



# IDEAL TEST & MEASUREMENT

## AUSTRALIAN CATALOGUE



[www.idealind.com](http://www.idealind.com)



For over 90 years, IDEAL INDUSTRIES, INC. has been enhancing the productivity and safety of electricians who test, measure, or troubleshoot electrical systems. In 2022 we released a new line of testers with the professional electrician in mind. See our new additions in this catalogue.

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Scan this QR code with your smartphone to learn more about the new line.

# SURETRACE™

## CIRCUIT TRACER

Your IDEAL troubleshooting solution.  
Designed **to find** everything, while saving you time and money.

Scan this QR code with your smartphone to see a video and learn more about the testers.



### KIT OPTIONS AND PARTS

KIT OPTIONS	 <b>61-959</b> Receiver with Super-Bright OLED Rotating Display (90° increments) and inductive clamp and battery pack	 <b>61-957</b> Receiver with Super-Bright OLED Rotating Display (90° increments)	 <b>61-955</b> Receiver with Rotating Red LED Display (180° increments)
INDIVIDUAL COMPONENTS	61-959	61-957	61-955
<b>RC-959</b> Receiver with Super-Bright OLED Display 	✓	✓	—
<b>RC-955</b> Receiver with Red LED Display 	—	—	✓
<b>TR-955</b> Transmitter Rated for Use on Circuits from 0 to 600V AC/DC 	✓	✓	✓
<b>IC-958   BP-958</b> Inductive Clamp and Battery Pack For use on 0 to 120V circuits carrying less than 5 Amps. 	✓	—	—
<b>TL-956</b> Test Lead Set 	✓	✓	✓
<b>CR-959</b> Cradle for RC-959 and RC-955 Receivers 	Sold Separately	Sold Separately	Sold Separately

# CIRCUIT TRACER RECEIVERS FEATURES

**RC-959**

**RC-955**

**Super Bright OLED Display**

**Red LED Display**

**Exclusive Rotating Display**  
90° Increments (RC-959)  
180° Increments (RC-955)

**Four Levels of Sensitivity**

**Audible Indication**

**Low Battery Indicator**



**Low Battery Indicator**



**Finds Opens**



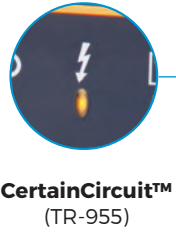
**Finds Conductors in Walls, Ceilings and Floors**



**Finds Dead Shorts**

**0-600V AC or DC Lead Set included.**

# CIRCUIT TRACER TRANSMITTER FEATURES



**CertainCircuit™**  
After the correct breaker has been identified and tripped, the transmitter senses the loss of power and sends a different signal back to the receiver at the panel to give the user confidence that the right circuit has been de-energized.



Traces de-energized circuits



Inductive Clamp for when direct contact with alligator clips is not possible



**TR-955**



**Inductive Clamp & Battery Pack**  
(For use on circuits carrying up to 120V AC w/less than 5 Amps)  
**IC-958 | BP-958**



**Cradle**  
(For use on RC-955 & RC-959 Receivers)  
**CR-959**



**Tracer Test Lead Set TL-956 (includes the following)**

- 1. 3 Ft. Lead Adapter for Transmitter (set of 2)
- 2. 25 ft. Lead Adapter for Transmitter
- 3. Alligator Clips (set of 2)
- 4. Blade Prongs
- 5. Prong for Lead Adapters
- 6. Outlet Plug Adapter for Transmitter

# CLAMP/FORK METER VS. MULTIMETER



**Safety** - A fork meter allows you to measure AC or DC current (depending on the model) by positioning the fork around a conductor, which is much safer than making direct contact with a live circuit.

**Productivity** - During a measurement, it is not necessary to shut off the circuit carrying current, which improves productivity.

*Limited to 200A AC/DC Measurement*

*No Fuse Protection required*

**Safety** - A clamp meter allows you to measure AC or DC current (depending on the model) by positioning the clamp jaw around a conductor, which is much safer than making direct contact with a live circuit.

**Productivity** - During a measurement, it is not necessary to shut off the circuit carrying current, which improves productivity. This allows isolation of a conductor being tested in a bundle of conductors.

