



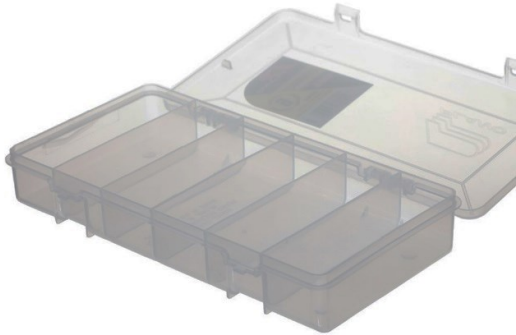
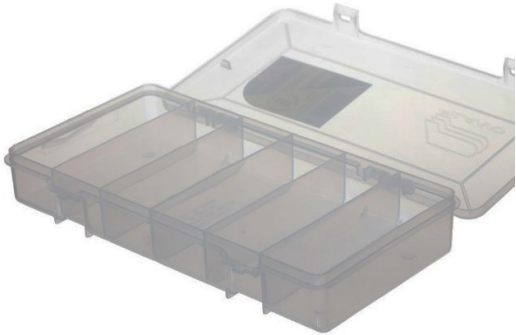


PHOTONICS KIT LIST


1 - Kit = 1 - Work Station for 2 - students

Item #	Equipment Description	Qty/kit
1	Silver Series Plastic Case	1
	 	
2	Plano® Prolatch™ Stowaway Tackle Box	2
	 	
3	Pocket Stowaway 6-Fixed Compartments	2
	 	
4	Base, Mounting, 2" x 3" x 3/8"	2

PHOTONICS KIT LIST

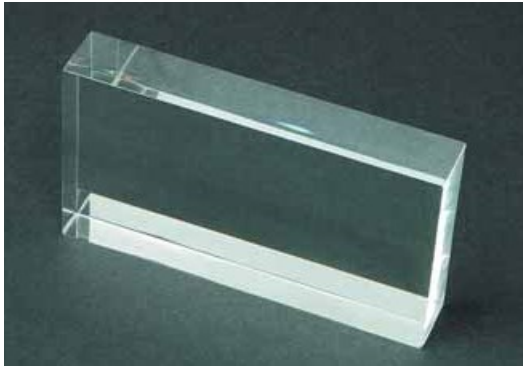
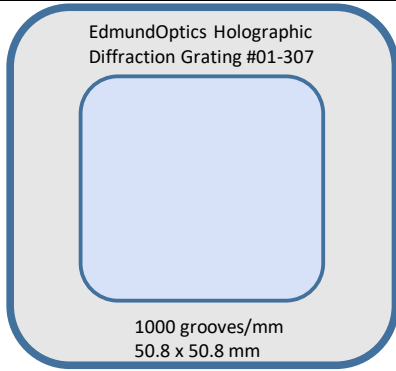

1 - Kit = 1 - Work Station for 2 - students

Based on OPTEC's *Fundamentals of Light Lasers*

Item #	Equipment Description	Qty/kit
	 Two Thorlabs BA2 beam splitters are shown side-by-side. They are dark gray, rectangular components with a slightly raised top surface. Each component features two long, narrow, horizontal slots on the top surface, one on the left and one on the right. Between these slots are three small, circular holes arranged vertically. The bottom-left corner of each component is labeled with the text "BA2" and "THORLABS" in white.	

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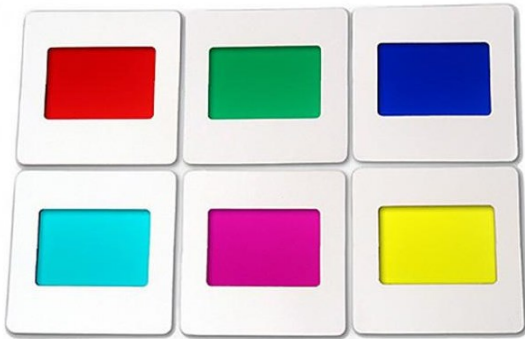
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Item #	Equipment Description	Qty/kit
5	Block, Acrylic, rectangular: 75mm X 50mm X 15 mm.	1
		
