Part	Description	Weight(g, ml)	CostPerUnit	Amount	Price	Link
Printed Parts (Cubes)						
Cube V5 (Slotted)	N/A	23.6	$0.71	6	$4.26	Github
Cube V5 (Closed)	N/A	26.94	$0.81	23	$18.63	Github
Cube V5 (Mixed)	N/A	22.11	$0.66	2	$1.32	Github
Cube V5	N/A	18.06	$0.54	2	$1.08	Github
Printed Parts (Inserts)						
Dichroic Mirror Mount	N/A	23.37	$0.70	1	$0.70	Github
Filter Mount SM1	N/A	4.44	$0.13	1	$0.13	Github
Filter Mount SM05	N/A	5.64	$0.17	0	$0.00	Github
Half Inch Lense Holder	N/A	4.62	$0.14	1	$0.14	Github
One Inch Lense Holder	N/A	5.86	$0.18	3	$0.54	Github
One Inch Lense Holder (SM1)	N/A	6.32	$0.19	0	$0.00	Github
One Inch Lense Holder (SM05)	N/A	4.52	$0.14	0	$0.00	Github
Laser Mount (USB Laser)	N/A	5.21	$0.16	2	$0.32	Github
Laser Mount (Smaller Laser)	N/A	4.70	$0.14	0	$0.00	Github
Mirror Base Horizontal	N/A	9.43	$0.28	2	$0.56	Github
Mirror Plate Horizontal	N/A	4.23	$0.13	2	$0.26	Github
Mirror Base Vertical	N/A	13.50	$0.41	1	$0.41	Github
Mirror Plate Vertical	N/A	3.56	$0.11	1	$0.11	Github
Flashlight Mount	N/A	14.68	$0.44	1	$0.44	Github
Objective Mount	N/A	13.12	$0.39	1	$0.39	Github
Tunnel Horizontal	N/A	21.17	$0.64	1	$0.64	Github
Tunnel Vertical	N/A	14.49	$0.43	1	$0.43	Github
Printed Parts (XYZ Stage)						
X Stage Body	N/A	5.71	$0.17	1	$0.17	Github
XStage Clamp	N/A	1.29	$0.04	1	$0.04	Github
X Stage Motor Clamp	N/A	0.91	$0.03	1	$0.03	Github
X Stage Part	N/A	6.86	$0.21	1	$0.21	Github
Y Stage Body	N/A	10.81	$0.32	1	$0.32	Github
Y Stage Motor Clamp	N/A	1.2	$0.04	1	$0.04	Github
Y Stage Part	N/A	3.02	$0.09	1	$0.09	Github
Z Stage Body	N/A	63.58	$1.91	1	$1.91	Github
Z Stage Electrical Cover	N/A	4.07	$0.12	1	$0.12	Github
Z Stage LED Mount	N/A	1.13	$0.03	1	$0.03	Github
Z Stage Motor Clamp	N/A	1.08	$0.03	1	$0.03	Github
Z Stage Part	N/A	20.34	$0.61	1	$0.61	Github
Joystick Lower Mount	N/A	3.72	$0.41	1	$0.41	Github
Joystick Upper Mount	N/A	2.58	$0.08	1	$0.08	Github
Printed Parts (Tools)						
Baseplate Magnet Press	N/A	32.62	$0.98	1	$0.98	Github
Bottom Cube Press	N/A	6.01	$0.18	1	$0.18	Github
Top Cube Press	N/A	6.01	$0.18	1	$0.18	Github
Laser Alignment Tool	N/A	3.27	$0.10	25	$2.50	Github
Parts List (McMaster)						
Multipurpose 304 Stainless Steel Rod	3mm x 3ft	N/A	$9.42	1	$9.42	https://www.mcmaster.com/1272T33-1272T12/
Alloy Steel Low-Profile Socket Head Screw	M3 x 0.5 mm Thread, 12 mm Long 25ct	N/A	$7.85	1	$7.85	https://www.mcmaster.com/93070A070/
Black-Oxide Alloy Steel Socket Head Screw	M3 x 0.5 mm Thread, 8 mm Long, 100ct	N/A	$9.22	1	$9.22	https://www.mcmaster.com/91290A113/
Parts List (Thorlabs)						
F30 1/2" Lense	1/2" Lense	N/A	$60.59	1	$60.59	https://www.thorlabs.com/thorproduct.cfm?partnumber=AC127-030-A
