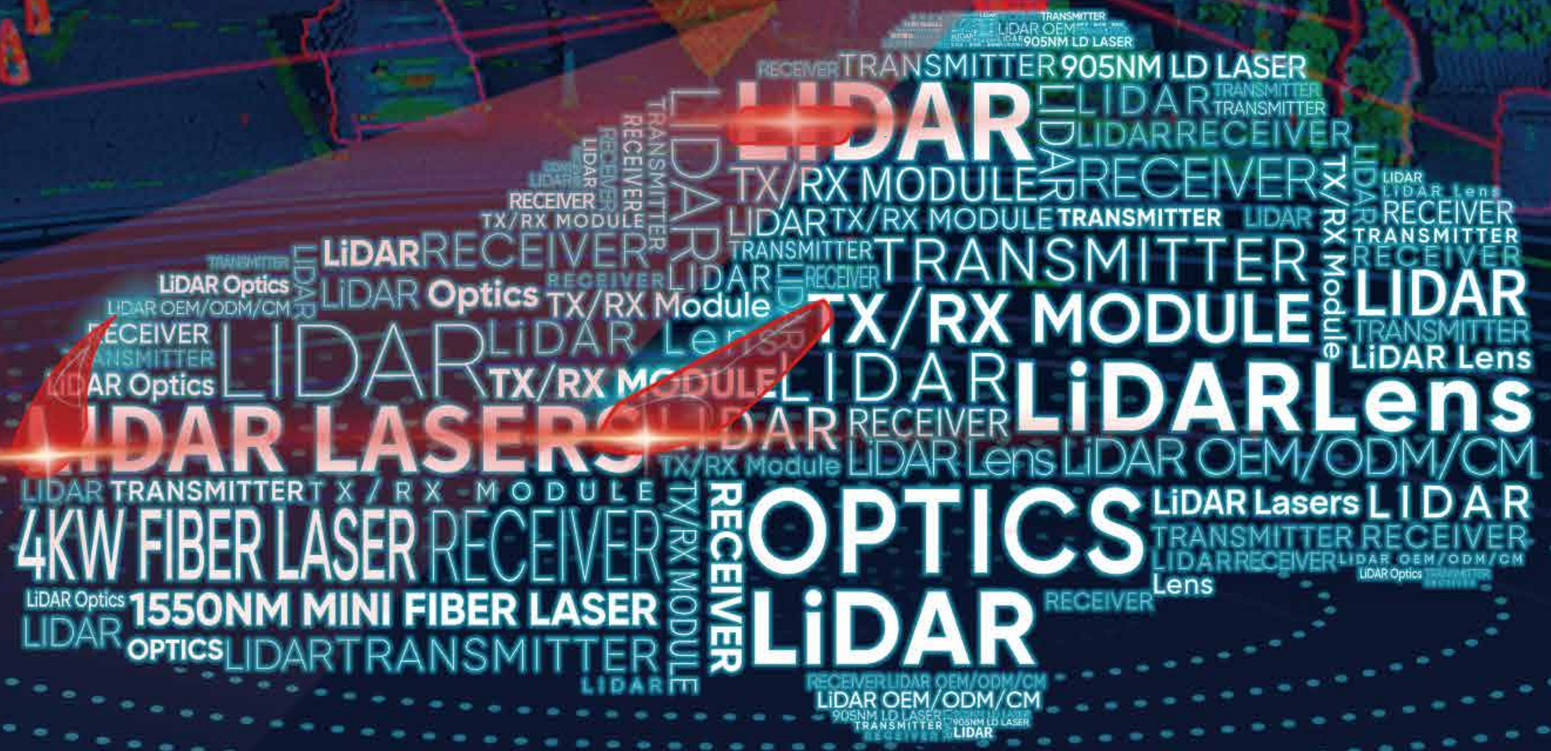
# LiDAR/Autonomous Driving/Intelligont Transportation

- LiDAR
- Autonomous Driving
- Intelligent Transport System
- Remote Sensing
- Mapping



