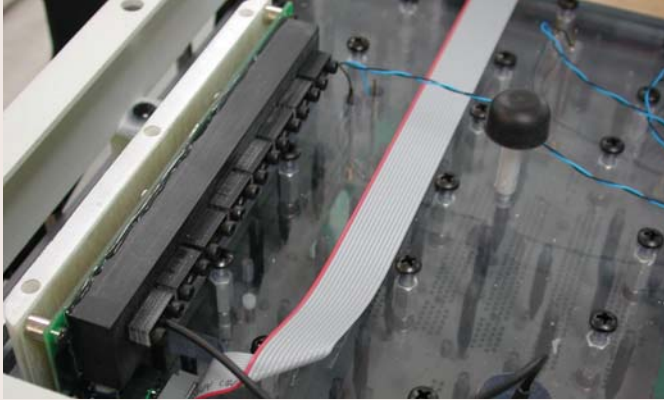




LEDcheckTM
For true color testing of LED's



- Measures Wavelength of LED's
- Excellent repeatability
- 8 LED Check ports per module

LEDcheck is a modular electronic assembly designed specifically for true color testing of light emitting diodes (LEDs) on printed circuit boards. The LEDcheck module is mounted in the fixture and used in conjunction with automatic test equipment. Each module can accommodate 8 LEDs and can easily be cascaded indefinitely should the need for additional channels arise. Each channel measures the true color of the LED under test, and provides an analog output to the test system proportional to the wavelength of the light detected from the LED. The channel selection is also under control of the test system, using digital channel addressing. The LEDcheck color test module is an inexpensive multi-channel, color-measuring device with excellent repeatability.

	LEDcheck	Brand "O"	Brand "F"
True Color test	Yes	No	No
Tri-Color test	Yes	No	No
Individual optics can detect any color	Yes	No	No
Minimum space required for mounting boards to test 8 LEDs	1Board 2 x 6 x 1" tall	8 Boxes 10 x 5 x .5" tall	N/A
Stackable LED boards	Yes	Yes	N/A
Angle mounting for minimal use of space	Yes	No	N/A
Agilent HP307X and GenRad 22XX test libraries provided	Yes	No	No
Minimum center to center spacing	0.75"	0.75"	0.250"
"LED Checker" stand-alone tester available	Yes	No	No
No calibration required	Yes	No	No
Easy on-site maintenance	Yes	No	No
Easy to recycle for new applications & color with no re-calibration	Yes	No	No
Flexible light pipe	Yes	Yes	No

Once the hardware and the measurement are setup, LEDcheck can be relied upon to perform color tests within the prescribed criteria. LEDcheck input requirements are power/ground connections and digital channel select signals in a binary multiple of the number of channels.

LEDcheck measurements return analog signals providing a direct reading in nanometers, multiplied by 4. The wavelength range covered is from 400nm to 650nm, corresponding to 1.600V to 2.600V. To accommodate white LED's, the analog output will set to 3.500V for a white level condition, or to 0V if the module detects no light.

Test Fixture Group

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