


Parts of LEOK-3A

2.1 Light Sources





<p>Bromine Tungsten Lamp (LLC-3) 12 V/35 W (variable) with power supply (100 to 240VAC, 50/60Hz)</p> <p><i>1 set</i></p>		<p>He-Ne Laser (LLL-2)</p> <p>1.5 mW with power supply (120 or 220 VAC, 50/60Hz)</p> <p><i>1 set</i></p>	
<p>Low Pressure Mercury/Sodium Lamp (LLE-1/2) w/ ground glass and small hole plates</p> <p><i>1set</i></p>		<p>20 W (120 or 220 VAC, 50/60Hz)</p> <p><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></p>	

2.2 Mechanical Hardware


<p>3-Axis Stage (SZ-01) X & Y translation (10mm travel and 0.01mm resolution) , Z-adjustable (30mm) with a magnetic base</p> <p><i>1 piece</i></p>		<p>Two-Axis Stage (SZ-02) X translation stage (10mm travel and 0.01mm resolution) Z-adjustable (30mm) with a magnetic base</p> <p><i>2 pieces</i></p>	
<p>Z-Adjustable Stage (SZ-03) Travel 30mm with a magnetic base</p> <p><i>2 pieces</i></p>		<p>Magnetic Base (SZ-04) With post holder</p> <p><i>5 pieces</i></p>	
<p>Rotary Lens Holder (SZ-06A) 360° axial rotary, Φ40mm, for mounting polarizer, lens etc.</p> <p><i>2 pieces</i></p>		<p>Kinematic Holder (SZ-07) Φ40 mm for mounting optical components such as lenses, mirrors, gratings, reticle, etc.</p> <p><i>2 pieces</i></p>	
<p>Lens Holder (SZ-08) Φ40mm</p> <p><i>2 pieces</i></p>		<p>Adapter Piece (SZ-09) By using this piece, two optical components can stand closer.</p> <p><i>1 piece</i></p>	

<p>Grating/Prism Table (SZ-10) 30° Z-axis rotation, two directions tilt-able <i>1 piece</i></p>	
<p>White Screen (SZ-13) Uniform diffusing paint <i>1 piece</i></p>	
<p>Sample Stage (SZ-20) <i>1 piece</i></p>	
<p>Adjustable Slit (SZ-27B) Slit width 0–2 mm, (if mounted onto SZ-41, slit direction can tilt within $\pm 5^\circ$) <i>2 pieces</i></p>	
<p>Erecting prism (SZ-30) Used for inverting image in two directions <i>1 piece</i></p>	
<p>DMM Holder (SZ-36) * DMM is the abbreviation of Direct Measuring Microscope <i>1 piece</i></p>	
<p>Biprism Holder (SZ-41) Can attach a biprism or other optical component to it, and rotate within $\pm 5^\circ$. <i>1 piece</i></p>	
<p>45° Glass Holder (SZ-45) Used for microscope magnification experiment. <i>1 piece</i></p>	


<p>Plate Holder A (SZ-12) One direction tilt-able (pitch) <i>2 pieces</i></p>	
<p>Object Screen (SZ-14) Symmetrical triangle holes uniform diffusing paint <i>1 piece</i></p>	
<p>Multi-Pinhole Disc Assembly (SZ-23A) $\Phi 0.15, 0.30, 0.50, 0.70, 1.0, 1.5$ mm <i>1 piece</i></p>	
<p>Lens Group Holder (SZ-28) Movable on rail for nodal measurement <i>1 piece</i></p>	
<p>Stand Ruler (SZ-33) Used for experiment of measuring telescope's magnification (with a tripod) <i>1 piece</i></p>	
<p>Newton Ring Assembly (SZ-37B) <i>1 piece</i></p>	
<p>Laser Holder (SZ-42) Allows attaching a He-Ne laser and other tubular part to it. <i>1 piece</i></p>	
<p>Optical Goniometer (SZ-47) Used for polarization caused by reflection and refraction, measuring Brewster angle at accuracy of 0.5°. <i>1 piece</i></p>	



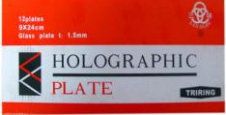


<p>Iceland Crystal (SZ-48) Used for demonstrating crystal birefringence. <i>1 piece</i></p>		<p>Ground Glass Screen (SZ-49) <i>1 piece</i></p>	
<p>Paper Clip (SZ-50) Used for Abbe's theory of image formation and experiment of space filtering. <i>1 piece</i></p>		<p>Manual Counter 4 digit, counts 0 ~ 9999 <i>1 piece</i></p>	

2.3 Optical Components

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

2.4 Other Parts

Description	Specifications	Qty	Note
Light Meter	Range 0~20k lx Resolution 0.1 lx Backlight	1	

Magnetic Flexible Measure Ruler	1000 mm × 15 mm	1	
Direct Measurement Microscope	Range 0 ~ 6 mm Magnification 25×	1	
Holographic Plate	12 pcs, 9x24cm each, glass 530 ~ 700nm, peak @630nm	1 Box	
Air Chamber and Pump with Gauge	3 ~ 40Kpa/20 ~ 300mmHg, used for measuring air index	1	
Polarimeter Tube	Length 200 mm	1	
Box of Optical Components		1	

*** Note: All parts are subject to change without notice.**