

# MICROSCANNER SUPER E

Finds Hot Spots with "Machine Gun" Speed, ... Accurate, Fast, Safe



*Continuously Scans for Hot Spots.*

You not only can see every hit on the fast color-coded display, but hear it as well with the audible heat seeker!

Why "shoot" at hot spots one shot at a time with an IR gun, when you can scan them with rapid automatic "fire"?

The palm-size Microscanner "E" and "Super-E" models are the infrared scanners which scan electrical equipment faster, safer and with more accuracy than "point and shoot" guns, because they are designed from the "ground up" for rapid electrical scanning - like using a machine gun instead of a pistol. Because of outstanding speed and color-coded display, the "E" models can scan twenty panels in the same time it takes to scan one panel with a conventional IR gun. Because of the higher optical resolution, scanning can be from farther away, thus improving safety for the professional.



**EXERGEN**  
CORPORATION

# INFRARED SCANNERS

for  
*Electrical  
Professionals.*



IR.1PROBE

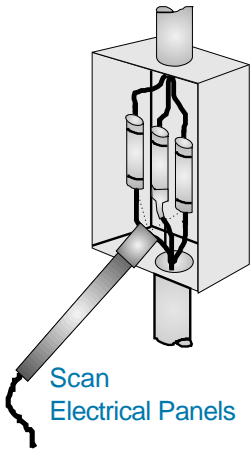


Microscanner E

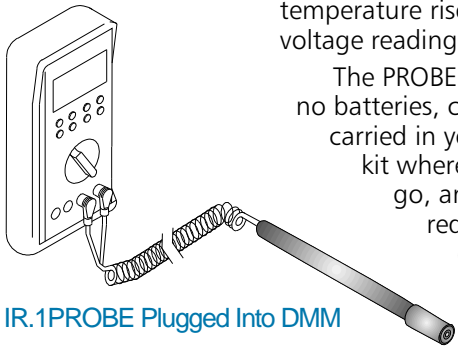


Microscanner SUPER E with Laser

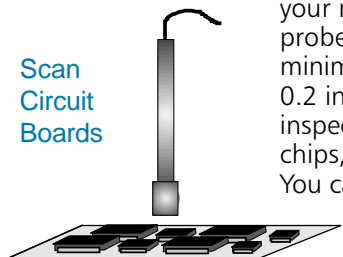
# Plug-in Infrared Probe for Digital Multimeters



Scan  
Electrical Panels



IR.1PROBE Plugged Into DMM



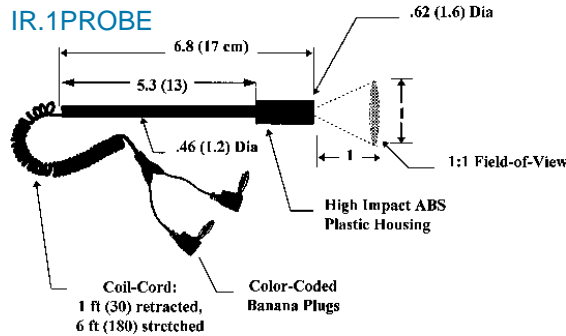
Scan  
Circuit  
Boards

The IR.1PROBE provides the power of infrared scanning for your electrical and electronic systems with a probe not much larger than the standard voltage probes that you use with your DMM. Accordingly, you can find shorts, loose connections, bad components, etc. by simply scanning with your probe and determining the temperature rise by the voltage reading.

The PROBE requires no batteries, can be carried in your toolkit wherever you go, and requires only a little more space than

your regular voltage probes. With a minimum spot size of 0.2 in (5 mm), you can inspect the smallest chips, splices, and clips. You can even plug the PROBE into your oscilloscope!

# Small Size Fits Any Toolbox. Low Cost Fits Any Budget.



IR.1PROBE

<b>Field-of-view</b>	1:1
<b>Output signal</b>	0.1 mV/°C (Temperature rise above probe temperature)*
<b>Accuracy**</b>	1°C (lifetime calibration)
<b>Target Distance</b>	up to 3 in (8 cm)
<b>Minimum Spot</b>	0.2 in (0.5 cm)
<b>Range</b>	-50 to 1200°F (-46 to 650°C)
<b>Operating</b>	-50 to 175°F (-46 to 80°C)
<b>Response time</b>	0.1 second (not including DMM)
<b>Power requirement</b>	None
<b>Construction</b>	Impact resistant, hermetically sealed, intrinsically safe
<b>One-handed operation</b>	Clips to standard probe holder
<b>Price</b>	

\* for insulator targets up to approximately 100 °C rise. For higher temperatures, refer to manual.

\*\* @ 25°C ambient, 35°C 0.9 emissivity target, meter error not included.

## SPECIFICATIONS

Selection of the correct IR Scanner depends primarily on the distance to the targets to be scanned. The following recommendations can be used to select the optimum model:

Scanning Distance Recommended	Model
up to 3 in (7.5 cm)	IR.1PROBE
up to 12 ft (4 m)	Microscanner E
up to 50 ft (15 m)	Microscanner Super E

For heavy duty scanning, the Micro E and Super E are the models of choice for electrical professionals because the inspection can be performed **more accurately, in less time, and more safely** than with infrared "guns". The table below compares the E models to a typical gun model, which shows why the E models are the IR scanners of choice for serious electrical professionals.

	Microscanner		IR Gun*
	Super E	E	
<b>Field-of-View (max)</b>	200:1	50 :1	30:1
<b>Maximum Distance for 1 in (2.5 cm) spot</b>	17 ft (5 m)	4 ft (1.3 m)	2.5 ft (0.8 m)
<b>Scan Readings/sec</b>	20	10	1** to 4
<b>Time to Scan 1 x 4 ft (.3 x 1.3 m) Panel @ Distance</b>	<30secs @17 ft (5 m)	<60secs @4 ft (1.3 m)	2.5 to 10 mins @2.5 ft (0.8 m)
<b>Resolution</b>	0.1°C	1°C	1°C
<b>Automatic Ambient</b>	yes	yes	no
<b>Scanning Display/ Thermal Patterns</b>	yes	yes	no
<b>Color-coded Scale</b>	yes	yes	no
<b>Locking Display</b>	yes	no	yes
<b>Peak Hold Display</b>	yes	no	no
<b>Audible Heat Seeker</b>	yes	no	no
<b>Waterproof Case</b>	yes	no	no
<b>Weight</b>	7 oz (200 g)	6 oz (170 g)	20 oz (600 g)
<b>Warranty</b>	3 years	1 year	1 year
<b>Price</b>			
<b>Optional Laser Sight</b>			

\* Typical conventional infrared gun

\*\* Est. time to read display