*Limited to 2000A AC/DC Measurement (Hard Clamp)*

*No Fuse Protection required*

Multimeters measure current differently than a fork or clamp meter. To measure current with a multimeter:

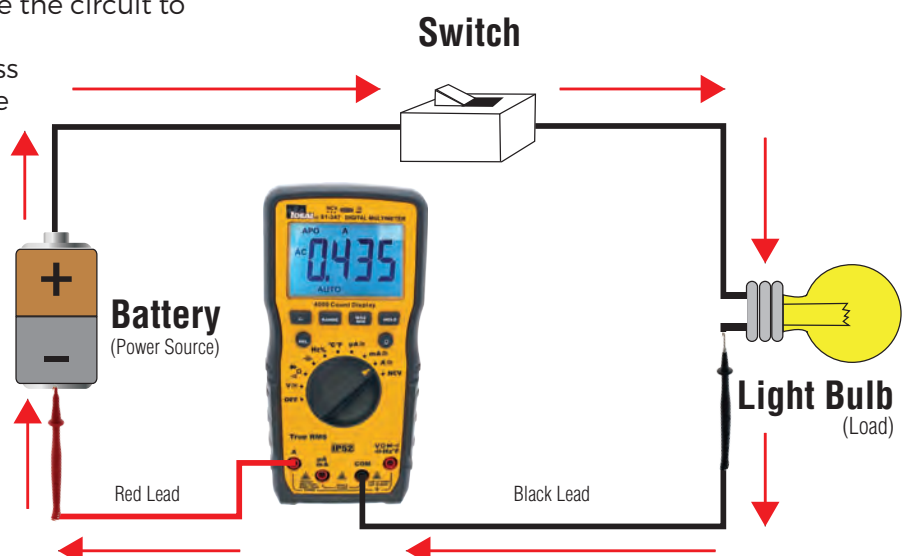
- You must insert the multimeter into the circuit to get the current to flow THROUGH the meter and are making direct contact with the live circuit.

To properly conduct a current measurement in accordance with Electrical Safety-related Work Practices (ESWP) you must:

- de-energize the circuit, disconnect the circuit, insert the meter into the circuit, re-energize the circuit to test current
- AND THEN... repeat the whole process again to "remove" the meter from the circuit after the test.

*Limited to 10A AC/DC Measurement*

*Fuse Protection required (due to current pass-through)*



# TIGHTSIGHT® CLAMP METERS

Scan this QR code with your smart-phone to see a video and learn more about the testers.



## FEATURES



**Non-Contact Voltage Tester**  
Screen displays  
Electromagnetic Field (EF)



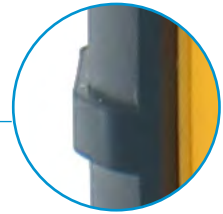
**Flashlight**



**Built-In Probe Tip Holder**



**Universal Magnetic Strap Clip**



**Overmolded Industrial Grip**  
2M Drop (model specific)



61-757 | 61-747



**Backlit Displays**



**Patented TightSight® Backlit Display** eliminates need to bend or twist conductors or place your head near or in the panel and allows you to easily read the bottom display when taking all measurements.



# FORK METERS

## FEATURES



**Non-Contact Voltage Indication**  
Built in Clamp Tip



**0.75 in. (19mm) Jaw Opening**



**Flashlight/Backlight**



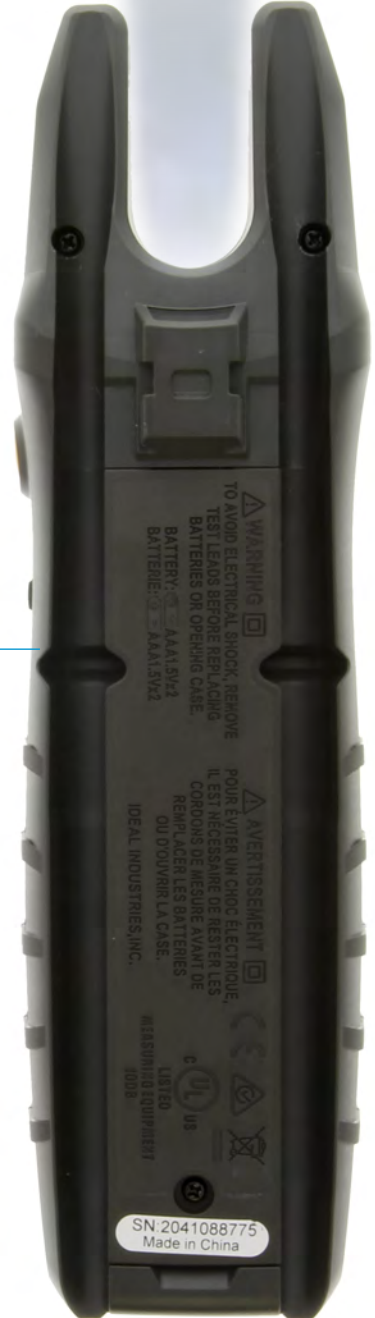
**Probe Storage & Lead Holders**  
(on back)