6	Diffraction Grating, 1000 lines/mm	1
		
7	Filter Holder, dual	2
		
8	Filter Set, Color (RGB, CMY)	1

PHOTONICS KIT LIST



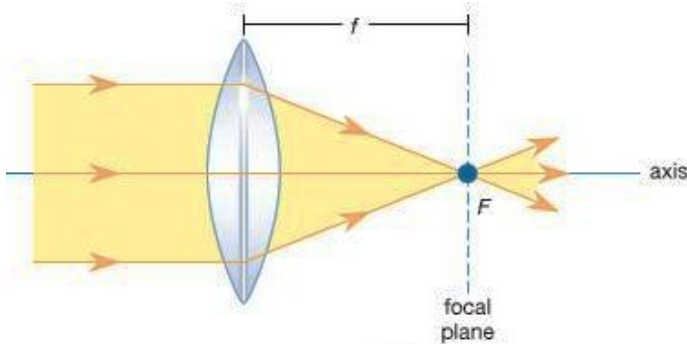
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Item #	Equipment Description	Qty/kit
		

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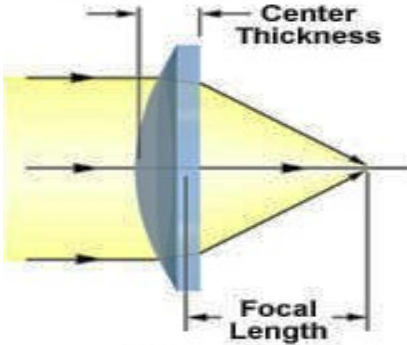
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Item #	Equipment Description	Qty/kit
9	Laser Diode Module, collimated, 635 nm, 1.2 mW ***	2
		
10	Laser Diode Power Supply, 5 VDC, 2.5 mm Phono Plug, 120 VAC	2
	 <p>Location-Specific Power Cord Provided</p>	
11	N-BK7 Bi-Convex Lens, Ø25.4mm, $f = 25.4$ mm, Uncoated	1
		
12	N-BK7 Plano Convex Lens, Ø25.4mm, $f = 200$ mm, Uncoated	1

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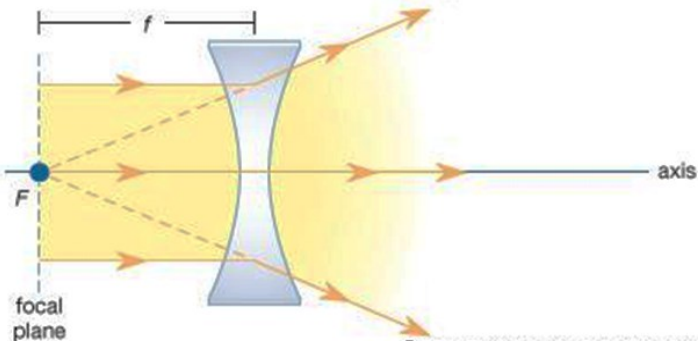


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Based on OPTEC's *Fundamentals of Light Lasers*

Item #	Equipment Description	Qty/kit
	 <p>The diagram illustrates the operation of a converging lens. Parallel light rays, represented by horizontal arrows, enter from the left. The lens is depicted as a blue, biconvex shape. The central portion of the lens is labeled 'Center Thickness'. As the rays pass through the lens, they converge towards a single point on the right, labeled 'Focal Length'. The area between the lens and the focal point is shaded yellow, representing the converging light beam.</p>	

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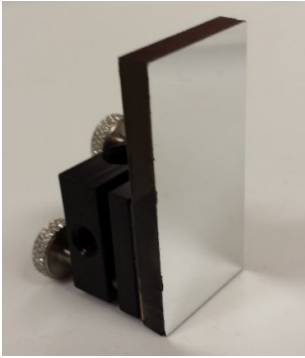
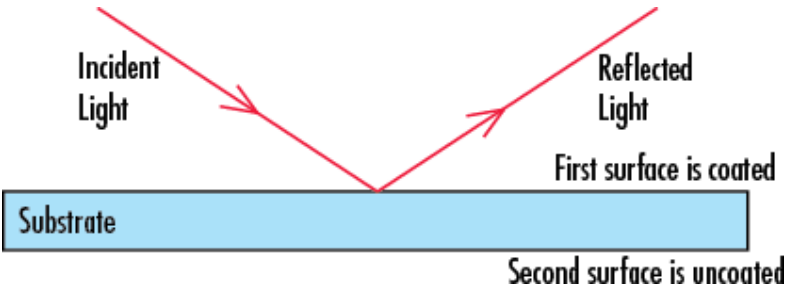
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Item #	Equipment Description	Qty/kit
13	N-BK7 Bi-Concave Lens, Ø25 mm, $f = -25.0$ mm, Uncoated	1
		
