



## WOE Newsletter Apr 2017

This issue will share with you more about Precision control equipment and lasers.

### Precision Control

#### 1) High Precision Temperature Controller



#### Features:

- Stability better than 0.0005°C with thermistor
- Compatible with a variety of sensors (like thermistors, IR sensors for measuring liquids or solids)
- Touch screen with intuitive user interface
- Safety features to protect your research (like Password protection available to lock out a selectable controls set and Temperature limits on the load)
- LabVIEW® Virtual Instrument, USB and Ethernet interfaces
- Auxiliary input for heatsink sensor
- Feature-rich for research projects
- Auto temperature scan function

#### Applications:

- medical systems
- defense
- communications
- manufacturing test
- particle and droplet measurement

#### 2) Nano Precision Stages



- 3 axis patented Tripod with ceramic servo motors integrated with ALIO's nano precision stages
- ranges from 150 grams of



- Hexapod 6 axis motion system
- Tripod integrated with nano precision stages and a rotary for 6 axes of True Nano precision

mass to 10 kg or mass.

nanometer precision.

- from 3 axes to more than 6 axes

For more information, [CLICK HERE](#)

## Precision Lasers

### 1) Precise and High Power Pulse Laser

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#### Features:

- High repetition rate EOM
- Power setting unit
- Flexible pulse duration and repetition rate by software
- Integrated high power optical isolator
- Burst mode

#### Applications:

- OPCPA
- Micromachining
- Thin film PV patterning
- Laser scribing
- Laser dicing
- Silicon edge isolation
- Microfluidic devices
- SLE processes

For more information, [Click here](#)

### 2) Precise Pulse Fiber Laser



#### Features:

- Wavelength 1030 nm / 515 nm
- Pulse Energy: >10  $\mu$ J
- Average Power >10 W
- Pulse Duration: < 400 fs
- Burst mode

#### Applications:

- Micro Material Processing (like Waveguide Writing, Semiconductors and Organic Materials)
- Biomedical Applications (like Life Science, Ophthalmology and Multi-Photon Microscopy)
- Scientific Applications (like Seeding of Solid State Amplifiers and Nonlinear Frequency Conversion)

For more information, [Click here](#)

### 3) DPSS Laser



#### **Features:**

- narrow spectrum linewidth  $<0.003$  nm
- low noise
- ultra compact

For more information, [Click here](#)