**Delta**  
(difference from original reading)



**Max./Min.**



### 61-415



**Patented TightSight® Backlit Display** eliminates need to bend or twist conductors or place your head near or in the panel and allows you to easily read the bottom display when taking measurements





# TIGHTSIGHT® CLAMP METERS



**61-775**  
1000A AC/DC  
Clamp Meter  
TightSight® w/Backlight  
CAT IV 600V | CAT III 1000V



**61-765**  
660A AC/DC  
Clamp Meter  
TightSight® w/Backlight  
CAT IV 600V | CAT III 1000V



**61-757**  
600A AC/DC  
Clamp Meter  
TightSight® w/Backlight  
& Flashlight  
CAT IV 600V | CAT III 1000V



**61-747**  
400A AC/DC  
Clamp Meter  
TightSight® w/Backlight  
& Flashlight  
CAT III 600V



**61-415**  
200A AC/DC  
Split Jaw Meter  
TightSight® w/Backlight  
& Flashlight  
CAT IV 600V | CAT III 1000V

## CLAMP METER ACCESSORIES



**TL-757**  
Test Leads  
w/Alligator Clips








**UMHS-757**  
Universal Magnetic  
Hanging Strap



**C-757**  
Nylon Carrying Case

IMPORTANT: The clamp meters on this page are intended for use by qualified electricians. Follow the NFPA 70E Standard for Electrical Safety in the workplace when using this tester. Always consult the instruction manual provided with the tester for operational limitations and procedures associated with a specific tester.

# CLAMP METER SPECIFICATIONS

CLAMP METER SELECTION GUIDE			 NEW	 NEW	 NEW
	61-775	61-765	61-757	61-747	61-415
<b>FEATURES</b>					
CAT Rating (Safety)	CAT IV 600V CAT III 1000V	CAT IV 600V CAT III 1000V	CAT IV 600V CAT III 1000V	CAT III 600V	CAT IV 600V CAT III 1000V
Listing	cULus, CE, RCM	cULus, CE, RCM	cULus, CE, RCM	cULus, CE, RCM	cULus, CE, RCM
Drop Protection			6.6 ft. (2m)	6.6 ft. (2 m)	6.6 ft. (2m)
Clamp/Jaw Opening	2.0 in. (50.8mm)	1.5 in. (38mm)	1.4 in. (35.5mm)	1.4 in. (35.5mm)	0.75 in. (19mm)
AC Voltage (Volts)	750V	750V	600V	600V	1000V
DC Voltage (Volts)	750V	750V	1000V	600V	1000V
AC Current (Amps)	1000A	660A	600A	400A	200A
DC Current (Amps)	1000A	660A	600A	400A	200A
Ohms (Resistance)	999.9Ω	999.9Ω	60MΩ	40MΩ	60MΩ
AC Millivolts	—	—	6000	4000	6000
DC Millivolts	—	—	6000	4000	6000
True RMS	✓	✓	✓	✓	✓
High Voltage Alarm	✓	✓	ACV/DCV   >30V	ACV/DCV   >30V	ACV/DCV   >30V
Audible Continuity	✓	✓	✓	✓	✓
Visual Continuity	✓	✓	✓	✓	✓
Backlight	✓	✓	✓	✓	✓
Temperature	—	—	-40°F ~ 1832°F -40°C ~ 1000°C	-40°F ~ 1832°F -40°C ~ 1000°C	—
Low Impedance (LoZ)	—	—	✓	—	—
NCV	—	—	40-600V	40-600V	40-600V
Auto Ranging	✓	✓	✓	✓	✓
Range Hold	—	—	✓	✓	✓
Data Hold	✓	✓	✓	✓	✓
Relative	✓	✓	✓	✓	✓
Diode Test	—	—	✓	✓	✓
Capacitance Test	✓	✓	6.000mF	4.000mF	6.000mF
Frequency / Duty Cycle	✓	✓	10Hz-9.999KHz	10Hz-9.999KHz	—
Max / Min	✓	✓	✓	✓	✓
Magnetic Strap Mount	—	—	✓	✓	✓
Test Probe Holder	—	—	✓	✓	✓
Flashlight	—	—	✓	✓	✓
Auto-Power Off (APO)	✓	✓	✓	✓	✓
APO Disable	✓	✓	✓	✓	✓
Low Battery Indication	✓	✓	✓	✓	✓
Battery Type (Included)	1 x 9 Volt	1 x 9 Volt	3 x 1.5V AAA	3 x 1.5V AAA	2 x 1.5V AAA
Bottom LCD Display	✓	✓	✓	✓	✓
LCD Display Count	9999	9999	6000	4000	6000
Warranty	2-Year*	2-Year*	2-Year*	2-Year*	2-Year*
<b>ACCESSORIES</b>					
Leads & Alligator Clip (TL-757)	Included	Included	Included	Included	Included

Specifications are subject to change without notice.

