

P/N: IM75

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| Part number | IM75 |
| Part name | Insulation Tester and Digital Multimeter with VFD Mode and METERLiNK |
| Part description | The FLIR IM75 is both an advanced multifunction digital multimeter and a premier handheld insulation tester with functions for installation, troubleshooting and maintenance for professionals. The FLIR IM75 includes several specialty insulation modes such as polarization index, dielectric absorption, and earth bond resistance. Insulation tests can be performed instantly, continuously, and over a timed duration to allow for in-depth assessment. The multi-color LED indicator in compare mode makes pass/fail determinations easy and visible. METERLiNK connectivity to the FLIR Tools Mobile app allows the remote display of readings on smart phones and tablets. Additionally, METERLiNK connectivity technology allows the user to view readings on a FLIR thermal camera that supports METERLiNK. |
| Part features | <ul style="list-style-type: none"> Advanced insulation modes: insulation resistance, polarization index, dielectric absorption, and earth bond resistance. VFD mode for superior voltage and frequency accuracy, viewable on the dual LCD. Remote viewing of real-time readings on Android and iOS mobile devices with the free app (FLIR Tools Mobile). Document and analyze thermal changes during insulation measurements with METERLiNK FLIR thermal cameras. Extremely bright work lights (dual LEDs). Durable, rugged, double-molded construction. Ready for work with accessories silicone CAT IV test leads with screw-on alligator clips, magnetic hanging strap, thermocouple adapter, and general-purpose bead probe. |
| Measurement | |
| Measurement rate | 2 samples per second, nominal |
| Display rate | 2 times per second |
| Input impedance | 3 MΩ V DC/V AC <100 pF |



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| Measurement | |
|-------------------------------------|---|
| AC voltage bandwidth | 50–500 Hz |
| DC voltage | 1000.0 V ± (0.1% + 5 digits) |
| AC voltage | 1000.0 V: 50–60 Hz ± (1.5% + 5 digits), 61–500 Hz ± (2.0% + 5 digits) |
| VFD AC voltage | 1000.0 V: 50–60 Hz ± (1.5% + 5 digits), 61–500 Hz, ± (5.0% + 5 digits) |
| Earth bond resistance | 40.00 Ω ± (1.5% + 5 digits)* 400.0 Ω ± (1.5% + 3 digits) 4000 Ω ± (1.5% + 3 digits) 40.00 kΩ ± (1.5% + 3 digits) |
| Continuity | 400.0 Ω ± (0.5% + 2 digits) |
| Diode | 2.000 V ± (1.5% + 2 digits) |
| Capacitance | 1000 μF ± (1.2% + 2 digits) 10.00 mF ± (1.2% + 20 digits) |
| Frequency (AC V) | 400.0 Hz ± 5 digits 4.000 kHz ± 5 digits 40.00 kHz ± 5 digits |
| Insulation resistance | 4.000 MΩ ± (1.5% + 5 digits) 40.00 MΩ ± (1.5% + 5 digits) 400.0 MΩ ± (3.0% + 5 digits) 4000 MΩ ± (3.0% + 5 digits) 4.1–20.0 GΩ ± (10.0% + 3 digits) |
| Insulation resistance test voltages | 50 V, 50.0 MΩ 100 V, 100.0 MΩ 250 V, 250.0 MΩ 500 V, 500.0 MΩ 1000 V, 20 GΩ |
| Polarization index (PI) | 10 min in test/1 min in test |
| Dielectric absorption ratio (DAR) | 1 min in test/30 s in test |
| Meter data | |
| Category rating | CAT IV—600 V, CAT III—1000 V |
| Internal memory | 99 storage locations |
| Warranty | Limited lifetime |
| Over-current protection (fuse) | 440 mA/1000 V, ceramic fast-blow fuse with a minimum interrupt rating of 10 kA |
| Certifications | |
| Agency approvals | FCC Class B, CE, UL |



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| Power system | |
| Power requirements | 6 × 1.5 V AAA alkaline batteries |
| Battery life | Earth bond resistance measurements: 2600 with new alkaline batteries (standard tests of 1 Ω with a duty cycle of 5 seconds on and 25 seconds off). Insulation resistance: 1100 insulation resistance tests with new alkaline batteries (standard tests of 1 Ω with a duty cycle of 5 seconds on and 25 seconds off). This does not include Bluetooth or backlight use. |
| Auto power off | User programmable: up to 30 minutes in 1 minute increments, with audible pre-alert (20 seconds) |
| Environmental data | |
| Operating temperature | 32–122°F (0–50°C) |
| Operating humidity | Maximum 80% up to 95°F (35°C) decreasing linearly to 60% at 113°F (45°C) |
| Storage temperature | –4 to 140°F (–20 to 60°C) |
| Storage temperature and relative humidity | –20 to 60°C (–4 to 140°F), 80% maximum |
| Operating altitude | 6561' (2000 m) |
| Pollution degree | 2 |
| EMC | EN 61326-1 |
| Shock vibration | Per MIL-PRF-28800 for a Class 2 instrument |
| Meter physical data | |
| Display | 4000 count with bar graph |
| Controls | 9-position rotary switch, 4-way selector pad with center OK/TEST button, LED (pass (green), fail (red)), dedicated function buttons (5: mode, cancel, hold/lock, Bluetooth, backlight) |
| Backlight | White LEDs |
| Work lights | Two white LEDs |
| Weight: | 1.4 lb. (630 g), including batteries |
| Dimensions (H × W × L) | 3.7" × 8.1" × 2.0" (95 mm × 207 mm × 52 mm) |
| Material | PC-ABS, TPE |
| Color | Black |
| Shipping information | |
| Packaging type | Color box with view of product in clamshell |
| Packaging contents | IM75 FLIR meter, TA81 premium test probes with clips, CD with translated manuals, 6 × AAA Energizer batteries |
| Packaging dimensions (H × W × L) | 11 cm × 14 cm × 32 cm (4.3" × 5.5" × 12.6") |
| Packaging weight | 1.16 kg (2.55 lb.), including batteries |
| Carton weight | 15 kg (33 lb.) |
| Carton dimensions | 13 7/8" × 11 1/2" × 24-1/8" |
| Carton quantity | 12 |
| EAN-13 | 0793950370957 |
| UPC-12 | 793950370957 |
| Country of origin | Taiwan |
| Tariff code | 9030330040 |



