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## PRODUCT INFORMATION

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### **TEC-420 Amplified Littman/Metcalf Series**

**US Patent 5,867,512 | US Patent 6,297,066 | US Patent 6,869,483 | US Patents pending**

#### Wavelength

- from 670nm to 1180nm

#### High optical power

- output power up to 2500mW
- excellent quantum efficiency
- high fiber coupling efficiency

#### Excellent tuning behavior

- use of in-house anti-reflection coated laser diode
- fine tuning via piezo actuator with a resolution better than 10MHz
- manual coarse tuning up to 30nm at 780nm or 830nm
- large mode-hop free tuning range of up to 100GHz and more

#### Narrow linewidth

- linewidth < 300kHz
- excellent side mode suppression > 50dB

#### Excellent frequency locking performance

- high resonance free piezo modulation
- high frequency laser current modulation
- excellent temperature stability
- low acoustic susceptibility
- excellent locking stability

#### High flexibility

- free beam and fiber coupled versions available
- motorized master Littman / Metcalf laser with automated wavelength scans via remote

#### software

- constant current and constant power operation modes (optional)
- excellent laser performance and frequency stability)

#### Plug & Play configuration

- modular laser system design
- automated piezo tuning with power read-out
- remote control via GPIB, RS232 and USB

#### Application

- Spectroscopy and optical process control
- Seed laser for THz generation
- Optical cooling and trapping, BEC
- Absolute distance interferometry
- Laser and OPO seeding
- Non-linear optical processes

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## CONTACT & LEGAL

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For further information about the product or support requests, please contact your local person in charge.

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