# DIGITAL MULTIMETERS

## FEATURES



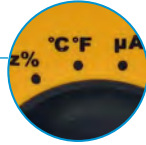
**Non-Contact Voltage Tester**  
Built in



**Non-Contact Voltage, High Voltage, Visual Indications, Augment Audible Indication**  
(61-357, 61-347, 61-337)



**Backlit Display**  
(all models)



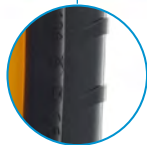
**Temperature**  
(61-357, 61-347, 61-337)



**Probe Holder Storage**  
All Models



**Universal Magnetic Strap Clip**  
All Models



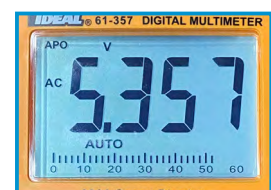
**Removable Boot**  
All Models



**FUSE Notification**  
(61-357, 61-347, 61-337)



**LEAD Warning**  
(61-357, 61-347, 61-337)



**Bar Graph**  
(61-357 only)

# DIGITAL MULTIMETERS



## 61-357

1000V Auto Range TRMS  
6000 Count Display Multimeter w/NCVT, Temp.  
Bar Graph & LoZ  
CATIV 600V | CATIII 1000V



## 61-347

1000V Auto Range TRMS  
6000 Count Display  
Multimeter w/NCVT, & Temp  
CAT IV 600V | CAT III 1000V



## 61-337

600V Auto Range  
Multimeter w/NCVT & Temp  
CATIII 600V



# ACCESSORIES



**TL-757**  
Test Leads



**UMHS-757**  
Universal Magnetic  
Hanging Strap




**C-357**  
Nylon Carrying Case

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about the testers.



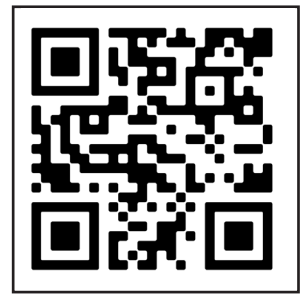
# DIGITAL MULTIMETERS FEATURES

DIGITAL MULTIMETER SELECTION GUIDE	 NEW	 NEW	 NEW
	61-357	61-347	61-337
<b>FEATURES</b>			
CAT Rating (Safety)	CAT IV 600V CAT III 1000V	CAT IV 600V CAT III 1000V	CAT III 600V
Listing	cULus, CE, RCM	cULus, CE, RCM	cULus, CE, RCM
Drop Protection	6.6 ft. (2m)	6.6 ft. (2m)	3.3 ft. (1m)
Ingress Protection	IP52	IP52	—
AC Voltage (Volts)	1000V	1000V	600V
DC Voltage (Volts)	1000V	1000V	600V
AC Current (Amps)	10A	10A	10A
DC Current (Amps)	10A	10A	10A
Ohms (Resistance)	60M $\Omega$	60M $\Omega$	40M $\Omega$
AC Millivolts	6000	6000	4000
DC Millivolts	6000	6000	4000
AC Milliamps	6000	6000	4000
DC Milliamps	6000	6000	4000
AC Microamps	6000	6000	4000
DC Microamps	6000	6000	4000
True RMS	✓	✓	—
High Voltage Alarm	ACV/DCV   >30V	ACV/DCV   >30V	ACV/DCV   >30V
Audible Continuity	✓	✓	✓
Visual Continuity	✓	✓	✓
Backlight	✓	✓	✓
Temperature	-40 ~ 1832°F -40 ~ 1000°C	-40 ~ 1832°F -40 ~ 1000°C	-40 ~ 1832°F -40 ~ 1000°C
Low Impedance (LoZ)	✓	—	—
NCV	✓	✓	✓
Auto Ranging	✓	✓	✓
Range Hold	✓	✓	✓
Data Hold	✓	✓	✓
Diode Test	✓	✓	✓
Capacitance Test	6000 $\mu$ F	6000 $\mu$ F	4000 $\mu$ F
Frequency / Duty Cycle	10Hz - 9.99 KHz	10Hz - 9.99 KHz	10Hz - 9.99 KHz
Max / Min	✓	✓	✓
Magnetic Strap Mount	✓	✓	✓
Test Probe Holder	✓	✓	✓
Auto-Power Off	✓	✓	✓
APO Disable	✓	✓	✓
Low Battery Indication	✓	✓	✓
Battery Type (Included)	3 x 1.5V AAA	3 x 1.5V AAA	3 x 1.5V AAA
LCD Display Count	6000	6000	4000
Lead Warning	✓	✓	✓
Fuse Notification	✓	✓	✓
Bar Graph	✓	—	—
Battery Test	—	—	—
Warranty	2-Year*	2-Year*	2-Year*
<b>Accessories</b>			
Leads, Case & Temp. Sensor	Included	Included	Included
Thermocouple (TC-757)	Included	Included	Included

Specifications are subject to change without notice.

