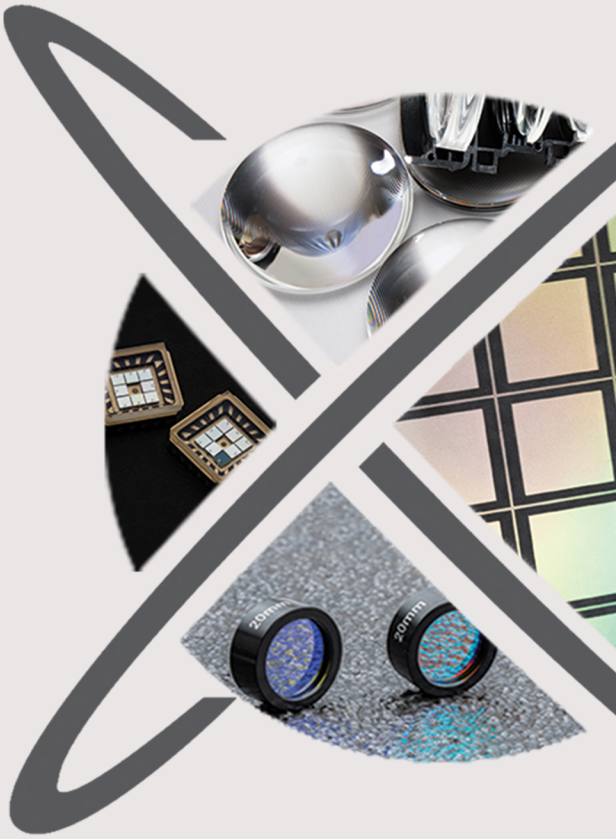
Transmissive Grating Spectrometer

Renegade UV-VIS

190 to 850nm



Product Overview:

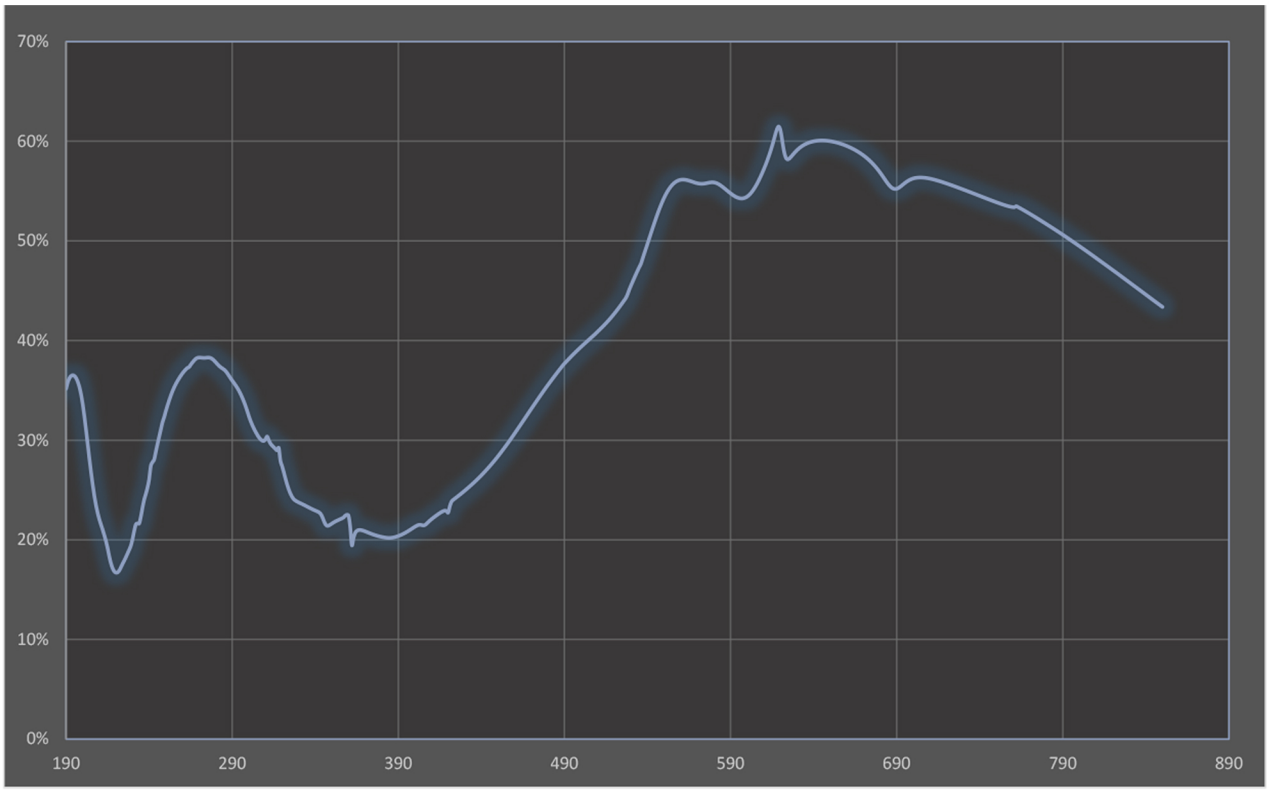
The Renegade Spectrometer utilizes Salvo's breakthrough technology in transmissive gratings by providing higher sensitivity compared to traditional reflective grating spectrometers on the market. The grating is made on fused silica substrate to allow for optimal UV throughput and showcases our vertical integration as all components aside from the silicone detector are made in our fabrication house at Salvo's headquarters. The fiber coupled compact design and manufacturability makes the renegade a versatile OEM solution for our customers.

Features

- UV sensitive transmissive grating
- High sensitivity
- Compact & customizable for OEM solutions
- Repeatable - Low unit to unit variation
- Environmentally stable and robust design

Contact our enginners to discuss your application | 727-544-3736 | sales@salvotechnologies.com | salvotechnologies.com

Transmissive Grating Efficiency



Specifications

Wavelength Range: 190 to 850nm
Optical Resolution: 1nm FWHM
Integration Time: 4ms to 10sec
Dark Noise: < 2000 counts at 10s exposure
Dynamic Range: 2200:1
Input Fiber Connector: SMA
Signal to Noise Ratio: 600:1
Detector: Toshiba TCD1304DG
Grating: 1250 lpmm Fused Silica transmission grating
Pixels: 3648 x 1
Entrance slit: 20um
Numerical aperture: .25NA
Enhanced sensitivity lens: D-Lens on CCD
Stray Light: .1% or better
Operating temperature range. Non-condensing: 0°- 50°C
Dimensions: 90 x 60 x 18mm body, 90 x 60 x 22mm including connector
Weight: 145g
Vertical resolution: 50,000 counts
Connectors: 16 pin 1mm pitch FFC
Inputs/Outputs: SPI with 2 chip selects, accumulator reset, device reset, external trigger
Trigger Modes: internal or external source, single, multiple accumulate, multiple average
Power Consumption: 3.3V 60mA