

## Photodiode Test System (ATE-PD-XXX)

# Photodiode Reliability & Accelerated Life Testing System



The Photodiode Test System provides accelerated aging, burn-in, and qualification testing for photodiodes. The Photodiode Test System uses precise control allowing the operator to test 64 to 1024 photodiodes 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 are easily configured without complicated programming.
- FIT (Failure in Time) & Mean Time to Failure (MTTF) calculation
- Dark Current, I-V tests and data collection
- Designed for use by Operators & Supervisors
- E-mail notification

### Custom Interface Design

- Custom PCB interface test boards built to meet your packaging specification
- Custom Photodiode Test System input and output interface board connections
- Custom interface control with third party thermal and humidity environmental chambers
- Designed to operate up to 200°C



## Technical Data

<b>Reliability Test</b>	FIT (Failure In Time), MTTF (Mean Time to Failure)
<b>Measured Quantities</b>	Dark Current, I-V, Voc, Isc, Vmax, Imax, Imin
<b>Number Test Components</b>	64 - 1024
<b>Voltage Range</b>	0 - 40 VDC
<b>Voltage Accuracy</b>	0.1% + -15mV
<b>Current Range</b>	200nA – 32,000nA
<b>Current Accuracy</b>	0.1% F.S.
<b>Source Measure Board</b>	Custom Interface Board
<b>Voltage Programming Resolution</b>	0.1 V to 5 V, 64 steps
<b>Maximum Current</b>	32,000nA
<b>Default Current</b>	
<b>Measurement Resolution</b>	Analog to Digital 13 bit
<b>Scan Time</b>	2 to 6 seconds
<b>Input Voltage</b>	110V -240V AC
<b>Power Consumption</b>	125 Watts
<b>System Dimensions (mm)</b>	L-515 x W-477 x H-395
<b>Material</b>	Aluminum/Steel

## Essential Features

- **Conforms to Test Standards**  
Telcordia (Bellcore) GR-468-CORE
- **Types of Testing**  
Accelerated aging, burn-in, and qualification testing
- **Designed to Work with All Third-Party Environmental Test Chambers**  
Sub-zero & High Temperature / Humidity
- **Software Support**  
Custom software modification to meet your requirements
- **Power Monitoring & UPS Backup**  
Power Failure mode ensures data integrity even through power blackouts
- **Built for Easy Use**  
Designed to be used by Operators or Supervisors