# VOLTAGE TESTERS

Scan this QR code with your smartphone to see a video and learn more about the testers.





**61-076**  
Vol-Con® Voltage/Continuity Tester  
5-600V AC/DC  
CAT III 600V



**61-065**  
Vol-Test® Voltage Tester  
100-600V AC/DC  
CAT III 600V



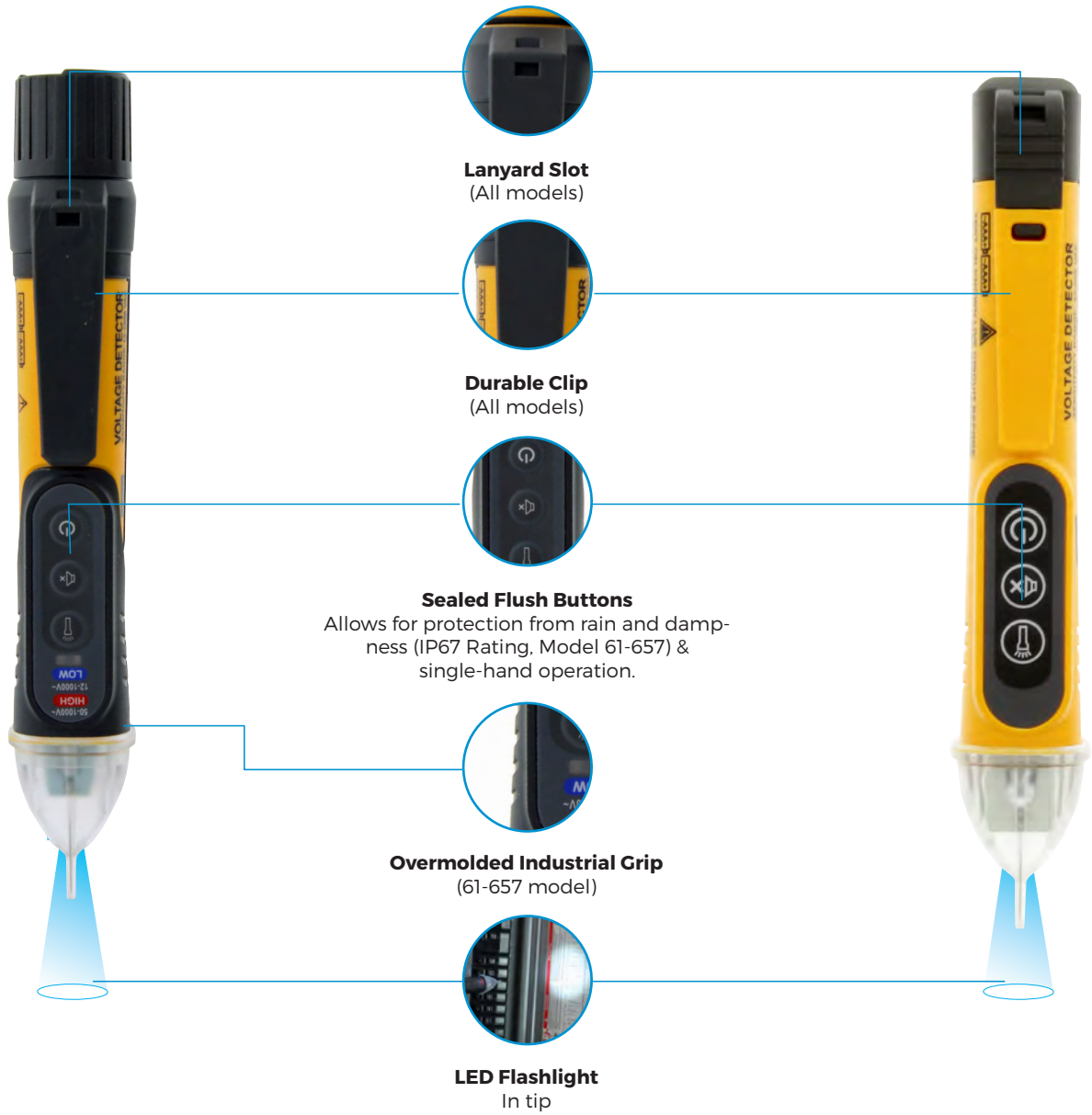
**61-070**  
Test Leads

VOLTAGE TESTER SELECTION GUIDE		
		
	61-076	61-065
<b>FEATURES</b>		
CAT Rating (Safety)	CAT III 600V	CAT III 600V
Listing Preferred	cULus	cULus
AC Voltage (Volts)	5 ~ 600	100 ~ 600
DC Voltage (Volts)	5 ~ 600	100 ~ 600
Visual Continuity	✓	—
Low Impedance (LoZ)	✓	✓
Test Probe Holder	✓	✓
Battery Type (Included)	4 x 1.5V LR44	—
DC Polarity Indication	✓	—
Leads	Removable	Removable
Display	Indicator Movement	Indicator Movement
Warranty	2-Year*	2-Year*
<b>ACCESSORIES</b>		
Test Leads	61-070	61-070

Specifications are subject to change without notice.

# NON-CONTACT VOLTAGE TESTERS

## FEATURES



### Dual Range on 61-657 only.



**Standard Voltage Range**  
Indicated by a Red LED



**Power On**  
Indicated by a Green LED



**Low Voltage Range**  
Indicated by a Blue LED



**Presence of Voltage**  
Indicated by a Flashing Red LED & Audible Tone

# NON-CONTACT VOLTAGE TESTERS FEATURES



**61-657**  
Dual Range  
12 to 1000V AC  
NCVT w/Flashlight  
CAT IV 1000V



**61-637**  
Single Range  
24 to 600V AC  
NCVT w/Flashlight  
CAT IV 600V



## NON-CONTACT VOLTAGE TESTER SELECTION GUIDE



NEW



NEW

	61-657	61-637
<b>FEATURES</b>		
CAT Rating (Safety)	CAT IV 1000V	CAT IV 600V
Listing	cULus, CE, RCM	cULus, CE, RCM
Voltage Sensing Range	12 ~ 1000V AC	24 ~ 600V AC
Dual Range	✓	—
Flashlight	✓	✓
Drop Protection	6.6 ft. (2m)	3.3 ft. (1m)
Ingress Protection	IP67	—
Dual Range Sensitivity	✓	—
Audible Indication	✓	✓
Audible Defeat	✓	✓
Visual Indication	Green On, Flashing Red	Green On, Flashing Red
Visual Range Indicator	Blue Low, Red High	—
Lanyard Compatible	✓	✓
Auto-Power Off (APO)	✓	✓
Low Battery Indication	✓	✓
