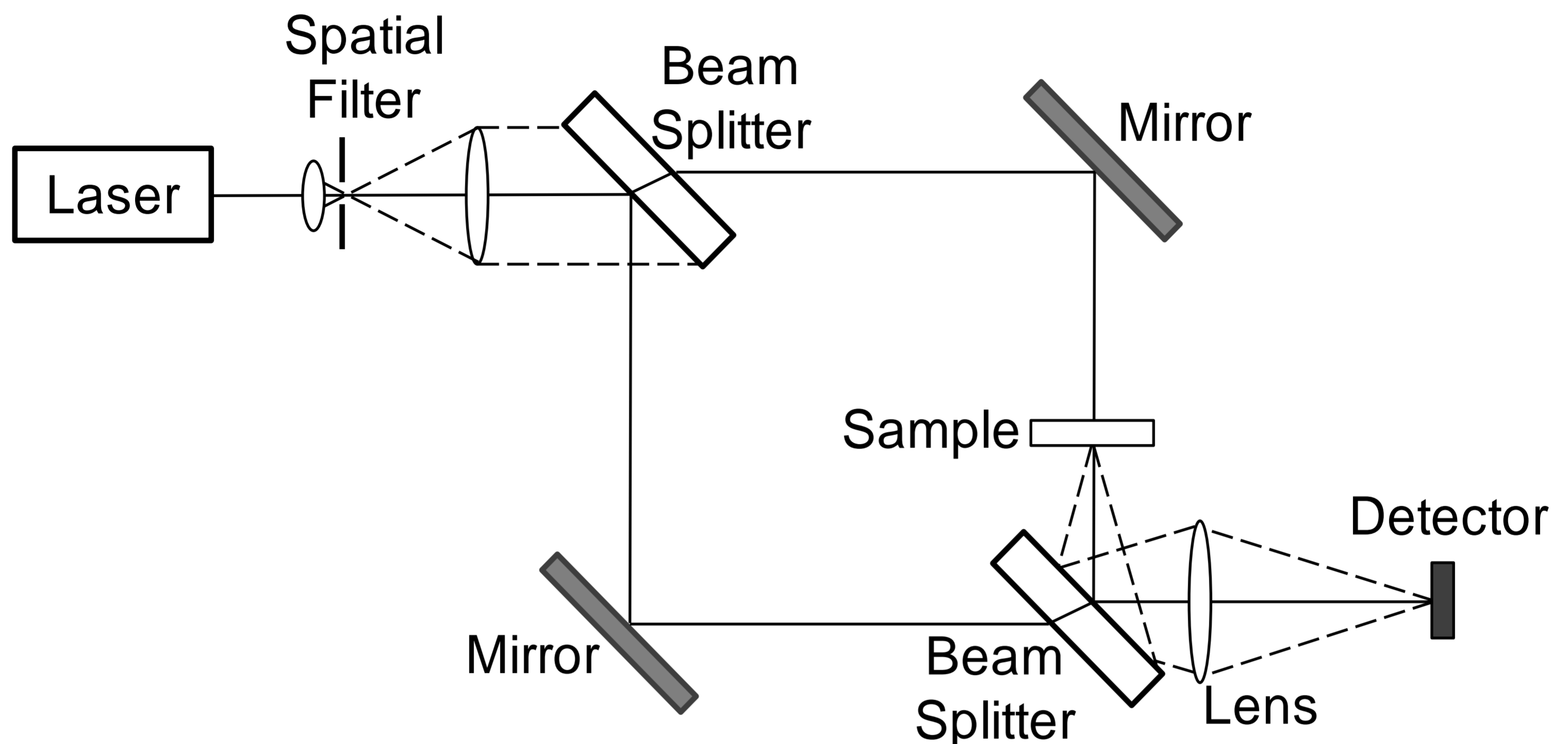


Gradient Index Group The Institute of Optics

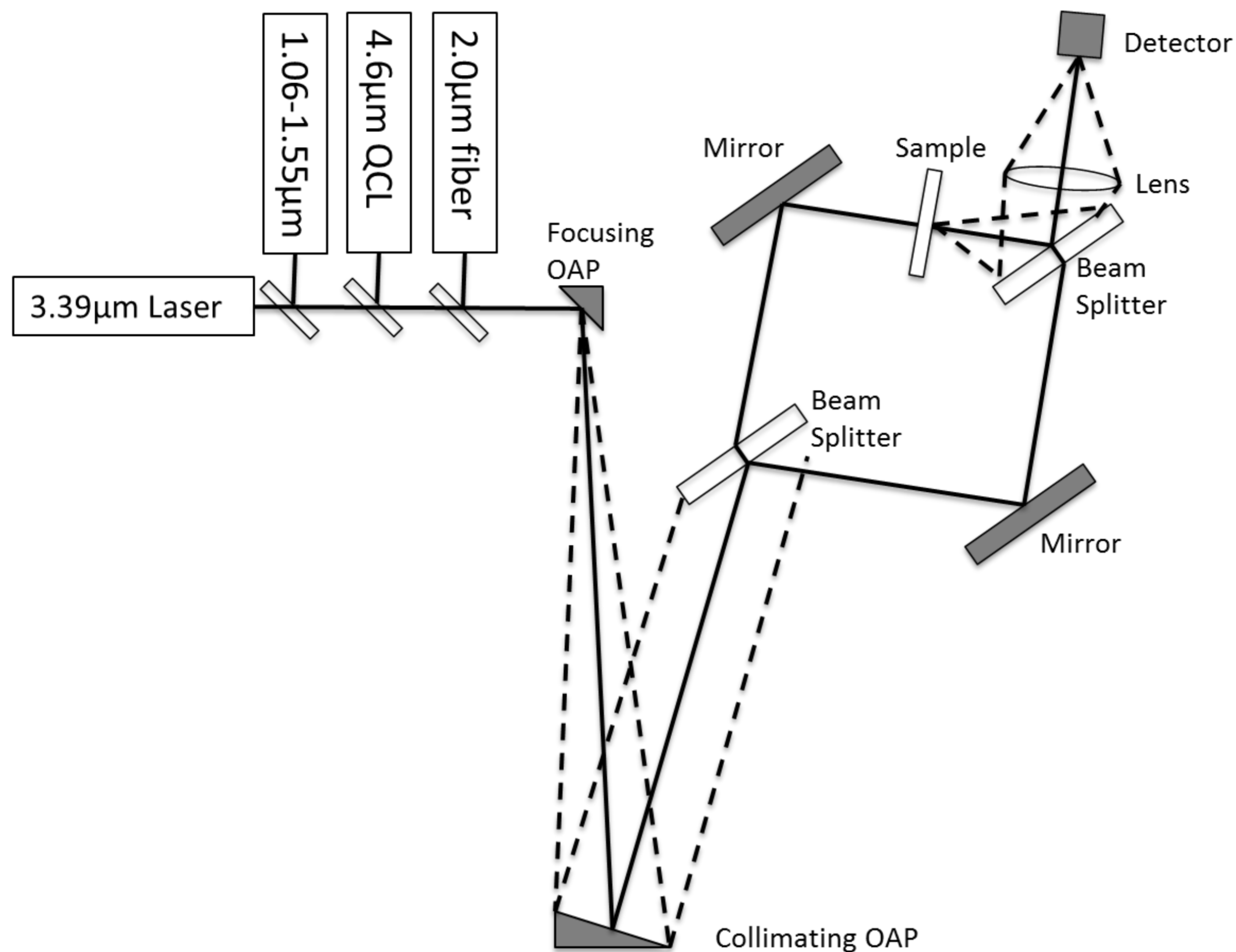
Metrology Instrumentation Summary

Visible Mach-Zehnder Interferometer



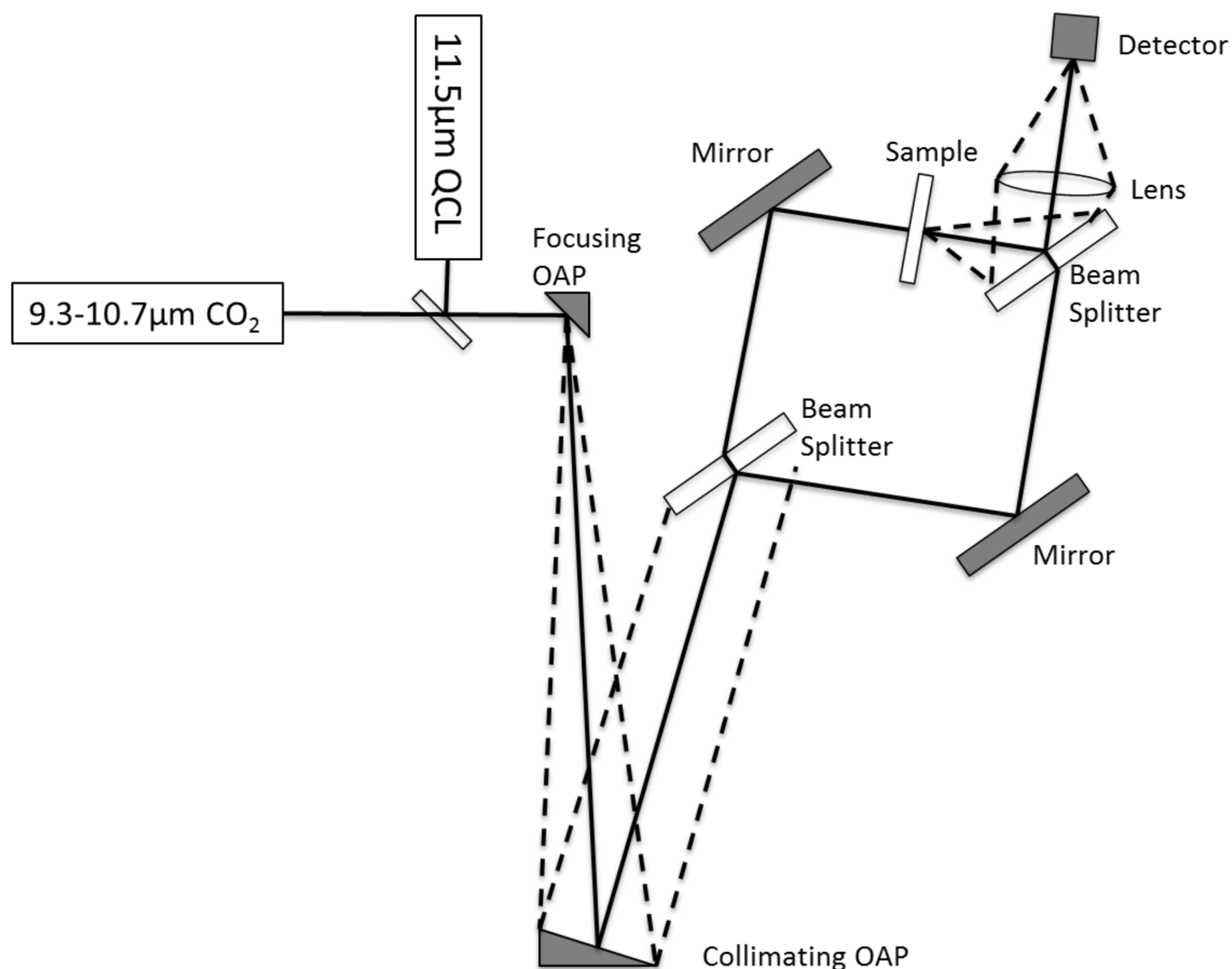
Measurand	Relative Index of Refraction	
Wavelength Range	VIS-NIR (0.4-1.1 μm)	
Measurement Range	Any	
Material Type	Gradient Index	
Wavelengths	0.3547 μm	0.6328 μm
	0.4579 μm	0.8244 μm
	0.4756 μm	1.064 μm
	0.4880 μm	
	0.5145 μm	
	0.5320 μm	

