CILS1500

LED CALIBRATION IN-LINE TEST SYSTEM

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CILS1500: PRECISION AND EFFICIENCY IN LED CALIBRATION

Developed to meet the most demanding standards of the LED lighting market, the Calibration In-Line System (**CILS1500**) is the ideal solution for **calibrating a large number of LEDs** ensuring exceptional consistency and quality in LED products.

The **CILS1500** features a versatile and scalable design adaptable to both small production runs or large batches of varying panel sizes, according to customer's needs.

Equipped with multiple parallel working heads, optical microspheres, linear power supplies, and independent LIN buses, it guarantees **accurate correction of color and intensity variations** among LEDs during production.

Key Benefits

- Dual heads working in parallel: for simultaneous calibration of multiple LEDs, increasing the operational throughput and reducing calibration time as both heads can perform color and intensity corrections at the same time.
- Multiple Optical Microspheres: enhance the precision of color and intensity measurements during the calibration process. These microspheres diffuse light in a controlled manner, allowing for accurate readings of each LED's output.
- Multiple Independent LIN Buses: provide flexible control and communication for individual LED units within the calibration system. This allows for precise management of the power supply and calibration process for different groups of LEDs, enabling simultaneous adjustments and monitoring without interference.
- NI TestStand Software architecture and MS SQL server traceability, providing reliable performance and easy integration with existing systems.
- High Handling time of approx. 8 sec. (machine cycle time excluding test).
- Suitable across several industries related to LED lighting and optical applications, such as the LED Manufacturing, Display Technology, Automotive Lighting, Consumer Electronics and Aerospace and Defense markets.

Test

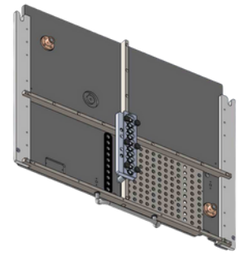
- LED calibration
- ICT/MDA (in parallel with XILS800)
- ISP&FCT (in parallel with XILS600)

Product Communications

- LED calibration
- ICT/MDA (in parallel with XILS800)
- ISP&FCT (in parallel with XILS600)

	CILS1500
Typical application	RGB Calibration
Max. PCB size	510X60 mm
Min. PCB width	100 mm
Component top side clearance	30 mm
Component bottom side clearance	50 mm
Drive force (nominal)	8 kN
Recommended/Max test points	600
Handling time (machinecycle)	approx. 8 Sec (*)
Fixture exchange time	< 3 min
Dimensions (length)	1500 mm
Dimensions (width)	1500 mm
Dimensions (height)	2300 mm
Weight	1000 kg
Rackeable/Instrumentation space	General purpose calibration RGB (10U)
Interface type	Pylon Block
Machine control	Beckhoff
Machine communication	Sockets communication
Electrical power	3x380 VAC 50 - 60 Hz
Pneumatic requirements	6 bar
CE approved	Yes

(*) This handling time will depend on the speed of the conveyors installed before and after our machine.



Innovation, Quality and **Passion for Engineering.**

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Aeronautics

Special **Test** Equipment

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AENOR AEROSPACE QUALITY EN 9100 OP-0006/2014

AENOR GESTIÓN DE LA CALIDAD ISO 9001 ER-0947/1997

IQNET RECOGNIZED CERTIFICATION

INNOVATIVE SME

EMPRESA SALUDABLE