

| Description | Qty | Unit Price Estimate | Source | Vendor | Component Name | Used For | Notes |
|-----------------------|-----|------------------------|---|-------------|--|----------|---|
| Aperture mask | 1 | \$~500 | https://lenoxlaser.com/c ontact/ | Lenox Laser | | Aperture | Custom blackened aperture stop: 2.5 mm diameter hole, to mount in a 1" lens mount |
| Lyot stop iris | 1 | \$55 | https://www.thorlabs.co m/thorproduct.cfm?part number=ID15 | Thorlabs | ID15 - Mounted Standard Iris, Ø15.0 mm Max Aperture, TR3 Post | LS | |
| Focal-plane mask | 1 | \$~500 | https://lenoxlaser.com/s hop/optical-apertures/st andard-apertures/pinhol e-mirrors/ | Lenox Laser | Pinhole Mirror | FPM | Diameter: 500 um, Angle of incidence 0 deg |
| FPM translation stage | 1 | \$85 | https://www.thorlabs.co m/thorproduct.cfm?part number=DT12 | Thorlabs | DT12 - 1/2" Dovetail Translation Stage, 8-32 Taps | FPM | |
| FPM protection cap | 1 | \$15 | https://www.thorlabs.co m/thorproduct.cfm?part number=SM1L10 | Thorlabs | SM1L10 - SM1 Lens Tube, 1.00" Thread Depth, One Retaining Ring Included | FPM | |
| 1" lens mount for FPM | 1 | \$30 | https://www.thorlabs.co m/thorproduct.cfm?part number=LMR1S | Thorlabs | LMR1S - Ø1" Lens Mount with Internal and External SM1 Threads, 8-32 Tap | FPM | |
| Glasses for WFE | 1 | \$65 | https://www.thorlabs.co m/thorproduct.cfm?part number=CG15XH1 | Thorlabs | CG15XH1 - Precision Cover Glasses, #1.5H Thickness, Ø25 mm, Pack of 100 | WFE | WFE option #1, pack of 100 |
| Broadband WFE option | 1 | \$60 | https://www.thorlabs.co m/thorproduct.cfm?part number=WG10530 | Thorlabs | WG10530 - Ø1/2" N-BK7 Broadband Precision Window, Uncoated, t = 3 mm | WFE | WFE option #2 |



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| 0.5" lens mount | 2 | \$16 | https://www.thorlabs.co m/thorproduct.cfm?part number=LMR05 | Thorlabs | LMR05 - Lens Mount with Retaining Ring for Ø1/2" Optics, 8-32 Tap | Alignment, WFE | For WFE #2, and FPM aligment |
| 1" lens mount | 3 | \$16 | https://www.thorlabs.co m/thorproduct.cfm?part number=LMR1#ad-ima ge-0 | Thorlabs | LMR1 - Lens Mount with Retaining Ring for Ø1" Optics, 8-32 Tap | Aperture, Beam splitter, Laser | |
| 1"x1" magnetic mounts | 3 | \$80 | https://www.thorlabs.co m/thorproduct.cfm?part number=KB1X1 | Thorlabs | KB1X1 - Complete 1" x 1" Kinematic Base, Top and Bottom Plates, #8 Counterbores | FPM, LS, WFE | |
| Magnetic mount top plate | 1 | \$40 | https://www.thorlabs.co m/thorproduct.cfm?part number=KBT1X1 | Thorlabs | KBT1X1 - Top Plate Only of the KB1X1 Kinematic Base, #8 Counterbore | WFE | For WFE #2 |
| Magnetic mount bottom plates | 3 | \$40 | https://www.thorlabs.co m/thorproduct.cfm?part number=KBB1X1 | Thorlabs | KBB1X1 - Bottom Plate Only of the KB1X1 Kinematic Base, #8 Counterbore | Breadboard | |
| Laser battery pack | 1 | \$40 | https://www.thorlabs.co m/thorproduct.cfm?part number=CPS1 | Thorlabs | CPS1 - 5 VDC Battery Pack for CPS Laser Diodes, 10 000 mAh | Laser | |
| Laser diode | 1 | \$200 | https://www.thorlabs.co m/thorproduct.cfm?part number=CPS532-C2 | Thorlabs | CPS532-C2 - Collimated Laser-Diode-Pumped DPSS Laser Module, 532 nm, 0.9 mW, Round Beam, Ø11 mm Housing | Laser | Collimated green laser at 532 nm, Class II |
| Laser mount/adapter | 1 | \$33 | https://www.thorlabs.co m/thorproduct.cfm?part number=AD11F | Thorlabs | AD11F - SM1-Threaded Adapter for Ø11 mm, ≥0.35" (8.9 mm) Long Cylindrical Components | Laser | |



