



# TDA-200

## Test Data Acquisition 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 LIGHT TESTING INDUSTRIES. WE STRIVE TO BE AN INDUSTRY VOICE FOR MODERNIZATION AND IMPROVED STANDARDIZATION.

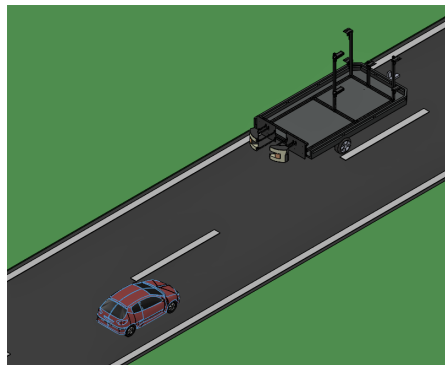
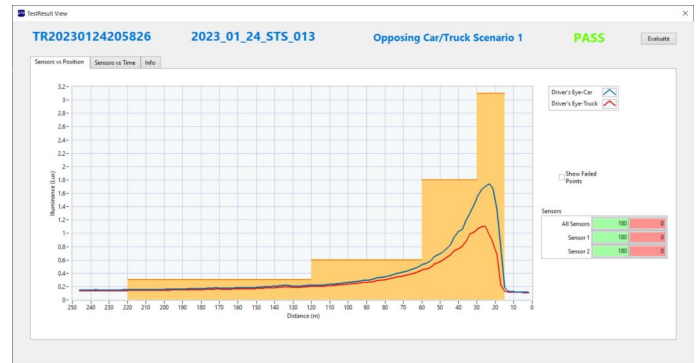
### CERTIFICATIONS & MEMBERSHIPS

- 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

The TDA System delivers measurements for illuminance values versus time/distance to test vehicle. The full system utilizes high-speed, high-accuracy photometers with remote controlled light sources to provide reporting to FMVSS criteria for track test scenarios and future NHTSA NPRM ADM ruling.

### SOFTWARE

SOFTWARE AUTOMATICALLY CALCULATES COORDINATED ILLUMINANCE AND DISTANCE DATA USING RTK HIGH ACCURACY GPS TIME AND COORDINATES.



### TIMELY REPORTING

TEST RESULTS ARE AVAILABLE IMMEDIATELY AFTER EACH TEST RUN WITHOUT WAITING FOR POST-PROCESSING



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

- IN-HOUSE TESTING
- GONIOPHOTOMETERS
- PHOTOMETERS
- CAMERA-BASED PHOTOMETRY
- SPECTRORADIOMETERS
- VIBRATION TEST MACHINES
- INTEGRATING SPHERE
- CUSTOM EQUIPMENT
- SOFTWARE

## TDA-200 SYSTEM

- Delivers measurements for illuminance values versus time / distance to test vehicle
- Data coordinated and automatically evaluated with TDA-200 Software immediately after each test run
- Runs off 12V of test vehicle or separate battery
- Remote start of data acquisition
- Remote on/off of "static" and "suddenly exposed" lights
- GPS unit measures and stores distance to test trailer/test base
- Combines GPS Test vehicle distance with 5 "live" photometer lux readings during test runs
- Simple Ethernet connection to photometers and laptop for use with TDA reporting software



## PHOTOMETER CAPABILITIES: Photo-150

- TDA system uses high-speed, high-accuracy photometers
- Cosine-Corrected Optic with 50deg field of view (other option available)
- 100 readings/sec
- Built-in "Ambient Light" offset.
- Auto-ranging for 9 decades of illuminance (lux) levels (0.0001 – 100,000 lux)
- Single Cord - POE powered by Ethernet
- 35 Hz data filtering (adjustable for regulation change)



## FMVSS108 ADB LIGHT SOURCES

- Self-regulated internal power supply for constant voltage 12.8 V DC (Other settings available)
- Unspillable Rechargeable 12V battery
- Remote turn on/off up to 500m
- Operate from within the ADB vehicle
- Digital trigger on Light Controller for data acquisition interface
- Headlamp - 2018 Ford-150, 2018 Toyota Camry, & 2018 HD Sportster Lamps
- Taillamp - 2018 Ford-150, 2018 Toyota Camry, & 2018 HD Sportster Lamps

