



UV-VIS

HIGHLY SENSITIVE

Transmissive Grating Spectrometer

The Renegade UV Spectrometer utilizes Torrent Photonics' breakthrough technology in transmissive gratings by providing higher sensitivity compared to traditional reflective grating spectrometers. Our ability to manufacture all components aside from the sensor showcases Torrents' ability to create vertically integration solutions.

Product Overview:

Renegade's UV-VIS fiber-coupled design and manufacturability makes it a versatile solution for OEM analytical devices that demand high sensitivity and low footprint. Utilizing a transmissive grating made on fused silica substrate, the Renegade delivers optimal throughput and custom firmware options allows for ease of integration.

Features:

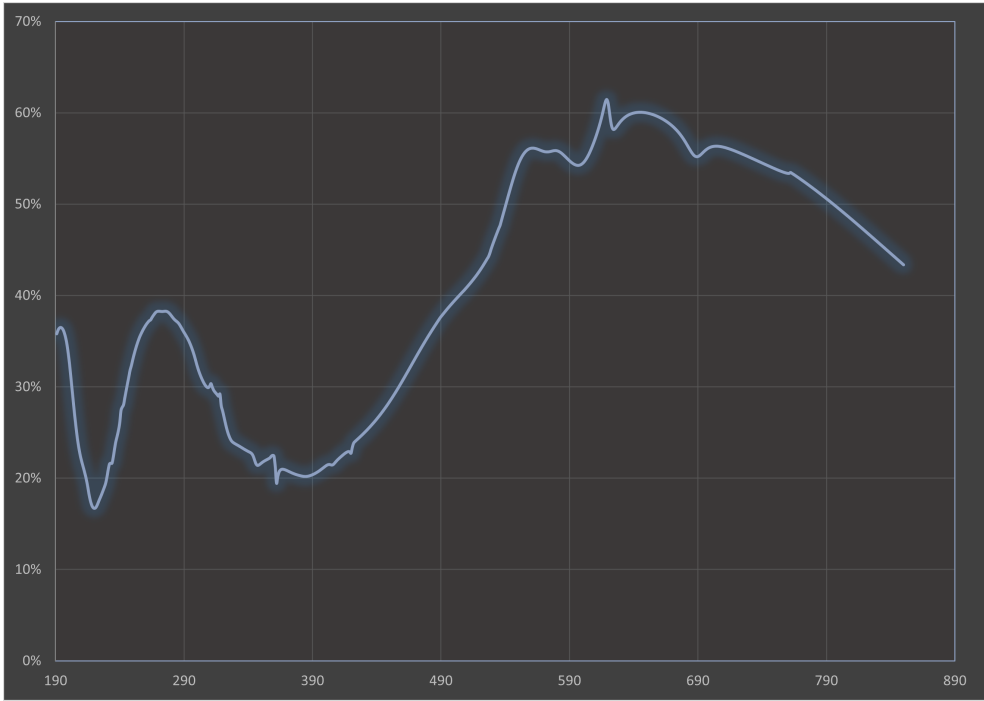
- Environmentally stable and robust design
- Compact & customizable for OEM solutions
- UV sensitive transmissive grating
- Repeatable — low unit-to-unit variation
- High sensitivity



Renegade UV-VIS
190 to 850nm



Transmissive Grating Efficiency



COMPACT
 HIGH-PERFORMANCE
**OEM-Ready for
 Analytical Devices**

Renegade UV-VIS Specifications

Wavelength Range	190 to 850nm
Optical Resolution	1.25nm FWHM
Integration Time	200us to 10s
Dynamic Range	5000:1
Input Fiber Connector	SMA
Signal to Noise Ratio	300:1
Detector	Hamamatsu-S11639
Grating	1250 lpmm Fused Silica transmission grating
Pixels	2048
Entrance slit	20um
Numerical aperture	0.22NA
Enhanced sensitivity lens	D-Lens on CCD
Stray Light (Monochromatic Input)	0.012% (at +/- 10 x FWHM from peak)
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	65,000 counts
Inputs/Outputs	SPI or USB, custom options available
Trigger Modes	Internal or external source, single, multiple accumulate, multiple average
Power Consumption	3.3V 60mA