Key Features:

- Reduces inspection and troubleshooting time for solar photovoltaic, electrical, and mechanical systems with its advanced thermal and visual camera.

- IGM™ (Infrared Guided Measurement) for safer non-contact thermal inspections.

- Advanced connectivity and analysis through the METERLiNK® app.

Main Applications:

- For the inspection of critical assets found in commercial property, data centers, production, and manufacturing facilities. Streamline inspections and troubleshooting while taking key measurements, collecting data and preparing reports.

- Used by solar farm managers and technicians to quickly detect PV cell issues and provide thorough, efficient analysis of PV systems, reducing overall toolkit costs (1500 V PV test leads optional).

- Ideal for electrical service providers to large facilities who incorporate thermal imaging and visual documentation into their services, aligning with NFPA 70B requirements.

SPECIFICATIONS

Thermal Imaging	
Color palettes	Iron, rainbow, arctic, white hot, and black hot
Display size	2.4 in TFT screen
Field of view [V x H]	44° × 57°
Focus	Fixed
Storage media	eMMC 8 GB
IR resolution	160 × 120 (19,200 pixels)
Sensitivity	150 mK
IR imaging spectral response	8 µm to 14 µm
Thermal imaging detector	FLIR Lepton® microbolometer
IR temperature measurement range	-10°C to 300°C (14°F to 572°F)
IR temperature resolution	0.1°C (0.1°F)
IR temperature accuracy	±3°C (5.4°F) or ±3% of the reading; whichever is greater
Emissivity adjustment	0.10 to 1.00 (default is 0.95); select from three presets or set manually
Laser pointer type	Class 1
Laser pointer power	≤0.39 mW
Laser wavelength	640 nm to 660 nm

Image modes	Thermal MSX (Multi Spectral Dynamic Imaging) Thermal camera only Digital camera only
Visual Imaging	
Resolution	2 MP (1600 × 1200 pixels)
Focus	Fixed
Field of view	71° × 56°
Measurement & Analysis	
AC/DC current	Range 600.0 A / Basic accuracy ±2.0%
AC/DC voltage	Range 1000 V / Basic accuracy ±1.0%
Auto range	Yes, with manual range option
Capacitance	Range 1000 µF / Basic accuracy ±1.0%
Continuity check threshold	<30 Ω beeper on, >150 Ω beeper off
Diode	Range 1.5 V / Basic accuracy ±1.5%
Flex input AC A	Range 3000 A / Basic accuracy ±1.0%
Flex input frequency counter	Range 10.00 kHz / Basic accuracy ±0.1%
Inrush AC current	Range 600.0 A / Basic accuracy ±3.0%
(continued)	

SPECIFICATIONS, CONT.

LoZ mode AC voltage	Range 60.00 V, 600.0 V, 1000 V / Basic accuracy ±1.0%
LoZ mode DC voltage	Range 60.00 V, 600.0 V, 1000 V / Basic accuracy ±1.0%
Measuring rate	3 samples per second
Resistance	Range 60K Ω / Basic accuracy ±1.0%
Temperature accuracy	±3°C (5.4°F) or ±3% of rdg; whichever is greater
Temperature range	-10°C to 300°C (14°F to 572°F)
True RMS	Yes
VFD AC current	Range 600.0 A / Basic accuracy ±2.0%
VFD AC voltage	Range 1000 V / Basic accuracy ±1.0%
PV DC V	Range 1000 V / Basic accuracy ±2.0% with TA82 Range 1500 V / Basic accuracy ±2.0% with TA85/TA86 (optional accessories)
PV DC power	Range 900 kVA / Basic accuracy ±2.0%
Communication & Data Storage	
Connectivity	Bluetooth®
Data logging & storage	10 sets of 40K scalar measurements, 30K images
Power	
Auto power off	For device: option to OFF, 2, 5, or 10 minutes For worklight only: option to OFF, 5, 15, or 30 minutes
Battery	Rechargeable 3.7 V, 5400 mAh LiPo
General	
Size (L x W x H)	272 mm × 100 mm × 51.5 mm (10.7 in × 3.94 in × 2.0 in)
Weight	560 g (19.8 oz)
Jaw opening	35 mm (1.37 in)
IP rating	IP40
Worklights	2 × white LED
In the box	FLIR CM276 Clamp Meter, CAT IV 600 V Silicone Test Leads (TA82), USB Type-A to Type-C Cable, Soft Carrying Case, FLIR Quick Start Guide, FLIR Warranty Card
Environmental & Certifications	
Drop test	2 m (6.5 ft)
Warranty	10 year

Specifications subject to change.

Ordering Information	Order #
FLIR CM276 IGM Clamp Meter with METERLiNK	793950392768
FLIR TA85 PV Test Leads	793950377857
FLIR TA86 MC4 PV Plugs	793950377864