MWIR Mach-Zehnder Interferometer



Measurand	Relative Index of Refraction	
Wavelength Range	NIR-SWIR-MWIR (1-5 μm)	
Measurement Range	Any	
Material Type	Gradient Index	
Wavelengths	1.0568 μm	4.5905 μm
	1.3114 μm	
	1.5421 μm	
	1.9501 μm	
	3.39 μm	

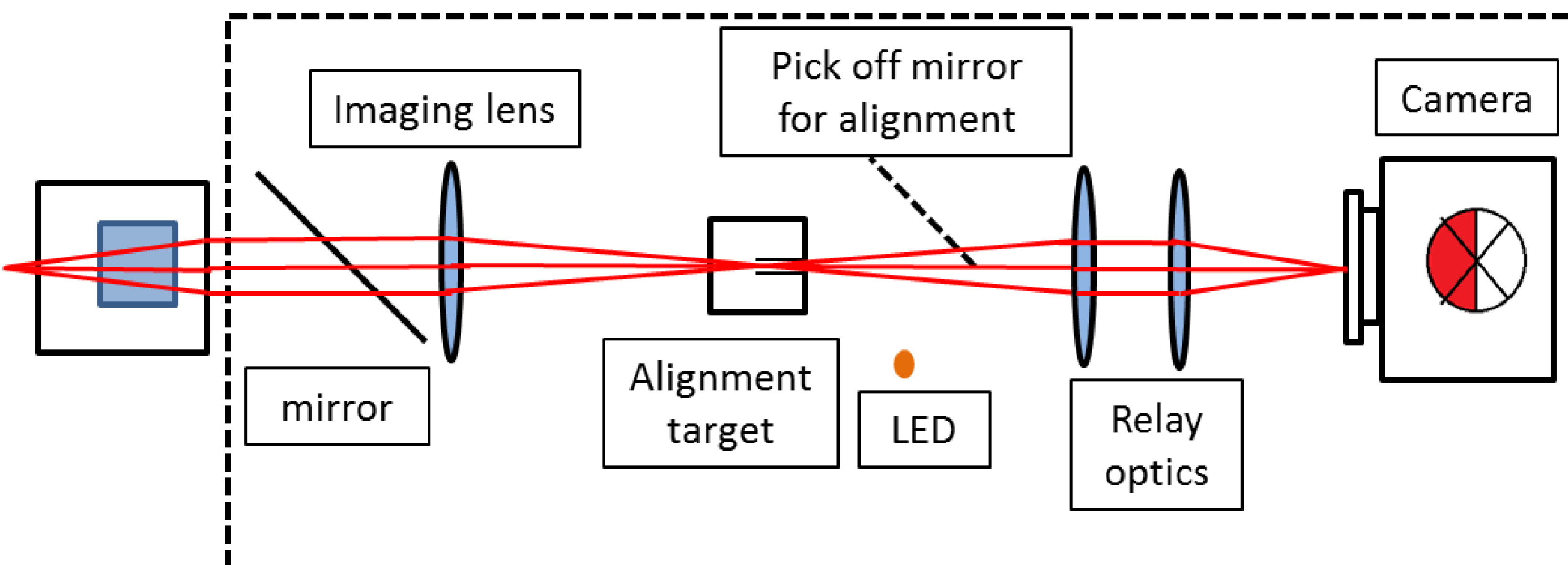
LWIR Mach-Zehnder Interferometer



Measurand	Relative Index of Refraction	
Wavelength Range	LWIR (8-12 μm)	
Measurement Range	Any	
Material Type	Gradient Index	
Wavelengths*	9.282 μm	10.303 μm
	9.552 μm	10.334 μm
	10.207 μm	10.591 μm
	10.233 μm	10.653 μm
	10.260 μm	11.3424 μm

