

SuperChrome

Tunable wavelength and bandpass transmission filter

Key Features

- Single channel transmission
- Out of band suppression better than 10^{-4}
- Transmission of 80% over the spectral range
- Maximum transmission for bandwidths of 5-100nm
- Excellent beam quality
- "Plug and Play" operation

Applications

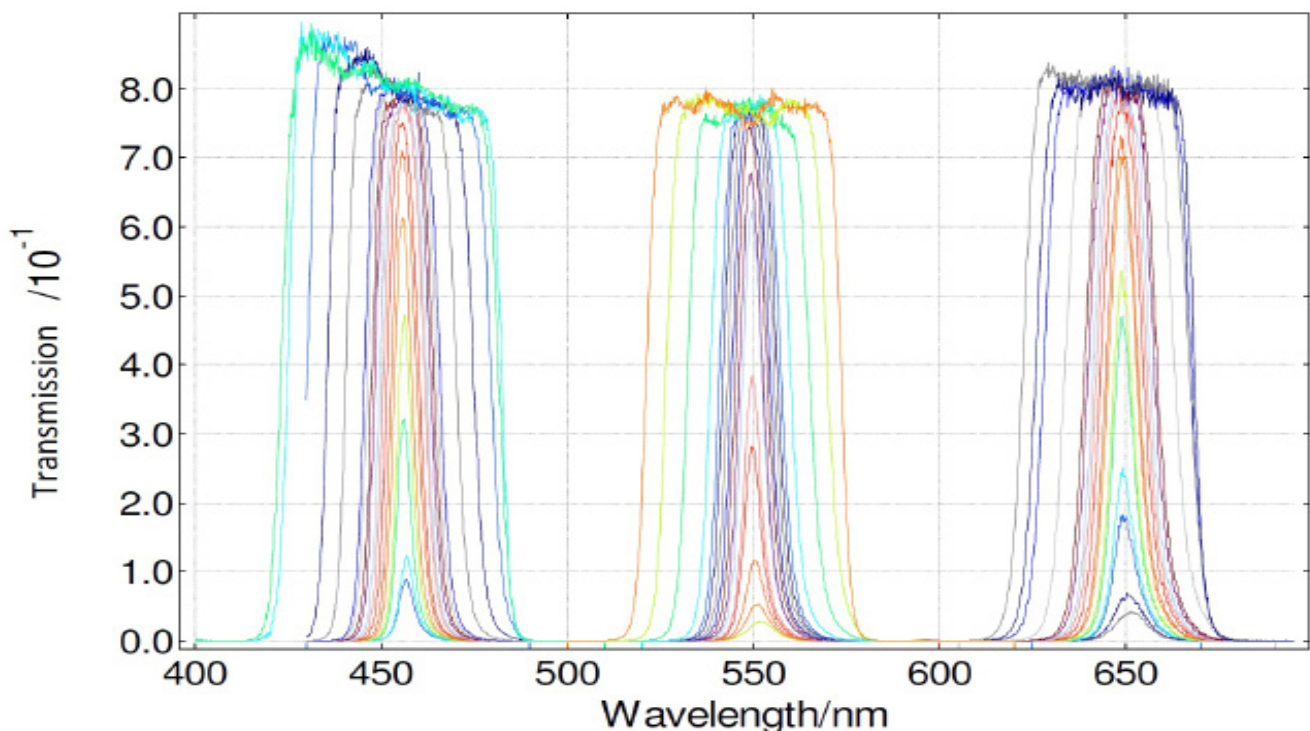
- Fluorescence excitation
- Broadband spectroscopy
- Fluorescence lifetime measurement
- Super resolution techniques
- Nanophotonics
- Flow Cytometry

High power transmission filter

The **SuperChrome™** filter is a removable unit which enables both wavelength and bandpass tunability from the supercontinuum output of any **WhiteLase™** Supercontinuum system. It is a single channel transmission filter over the visible spectrum from below 400nm to 850nm typically offering greater than 80% transmission. The maximum performance is achieved for filter bandwidths from 5nm to more than 100nm.

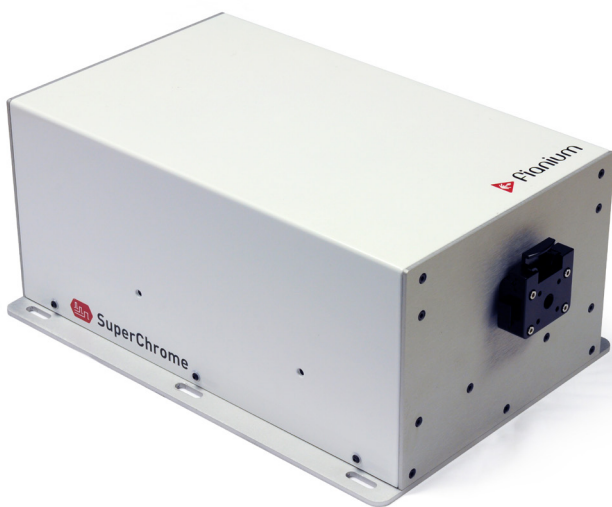
SuperChrome™ has no measurable impact on the laser M-squared value, with the filtered free-space output maintaining the high spatial beam quality of the source. The output can be supplied with a removable fiber delivery system (FDS) with singlemode or multimode fiber.

The unit is plug-and-play, requires no user alignment and is operated with an easy-to-use Graphical User Interface.



STANDARD SPECIFICATIONS

	SuperChrome™ VIS
Tunable wavelength range	<400nm to 850nm White-light mode
Channel Spectral Bandwidth	Variable: <5nm to >100nm
Number of Wavelength Channels	1
Out of Band suppression	≈40dB
Transmission Efficiency	>80% with bandwidth >8nm >50% with bandwidth >5nm
Wavelength Calibration	Automatic self calibration
Wavelength repeatability	≈0.5nm
Wavelength Accuracy	<3nm
Tuning Speed (between any two wavelengths)	<1s
Wavelength Scan	Up to 400nm/s
Beam Quality	Single spatial mode at all wavelengths
Input	Plug & Play to any Fianium supercontinuum source
Output	Free-space collimated or multi-mode fiber delivery or single-mode fiber delivery
Output polarisation	Unpolarised
Interface	Graphical User Interface via USB (optional SDK)
Interlock	Integrated
Dimensions (W x L x H mm)	200 x 370 x 120


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