StellarNet Inc

Technical Specifications

STELLAR ELITE

High Performance Spectrometer Series

QUASAR

High Throughput Spectrometer

StellarNet's **Quasar** Spectrometer is our brightest one yet. The new **high throughput design** allows for 10X more photon collection! The high-efficiency Volume Phase Holographic (VPH) transmission grating and optimized optics delivers heightened sensitivity.

Features and Benefits:

- 10x Optical Gain for Enhanced Sensitivity and Speed
- Compatible with all StellarNet Software
- Flexible Modular Design
- Precision and Repeatability
- Designed for Raman with more models coming soon!

Model Ranges and Resolutions

Model	Wavelength Range (cm-1)	10x Optical Gain	Resolution (cm-1)	Detector Cooling ~°C Below Ambient
Quasar-TEC-785	200-2,750	Yes	4	TEC-1 | 15°C
Quasar-TECX2-785	200-2,750	Yes	4	TECX2 | 30°C
Quasar-TEC-532	200-4,500	Yes	9	TEC-1 | 15°C
Quasar-TECX2-532	200-4,500	Yes	9	TECX2 | 30°C

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Spectrograph Aperture: f/2	Detector Type: 2048 or 3648 pixel arrays CCD/CMOS/PDA 14um x 200um	Dimension: 6 x 17 x 15.5 cm
Gratings: Transmissive High Throughput	Detector Lens: Advanced cylindrical lens assembly	Weight: 2.5kg
Optical Gain: >10x signal enhancement	Exposure Times: 3s without TEC 60s with TEC 8 minutes with TECX2	Operating System: Windows, Linux, Mac
Optical Input: SMA-905	Signal-to-Noise: >1000:1	Interface: USB or Wi-Fi (upgrade)
Stray Light: <0.05%	TEC1 has >50% noise reduction and TECX2 has >80% at long exposures	Software: All StellarNet Software

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