Battery Type (Included)	2 x 1.5V AAA	2 x 1.5V AAA
Warranty	2-Year*	2-Year*

Specifications are subject to change without notice.



Scan this QR code with your smartphone to learn more about the testers.



# INFRARED THERMOMETERS

Scan this QR code with your smart-phone to learn more about the thermometers.



## FEATURES



Dual Laser Targeting

**61-847**

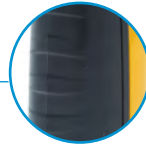
Dual Laser Targeting  
12:1 Infrared Thermometer



Single Laser Targeting

**61-827**

Single Laser Targeting  
10:1 Infrared Thermometer



Overmolded Industrial Grip



Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3 as described in Laser Notice No. 56 dated May 8, 2019.

Specifications are subject to change without notice.

### INFRARED THERMOMETER SELECTION GUIDE



	61-847	61-827
<b>FEATURES</b>		
Certification	CLASS 2, IEC 60825-1:2014	CLASS 2, IEC 60825-1:2014
Wavelength	630nm-670nm	630nm-670nm
Output	<1mW	<1mW
Listing	cULs, CE	cULs, CE
Drop Protection	6.6 ft. (2m)	3.3 ft. (1m)
Optical Resolution (distance-to-spot)	12 : 1	10 : 1
Measurement Range	-26° to 932°F (-32° to 500°C)	-4° to 752°F (-20° to 400°C)
Laser Targeting	Dual	Single
Auto Scan	✓	—
Max/Min/Avg/Diff	✓	—
High/Low Alarm	✓	—
Data Hold	✓	✓
Lock-on (for continuous measurements)	✓	—
Emissivity	0.10 - 1.00 Adjustable	0.95 Fixed
Backlit Display	✓	✓
Display	LCD	LCD
Auto Power-Off	✓	✓
Selectable Celsius / Fahrenheit	✓	✓
Battery Type (Included)	2 x 1.5V AAA	2 x 1.5V AAA
Low Battery Indicator	✓	✓
Response Time	250 ms	500 ms
Spectral Response	8 to 14µm	8 to 14µm
Warranty	2-Year*	2-Year*

# SPECIALTY TESTERS



**61-686**  
Digital Light  
Meter

## LIGHT METER SELECTION GUIDE



### 61-686

FEATURES	
Four Measurement Ranges	Up to 20,000 Foot Candles or 200,000 Lux
Data and Max Hold Modes	✓
Auto Zero Adjust	✓
Low Battery Indication	✓
Auto Power Off	✓
Remote Sensor w/59" attached Coiled Cable	✓
Warranty	2-Year*

Specifications are subject to change without notice.

