

MSH systems offer a wide range of optical products from all over the world !

High Sensitivity Compact Spectrometer



Transmissive Raman spectrometer
QUASAR



- High throughput transmissive grating
- f/2 optical design
- TEC cooling, up to $\Delta-40^{\circ}\text{C}$
- $200 - 2750 \text{ cm}^{-1}$ @785 Raman
- $200 - 4500 \text{ cm}^{-1}$ @532 Raman

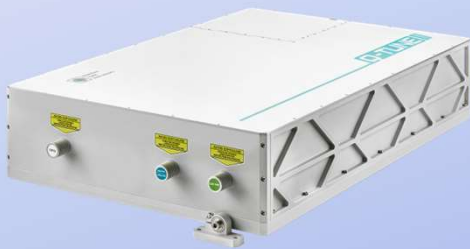


Super-range TEC spectrometer
SILVER-Nova

- Spectral range 190 - 1100 nm
- 1 x TEC cooling, $\Delta-15^{\circ}\text{C}$
(2 x TEC option, $\Delta-30^{\circ}\text{C}$)



Tunable Wavelength Laser Q-TUNE / Q-TUNE-IR



- Wavelength : 210 - 2300 nm / 1380 - 4500 nm
- Pulse energy : Up to 8 mJ@450 nm / 6.5 mJ@3500 nm
- Repetition rate : Up to 100 Hz / Up to 20 Hz
- Air cooled, water-free
- Turnkey system

Product line-up

Laser, Light source



Femto~Pico~Nano second laser



Tunable Wavelength laser



Fiber laser



Timing generator

Detector



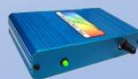
CCD, sCMOS, SWIR



SPAD



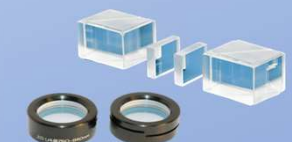
Imaging Spectrograph



UV-VIS-NIR



FT-IIR



Mirror, filter, crystal etc..

Spectrograph

Compact Spectrometer

Optical parts