

MEGA FINN™

Unparalleled Speed and Accuracy



Take the guesswork out of LED test with the most accurate, and fastest sensor yet - Mega FINN™.

Utilizing customer feedback, FINN Test Electronics has been able to continuously improve product features with each new LED sensor delivered. The latest offering, Mega FINN™, incorporates firmware improvements that effectively take the guesswork out of implementation and make it truly a “one size fits all” solution.

With LED test, the number one problem programmers face is turning on the LEDs for their assembly under test. Challenges such as charging caps on the board, back driving digital components, and tester resource compliance are now issues of the past. Mega FINN™ has completely new algorithms which solve issues that could cause erroneous sampling, thus reducing user implementation problems.

Mega FINN™ measures most LEDs in 3 milliseconds. Intelligent triggering will start a fresh sample when an LED turn on is detected, giving this sensor the fastest response time possible.

Even in the worst test environments, i.e. noisy signals, ambient light and dim LEDs, Mega FINN™ can still obtain precise readings fast – in 80ms or less. The new firmware ensures that readings are no longer susceptible to errors caused by ambient light, eliminating the need for shrouding or blocking.

- **100 times faster than other LED sensors on the market - delivers most measurements in 3 milliseconds or less**
- **Detects 2000 different hues between Blue (400nm) and Red (700nm)**
- **Eliminates most user implementation problems**
- **Reduces ambient light errors**

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PRINCIPLE OF OPERATION

The Mega FINN™ combines the form factor of the Ultra FINN™ with a new operating program that allows for greater speed and stability, to accommodate the need for even faster test measurements and additional types of light sources such as pulsing LEDs. The Mega FINN™ calculates the color and intensity of the light being tested, converting it to an easy to read signal for comparing LEDs and other light sources. The Mega FINN™ outputs a Frequency in kHz that quantifies the LED's color. The same signal quantifies the intensity of the LED by measuring its pulse-width (average DC voltage). The Mega FINN™ provides customers with the flexibility to test light sources using anything from simple stand alone meters to fully integrated and automated equipment.

FEATURES

- High accuracy of +/- .3% with an average resolution of 0.1nm throughout the visible spectrum
- Super fast response time – typical measurement for average to bright LEDs in less than 3 milliseconds
- Works with any pulse width modulation LED pulsing at 50Hz or greater.
- So fast it will output ON and OFF results when an LED is blinking slower than 30HZ
- Intelligent triggering feature
- Built in infraRed filter to attenuate non-visible light
- Built in diffuser to assist with reading non-diffused LEDs

APPLICATIONS

- When test requirements call for the absolute fastest test time possible
- When quality control demands reliable, unerring accuracy and when clear cut measurements are vital
- For pulsing, bright, to very dim LEDs -visible light from ultraviolet to near infrared
- Automated testing of LEDs for color and brightness
- Any functional and In-circuit test environment, on any platform

SET UP

- 3 pins - output (signal), ground and power
- Improved sleeve uses more durable wire wrap terminations and multiple press rings for easier installation,
- 30 gauge wire is recommended
- Power source required is 5.0 volts DC Current is typically 17mA

ORDERING INFORMATION

DESCRIPTION	PART NUMBER
MEGA FINN™ Sensor	TCMega200
MEGA FINN™ with Sleeve	TCMega200SL

