



Laser System



OVERVIEW

The **Alibava Laser System** is a low power class 1 laser source ideal to work with silicon detectors. The detector characterization, the detector's strip structure, the strips charge sharing or the spatial resolution are some examples of the measurements possible with this equipment.

The Laser System includes a driver to use the laser diode in pulse mode with an external trigger signal. For each trigger pulse, the laser generates a 5ns width pulse with a rise time of 1ns. An optical focuser is included as well to help the user to direct the optical signal to a micrometric spot on the target detector. This equipment is compatible with the Alibava System Classic ASC.

GENERAL FEATURES

- Class 1 laser diode
- Diode Peak power: 0.5mW
- Wavelength: 980nm or 1064nm
- FC/APC Optical connector output
- Input trigger Lemo connector
- Power supply 5V DC
- Plug and play
- Laser driver:
 - 5ns Pulses width
 - 1ns rise time



Laser System

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System contents:

- 1 **Optical focuser:**
 - 12mm Focal distance
 - 20um laser spot
- 1 **Fiber optic cable:**
 - To connect the laser output with the focuser
- 1 **Lemo cable**
 - To connect the input trigger with your trigger source
- 1 **power supply (+5 V AC/DC adaptor)**
- 1 **FC/APC to FC/APC connector**



Focuser

-12 mm focal distance
-20 μ m laser spot



Fiber optic cable



Lemo cable



Front of the box

-FC/APC connector



Rear of the box

-Power supply connector

-Lemo connector

