</math> mm, <i>1 piece each</i></p> <p>Mounted Transmission Grating: 20 l/mm, <i>1 piece</i></p> <p>Mounted 2-Dimensional Grating: 20 l/mm, <i>1 piece</i></p> <p>Flaring Grating (at 500 nm): 1200 l/mm, <math>30 \times 30</math> mm, <i>1 pc</i></p> <p>Spherical Mirror: <math>f = 300</math> mm, <i>1 piece</i></p> <p>Mounted Flat Mirrors: <math>\Phi 36</math> mm, <i>2 pieces</i></p> <p>Mounted Beam Splitter: <math>\Phi 30</math> mm, 5:5 &amp; 7:3, <i>1 piece each</i></p> <p>Equilateral Prism: <math>60^\circ</math>, <i>1 piece</i></p> <p>Mounted Waveplate: <math>\frac{1}{4}\lambda @ 632.8</math> nm, <math>\Phi 10</math> mm, <i>1 piece</i></p> <p>Mounted Polarizer: <math>\Phi 20</math> mm, <i>2 pieces</i></p> <p>Zero Order Filter, <i>1 piece</i></p> <p>Fresnel Bimirror (SZ-31): <i>1 piece</i></p> <p>Lloyd Mirror (SZ-32), <i>1 piece</i></p> <p>Theta Modulation Plate, <i>1 piece</i></p> <p>Transmission Character, <i>1 piece</i></p> <p>Projector Slide, <i>1 piece</i></p> <p>Small Object for Holography, <i>1 piece</i></p> <p>White Screen: <math>70 \times 50</math> mm, <i>1 piece</i></p>	<p>Double-slit, <i>1 piece</i></p> <p>Transmissive Cross, <i>1 piece</i></p> <p>Mounted Reticle: 1/10 mm, <i>1 piece</i></p> <p>Mounted Millimetre Ruler: 30 mm, <i>1 piece</i></p> <p>Mounted Bi-Prism, <i>1 piece</i></p> <p>Mounted Blade, <i>1 piece</i></p> 
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## 2.4 Other Parts

Description	Part No.	Qty	Note
Direct Measurement Microscope	LEPO-56	1	25×
Holographic Plate	GS-I	1 Box	12 pcs, 9x24cm each, glass 530 ~ 700nm, peak @630nm
Air Chamber and Pump with Gauge	SGM-1-05	1	3 ~ 40Kpa/20 ~ 300mmHg used for air index measurement
Box of Optical Components		1	
Magnetic Flexible Ruler		1	1000 mm × 15 mm

\* Notes: All parts are subject to change without notice.