# 1.5um NM MINI FIBER LASER

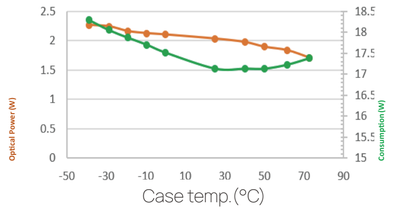
50 x 55 x 19 mm³


| Aqila™ Fiber Laser Key Parameters | |
|---|---|
| Wavelength (nm) | 1.5um |
| Average power | 1W, 2W |
| Pulse Width (ns) | 1-10 adjustable |
| Peak Power (kW) | 1-3 |
| Rep Rate (MHz) | Up to 4M |
| Operating Temperature | -40 to 105°C case |
| Noise | < 5% |
| Jitter | < 100ps |
| Wavelength Stability | < 0.2 nm |
| Fiber Termination | FC/APC or custom |

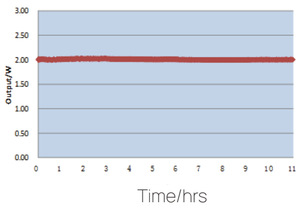
## Features

- Compact size: ≥50X55X19mm3
- Mass production: ≤ 1M pcs @ 2024
- Auto grade: -40°~105° Temperature
- Low consumption: < 12W @ 1W output w/ 25°

Efficiency



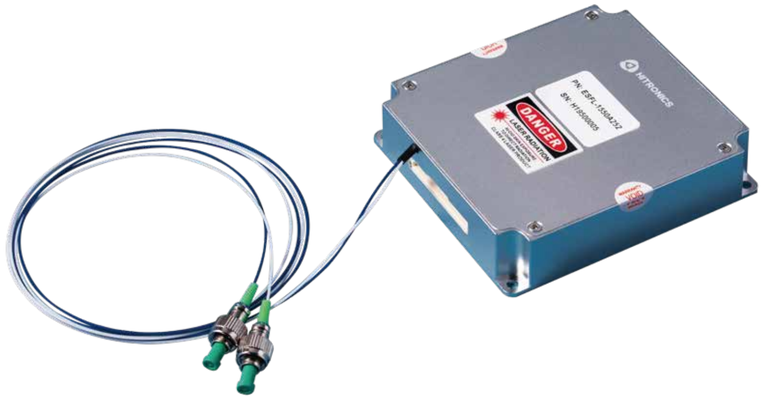

Stability



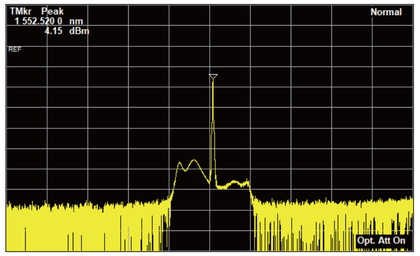
# 4KW HIGH-POWER FIBER LASER

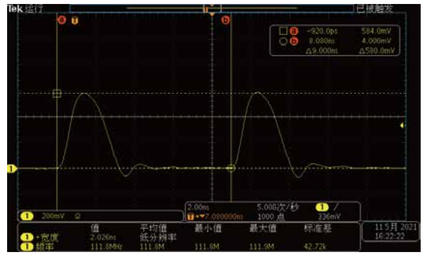
## Features

- Compact size
- Ultra high power
- Gauss pulse
- High signal-to-noise ratio
- Pulse coding




