

STS

SAPPHIRE

Technical Solutions

AP-48SD

Standard-Duty Goniophotometer

Description:



The AP-48SD is the main component of an automated photometer system. It is a standard duty automated machine capable of positioning a 48 inch lamp and testing fixture. The automated photometer system accurately measures:

- SAE, ECE, JIS, FMVSS108, TSD108 (Canada), and other automotive exterior lighting regulations
- Forward lighting, signal lighting, retro-reflex, and other custom testing
- Commercial Lighting with optional mirror for Type-C testing
- FAA and ICAO aerospace and airport lighting regulations

Specifications:

- Photometric Range: 0.01 to 2,000,000 cd, photo-detectors with internally digitized sensors
- White Uncertainty < 1%, Red < 3%, Amber < 2%. Intensity Linearity Error < 2%
- Positional Accuracy: 0.005 degree resolution/0.01 degree repeatability
- Horizontal (L/R) Travel: -180 to 180 degrees
- Vertical (U/D) Travel: - 90 to 90 degrees
- Center Height Travel: 0 to 17 inches. Maximum Load: 60 kg (130 lbs)
- Maximum Rotational Clearance: 48 inch diameter
- Optional automated fixture (XY) positioning for higher throughput and increased accuracy without operator intervention
- Compact Size: 60" W x 35" Deep x 70" H
- N.I.S.T Traceable / ISO-17025 Calibration Transfer Standards

STS Software Provides

- Beam distributions and bird's eye plots for beam pattern analysis
- User's ability to create custom testing requirements
- Networking and Data Storage using .html and .pdf formats for simple file retrieval and sharing
- Optional Modular Room and Vertical Tunnel for production floor installations