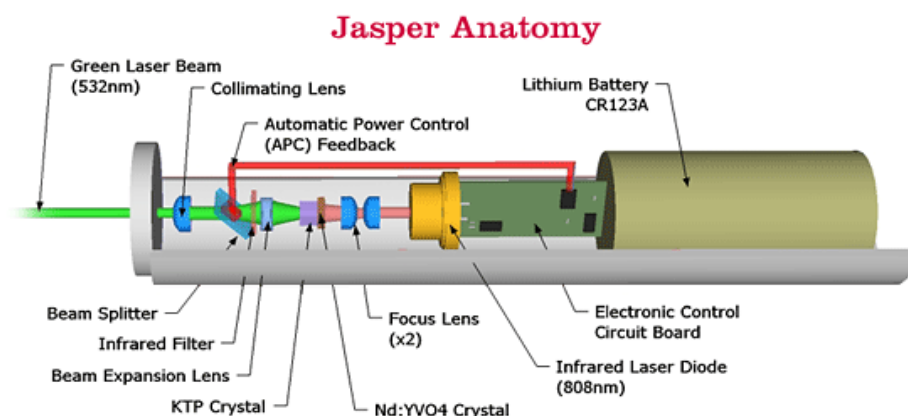




[« Return to the original page](#)

Jasper's next generation technology.

Jasper is built of the latest in pocket laser technology and an impressive bit of science — chemical, electrical and optical — goes into the creation of Jasper's bright green beam. The goal is to deliver a consistently bright and reliable beam of light. Let's take a tour of Jasper's anatomy to see how it all works.



We begin with the lithium battery, where a chemical reaction creates electricity which is carefully fed through electronic circuitry to an infrared laser diode that converts that electrical power into an invisible beam of coherent infrared light.

Focusing lenses concentrate the infrared energy into a pair of carefully crafted and aligned crystals, which combine to magically transform the previously invisible beam to its rich, emerald green color. An expansion lens reshapes this beam before sending it through an infrared filter for final removal of any remaining unwanted energy.

After passage through a beam splitter and final collimation the beam leaps from Jasper's aluminum housing at 186,000 miles per second. When Jasper's green light is beamed into the night sky, its photons will eventually travel over the full distance of our galaxy and beyond: truly a journey of eternity.

Jasper's Unique Advantage

What makes Jasper's design exceptional is Automatic Power Control (APC). Electrical circuitry constantly monitors the actual strength of Jasper's beam which varies with battery age and ambient temperature. APC applies more electrical power when beam energy wanes and reduces electrical flow when the beam energy grows too strong.

The result is long battery life — 6 to 9 hours typically — and a consistently powerful beam. **APC represents the very latest in pocket laser technology, allowing Jasper to operate in cooler evening temperatures where older laser technologies fail.** APC affords Jasper the further benefit of continuous operation. Most pocket lasers simply apply a fixed amount of electrical power and ask that you use the beam for only 30 to 60 seconds at a time before allowing it to cool for a comparable period. APC makes that unnecessary: **you can run Jasper for as long as you like.**

Jasper operates best between about 20 to 30 degrees Celsius or 68 to 86 Fahrenheit. Use Jasper on cooler evenings by warming it in your hands prior to operation.

Jasper is rated to deliver 5mw of optical power: the maximum allowed by United States Food and Drug Administration for lasers in general public use. Jasper's beam is

states FOOD AND Drug Administration for lasers in general public use. Jasper's beam is very safe when used with care. Please review our safety guidelines before using Jasper. Final power output will vary a bit but will not drop below 3.5mw under normal circumstances. Other pocket laser technologies drop to as low as 1mw of optical power.

Jasper lasers are manufactured to our exacting standards and are custom built for Bigha. Our name is right on the label. **We do not sell generic pocket lasers built to unknown standards.** We again test each laser immediately before shipment-insuring you of the brightest, most reliable beam possible.

Have fun!