

WhiteLase LLTF Contrast

Laser Line Tunable Filter

Key Features

- Single channel tunable band-pass filter
- Exceptional out-of-band suppression
- Narrow line-width and high resolution
- Ultra-wideband tuning range across the UV-Visible-NIR range
- Very stable output pointing stability
- High transmitted beam quality
- "Plug and Play" operation

Applications

- Fluorescence excitation
- Broadband spectroscopy
- Fluorescence lifetime measurement
- Raman Spectroscopy
- Nanophotonics
- Flow Cytometry

Turn a Supercontinuum in to a Tunable Laser

The LLTF Contrast is a continuously tunable high-resolution band-pass filter that effectively converts a Fianium supercontinuum source into a widely tunable picosecond laser. The filter transmits, with high efficiency, a single laser line while blocking unwanted lines with excellent out-of-band suppression.

The LLTF Contrast is a non-dispersive filter maintaining the intrinsic single-mode beam quality of the supercontinuum laser enabling a wide range of applications. With two wavelength tuning options, Visible and NIR, the full spectrum of the supercontinuum can be covered.

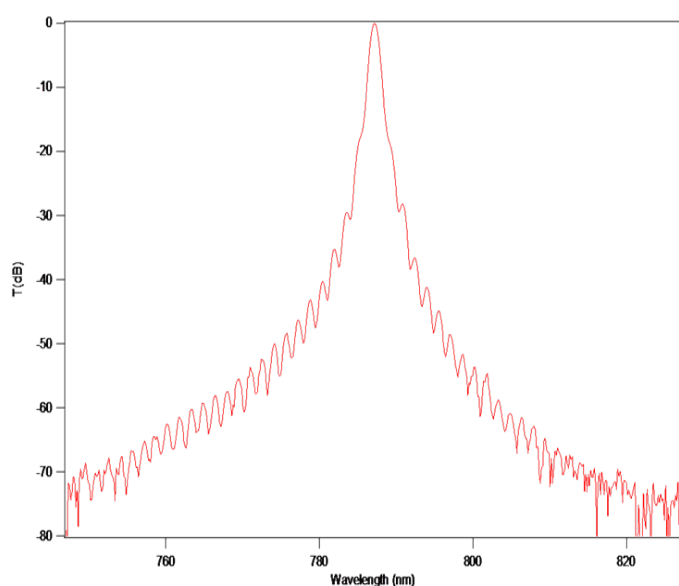
The LLTF Contrast is compatible with any WhiteLase Supercontinuum source and is designed to handle the very high powers of Fianium Supercontinuum systems. It is fully plug-and-play and adapts directly to the supercontinuum output collimator.

Control is via USB 2.0 and intuitive Graphical User Interface.

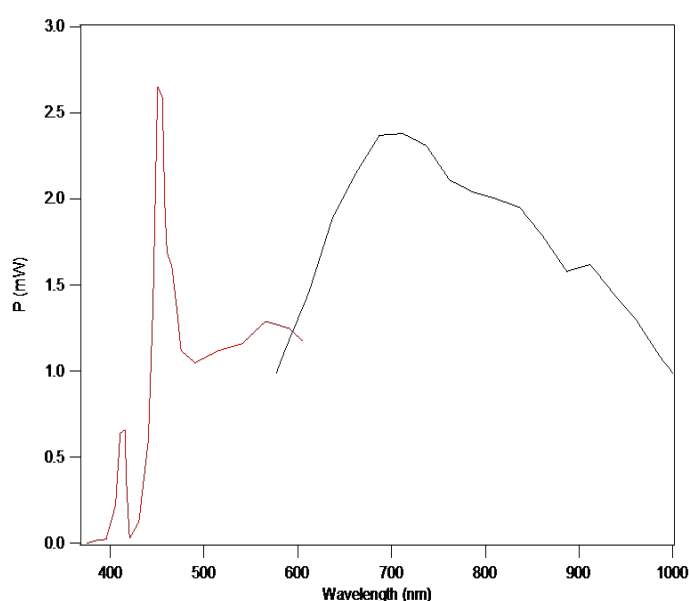


Standard Specifications

	LLTF Contrast VIS	LLTF Contrast SWIR
Tunable Wavelength Range	<400nm to >1000nm	<1000nm to >2300nm
Channel Spectral Bandwidth	<2.5nm	<5nm
Number of Channels	1	
Out-of-Band Suppression (>20nm from CWL)	>60dB	
Transmission Efficiency	>60% peak transmission	
Wavelength Calibration	Internally calibrated	
Wavelength Tuning Resolution	0.1nm	
Tuning Speed (between any two wavelengths)	<600ms	
Beam Quality	Single spatial mode at all wavelengths	
Input Type	Plug & Play to any Fianium supercontinuum	
Output Type	Free-space collimated or fiber delivery	
Polarisation	Non-polarising	
Interlock	Integrated	
Dimensions (W x L x H mm)	230 x 160 x 173	



LLTF single channel output spectrum with Whitelase SC450-4 Supercontinuum



LLTF scanned output with Whitelase SC450-4 Supercontinuum



**VISIBLE AND INVISIBLE
LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT**

CAUTION: THIS IS A CLASS 4 LASER PRODUCT AND USE OF CONTROLS AND ADJUSTMENTS OTHER THAN THOSE SPECIFIED IN THE PRODUCT MANUAL MAY RESULT IN HAZARDOUS LASER RADIATION EXPOSURE

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