

# fringe

## FG- $\alpha$

Compact Lightweight Versatile Spectrometer



### Novel Concept

No gratings or prisms, no scanning or moving parts

### Ultra Small Form

40 grams  
32 x 32 x 21.3 (mm)

### Military Standard Test Level\*

Deployable in demanding applications

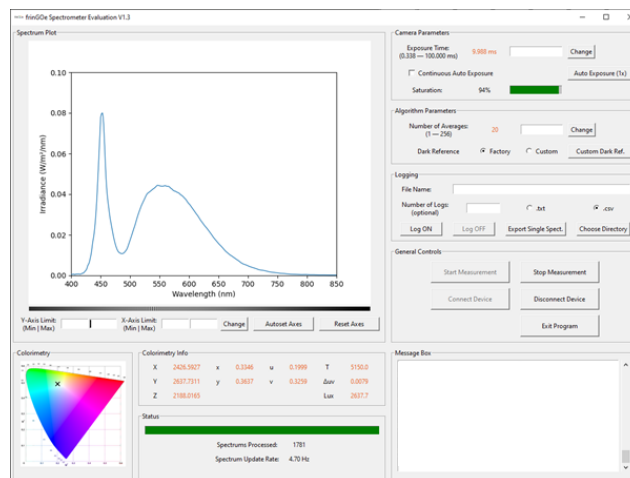


Mounting for Optical Bench

### Key Features

- Spectral irradiance-calibrated ( $W/m^2/nm$ )
- USB3.0 interface with locking screws for secure connection
- Easy-to-use Demo GUI for control and data acquisition
- Stand-alone device (e.g. optical bench) or integrate into larger system

### Demo User Interface



## Key Specifications

Optical	
Spectral Range	450 - 850 nm (Typical)
Spectral Resolution	<2% @ Centre Wavelength
Electrical	
Power Requirements	1.3 W (Typical) @ 5 VDC (USB powered)
Mechanical	
Dimensions, W x L x H (mm)	32 x 32 x 21.3 (main body)
Weight	40 grams
Operating Conditions	
Operating Temperature	10 - 45°C (20 - 80% non-condensing)
Storage Temperature*	0 - 55°C
Random Vibration*	4 g-RMS
Shock*	40 g, 11 ms
Software	
GUI	Demo User Interface available
API	Python API available upon request

## Mechanical Drawings

