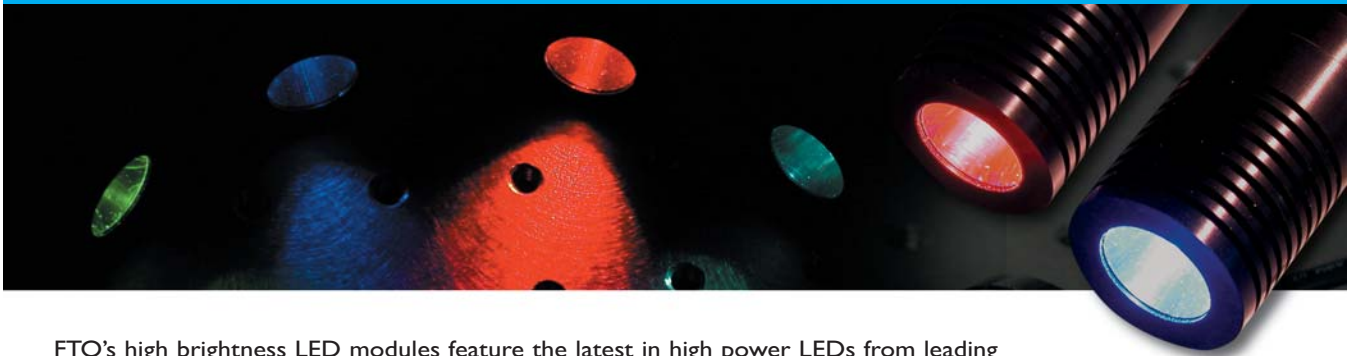


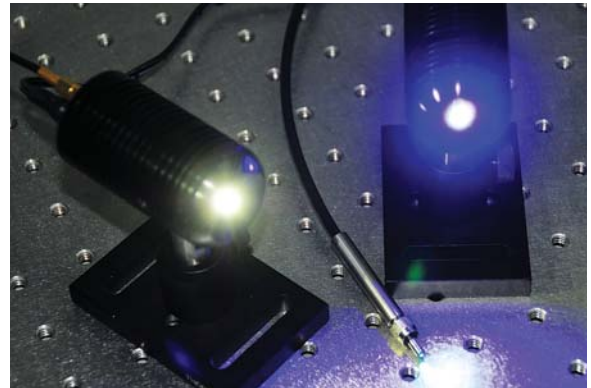
HIGH BRIGHTNESS LED MODULES



FTO's high brightness LED modules feature the latest in high power LEDs from leading manufacturers packaged with driving circuitry in a compact mechanical housing. The housing integrates a heat sink and several mounting features for ease of integration with other opto-mechanical components.

FEATURES

- Turnkey high brightness LED sources
- 1, 3 and 6 emitter modules, can be single or multiple wavelengths
- Low power consumption
- Compact and lightweight
- Can be modulated
- Can be color mixed
- Passively thermally stabilized
- Mounting features:
 - external 1.035"-40 thread for mounting in optical setups using optomechanics from popular vendors such as Thorlabs and Newport
 - 8-32 and M4 mounting holes



OUTPUT OPTIONS

Free space	light emitted in all directions directly from the LED
Lensed	using a simple lens LED output can be collimated or focused with about 25% efficiency
Reflector coupled	a custom reflector captures about 70% of emitted light and forms a hot spot at a prescribed distance, useful for coupling into light pipes and large fiber bundles
Fiber coupled	optical fiber butted against the emitter; offers flexibility at the cost of lower coupling efficiency

BENEFITS

- Versatile light source
- Low operating costs
- No heat related problems
- Reduced system complexity
- Less maintenance

APPLICATIONS

- Illumination
- Biomedical instrumentation
- Spectroscopy instrumentation
- Fluorescence microscopy
- Medical devices
- Industrial machine vision



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