STS SAPPHIRE Technical Solutions

VP-100

Vertical Reflex Photometer

The VP-100 is a Vertical Reflex Photometer capable of performing measurements to approximate the value of SAE, ECE, JIS, FMVSS108, TSD108 (Canada), and other automotive exterior lighting regulations. This system provides available testing distance of 20 ft., helping to better correlate with a full gonio-photometer system.

COMMITTED TO INNOVATION

AS A GLOBAL LEADER IN OUR FIELD, WE OFFER A VARIETY OF COST-EFFECTIVE, SCALABLE SOLUTIONS FOR PHOTOMETRIC AND ENVIRONMENTAL TESTING ACROSS A RANGE OF COMMERCIAL LIGHT TESTING INDUSTRIES. WE STRIVE TO BE AN INDUSTRY VOICE FOR MODERNIZATION AND IMPROVED STANDARDIZATION.
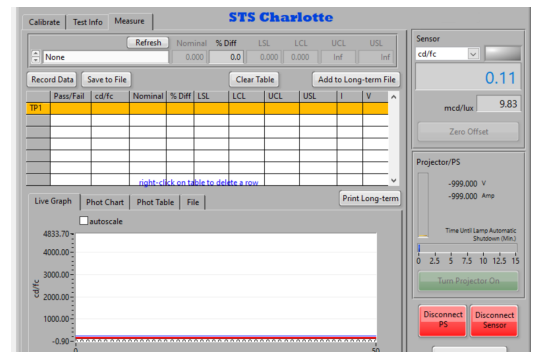
CERTIFICATIONS & MEMBERSHIPS

- IEC/ISO-17025 Certified
- GTB Delegate - Automotive Lighting & Light Signaling Expert Group (EU)
- SAE Automotive Lighting Committee
- SAE Aerospace G20 & A20 Committee
- SPIE - International Society of Optical Engineering
- IEEE - Institute for Electrical & Electronics Engineers
- IESNA - Illuminating Engineering Society of North America
- ANSI - FL1 - Flashlight Standards Committee

TIMELY REPORTING

CUSTOMIZED REPORTS AVAILABLE IN MULTIPLE FORMATS.

UP-TO-DATE SOFTWARE

RUN WITH VPSCALE, OUR PROPRIETARY SOFTWARE, THE OPERATING SYSTEM IS ALWAYS UP-TO-DATE.

ISO 17025 ACCREDITED TESTING LAB

A GLOBAL LEADER IN LIGHT MEASUREMENT TECHNOLOGIES.
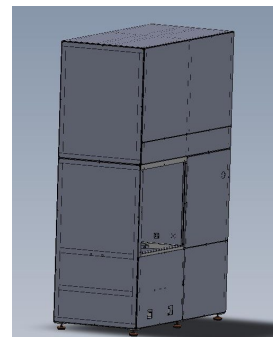
SOFTWARE CAPABILITIES

- Industrial **touch-screen** with easy to use graphical screens for simple, efficient sample testing
- Retro-reflex software for data acquisition
- Calibration, measurement, and data storage capabilities
- Capable of implementing purchased custom requirements, including data transmitting through email, direct PDF output, export to Excel and other statistical analysis programs
- Networking and Data Storage using .html and .pdf formats for simple file retrieval and sharing

SPECIFICATIONS

- High-accuracy photometer at user level with fiber optic probe for measuring 0.2-degree observation angle.
- 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%
- LabVIEW-based software package for data acquisition and system calibration.
- Pass/Fail Verification for in-line testing
- 20 foot testing distance with a collimated 10 inch (254mm) projected beam @2856K C.C.T.
- Small Floor space—72"W x 36"D x 10'H   (183cm x 91cm x 295cm)
- N.I.S.T Traceable Calibration Transfer Standards
- Stand alone, commercially available power supply with high resolution, accurate current and voltage control
- Live real time photometer data
- Industrial touch-screen computer mounted on articulating monitor arm
- Simple hook-up via 1 Ethernet
- Optional SPC Software available
- Receptacle and 1 standard 110V/15A outlet

We design and manufacture **highly customized** photometric testing **equipment and software** for our customers.

- GONIOPHOTOMETERS
- PHOTOMETERS
- CAMERA-BASED PHOTOMETERY
- SPECTRORADIOMETERS
- VIBRATION TEST MACHINES
- INTEGRATING SPHERE
- CUSTOM EQUIPMENT
- SOFTWARE

ISO 17025 ACCREDITED TESTING LAB

A GLOBAL LEADER
IN LIGHT MEASUREMENT TECHNOLOGIES.