## Static phantom manufacturing test rig design overview

635 nm pigtailed diode laser source and collimator

Optode carriage assembly

Thumb screw for carriage —— adjustment

Photodiode detector. 25 mm from source

Phantom DUT

Guide rails to repeatably position phantom DUT

## Static phantom manufacturing test rig design notes

- Probes phantom optical properties in a single position
- 25 mm source-detector distance
- Phantom DUT is repeatably positioned with guide rails and backstop
- The optode carriage can only move vertically. It is brought down until it seats against a hardstop (not shown), and then a thumb screw is tightened to lock position
- Foam gaskets (also not shown) between the DUT and both the source and detector are compressed in the measurement position to minimize effects of ambient light and surface reflections