# ACCESSORIES

NEW



**TL-757**  
Universal Test Leads  
& Alligator Clips

NEW



**UMHS-757**  
Universal Magnetic  
Hanging Strap  
(For use with 61-405, 61-415, 61-737,  
61-747, 61-757, 61-327, 61-337, 61-347,  
61-357, 61-547 & 61-557)



**61-070**  
Standard Test Leads  
(for use with 61-076 & 61-065)



**TL-956**  
Test Lead Set

# TEST LEAD SELECTION GUIDE

for this **TESTER**

▶ use these **TEST LEADS**

**61-065**  
Vol-Test® Voltage Tester  
**61-076**  
Vol-Con® Voltage/  
Continuity Tester



▶ **61-070**  
Standard  
Vol-Con®  
Test Leads

**61-747 | 61-757**  
Digital Clamp Meters



▶ **TL-757**  
Test Lead  
Set



**UMHS-757**  
Magnetic Strap



**61-415**  
Digital Split Jaw  
Meters



▶ **TL-757**  
Test Lead  
Set



**UMHS-757**  
Magnetic Strap



**61-337 | 61-347 | 61-357**  
Digital  
Multimeters



▶ **TL-757**  
Test Lead  
Set



**UMHS-757**  
Magnetic Strap



**61-765**  
660A Clamp Meter  
**61-775**  
1000A Clamp Meter



▶ **TL-757**  
Test Lead  
Set



**TR-955**  
Transmitter for  
SureTrace™ Circuit  
Tracers



▶ **TL-956 Test  
Lead Set**



# CARRYING CASES



**C-90**  
Nylon Carrying Case



**C-770**  
Nylon Carrying Case



**C-357**  
Nylon Carrying Case

NEW



**C-757**  
Nylon Carrying Case

NEW

Selection Guide		VOLTAGE TESTERS		300			400	700		770
		61-065	61-076	61-337	61-347	61-357	61-415	61-747	61-757	61-775
<b>C-90</b>	Nylon Carrying Case Size: 8.4"x3.1"x1.1" (213mmx79mmx28mm)	•	•							
<b>C-357</b>	Nylon Carrying Case Size: 8.5"x5.74"x2.5" (210mmx125mmx55mm)			•	•	•				
<b>C-757</b>	Nylon Carrying Case Size: 10.5"x4.5"x2.5" (280mmx110mmx55mm)						•	•	•	
<b>C-770</b>	Nylon Carrying Case Size: 11.25"x4.5"x2.25" (280mmx110mmx52mm)									•

# REPLACEMENT PARTS SELECTION GUIDE

SELECTION GUIDE			060	070	300			500		740	750	760	770
			61-065	61-076	61-337	61-347	61-357	61-547	61-557	61-747	61-757	61-765	61-775
<b>FUSES</b>													
<b>F-337P</b>	400mA (600V)	6.5 x 32mm			•								
	10A (600V)	10 x 38mm			•								
<b>F-347-357P</b>	600mA (1000V)	6.5 x 32 mm				•	•						
	11A (1000V)	10 x 38mm				•	•						
<b>BATTERIES</b>													
—	1.5V (AAA)				•	•	•	•	•	•			
—	9V										•	•	
	LR44			•									
<b>TEST LEADS</b>													
<b>61-070</b>	Standard Test Leads		•	•									
<b>TL-757</b>	Universal Test Leads & Alligator Clips				•	•	•	•	•	•	•	•	•

# SAFETY IN THE FIELD

## IEC (International Electrotechnical Commission) Category Ratings



**Category I** – The signal level for telecommunications, electronic and other low-energy equipment with transient limiting protection. Peak impulse transient range is 600-4,000 volts with 30 ohm source.



**Category II** – The local level for fixed and non-fixed powered devices including appliances, lighting and portable equipment. Outlets located more than 30 feet from CAT III sources and 60 feet from CAT IV sources. Peak impulse transient range is from 600-6,000 volts with a 12 ohm source.

