





AGILE[®] is a wavelength-tuneable, high brightness supercontinuum laser providing picosecond pulses with variable kHz to MHz repetition rates.

AGILE features a broadband spectral output from <400 nm to >2000 nm and pulse repetition rates from 10 kHz to 1 MHz, making it the ideal light source for the majority of fluorescence lifetime applications. Using the Time-Correlated Single Photon Counting (TCSPC) technique, fluorescence lifetimes from a few picoseconds to microseconds can be accurately resolved.

Two different trigger outputs in AGILE enable operation in TCSPC and Multi-Channel Scaling (MCS) modes. MCS operation enables faster acquisition of lifetimes in the microsecond range.

Coupling AGILE to a monochromator provides continuous wavelength tuning across the visible and near-infrared spectrum with output power and temporal profile comparable to individual, single wavelength, picosecond pulsed diode lasers. The output of AGILE can be configured as a collimated beam for free-space applications or focused with F-number matching to the Edinburgh Instruments FLS1000 Photoluminescence Spectrometer. When operated as part of the FLS1000, AGILE is fully computer controlled by the spectrometer operating software Fluoracle[®].

AGILE is a turn-key, wide wavelength range light source, providing a user-friendly and maintenance-free solution for any fluorescence laboratory.



AGILE connected to an FLS1000 Photoluminescence Spectrometer.



SPECIFICATIONS

Wavelength Range	< 400 nm > 2	< 400 nm > 2000 nm					
Repetition Rate	10 kHz - 1 MHz	10 kHz - 1 MHz					
Wavelength Range	400 - 500 nm	500 - 600 nm	600 - 700 nm	700 - 800 nm	800 - 900 nm	900 - 1000 nm	
Average Output Power /	0.51 mW	0.39 mW	0.30 mW	0.27 mW	0.17 mW	0.11 mW	
10 nm Bandpass *							
Typical Pulse Width	350 ps	250 ps	200 ps	200 ps	200 ps	200 ps	
Total Power Stability	< 2% **						
Polarisation	Unpolarised						
Beam Output	Collimated or fo	Collimated or focused					
Computer Interface	USB 2.0	USB 2.0					
Synch Output	NIM (for TCSPC	NIM (for TCSPC)					
Trigger Output	TTL (for MCS)	TTL (for MCS)					
Interlock Input	Hirose HR10-7R	Hirose HR10-7R-4S (73)					
Operating Temperature	+15°C to +30°C	+15°C to +30°C					
Software Control	Fluoracle	Fluoracle					
Power	90 - 240 VAC, 14	90 - 240 VAC, 1A, 50/60 Hz					
Dimensions	410 mm (L) x 30	410 mm (L) x 305 mm (W) x 245 mm (H)					
Weight	14 kg (approx)	14 kg (approx)					

* at a repetition rate of 1 MHz ** after 20 min warm up time in stable environment



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