

# Instrumentation

## INDUSTRY

Test & Measurement

## SOLUTION

LCC600

## EQUIPMENT

Optometry

## Optometry Measurement

One of the critical measurements that an optometrist or optician makes when you have an eye examination and need spectacles are the horizontal and vertical centration, which ensures that the area of the lens where the prescription is most effective is placed at the optimum point for the individual patient. These measurements, including one sometimes called inter-pupillary distance or centration distance, are traditionally made manually with the aid of a millimeter ruler. A leading supplier of optical health equipment has developed a digital system that offers highly accurate 3D centration and innovative features to create a memorable experience for patients. The customer chose to power the system with Artesyn's LCC600 conduction cooled power supply as they wanted to avoid noisy fans and have a supply with the latest medical approvals. A maximum leakage current of less than 400  $\mu$ A and protection against contact thanks to being fully enclosed also made the LCC600 series the ideal power supply for this innovative development in optical healthcare.

## Display Testing

A new generation of super-slim televisions and display screens are being built using organic light emitting diodes (OLED), a flat light emitting technology, made by placing a series of organic thin films between two conductors. When electrical current is applied, a bright light is emitted eliminating the need for a backlight and so creating thinner and more efficient displays than LCDs. Testing this new technology requires a new generation of test equipment so a maker of OLED test systems gave the green light to Artesyn's iHP series modular high power system for its new OLED panel test products. The wide range of outputs and flexibility of this digitally controlled system meant the customer didn't have to develop a custom power solution for their advanced automated test equipment (ATE). The iHP series also meets the SEMI F47 voltage sag tolerance standard, which is critical for semiconductor processing and automated test equipment.



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