

## LS-100 LUMINANCE METER

### Testing Monitors for the Israeli Government



LS-100 Luminance Meter

Alfred Poor is ready for anything thrown his way in the display industry. For more than 22 years, he was a Contributing Editor with PC Magazine and was their first Lead Analyst for Business Displays. Over the years, he was directly responsible for developing the test protocols for all of the display products tested in the highly-regarded PC Magazine Labs, from monitors to projectors covering a range of technologies including CRT, DLP, plasma and LCD. He is also a Senior Member of the Society for Information Display, with an international reputation in the display industry.

He was delighted when the Israeli government and key members from the Ministry of Finance turned to him for

help and guidance in purchasing new monitors for general use by their information workers. They wanted Alfred to develop the scope and protocols for the testing the monitors, and then to perform the testing after bids were submitted. For the most accurate testing of these monitors, Alfred turned to Konica Minolta Sensing for the right equipment.

Since these new monitors would be used for general use, more sophisticated measures such as color performance were not required. The fundamental functions of brightness (or more precisely, "luminance"), contrast, and uniformity were largely sufficient to judge the suitability of a monitor for this sort of application. Konica Minolta recommended the LS-100 Luminance Meter for the job. The LS-100 has simple controls, making it easy to learn and use on your own. The back-lit display on the side of the instrument allows for results to be recorded during low-light testing conditions. The pistol grip and eyepiece viewfinder allow for quick and reliable measurements.

The testing measured the luminance (the amount of light from a given area of the display) using a series of test images. Uniformity and average luminance were measured using full-screen white and black images, which were also used to measure off-axis viewing performance. A four-by-four matrix checkerboard of black and white rectangles were used to measure contrast ratio performance, and a series of dark gray and light gray images provided a measure of grayscale performance.

The factory calibrated LS-100 allowed Alfred to have confidence in the results. The measurements were tallied to provide an objective comparison of the monitors for the bid. The Israeli government was then able to proceed with the bidding process with a clear understanding of the performance differences between the various models.

In addition to the LS-100, Konica Minolta offers a full line of light and display measurement instruments suitable for a wide range of industries. Contact us today to find the right equipment to fit your budget and needs.