80 x 90 x 23 mm

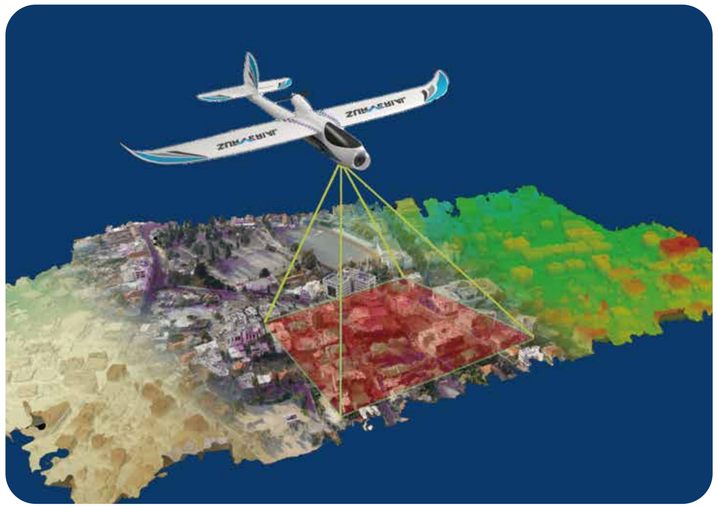


| Ultra high power fiber laser parameters | |
|---|---|
| Wavelength (nm) | 1.5um |
| Average power | 3W |
| Pulse Width (ns) | 1-10 adjustable |
| Peak Power (kW) | 4 |
| Rep Rate (MHz) | Up to 4M |
| Operating Temperature | -40 to 70°C case |
| Storage Temperature | -40 to 85°C case |
| Noise | < 5% |
| Dimension | 90X80X23mm |
| Fiber Termination | FC/APC or custom |

# 4KW HIGH-POWER FIBER LASER

- Scientific & Industrial
- LiDAR Sensors
- Aerospace & Drone
- Telemetry & Remote Sensing
- Free-space Communication



# 905NM LD FIBER COUPLED LASER

## Features

- Flexible optical path easy to adjust
- Adjust to a good round laser spot after optical fiber
- Good beam quality for high-precision requirements
- Integrate multiple laser beams to obtain greater energy
- High coupling efficiency
- High reliability
- Suitable for various optical fibers

# FOR MEMS 905NM LIDAR TRANSMITTER

## Features

- Made a fold of the light spot on the slow axis to boost the output.
- Double spot energy & quality
- High coupling efficiency
- Best for MEMS LiDAR
- Patent# CN208707074U

D10X25mm

# 1.5UM SOLID Q-SWITCHED LASER

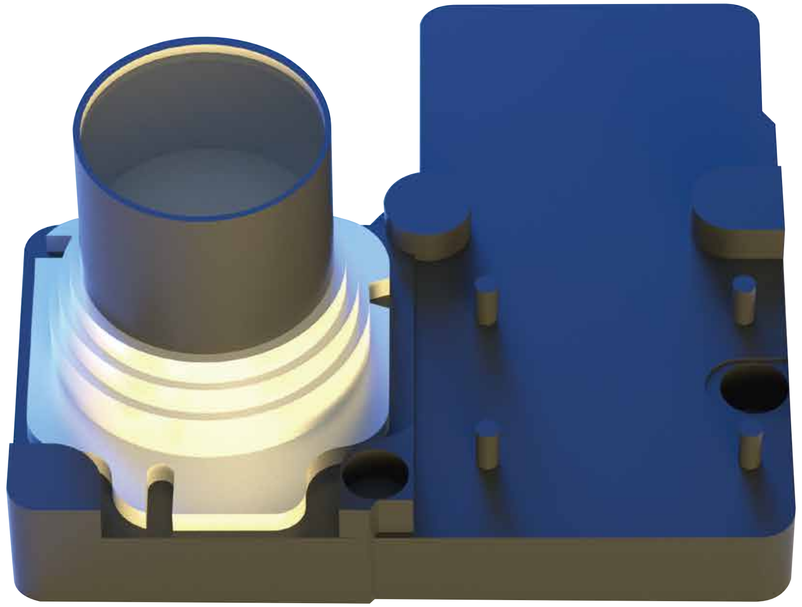
## Features

- Eye-safe laser
- High-peak-power
- Hand-held rangefinder
  100uJ+100Hz
- Long-distance Rangefinders 15KM
  300uJ+10Hz

# FLASH LIDAR RECEIVER

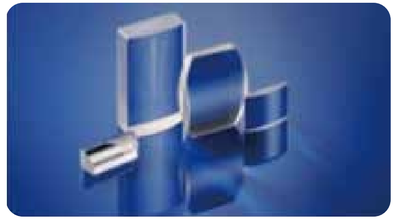
New generation of optical receiving modules for Flash integration advantages of Hitronics' optical processing, opti caldesign, lens assembly and module packaging, to achieve the product performance, cost and reliability and other indicators optimization.