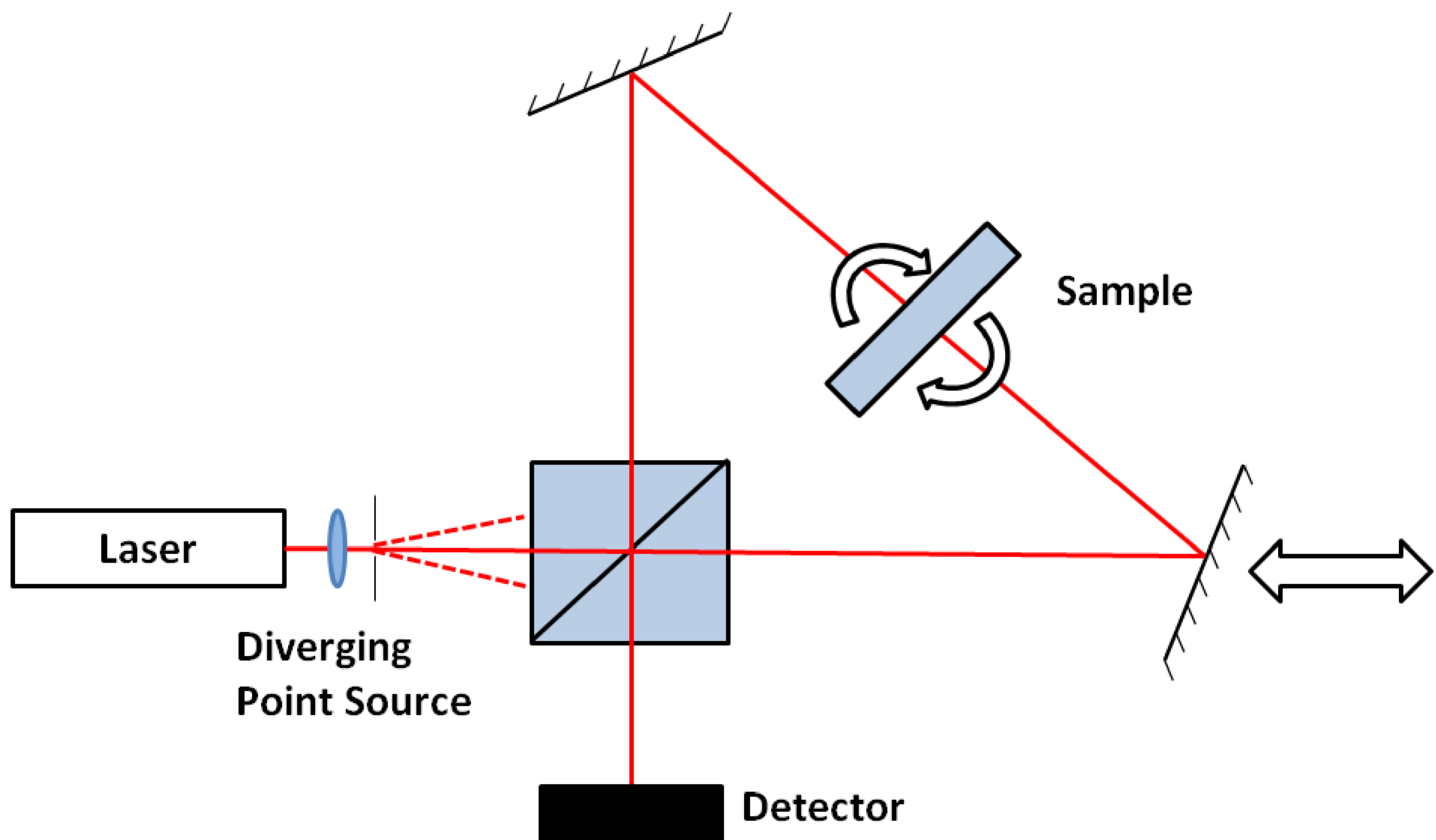
* Another 26 available laser lines in 9.250-10.675 μm not listed here

Pulfrich Refractometer



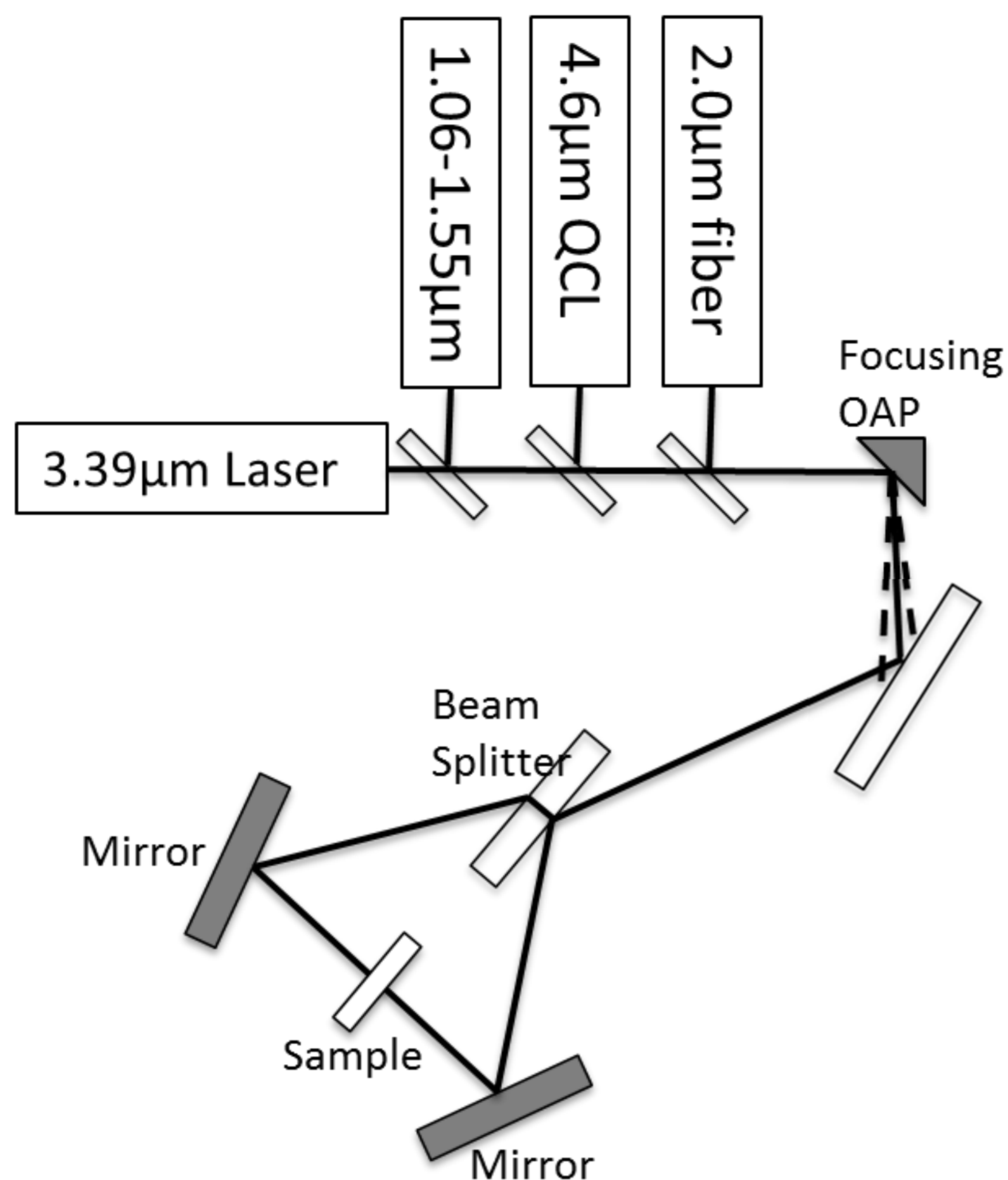
Measurand	Absolute Index of Refraction (surface)	
Wavelength Range	VIS-NIR (0.4-1.7 μm)	
Measurement Range	< 1.7	
Material Type	Homogeneous	
Wavelengths	0.4060 μm	0.7830 μm
	0.4504 μm	0.7880 μm
	0.4579 μm	0.8244 μm
	0.4756 μm	0.8480 μm
	0.4880 μm	0.8735 μm
	0.5145 μm	0.8885 μm
	0.5320 μm	0.9840 μm
	0.6328 μm	1.064 μm
	0.6500 μm	
0.6776 μm		

