

HyperFine One High Sensitivity Spectrometer

Unmatched Sensitivity: 400% More Sensitive Than Standard Fiber Coupled Spectrometers



- Full visible range coverage in single model
- Balanced resolution across full wavelength range
- Simple USB power and serial data interface
- Ultra-Compact, robust design
- Fiber coupled

Benefits

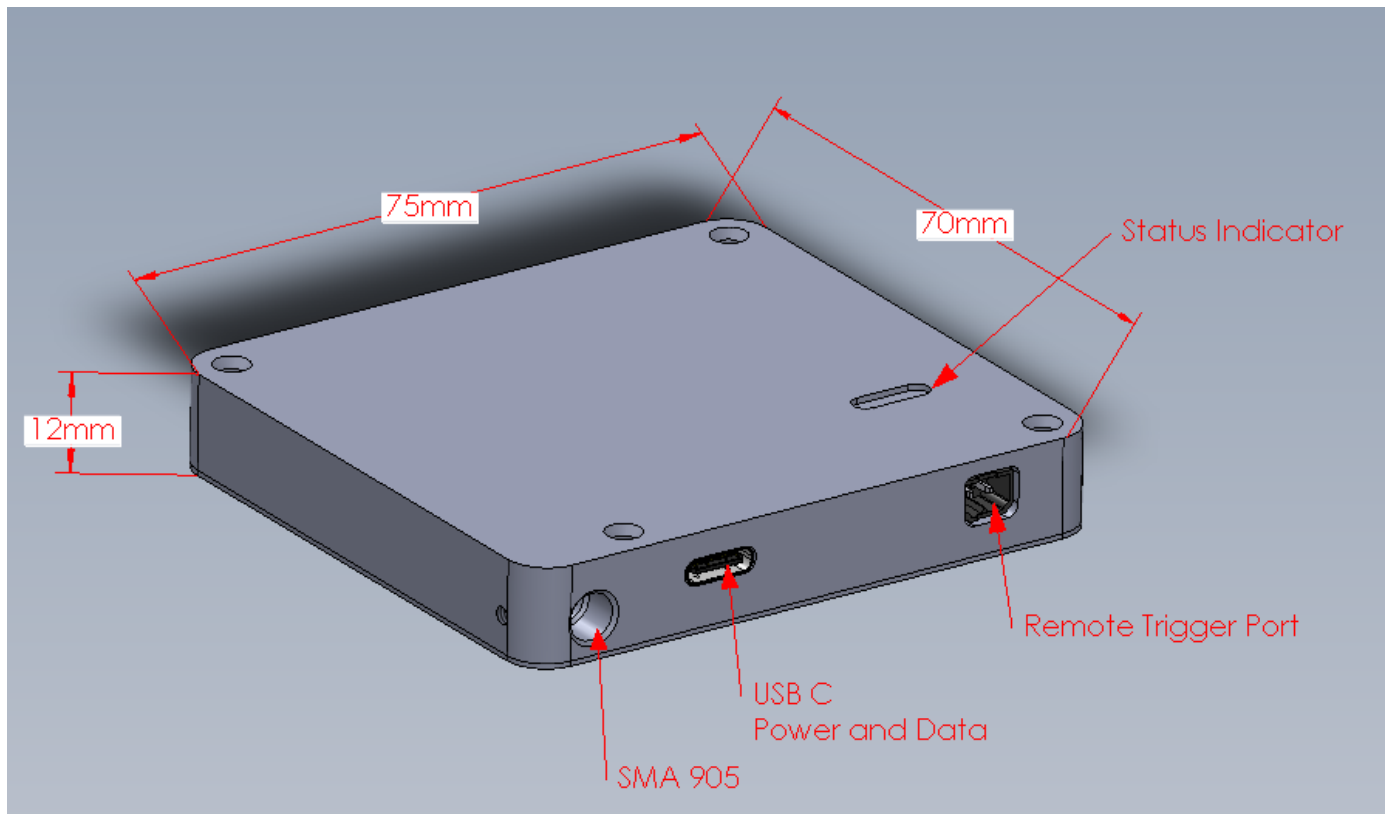
- Revolutionary, high throughput design*
- Ultra-compact
- High throughput enables fast acquisition
- High spectral resolution with 25um slit
- Balanced resolution across wavelength range
- High spectral precision
- Robust monolithic construction
- Designed and built by the world's foremost precision optical manufacturer

Features

- Full wavelength range in one model
- Onboard microcontroller - serial data output
- 1nm resolution across full wavelength range
- Easy to use spectrum viewer
- Software support for custom solutions
- Software configurable spectral binning for high dynamic range
- Remote triggering input
- LightMachinery's legendary customer support

Applications

- Whenever a brighter, faster or wider spectrum is required
- Low light Raman, Plasma, LIBS
- High speed process control
- UV to NIR spectroscopic measurements



(Shown actual size)

Part Number	HF-250-1000-1
Wavelength range	250 - 1000 nm
Full Range Resolution	1nm at all wavelengths
Recommended Fiber	High OH NA 0.22 (F/2), 200um core fiber
Min/Max Integration time	9us - 60 seconds (TBC)
Optical Input	SMA 905
Data IO	USB 2 virtual com port
Power	Default USB 2 power, 500 mA max
Dimensions	75mm x 70mm x 12mm
Weight	130g

For further technical and sales information, please visit our website or contact:

LightMachinery Inc. hyperfine@lightmachinery.com

80 Colonnade Road (613) 749-4895

Ottawa, Ontario, Canada, K2E 7L2

* Patent Pending