- Optics processing
- Optical-mechanical design
- Lens & mechanical assembly
- Module production

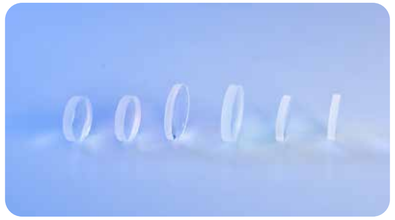


# LIDAR OPTICS

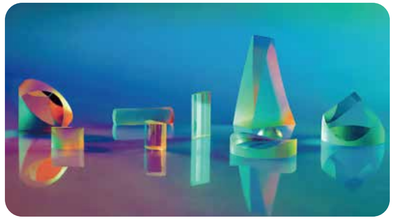
HITRONICS



Cylindrical Lens

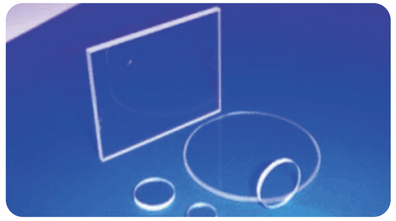


Spherical Lens

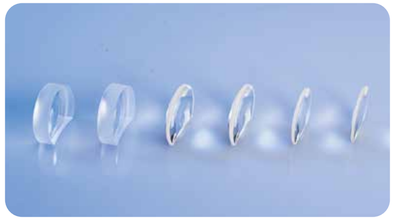


Prism

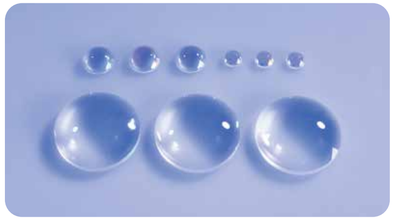
TX / RX



Window

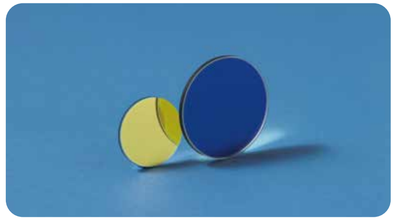


Spherical& Cylindrical Lens

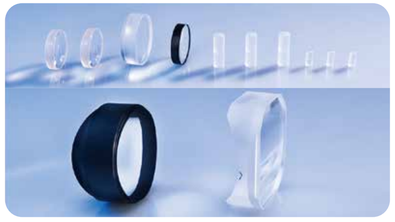


Aspherical Lens

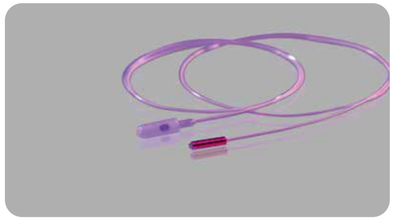
Mirror



Filter



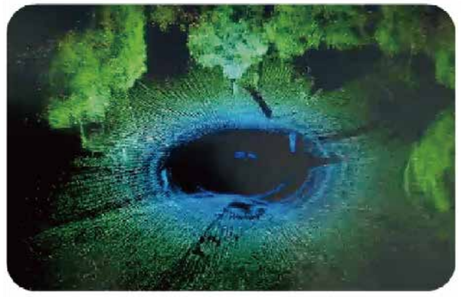
Achromatic Lens



Fiber Collimator

PBS

# CONTACT US

## CONTACT US

**Web:**www.hi-tronics.com

**E-Mail:**sales@hi-tronics.com

### Headquarter

5th Floor, Building 19, Phase II, Haixi High-tech Industrial Park,
Fuzhou, Fujian, 350100, China

**Tel**: 86-591-38265888 **Fax**: 86-591-38265838

### Shenzhen Site

#208 Building R3-B, New & Hi-tech Industry Park,
Nanshan District, Shenzhen, China 518057

**Tel**: 86-755-22678075

### Wuhan Site

2#202 A4 Building Donghu High-Techhnology Region Wuhan

**Tel**: 86-755-22678075

### Sales Europe

Schillerstrasse 39a D-64625 Bensheim Germany

**Tel**: 49-6251-9820018

### US Site/Milpitas CA

1551 McCarthy Blvd, Ste.#116 Milpitas, CA 95035, USA

**Tel**: 1-408-7916352