14	Lens Mount, Fixed, Inside Diam = 25mm	2
		
15	Kinematic Mirror Mount, no mirror, 25mm x 25mm	2
		
16	Mirror, 25.4mm x 51mm x 6mm, First Surface Mirror, Grade 2	2

PHOTONICS KIT LIST




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Based on OPTEC's *Fundamentals of Light Lasers*

Item #	Equipment Description	Qty/kit
	<div data-bbox="315 654 617 1008"></div> <div data-bbox="905 699 1686 984"><p>Incident Light</p><p>Reflected Light</p><p>First surface is coated</p><p>Substrate</p><p>Second surface is uncoated</p></div>	

PHOTONICS KIT LIST

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Item #	Equipment Description	Qty/kit
17	Optical Breadboard, 30.5cm x 45.7cm x 1.27cm	1
		
18	Photometer, Digital, Low Power	1
		
19	Polarizer, glass, Diameter (\varnothing) = 23mm	1
		
20	Post Holders 3.9mm x 2.54mm	6

PHOTONICS KIT LIST


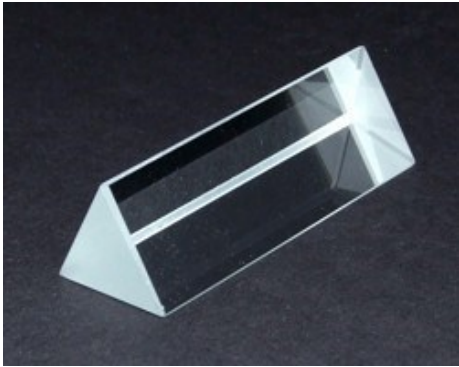
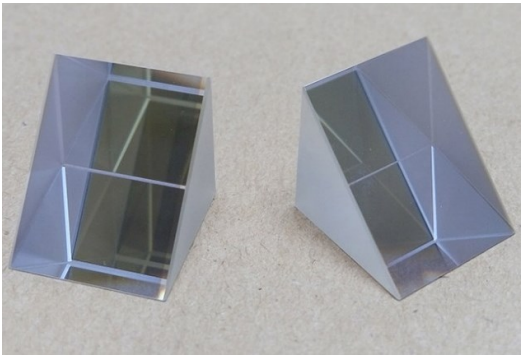
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Item #	Equipment Description	Qty/kit
		

PHOTONICS KIT LIST

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Item #	Equipment Description	Qty/kit
21	Posts 3.9mm x 1.27mm, 2 - pieces to each post	7
	 <p>Removable "top"</p>	
22	Prism, Equilateral, 25mm x 75mm	1
		
23	Prism, Right Angle, 25mm X 25mm, BK9 Optical Glass	2
		
24	Right-Angle Clamp or Post Holder for 1.27mm post	2

PHOTONICS KIT LIST


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Based on OPTEC's *Fundamentals of Light Lasers*

Item #	Equipment Description	Qty/kit
	 Two black, cylindrical fiber optic couplers are shown side-by-side. Each coupler has a central circular opening and two side ports. The side ports are secured with black, knurled caps. The Thorlabs logo and model number 'FC-APC-1060' are visible on the side of each coupler.	

