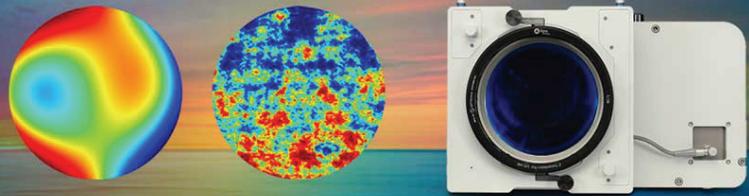


ÄTLas 633



Wavelength Shifting Data Acquisition ÄPRE Interferometers and Upgrades

Fixed cavities, large optics, solid cavities or specialized data acquisition applications demand a precision tunable laser. Historically repurposed tunable lasers have been used with slow data acquisition, limited tuning range, or extremely high cost.

The ÄTLas 633 is designed and manufactured by ÄPRE to specifically meet the most demanding interferometer requirements. It fiber couples directly into ÄPRE's high performance interferometers and even upgrades.

Simple Operation

The ÄTLas 633 is a single unit. No need for external controllers with front panel controls that can be inadvertently adjusted bringing down your production. ÄTLas 633 is directly controlled via ÄPRE's REVEAL software during setup and acquisition. REVEAL does it all.

Wavelength Shifting Upgrades

The ÄTLas 633 can also replace tunable lasers on classic interferometers. Often these older systems cannot be upgraded because replacement lasers do not exist. The ÄTLas 633 makes that replacement possible, keeping your manufacturing running at significant cost savings.

Performance

Function	Tunable laser for interferometer data acquisition
Wavelength	633nm \pm 1nm
Acquisition Cavity Range ¹	50mm - 3,000mm
Maximum Wavelength Shift	200pm (150GHz)
Fiber Optic Output Power ²	1.0mW to 2.5mW, 1.5mW typical
Output Power Stability ³	\pm 5%
Supported Camera Rates	\leq 100Hz
Optical Output	E-2000 PM Fiber Optic
Warranted Lifetime ⁴	3,000 hours operation or 24 months,

Operational Environment⁵

Temperature	15°C to 30C
$\Delta T/\Delta t$	<1°C per 15 min
Humidity	5% to 95% relative, non-condensing

Physical

L X W X H mm (inch)	550 X 310 X 160 (21.7 X 12.2 X 6.3)
Weight	18.5 kg (40 lbs)



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¹ Other cavity lengths are available on request

² The output power after an Auto-Adjustment, or after a fresh start may jump from 1mW to 2.5mW from an earlier setting, this is OK.

³ Variability in the measurement mode after a 30 minute warm up period

⁴ ÄTLas 633 maximizes product lifetime with an automatic shutdown cycle

⁵ These parameters outline the conditions under which the system can operate; they do not represent the environmental stability required to meet specified performance.