

Press release

Luvision: Optical and electrical test system for LED modules

Three employees of the Hechingen-based LED company Lumitronix have developed an optical and electrical test system for LED modules under the name of Luvision as part of their final thesis as state-certified technicians.

Basis of the technician project was the highly error-prone electrical function test, which had previously been carried out manually. During this test, probes are usually applied to LED modules, which then light up. They are thus tested for electrical properties such as current or voltage. Defective components are sorted out in this way. However, testing sometimes hundreds of LEDs per module is very strenuous and tiring for the human eye. Errors are unavoidable and defective components can come into circulation. This inevitably leads to follow-up costs.

The project objective was therefore to improve and automate this problematic process. It should be possible to carry out both electrical and optical 100% inspection of linear LED modules in semi-automatic operation. High priority was also given during development to the repeatability and reliability of the inspection process. In addition, convenient PC operation was also an important requirement.

Ultimately, Luvision is a machine with a noble design and high precision, which can be controlled by means of modern software and operated via touch screen. A camera inside checks for any optical defects, while the so-called execution board measures the electrical properties of the components.

The company Lumitronix is looking for customers interested in Luvision, who would like to use the system under real conditions. In addition, a revision of the test system is planned, which will be available at prices far below the market level once it is launched.

About Lumitronix

Lumitronix has been one of the leading specialists for LEDs and LED products for many years. As a competent partner for industry, Lumitronix possesses extensive application knowledge from numerous sectors. The Swabian company, based in Hechingen, Germany, has ISO 9001 certification and is also the official distributor of market-leading manufacturers of LED technology. Lumitronix is not only involved in the distribution of LED products, but also develops and manufactures in-house according to customer-specific requirements. Quality Made in Germany.

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