SBIR
SANTA BARBARA INFRARED, INC.
a HEICO company

Infinity Pulsed Laser Diode Target Projector

FEATURES

- 1064nm Output Wavelength
- PRF of 20 to 12,500Hz, PRF Stability ± 0.005%
- Pulse Width 20 ± 5ns
- Pulse-to-Pulse Stability ± 2%
- Various Trigger Modes including: Internal Trigger (Free Run), External Trigger (Start Laser Firing) Free Run and External Trigger Pulse to Pulse.
- Multi-Function Controller
- Ethernet and RS-232 Interfaces
- Variable Calibrated Irradiance

OVERVIEW

SBIR's Pulsed Laser Diode Target Projector is designed to provide a uniform collimated pulsed laser output at 1064nm. It can be used for testing both laser receivers and detectors, and also alignment of quadrant detectors used in laser guided missiles. The system includes a Newtonian type STC-630Z collimator, laser source and controller, and fiber optic/pinhole target assembly. The system can be operated manually via the front panel touch screen controller display or remotely via an ethernet interface to a PC.

Solutions

for Every EO Test Requirement

30 S. Calle Cesar Chavez, Suite D • Santa Barbara, Ca. 93103
ph (805) 965-3669 • fax (805) 963-3858 • http://www.sbir.com

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SYSTEM SPECIFICATIONS

STC-630Z Collimator

Clear Aperture	6” Diameter
Focal Length	30”
Wavefront Error	0.35 Waves at 633nm
FOV	2.75º
Size	33.5” (Length) x 18.6” (Width) x 12.5” (Height)
Fiber Optic/Target Assembly [1]	See Notes
Target	Pinhole
Output Wavelength	1064nm
Pulse Repetition Frequency Range	20 to 12500Hz
Pulse Repetition Frequency Stability	± 0.005%
Pulse Width	20 ± 5ns
Pulse Irradiance Uncertainty	< 10% of Irradiance
Uniformity at Collimator Output [2]	± 10% of Power Setting Over 4 inch Diameter Central Area
Peak Irradiance Range (minimum)	0.01mW/cm^2 to 0.1mW/cm^2 (for 10 mrad Target Subtense)
Control	Manual Via Front Panel, RS-232 and Ethernet Interfaces
External Trigger	Diode Pulse Controllable Via External Trigger (TTL Trigger Input)

ORDER INFORMATION

Please contact SBIR sales team at (805) 965-3669 to receive more information about this product.

Notes: 1) The fiber optic pinhole target assembly is mounted at the focus of the collimator. The alignment of the target assembly will be done at the factory prior to shipment. Periodic adjustment is not required unless the laser collimator and fiber are replaced or the system receives a severe physical shock.

2) Measured with a radiometer with a collecting aperture of less than 1” diameter

** Specifications are subject to change without prior notice*

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