Fiber Bragg gratings (FBGs) are key photonic elements with many applications. Tunable FBG devices provide a tunable platform offering "all-fiber" advantages with extensive application in optical fiber communication systems, tunable lasers, and fiber optic sensors.

Feature:
- All-fiber tunable filter
- Pure axial compression tuning for large wavelength tuning range
- Linear tuning response
- Low insertion loss
- Low hysteresis and drift
- High power capability
- Provides tunability for various types of fiber grating

Patents:
- US  7801403
- China ZL 2008 1 0211470.7

Applications:
- High power tunable filters
- Tunable lasers
- Fiber optic sensors
- Optic wave mixing

Specifications:
Typical Tuning Range:
- >25 nm up to 50 nm
- High power capability (~2W)
- Tuning stability: <0.3%
- Dimension: 124X55X40mm
- Weight: 0.9 kg

Contact us:
To install your custom Fiber Gratings
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The fiber grating tuner is based on our innovative patented tuning technology that utilizes pure compressive strain tuning to achieve a large wavelength tuning range.

The fiber grating tuner is designed to tune the wavelength of various types of fiber grating that include: fiber Bragg grating, phase-shifted fiber grating, or long period fiber grating, etc.

Tuning range: > 25nm up to 50nm

Typical spectra of center wavelength shift during tuning of 1560-nm FBG.
(a) Transmission spectra of the FBG and wavelength shift versus actuator displacement;
(b) Reflection spectra of the FBG and -3dB spectral bandwidth variations during tuning.

Spectra of wavelength shifts during tuning of a 2001-nm and a 1073-nm FBG
(a) transmission and reflection spectra of the 2001-nm FBG during tuning;
(b) transmission and reflection spectra of the 1073-nm FBG during tuning.