Visible Sagnac Interferometer



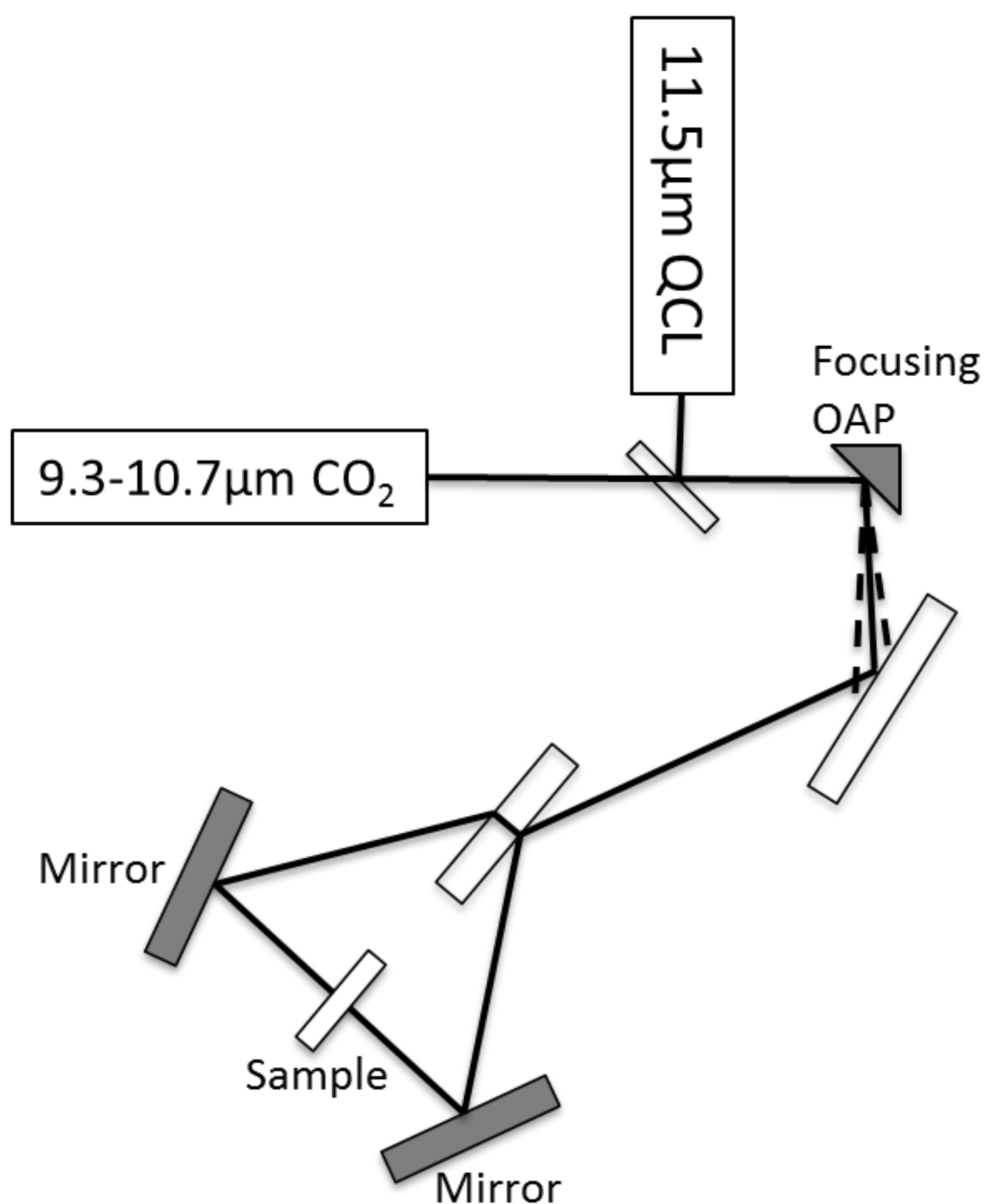
Measurand	Absolute Index of Refraction	
Wavelength Range	VIS-NIR (0.4-1.1 μm)	
Measurement Range	Any	
Material Type	Homogeneous	
Wavelengths	0.3547 μm	0.6328 μm
	0.4579 μm	0.8244 μm
	0.4756 μm	1.064 μm
	0.4880 μm	
	0.5145 μm	
	0.5320 μm	

MWIR Sagnac Interferometer



Measurand	Absolute Index of Refraction	
Wavelength Range	NIR-SWIR-MWIR (1-5 μm)	
Measurement Range	Any	
Material Type	Homogeneous	
Wavelengths	1.0568 μm	4.5905 μm
	1.3114 μm	
	1.5421 μm	
	1.9501 μm	
	3.39 μm	