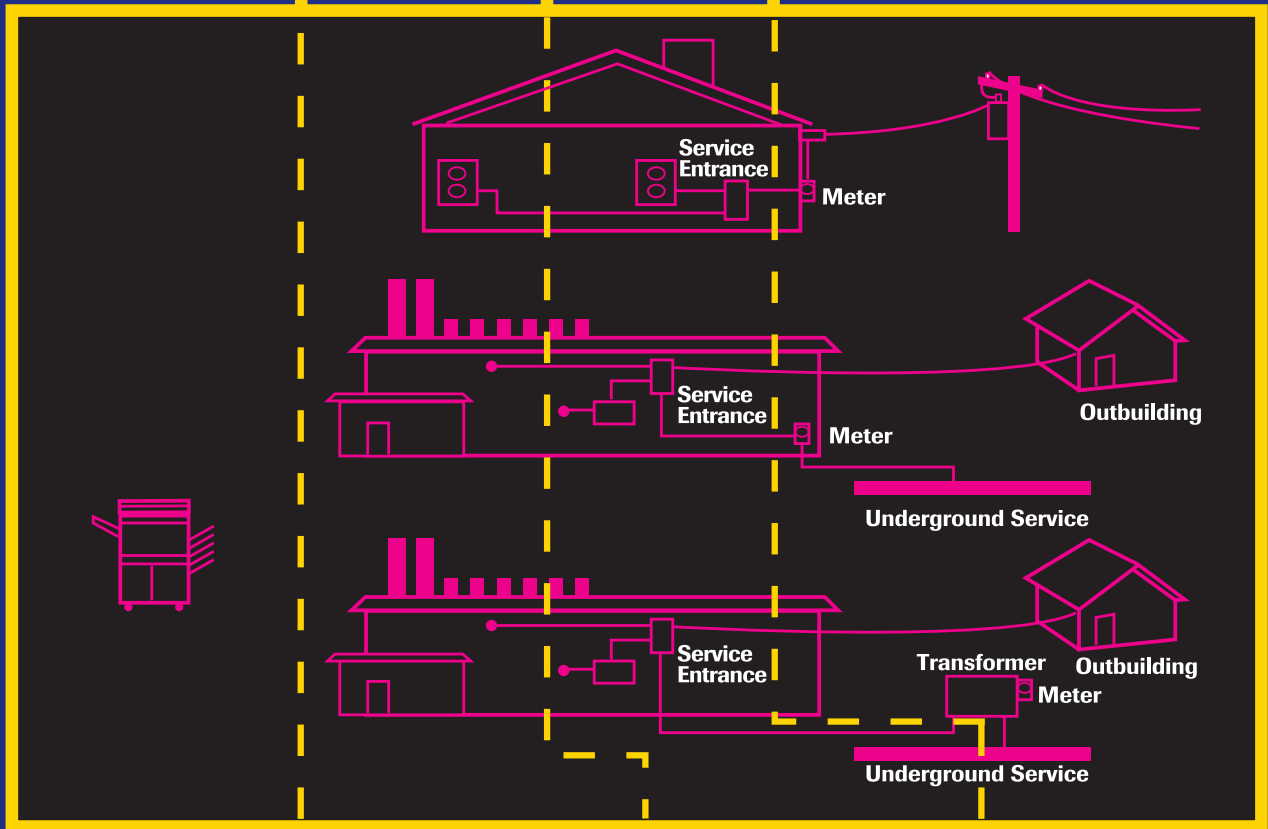


**Category III** – The distribution level for fixed primary feeders or branch circuits. Circuits that are separated from CAT IV sources by at least one level of transformer isolation. Peak impulse transient range is 600-8,000 volts with a 2 ohm source.



**Category IV** – The primary supply level for the highest levels of transient over voltage. Includes the utility service both outside and at the service entrance, service drop from the pole to the building, overhead line to remote buildings, and underground line to a well pump. Peak impulse transient range is 600-12,000 volts with less than a 1 ohm source.

Visit [idealind.com](http://idealind.com) for more technical product details, application support, white papers, videos and software.



### CAT I Copiers

- Electronic equipment
- Low energy equipment with transient limiting protection

### CAT II Appliances, PCs, TVs

- Outlets and long branch equipment
- All outlets at more than 10m (30 ft) from Category III source
- All outlets at more than 20m (60 ft) from Category IV source

### CAT III MC Panels

- Feeders and short branch circuits
- Distribution panel devices
- Heavy appliance outlets with "short" connections to service entrance

### CAT IV Exterior Transformers, Meters

- Outside and service entrance
- Service drop from pole to building
- Overhead line to detached building
- Underground line to well pump



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