

## Laser Diode Test System (ATE-LD-5A)

# Laser Diode Reliability & Burn-In Test System



The ATE Laser Diode Test System provides a low cost, high performance, accelerated aging, burn-in, and qualification testing for laser diodes. The PRT uses precise control allowing the user to test 64 to 1024 laser diodes in humidity, sub-zero & high temperature conditions.

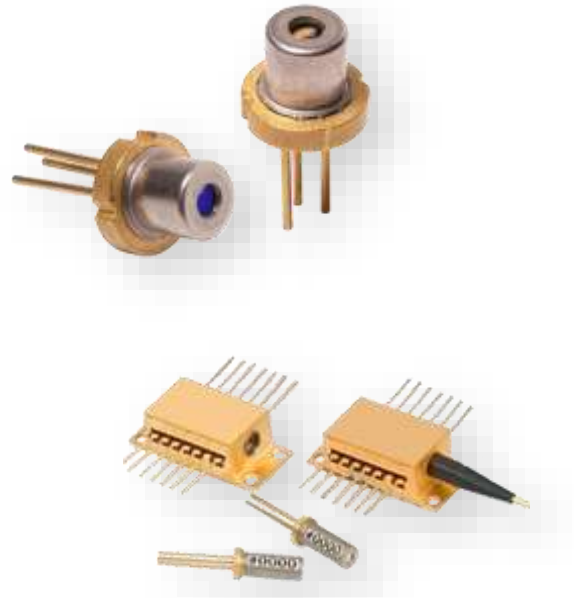
## Affordable & High Performance

### Powerful Software Interface

- An easy to use GUI provides real-time testing and functional reports
- Multiple test scenarios (recipes) are easily configured without complicated programming.
- FIT (Failure in Time) & Mean Time to Failure (MTTF) calculation
- LIV Curve, Threshold Current, Operating Current, Forward Voltage, Monitoring Current and Data Collection
- Designed for use by Operators & Supervisors
- E-mail notification

### Custom Interface Design

- Custom laser diode test fixture boards are built to meet your packaging & test specification
- Custom PRT system input and output interface board connections
- Custom interface control with third party environmental chambers
- Designed to operate up to 200°C



## Technical Data

<b>Reliability Test &amp; Modes</b>	FIT (Failure In Time), MTTF (Mean Time to Failure) ACC , APC, LIV
<b>Measured Quantities</b>	LIV Curve, Threshold Current, Operating Current, Forward Voltage, Monitoring Current, Vmax, Imax, Imin
<b>Number Test Components</b>	64 - 1024
<b>Current Range</b>	1mA – 5,000 mA
<b>Current Accuracy</b>	0.1% of Full Scale
<b>Source Measure Board</b>	Custom Interface Test Fixture
<b>Current Sweep</b>	0.1 mA to 200 mA (200 steps)
<b>Maximum Current</b>	5,000 mA
<b>Default Current</b>	
<b>Measurement Resolution</b>	Analog to Digital 13-bit
<b>Scan Time</b>	2 to 6 seconds per component
<b>Input Voltage</b>	110V -240V AC
<b>Power Consumption</b>	220 Watts
<b>System Dimensions (mm)</b>	L-515 x W-477 x H-395 (size based on 64 component testing)
<b>Material</b>	Aluminum/Steel

## Essential Features

- **Conforms to Test Standards**  
Telcordia (Bellcore) GR-468-CORE  
MIL-STD-883E, Test Method 1016
- **Types of Testing**  
Accelerated aging, burn-in, and qualification testing
- **Designed to Work with All Third-Party Environmental Test Chambers**  
HAST, HTOL, Autoclave, Sub-Zero & High Temperature & Humidity, Bias Test
- **Power Monitoring & UPS Backup**  
Power Failure mode ensures data integrity even through power blackouts
- **Laser Diode Protection**  
Custom current high/low limits are set to protect the laser from damage during burn-in or reliability testing