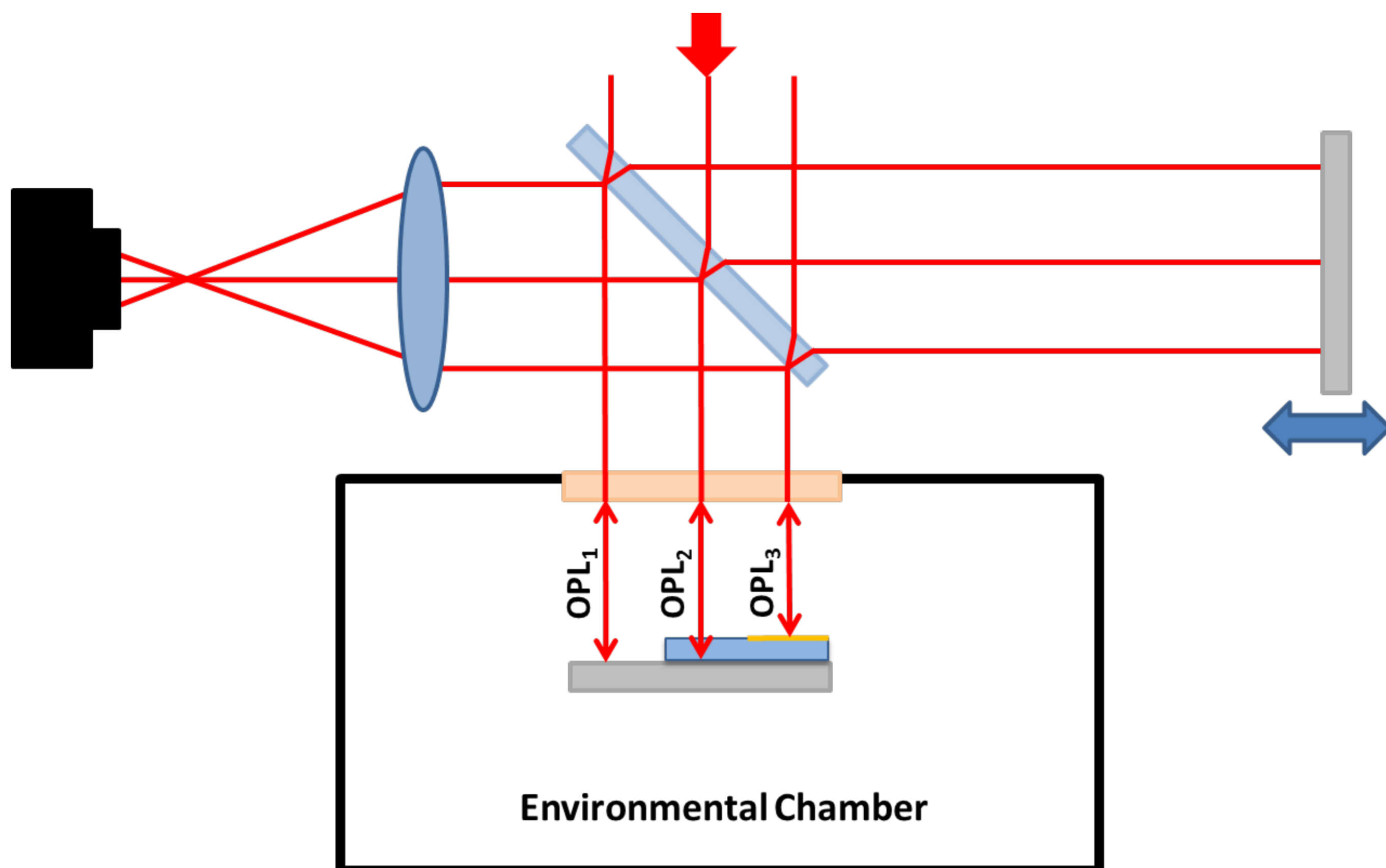
LWIR Sagnac Interferometer



Measurand	Absolute Index of Refraction	
Wavelength Range	LWIR (8-12 μm)	
Measurement Range	Any	
Material Type	Homogeneous	
Wavelengths*	9.282 μm	10.303 μm
	9.552 μm	10.334 μm
	10.207 μm	10.591 μm
	10.233 μm	10.653 μm
	10.260 μm	11.3424 μm

