

STANDALONE VEHICLE ILLUMINATION VERIFICATION SYSTEM



9 x SABS Approved Lux Sensors with PASS/FAIL indication



Set of Laser Beams and leveling tools for alignment and setup



User friendly Software Application complete with DAU/User interface

Rugged / Mobile Military Spec Travelling Case complete with 12-17 Hours operating time (Rechargeable System)

OVERVIEW

As a standard, mining vehicle's lights should as a minimum provide 10 lux over a 20m distance. Standard mine practice requires that the lux readings of each vehicle should be taken and recorded at least every three months. The Standalone Vehicle Illumination Verification System was designed to do these readings over nine typical pickup points to cover a specific area pattern where people would typically walk upright or be in a horizontal position. The System was also designed to have additional LED indicators to each of the nine lux sensor modules for the vehicle operator to visually confirm whether the vehicle lights are parallel to the panel (this greatly assist in the correct orientation of the vehicle). These records/measurements for each vehicle can be downloaded and the information will be time/date stamped complete with a vehicle ID (This version of the system will take manual vehicle ID inputs into the User Interface Software Application).

SYSTEM ADVANTAGES

- The mine can do all their vehicle illumination tests on one accurate standard
- The mine can keep data on all the tests at all times
- The mine can link it to their routine maintenance to ensure all the vehicles are being inspected on a 3 monthly basis as recommended by the DMR
- The system can be checked and verified on-site on a 3 monthly basis and properly calibrated annually
- All the vehicles can be set to one accurate standard / Perfectly aligned across the fleet

WWW.BARNELDESIGN.CO.ZA





STANDALONE VEHICLE ILLUMINATION VERIFICATION SYSTEM



BASIC CONFIGURATION SYSTEM SETUP

As a standard vehicle lights should as a minimum provide 10 lux over a 20m distance. Standard mine practice requires that these readings be taken and recorded quarterly. BarNel designed and developed a Vehicle Lux Verification System that would do these readings, record them and be able to download the information date stamped and with a vehicle ID.

We have added additional LED indicators to each of the lux sensor modules for the vehicle operator to visually confirm whether the vehicle lights are parallel to the panel, this will greatly assist in the correct orientation of the vehicle. The mine to assist with the civil work and the 20m demarcation.



INCLUDES:

- 1x Rugged / Mobile Military Spec Travelling Case complete with 12-17 Hours operating time (Rechargeable System)
- 3x Custom Stainless Steel Tripods to cover a 9 point parameter (Complete with carry bag)
- 1x Vehicle Illumination Verification System Controlling panel with 9 sensor inputs
- 9x Rugged Cable Harness
- 9x SABS Approved Lux Sensors with PASS/FAIL indication
- 1x Set of Laser Beams and leveling tools for alignment and setup
- Training and Setup at no additional cost
- Calibration Certificate
- User friendly Software Application complete with DAU/User interface
- Logging capability – Excel and/or PDF

CURRENT MARKET CHALLENGES

- Mine employees need to come out at night to conduct test which can be costly in terms of overtime
- Not all vehicle are sometimes found to conduct tests on in a 3 monthly period which means some vehicles are being overlooked
- Tests are performed manually with a normal handheld lux meter which can open a gap for human errors
- Not all test are performed consistently in a fixed stable pattern/environment