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| Camera brackets | 2 | \$30 | https://www.thorlabs.co m/thorproduct.cfm?part number=AB90A#ad-im age-0 | Thorlabs | AB90A - Right-Angle Bracket with Counterbored Slots & 1/4"-20 Tapped Holes | Cameras | |
| 1" post (grey) | 2 | \$30 | https://www.thorlabs.co m/thorproduct.cfm?part number=RS2P | Thorlabs | RS2P - Ø1" Pedestal Pillar Post, 1/4"-20 Taps, L = 2" | Cameras | |
| 0.5" post holders (black) | 10 | \$35 | https://www.thorlabs.co m/thorproduct.cfm?part number=UPH2#ad-ima ge-0 | Thorlabs | UPH2 - Ø1/2" Universal Post Holder, Spring Loaded Locking Thumbscrew, L = 2" | Aperture, Beam splitter, LS, Laser, Mirror 1, Mirror 2, Mirror 3, Alignment, WFE | One is for the flat alignment mirror |
| 0.5" posts | 10 | \$6 | https://www.thorlabs.co m/thorproduct.cfm?part number=TR2 | Thorlabs | TR2 - Ø1/2" Optical Post, SS, 8-32 Setscrew, 1/4"-20 Tap, L = 2" | Aperture, Beam splitter, LS, Laser, Mirror 1, Mirror 2, Mirror 3, Alignment, WFE | One is for the flat alignment mirror |
| Focal-plane and pupil-plane cameras | 2 | \$150 | | ZWO | ZWO ASI120MC | Cameras | ZWO ASI 120 color cameras |
| Clamping forks | 2 | \$9 | https://www.thorlabs.co m/thorproduct.cfm?part number=CF125#ad-ima ge-0 | Thorlabs | CF125 - Clamping Fork, 1.24" Counterbored Slot, Universal | Cameras | |
| Mirrors f=200mm | 2 | \$125 | https://www.thorlabs.co m/thorproduct.cfm?part number=CM508-200-G0 1 | Thorlabs | CM508-200-G01 - Ø2" Aluminum-Coated Concave Mirror, f = 200.0 mm | Mirror 1, Mirror 2 | |
| Mirror f=150mm | 1 | \$125 | https://www.thorlabs.co m/thorproduct.cfm?part number=CM508-150-G0 1 | Thorlabs | CM508-150-G01 - Ø2" Aluminum-Coated Concave Mirror, f = 150.0 mm | Mirror 3 | |



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| Kinematic mirror mount | 3 | \$90 | https://www.thorlabs.co m/thorproduct.cfm?part number=KM200#ad-im age-0 | Thorlabs | KM200 - Kinematic Mirror Mount for Ø2" Optics | Mirror 1, Mirror 2, Mirror 3 | |
| Beam splitter | 1 | \$40 | https://www.thorlabs.co m/thorproduct.cfm?part number=EBP1 | Thorlabs | EBP1 - Economy 30:70 Beamsplitter, Ø1", AOI: 45° | Beam splitter | |
| Breadboard | 1 | \$305 | https://www.thorlabs.co m/thorproduct.cfm?part number=MB1224 | Thorlabs | MB1224 - Aluminum Breadboard 12" x 24" x 1/2", 1/4"-20 Taps | Breadboard | |
| Breadboard feet set | 1 | \$30 | https://www.thorlabs.co m/thorproduct.cfm?part number=BMF4 | Thorlabs | BMF4 - Breadboard Mounting Feet (Imperial), Set of 4 | Breadboard | Set of four |
| 0.5" flat mirror | 1 | \$33 | https://www.thorlabs.co m/thorproduct.cfm?part number=PF05-03-P01 | Thorlabs | PF05-03-P01 - Ø1/2" Protected Silver Mirror | Alignment | For FPM alignment |
| Re-imaging lens | 1 | \$200 | https://www.thorlabs.co m/thorproduct.cfm?part number=MAP107575-A | Thorlabs | MAP107575-A - 1:1 Matched Achromatic Pair, f1=75.0 mm, f2=75.0 mm, ARC: 400-700 nm | Alignment | Temporarily mounted on a random 0.5" post and 0.5" post holder during FPM alignment |