

Price of Low-Temperature Resistant Fiber Laser Pointers

Article Overview

Industrial fiber laser pointers typically range from \$500 to \$5,000 depending on power, wavelength, and environmental resistance.

Overview

Low-temperature resistant fiber laser pointers are specialized devices designed to maintain stable performance in cold environments, often used in industrial, scientific, and defense applications. These pointers leverage fiber-optic technology with rare-earth doped fibers (e.g., erbium or ytterbium) for superior beam quality, thermal management, and durability. They are suitable for precision alignment, marking, and measurement tasks in harsh conditions.

Price Range

- o Entry-level industrial fiber laser pointers (1-50 mW, basic low-temperature tolerance) typically cost \$500-\$1,500.
- o Mid-range models (50 mW-1 W, enhanced low-temperature operation, ruggedized housing) are usually priced \$1,500-\$3,000.
- o High-end or custom fiber lasers (1-10 W, ultrafast pulses, extreme low-temperature resistance, specialized wavelengths like 1064 nm or 1550 nm) can range from \$3,000-\$5,000 or more.

Factors Affecting Price

- o Output Power: Higher power increases cost due to more robust cooling and optical components.
- o Wavelength: Infrared (1064-1550 nm) and visible (green 520-532 nm) fiber lasers differ in cost; eye-safe wavelengths may be more expensive.
- o Environmental Resistance: Low-temperature and ruggedized designs require specialized materials and thermal management, raising the price.
- o Beam Quality: TEM00 Gaussian beams with low divergence and high M2 factor are more costly due to precision optics.
- o Additional Features: Adjustable focus, portable or handheld designs, and integration with industrial systems can increase cost.

Purchasing Guidance

- o Suppliers: Alibaba, Berlin Lasers, and Edmund Optics offer industrial fiber laser pointers with varying specifications.
- o Customization: For extreme low-temperature applications, contacting suppliers for custom solutions is



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recommended.

o Regulatory Compliance: Ensure the laser meets FDA, CE, or local safety standards for industrial use. In summary, expect to pay several hundred to several thousand dollars for a low-temperature resistant fiber laser pointer, with the final price depending on power, wavelength, and environmental specifications. For precise quotes, contacting suppliers directly is necessary.

Berlin Lasers offers a variety of genuine industrial alignment lasers, laser pointers, laser diode modules,

The cheapest fiber laser machines cost under \$3,000, although there are only a few to choose from in this price

The Z-Bolt® ASTRO-10-XT is a special 515nm astronomy green laser pointer - scope mountable, use hands free. Low temp operate

Infrared laser pointers produce laser light that is not visible to the human eye and can only be seen with special instrumentation,

OMTech 30W Fiber Laser Engraver, LightBurn Compatible Laser Marking Machine with Red Dot Pointer for Metal

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Femtosecond Lasers, like all lasers, whether they are fiber lasers or another technology will vary widely in

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