



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## IMAGING TRMS MULTIMETER

# FLIR DM166™

The FLIR DM166 is the most affordable multimeter with built-in thermal imaging – a must-have tool for commercial electricians, automation, electronics, and HVAC technicians. Featuring Infrared Guided Measurement (IGM™) powered by an 80 x 60 FLIR thermal imager, the DM166 visually guides you to the precise location of temperature anomalies and potential problems faster, more safely, and efficiently. The feature-packed multimeter is an ideal tool for troubleshooting and diagnosing complex issues in both high-voltage and low-voltage applications.

[www.flir.com/professionalDMMs](http://www.flir.com/professionalDMMs)



### TROUBLESHOOT FASTER

One tool gets the job done

- Quickly scan for overheating components with IGM
- Diagnose faults with broad DMM test functions
- Troubleshoot easier with the unique combination of onboard thermal imaging and traditional DMM test functions



### WORK SAFER

Identify energized and potentially faulty equipment from a safe distance

- Safely check for live connections using non-contact temperature measurement
- Carefully measure voltage with integrated non-contact voltage detection
- Work with peace of mind knowing your meter has a CAT III-600V, CAT IV-300V safety rating



### DIAGNOSE PROBLEMS MORE EFFICIENTLY

Rich feature set covers both high-voltage and low-voltage applications

- Reliably take 600 V AC/DC voltage measurements and 10 A AC/DC current measurements
- Remove high-frequency noise that affects readings with the Variable Frequency Drive (VFD) measurement function
- Precisely measure resistance up to 60 MΩ, frequency up to 50 KHz, and capacitance up to 10,000 μF

## SPECIFICATIONS

Thermal Imaging		DM166	
IR Resolution	80 x 60 pixels (4,800 pixels)		
Thermal Imaging Detector	FLIR Lepton® microbolometer		
Temperature Sensitivity	≤ 150 mK		
Emissivity Settings	4 presets with custom adjustment		
Temperature Accuracy	3°C or 3%		
Temperature Range	14° F to 302°F (-10C to 150° C)		
Field of View	50° x 38°		
Laser Pointer	Yes		
Focus	Fixed		
Thermal Imaging Palette	Iron, Rainbow, Grayscale		
Level & Span	Auto		
Measurements			
True RMS	Yes		
	Range	Basic Accuracy	
AC / DC Volts	600.0 V	±0.7% / 0.5%	
AC / DC mVolt	600.0 mV	±1% / 0.3%	
VFD AC Volts	600.0 V	±1.0%	
AC / DC Amps	10.00 A	±1.0% / 0.7%	
AC / DC mAmps	600.0 mA	±1.0% / 0.7%	
AC / DC μAmps	6000 μA	±1.5% / 1.0%	
Resistance	6.000 MΩ	±0.9%	
	60.00 MΩ	±1.5%	
Capacitance	2.000 mF	±2.0%	
	10.00 mF	±5.0%	
Diode Test	3.000 V	±0.9%	
Frequency Counter	50.00 kHz	±0.3%	
Temperature, Type-K Thermocouple	-40°F to 752.0°F	±1.0% + 3°F	
	-40°C to 400°C	±1.0% + 1.5°C	
Additional Measurements		DM166	
Continuity Check	30 Ω and 480 Ω		
Measuring rate	5 samples per second		
General Information			
Auto Power Off	Yes		
Display Size	2.4 in TFT screen		
Battery	3 AA batteries; optional TA04 Li-Poly rechargeable battery		
Drop Test	3 m		
IP Rating	IP40		
Safety Category Rating	CAT III-600V, CAT IV-300V		
Size (L x W x H)	190 × 86.4 × 48.3 mm (7.5 × 3.4 × 1.9 in)		
Weight	428.3 g (15.1 oz)		
Warranty	10 year on product and detector		
Box Contents			
		DM166, L91 lithium batteries, silicone test leads, soft carrying case	
Ordering Information		Order #	
FLIR DM166 Thermal Imaging TRMS Multimeter with IGM		793950391662	
For a complete list of available accessories, go to: <a href="http://flir.com/store/instruments/testaccessories">flir.com/store/instruments/testaccessories</a>			

Specifications are subject to change without notice.  
For the most up-to-date specs, go to [www.flir.com](http://www.flir.com)

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NASDAQ: FLIR

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