F200 1" Lense	1" Lense	N/A	$89.10	3	$267.30	https://www.thorlabs.com/thorproduct.cfm?partnumber=AC254-200-A
M4 x 5mm Setscrew	50ct	N/A	$5.90	1	$5.90	https://www.thorlabs.com/thorproduct.cfm?partnumber=SS4MS5
M6 x 12mm Secrew	25ct	N/A	$6.43	1	$6.43	https://www.thorlabs.com/thorproduct.cfm?partnumber=SS6MS10
M6 x 16mm Setscrew	25ct	N/A	$6.97	1	$6.97	https://www.thorlabs.com/thorproduct.cfm?partnumber=SS6MS16
Parts List (Amazon)						
Magnets 4mm	200ct	N/A	$9.99	5	$49.95	https://a.co/d/f4sNGOT
Magnets 5mm	150ct	N/A	$9.99	1	$9.99	https://a.co/d/0iCdR7Io
M3 x 0.5-Pitch Length Coupling Nuts	8mm	N/A	$7.39	1	$7.39	https://a.co/d/6JjM6d4
Knurled Threaded Insert	M3 x 5mm L x 4mm OD, 100ct	N/A	$8.50	1	$8.50	https://a.co/d/bxMPw1L
Motor Gearboxes	DC 6V Gear Motor	N/A	$8.61	3	$25.83	https://a.co/d/5GOWpqV
Mini USB Cable	For Camera	N/A	$5.99	1	$5.99	https://a.co/d/7T3tGII
Super Glue	You will need it	N/A	$9.99	1	$9.99	https://a.co/d/7T3tGII
Hot Glue Gun	You will need it	N/A	$18.97	1	$18.97	https://a.co/d/0bAOghhe
USB-C Cables x 2	For XYZ Stage	N/A	$5.99	1	$5.99	https://a.co/d/i5DBRwO
Stainless Steel Rods	For XYZ Stage	N/A	$7.99	0.25	$2.00	https://a.co/d/hvkBIIS
Parts List (Adafruit)						
Gamepad	Mini I2C Gamepad with seesaw - STEMMA QT / Qwiic	N/A	$7.50	1	$7.50	https://www.adafruit.com/product/5743
Adafruit LED Sequins	Warm White	N/A	$3.95	1	$3.95	https://www.adafruit.com/product/1758
Parts List (DigiKey)						
STEMMA QT/QWIIC CABLE	400mm	N/A	$1.50	1	$1.50	https://www.digikey.com/en/products/detail/adafruit-industries-llc/5385/16546436
QUAD MOTOR CONTROLLER	MOTOR 2040	N/A	$24.60	1	$24.60	https://www.digikey.com/en/products/detail/pimoroni-ltd/PIM618/17051430
Parts List (Pimoroni)						
JST-SH Cables x 4	300mm	N/A	$4.90	1	$4.90	https://shop.pimoroni.com/products/jst-sh-cable-6-pin?variant=39292536488019
Encoder Kits	Micro Metal Motor Encoder (MMME) (pack of 2)	N/A	$9.42	1	$9.42	https://shop.pimoroni.com/products/micro-metal-motor-encoder?variant=39888423321683
Encoder Kits (Sideways)	Micro Metal Motor Encoder (MMME) (pack of 2)	N/A	$9.42	1	$9.42	https://shop.pimoroni.com/products/micro-metal-motor-encoder?variant=39888423354451
Motors	Micro Metal Gearmotor (Extended back shaft) – 50:1	N/A	$4.82	3	$14.46	https://shop.pimoroni.com/products/micro-metal-gearmotor-extended-back-shaft?variant=3073681025
QUAD MOTOR CONTROLLER	MOTOR 2040	N/A	$30.00	1	$30.00	https://shop.pimoroni.com/products/motor-2040?variant=39884997853267
Parts List (Misc)						
Heat Set Insert Kit	M3 Heat Inserts	N/A	$9.89	1	$9.89	https://west3d.com/products/heat-insert-tool-kit
