



# SC6540

## High Voltage and High Current Modular Scanning Matrix

The SC6540 modular scanner is designed to automate multi-point and multi-product testing when using OMNIA, HypotULTRA III, LINECHECK II or HypotMAX testers 7700 and 7704. There are 10 different configurations available that are built off of two basic scanning configurations determined by the power module. A master scanner (M) is configured with its own power module and controlled directly through automation software. It is available with either an RS-232/USB, GPIB, or Ethernet Interface. A slave scanner (S) is configured without a power module and is controlled either by a master scanner or the electrical safety tester. The SC6540 can be configured with 8 HV (high voltage), 16 HV, 8 HV and 8 GB (Ground Bond), 8 GB or 16 GB testing channels. The patented modular design provides a flexible testing solution that is configurable to a manufacturer's needs. Designed to interconnect with any of our automated electrical safety testers the SC6540 allows for automated multi-point or multi-product safety testing. This is an ideal solution for applications such as transformers, motors, cables or any DUT that requires tests between various points.

**Model SC6540 HNM - 8 Channel High Voltage Scanner**

**Model SC6540 HHM - 16 Channel High Voltage Scanner**

**Model SC6540 HGM - 8 Channel High Voltage Scanner  
8 Channel High Current Scanner**

**Model SC6540 GNM - 8 Channel High Current Scanner**

**Model SC6540 GGM - 16 Channel High Current Scanner**

### Features and Benefits

- Configurable scanning matrix
- Multi-point or multi-product testing capabilities
- Automation interfaces for Autoware® control
- Point-to-point continuity tests
- Compatible with Hipot, Ground Bond, Line Leakage and Insulation Resistance Tests
- Up to 16 high voltage switching channels on a single scanner
- High current outputs rated up to 40 Amps
- Up to 80 testing points from a single power source
- Compact 2U rack mount design

U.S. Patent: 7,026,822.



Safety agency listed.

# SC6540

## Modular Scanning Matrix Specifications

Input (Master only)	115 VAC (+/- 10%), 50/60 Hz, single phase 230 VAC (+/- 10%), 50/60 Hz, single phase User selectable
Fuse (Master only)	250 V/2 A/fast-blow
PC Control (Master only)	Choice of Ethernet, GPIB or RS-232/USB
Scanner Control	Master: one scanner bus output controls up to 4 additional slaves Slave: one output and one input
Maximum HV Rating	5 kV AC and DC
Maximum HC Rating	40 Amps
No. of Possible Channels	8 or 16
HV Output Terminations	100 ft. reel HV cable rated for up to 30 kV with 8 HV connectors
GND Output Terminations	20 terminals provided, to accept 10/12 AWG hook-up wire (user supplied wire)
Temperature	32° - 104° F (0° - 40° C)
Humidity	0 - 80%
Altitude	6560 ft. (2000 m)
Dimensions	2U with tilt-up front feet (WxHxD) 17 x 4.07 x 12.96 in. (432 x 103 x 329 mm)
Weight	Master: 20.05 lbs. max. (9.09 kgs) (with 2 high voltage modules) Slave: 15.45 lbs. max. (7.01 kgs) (with 2 high voltage modules)

## Configurations

The modular design allows for a variety of configurations. In addition to master or slave configurations, the scanners can also be set-up with the following configurations, 8 or 16 high voltage testing channels, 8 high voltage and ground bond testing channels, and 8 or 16 ground bond testing channels.

<b>The different configurations (shown right) are indicated by the following alpha designators</b>	<b>M</b>	<b>= Master Scanner</b>
	<b>H</b>	<b>= 8 High Voltage Channels</b>
	<b>HH</b>	<b>= 16 High Voltage Channels</b>
	<b>G</b>	<b>= 8 Ground Bond Channels</b>
	<b>GG</b>	<b>= 16 Ground Bond Channels</b>
	<b>N</b>	<b>= Empty Module</b>
	<b>S</b>	<b>= Slave</b>



**Model SC6540 HNM\***  
**8 Channel High Voltage Scanner**



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**Model SC6540 HGM\***  
**8 Channel High Voltage Scanner**  
**8 Channel High Current Scanner**



**Model SC6540 GNM\***  
**8 Channel High Current Scanner**



**Model SC6540 GGM\***  
**16 Channel High Current Scanner**

\*Also available in slave configuration.  
Specifications subject to change without notice.

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