

High-performance LED test solutions.



VEKTREX

RELIABILITY

Modular solutions for LED package, array and module testing

PROVEN COMPONENTS.

Leading LED and SSL designers, manufacturers and labs choose energy-efficient SpikeSafe™ series current sources for LM-80 and high-power applications.

With the modular architecture and wide range of SpikeSafe current source options, system components, chambers, fixtures, cables and software, reliability systems can easily scale for increased capacity and testing flexibility.

Designed for operator, system and test device safety, SpikeSafe™ load protection continuously monitors voltage and current on all source channels and instantly shuts down when device anomalies are detected. Rapid shutdown preserves the failure device for analysis, protects other devices, reduces failure counts and improves reliability results.

Software simplicity.

Vektrex software applications are designed to address and support a wide range of reliability testing needs. SpikeSafe™ Test and Reliability Software (STARS) controls and monitors channels, loads, and thermal control devices during testing.

With STARS, long-term reliability and burn-in tests can be automated and unattended STARS supports independent channel startup and shutdown allowing multiple LED batch runs on a single system for optimized output.

STARPLOT software provides a graphic view of data to quickly identify and illustrate trends.

From precise measurement to failsafe device protection and remote thermal control, Vektrex software simplifies test control and data collection.

A complete high-capacity system.

Vektrex Reliability Systems are built on scalable, industry-leading SpikeSafe™ series current source modules for high power density. Systems are modular and energy-efficient with the flexibility of integrating up to 1,024 current source channels in a standard size rack.

STARS software brings together complete control, automation, monitoring and device protection in one, easy-to-use application.

Confidence.

Whether you're expanding existing test capacity, or stepping up to higher-power LED testing systems, Vektrex systems and components give you the flexibility to support a wide range of LED testing conditions. Leading LED and SSL manufacturers and test labs worldwide rely on Vektrex systems and components for unmatched power, capacity and reliable performance.

Learn more about Vektrex Reliability Systems at vektrex.com.

SCALABLE FLEXIBILITY FOR ANY SIZE LAB.

Vektrex reliability systems are built on a compact rack footprint with proven components and a versatile modular architecture.

Scalable modular design enables easy system expansion for increased capacity or specialized test performance.

With a full range of SpikeSafe™ current source options, system components, chambers, fixturing, load board designs, cabling and software, Vektrex can provide the ideal testing solution for any size lab – large or small.

Let us help you get started.



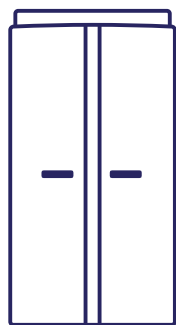
Test Software



Reliability Drive Electronics



Load Boards and Fixturing Options



Vektrex LED test components can work with existing test chambers and systems and can easily expand capability by adding additional current sources (up to 256 channels) and load boards for increased capacity and testing flexibility.

Run multiple LEDs
per source channel

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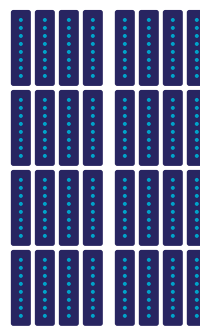
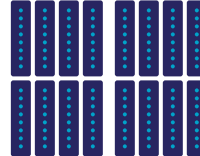
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From 8 to 1024
source channels

Multiple channels
per SpikeSafe™ module



Voltages and currents
to 400V and 50A

Multiple SpikeSafe™
modules per rack

Small (8)



Medium (24)



Large (32)



From 1 to 32
SpikeSafe™ modules

VEKTREX RELIABILITY SYSTEM COMPONENTS

Reliability System

Available modules with maximum voltage up to 400V per source channel and maximum current up to 50A per source channel – mix and match

Precise accurate current regulation within 0.2% or better

Energy-saving design and centralized power for simplified build out and fast ROI

DC and continuous/pulse testing options

High-speed Ethernet design for reduced connection count and improved performance



VEKTREX RELIABILITY SYSTEM COMPONENTS



Vektrex SpikeSafe™

High-capacity SpikeSafe™
drive electronics

Individual source channel control

24/7 drive reliability

Modular and scalable architecture

Energy efficient, compact footprint

Software

STARS individual source channel
control for up to 1,024 LED
reliability tests

Duration Timers

Failsafe temperature shutdown

Individual source channel
data logging

STARPLOT graphic
data visualization

Synchronized multiple-source
and configured-channel power
cycling (PTMCL)

Thermal stagger reduces
overall heating and power
requirements (PTMCL)

Unattended restart

Applications

Device Burn-in

HTOL testing

Aging LEDs

PTMCL testing

WHTOL testing

Laser, component, and
specialized testing

GLOBAL SUPPORT.

Our global representatives and support centers are ready to provide industry-leading expertise and local service.



Vektrex designs and manufactures high-performance LED test solutions for leading manufacturers and LM-80 labs worldwide. Industry-leading SpikeSafe™ current sources provide high-power DC and performance-pulsed capability optimized for next-generation

LED and SSL products. Solutions include reliability, LM-80 and LM-85 systems, light measurement systems, thermal control chambers, software and components.

For additional LM-80 System information visit vektrex.com

858.558.8282 | info@vektrex.com | vektrex.com

High-performance LED test solutions.