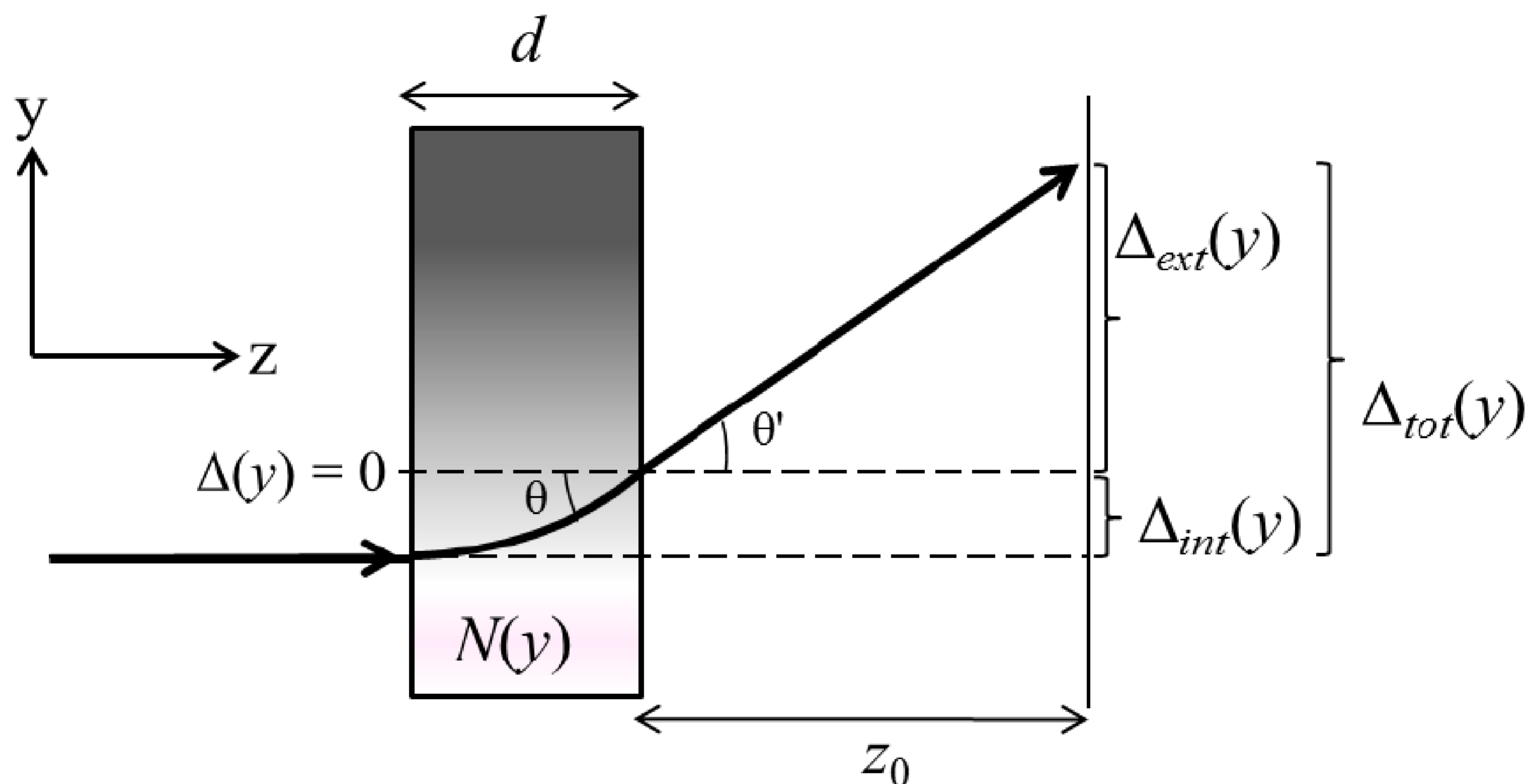
* Another 26 available laser lines in 9.250-10.675 μm not listed here

Thermal Interferometer



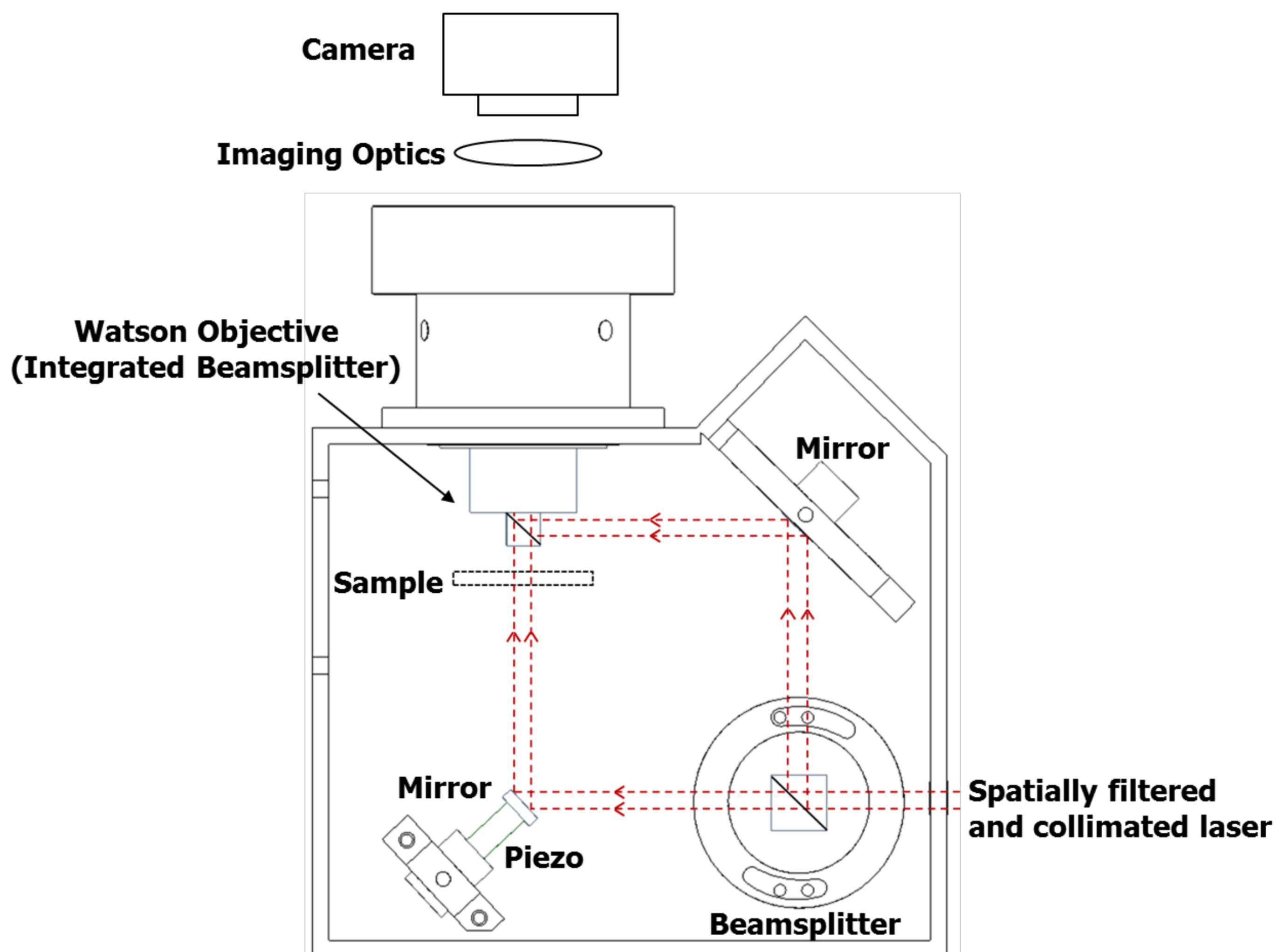
Measurand	dn/dT and CTE	
Wavelength Range	VIS-NIR-MWIR (0.4-5 μm)	
Measurement Range	Index: any; Temperature (-40 to 80°C)	
Material Type	GRIN or Homogeneous	
Wavelengths	0.4579 μm	
	0.4880 μm	
	0.5145 μm	
	0.6328 μm	
	3.39 μm	
	10.6 μm	← Waiting for NYS

