

# PICUS DUO OEM

## MOBILE & READY FOR INTEGRATION

The **PICUS DUO** is also available in an **OEM** version. Housed in a standard 19" enclosure, the **PICUS DUO OEM** is made for easy integration into your imaging device.

Fiber-coupled outputs allow flexible pulse delivery offside an optical table. With almost the same specifications as the table-top version, the **PICUS DUO OEM** enables coherent Raman imaging in a multitude of environments.

### STANDARD 19" HOUSING

- Computer-controlled operation
- Air-cooled

### COMFORTABLE FIBER DELIVERY

- Delivery by photonic-crystal fiber
- Pre-compensated dispersion

### MOBILE OPERATION

- Proven shock resistance up to 25 m/s<sup>2</sup>
- Same specs as table-top version



### Applications

Fiber-delivered laser output

Portable microscopes

Fiber-coupled endoscopes

Contact us for  
various  
customizations!

#### Elliot Scientific Limited

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## Product Specifications

Optical	Output A	Output B
Tuning range	780 - 980 nm (Signal)	1025 - 1055 nm
Tuning speed	< 100 ms	
Average power	70 - 150 mW	150 - 200 mW
Covered wavenumbers	700 - 3100 cm <sup>-1</sup> monitored with 0.1 cm <sup>-1</sup> precision	
Pulse duration	7 - 10 ps	2 - 3 ps
Spectral bandwidth	< 12 cm <sup>-1</sup>	
Repetition rate	40 MHz	
Fiber delivery	Endlessly single-mode PCF, MFD 12 μm M <sup>2</sup> < 1.1 for both outputs	
Typical RIN noise Stokes at 20MHz	<-157dBc/Hz	
Integrated tunable delay	> 5 cm	

### Electrical

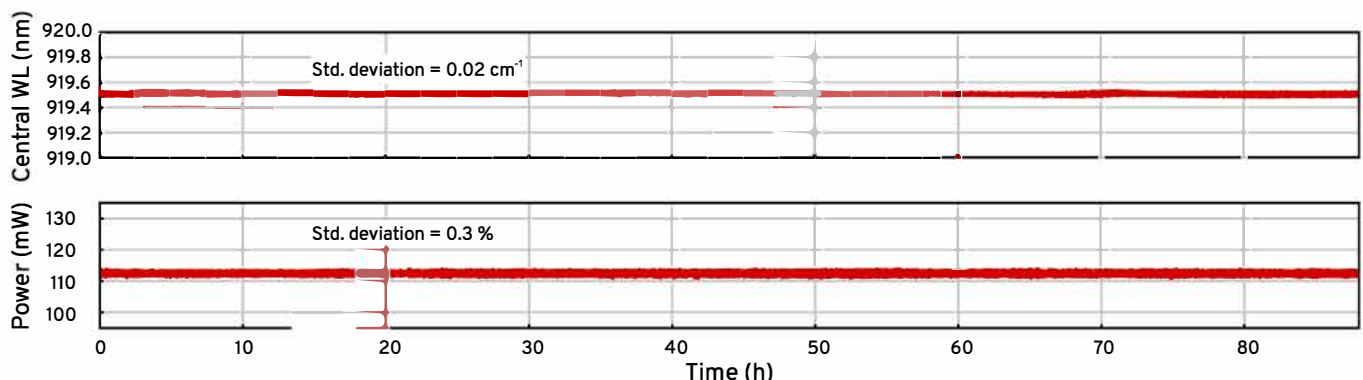
Interfaces	Communication through USB or RS232 Monitor out for external synchronisation
Amplitude modulation	AM modulation option for output A or B at 20, 10 and 6 MHz
Software interfaces	GUI and custom serial API, e.g., via Python & Matlab

### Mechanical

Laser head dimension	44.4x49.3x13.2 cm <sup>3</sup>
Laser controller dimension	43x45x13 cm <sup>3</sup>
Cooling	Air-cooled
Weight	25 kg
Standard umbilical length	1.8 m

## Performance

### Typical long term stability



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The product is constantly being improved, therefore the specifications are subject to change without notice. May 2023 Rev. 5.0