

# yelo

## Test Expertise Laser diode burn-in Characterisation



### ABOUT THE SYSTEM

The Yelo Laser Diode Characterisation system performs automated characterisation of a laser device. The system will allow the operator to load a single packaged laser device into a TEC controlled fixture mount. Each test station (LIV, Spectrum, Farfield/Beam Divergence) will then automatically align with the laser device in a sequential order and perform the automated tests required of each station.

### FLEXIBLE AND READY FOR ANYTHING

The system can be customised to test your laser type or range of laser types due to an interchangeable fixture design with improved flexibility.

### ACCURATE TEMPERATURE CONTROL

The system can offer a configurable temperature control range from  $-25^{\circ}\text{C}$  to  $80^{\circ}\text{C}$ . This is achieved by the combination of Water Cooling and TEC controlled fixture mounts.

### CURRENT DRIVE OPTIONS

Your laser diode can be driven under Continuous Wave (CW) and Quasi Continuous Wave (QCW) mode.

### NEARFIELD AND FARFIELD

The system can provide Nearfield and Farfield measurements of your laser device.

### ACCURATE LIV MEASUREMENTS

Accurate LIV testing from zero amps to your specific limit value. You can measure the optical output power at each current setpoint in a LIV curve.

### SPECTRUM MEASUREMENT

Automated Spectrum measurement and spectrum analysis is performed by integrating an Optical Spectrum Analyser (OSA) into the instrument stack, and performing light capture from either the Integrating Sphere, or a custom designed lens assembly. The OSA function is seamlessly integrated into the overall software function.



# Characterisation

## System Features & Architecture

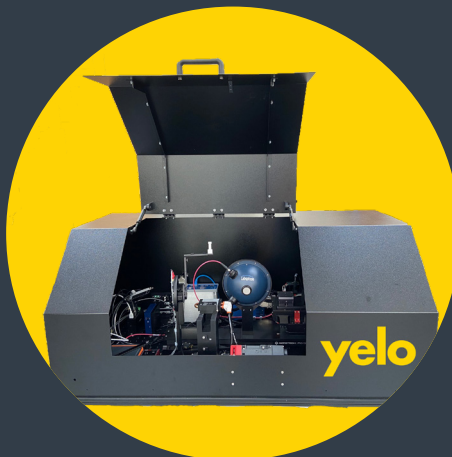
### SYSTEM FEATURES

- Ideal for testing high power devices up to 40A
- CW, QCW Drive
- TEC and Water Cooling Technology
- UPS & Protection Circuitry
- Light tight enclosure
- Measurement available - Power (LIV), Spectrum, Farfield, Nearfield & Polarisation
- Package types include: TOcan, COS, COC, BFLY & Custom modules
- Fully configurable automated software suite
- Ideal for materials processing and high powered telecoms/datacoms
- Used for Burn-in, Life-test & vendor qualification
- Custom built to your specification with NIST standard instruments

### ARCHITECTURE



Fixtures



Enclosure



Headoffice

### WE'LL HELP YOU EVERY STEP OF THE WAY

With us you will receive first-class support to make your testing process easy. Our experts will help you when setting up your tests. You can also receive annual on-site visits from us to keep your system fresh and productive.

### CONTACT US

Yelo Limited

Trooperslane Industrial Estate, 20 Meadowbank Road, Co Antrim, Northern Ireland, BT38 8YF