Beam Deflectometer



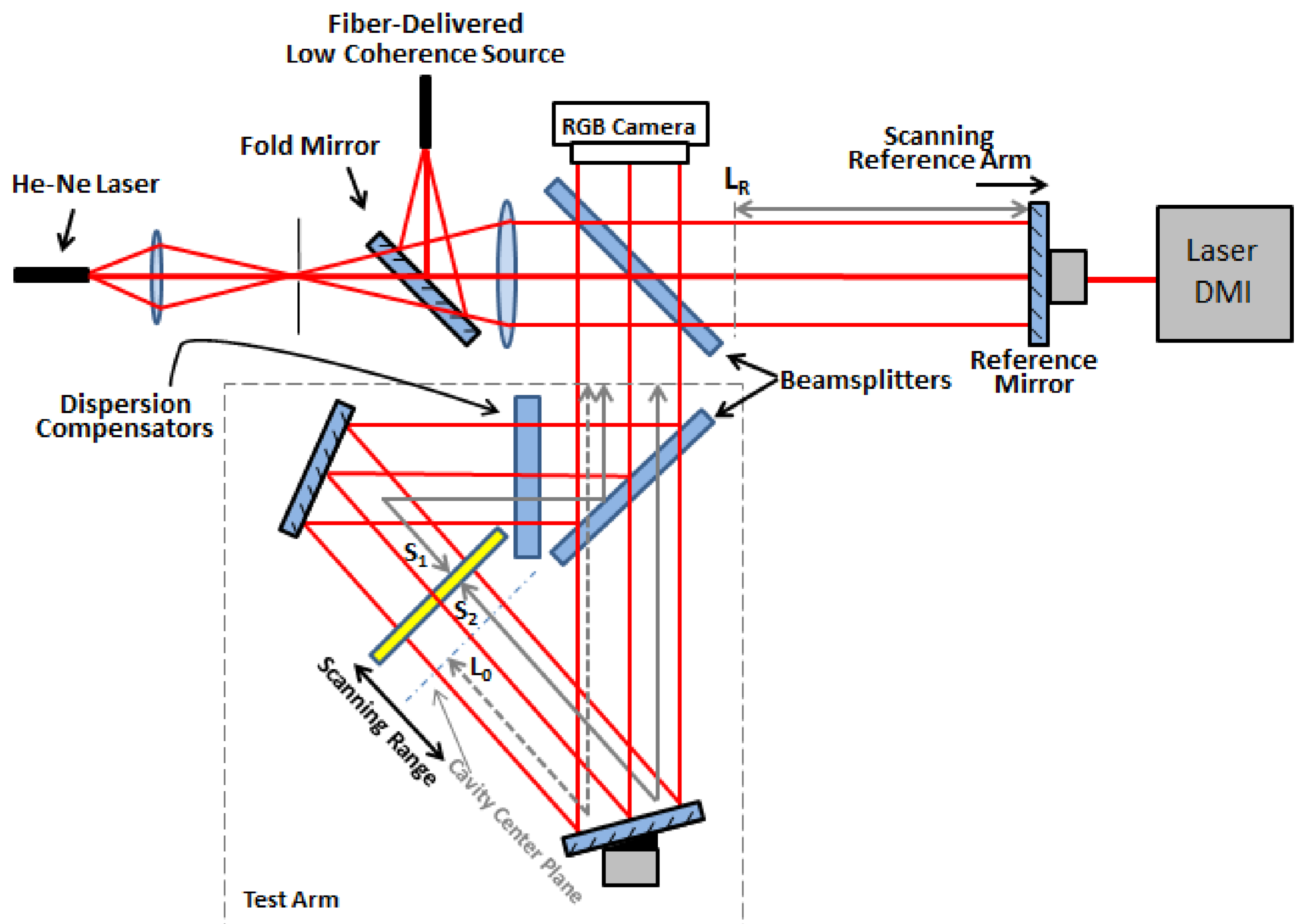
Measurand	Relative Index of Refraction	
Wavelength Range	VIS (0.4-0.7 μm)	
Measurement Range	Any	
Material Type	Gradient Index	
Wavelengths	0.450 μm	
	0.532 μm	
	0.657 μm	

Microscope Mach-Zehnder Interferometer



Measurand	Relative Index of Refraction	
Wavelength Range	VIS (0.4-0.7 μm)	
Measurement Range	Any	
Material Type	Gradient Index	
Wavelengths	0.4579 μm	0.5320 μm
	0.4756 μm	0.5435 μm
	0.4880 μm	0.6328 μm
	0.5145 μm	

Low Coherence Distance Measuring Interferometer (LCDMI)



Measurand	Absolute Thickness (map)
Wavelength Range	VIS (0.4-0.7 μm) Broadband
Measurement Range	< 50 mm
Material Type	Any