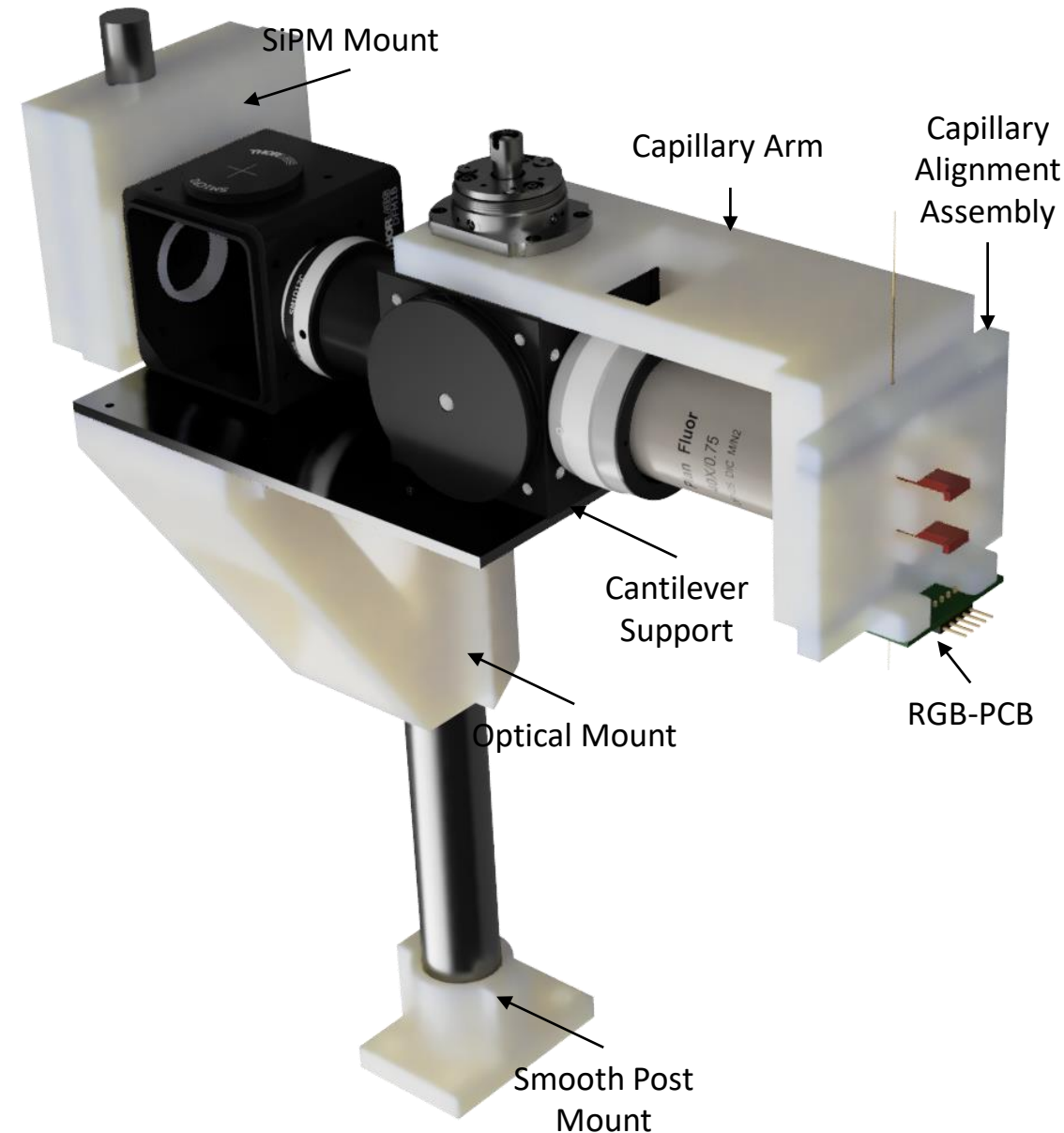


Optical Assembly Custom

Custom Material List

Object	Material	Fabrication
SiPM Mount	PLA/PETG	3D Print
Capillary Arm	PLA/PETG	3D Print
Cantilever Support	Aluminum	Mill
Optical Mount	PLA/PETG	3D Print
Smooth Post Mount	PLA/PETG	3D Print
Capillary Alignment Assembly	PLA/PETG	3D Print
RGB-PCB	FR4	EDA/PCB Fab.



Optical Assembly Purchased Components

Component	Company	Part number	Notes
40X Objective 0.75 NA	Nikon		
4-Way Mounting Cage	Thorlabs	C4W	
Cage Dichroic Filter Mount	Thorlabs	FFM1	
Rotatable Cover Plate	Thorlabs	B3C	
Blank Cover Plate	Thorlabs	B1C	
10 mm Lens Tube	Thorlabs	SM1L10	
External SM1 threads to internal M25x0.75 Thread (objective)	Thorlabs	SM1A12	
External C-mount to SM1 thread	Thorlabs	SM1A39	
Calibrated Iris Diaphragm	Thorlabs	SM1D12C	
SM1 Threaded Manual Shutter	Thorlabs	SM1SH1	
End Cap with SM1 Threads	Thorlabs	SM1CP2	
Non Roating adjustable SM1 Lens Tube	Thorlabs	SM1ZM	
Dichroic (488 nm)	Chroma	ZT488rdc-UF2 (IN036384)	25.5 x 36 x 2mm
Bandpass Filter (525 +/- 25 nm)	Chroma	ET525/50m (IN005750)	25 mm dia mounted
detent	McMaster-Carr	3408A65	#4-48 threads
gasket tape	McMaster-Carr	95705K132	0.02" thick
Optical post	Generic		25 mm Diameter