PHOTONICS KIT LIST


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Item #	Equipment Description	Qty/kit
25	Rotation Mount, Ø25mm Optics, 8-32 Tap	1
		
26	Rotation Stage, 6.35mm x 6.35mm	1
		
27	Mounted Precision Pinhole, Ø25mm, $50 \pm 3 \mu\text{m}$ Pinhole Diameter	1
		
28	Single Slit, Ø25mm, Mounted Slit, $100 \pm 4 \mu\text{m}$ Wide, 3 mm Long	1

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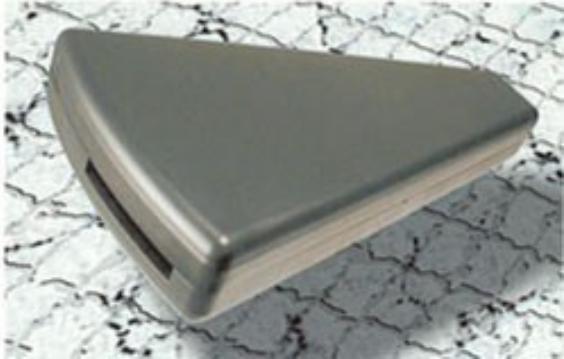



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Item #	Equipment Description	Qty/kit
		

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Item #	Equipment Description	Qty/kit
29	Spectroscope	1
		
30	Translation Stage, single axis, 7.6cm x 10.2cm	1
		
31	V-Clamp with Clamping Arm, Cylindrical Laser Mount, 6.35mm, 2 - piece	1
	 	
32	1/4 Wave Plate, Multiple Order Quartz, Ø=12.7mm, w/mount 25mm	1

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Item #	Equipment Description	Qty/kit
	 A black, circular waveplate with a blue center. The text "THORLABS" is printed at the top, "MULTI ORDER" on the left, "FAST" on the right, and " $\lambda/4$ @ 633nm" at the bottom.	

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Item #	Equipment Description	Qty/kit
33	Coast G19 LED Inspection Flashlight	1
		
34	Microscope Slide	1
		
35	Polarizer, slide mounted	2
		
36	Razorblades, single edge, stainless steel	1

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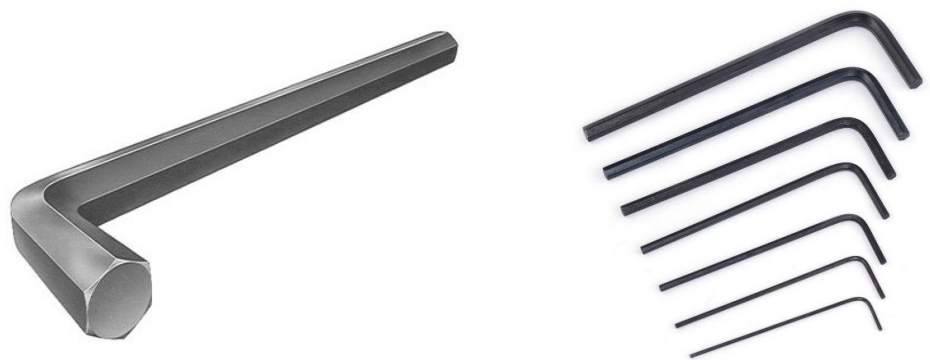

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Item #	Equipment Description	Qty/kit
37	Westcott 45.7mm Stainless Steel Ruler with Non Slip Cork Base, English and Metric	1
		
38	Hardware, Hex Wrench Set , 7-piece	1
		
39	1/4"-20 Stainless Steel Cap Screw, 1/2" Long	6
		
40	1/4"-20 Stainless Steel Setscrew, 1/2" Long	6

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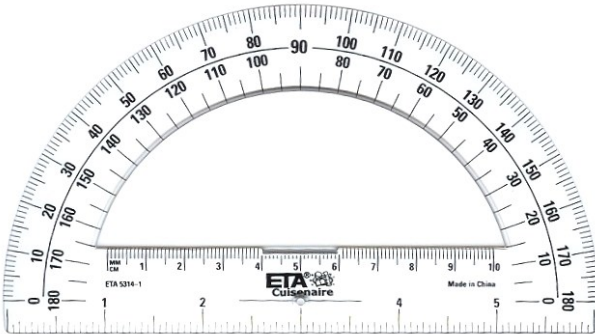

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Item #	Equipment Description	Qty/kit
41	3"x5" Index Card	5
		
42	Protractor	1
		
43	Optical Cleaning Kit, MATIN Lens Cleaning Paper, 50 sheets/pack, 1 pack/kit	1
		
44	Optical Cleaning Kit, Zeiss Pre-Moistened Lens Cleaning Wipes, 5 packets/kit	5

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