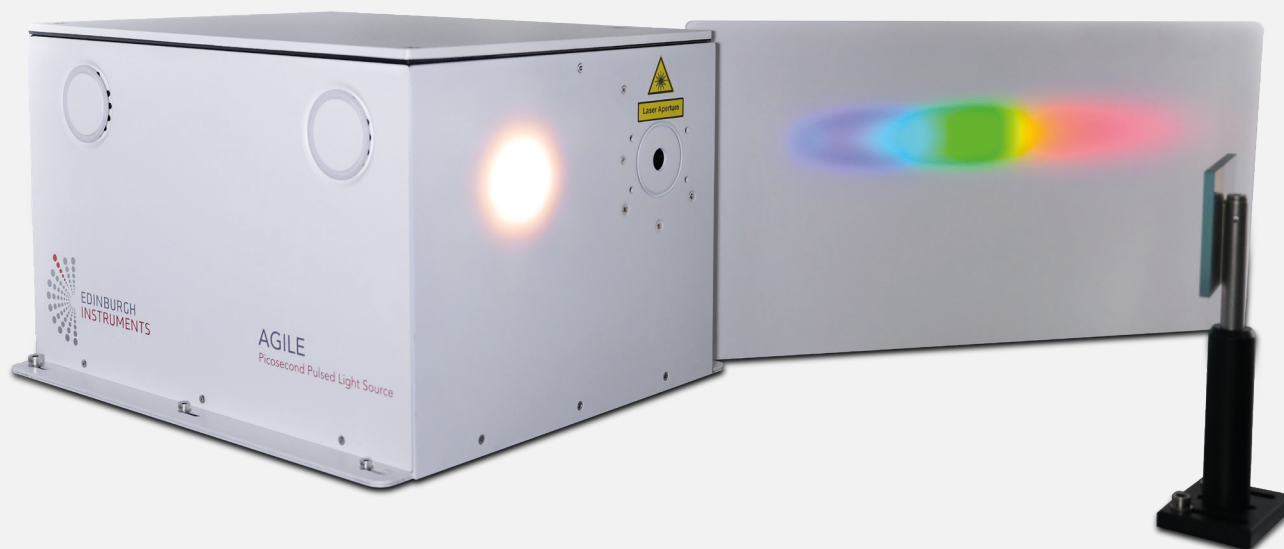


AGILE

Picosecond Pulsed Light Source



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

AGILE features a broadband spectral output from <math><400\text{ nm}</math> to $>2000\text{ nm}$ 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.

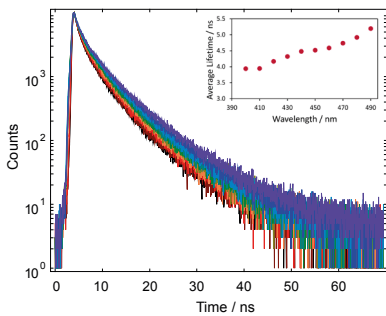


SPECIFICATIONS

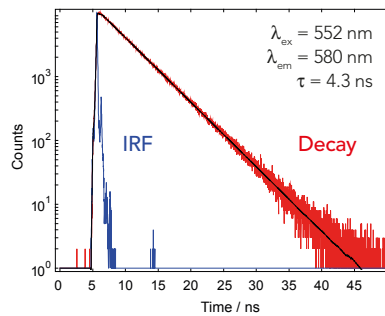
Wavelength Range	< 400 nm ... > 2000 nm					
Repetition Rate	10 kHz - 1 MHz					
Wavelength Range	400 - 500 nm	500 - 600 nm	600 - 700 nm	700 - 800 nm	800 - 900 nm	900 - 1000 nm
Average Output Power / 10 nm Bandpass *	0.51 mW	0.39 mW	0.30 mW	0.27 mW	0.17 mW	0.11 mW
Typical Pulse Width	350 ps	250 ps	200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

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

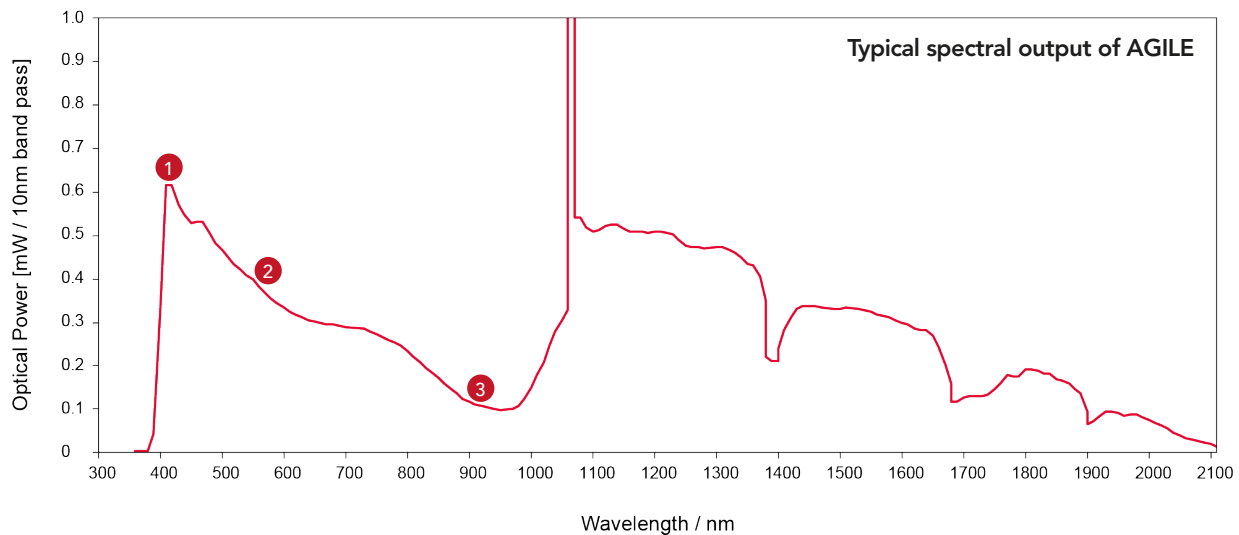
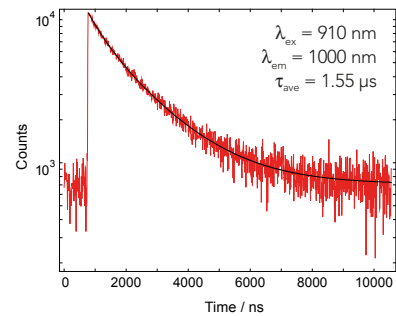
1 Carbon dots



2 Rhodamine 101



3 PbS quantum dots



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All specifications are correct at the time of production. We reserve the right to change our specifications without notice. ©Edinburgh Instruments Ltd. 2022.

Stage 08 / 01.22