White Acrylic (Standard)	Opaque, Glossy, Masked, Cast, 1/8"	N/A	$18.50	1	$18.50	https://shop.glowforge.com/products/white-acrylic-cast-opaque-glossy?variant=39434530783330
Laptop	Gateway 11.6" Ultra Slim Notebook	N/A	$89.00	1	$89.00	Gateway 11.6" Ultra Slim Notebook, HD, Intel® Celeron®, Dual Core, 64GB Storage, 4GB RAM, Mini HDMI, 1.0MP Webcam, Windows 10 S
Prusament PLA	One for Each Color + 3 Blacks	1000g	$30.00	12	$360.00	https://www.prusa3d.com/category/prusament-pla/
Bambu Labs PLA-CF	1kg	1000g	$34.99	1	$34.99	https://us.store.bambulab.com/products/pla-cf?variant=41003202248840
Bambu Lab A1 Printer Bundle	Recommended Printer	N/A	$1,449.00	1	$1,449.00	https://us.store.bambulab.com/collections/3d-printer/products/a1
Lasers (Choose One)						
Red Laser	650nm	N/A	$9.98	1	$9.98	https://a.co/d/3TRZW0U
Blue Laser	405nm	N/A	$17.98	1	$17.98	https://a.co/d/7nuj360
Green Laser	532nm	N/A	$9.98	1	$9.98	https://a.co/d/a5kr8Kf
Cameras (Choose One)						
DMK 22BUC03	The Imaging Source “One for all” camera, USB 2.0, 1/3“ CMOS, monochrome, max resolution 744x480, ROI to increase speed, global shutter, trigger in, digital out, C/CS-mount (Without lens and cables)	N/A	$206.00	1	$206.00	**https://dl-gui.theimagingsource.com/en_US/0ea79de3-100f-510e-8601-2ba7061b001e/**
DMK 42BUC03	The Imaging Source “One for all” camera, USB 2.0, 1/3“ CMOS, monochrome, 1280x960 pixel, global shutter, trigger in, digital out, C/CS-mount, WITHOUT lens and cables	N/A	$229.00	1	$229.00	https://www.theimagingsource.com/en-us/product/industrial/2u/dmk42buc03/
Objectives (Choose One)						
20x Microscope Objective Lens	CCIS EC Plan 20x Strain Free Microscope Objective Lens	N/A	$317.00	1	$317.00	https://www.motic-microscope.com/p-763-ccis-ec-plan-20x-strain-free-microscope-objective-lens.aspx
40x Microscope Objective Lens	CCIS EC Plan 40x Strain Free Microscope Objective Lens	N/A	$414.00	1	$414.00	https://www.motic-microscope.com/p-1846-ccis-ec-plan-40x-strain-free-microscope-objective-lens.aspx
Dichroics & Filters (Choose One)						
Custom_405LaserSetZET405/10xT4	Chroma ID: CS451075, Containing zet405/10x, T425LPXR-UF1 and ET460/50m,25mm diameter excitation/clean-up and barrier/emissionfilters, 25.5x36x1mm thick dichroic mirror	N/A	$825.00	1	$825.00	N/A
Custom_532LaserSetZET532/10xZT	Chroma ID: CS451193, Containing zet532/10x, zt532rdc-UF1 and ET575/50m,25mm diameter excitation/clean-up and barrier/emissionfilters, 25.5x36x1mm thick dichroic mirror	N/A	$825.00	1	$825.00	N/A
Custom_640LaserSetZET640/20xZT	Chroma ID: CS451194, Containing zet640/20x, zt640rdc-UF1 and ET690/50m,25mm diameter excitation/clean-up and barrier/emissionfilters, 25.5x36x1mm thick dichroic mirror	N/A	$825.00	1	$825.00	N/A
Total						
$2,637.68						