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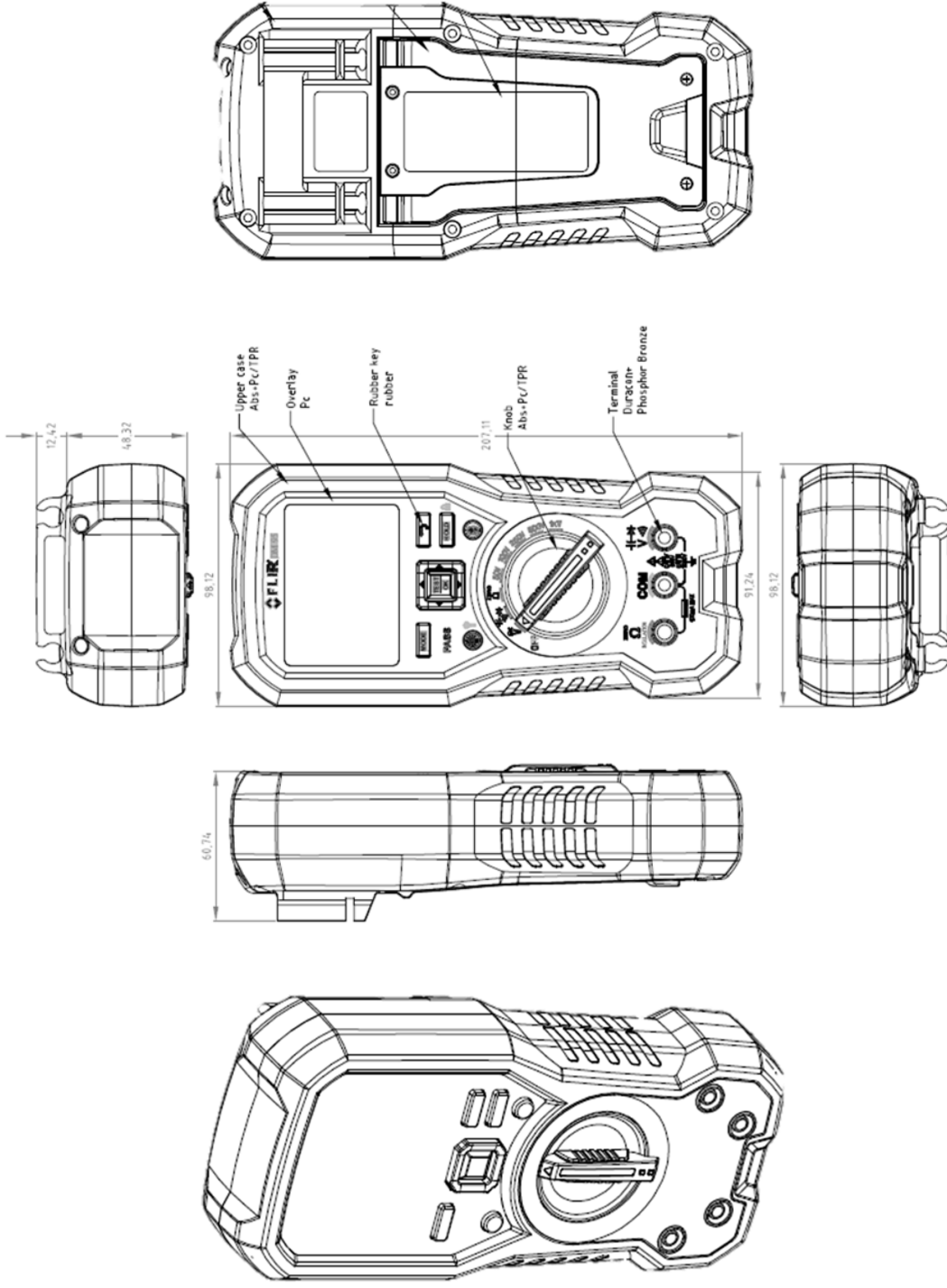
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| Technical support | |
|-------------------|---|
| Website | http://support.flir.com |
| E-mail | TMsupport@flir.com |
| Phone | 855-499-3662 |
| Repairs | repair@flir.com |

| Accessories | |
|--|--|
| TA10. EVA Protective Case for DM9x and IM7x Series | |
| TA50. Magnetic Hanging Strap | |
| TA70. CAT IV Insulated Alligator Probes (Slip On) | |
| TA80. CAT IV Silicone Test Leads | |

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| Modified Date Monday, August 18, 2014 | Modified By T&M Engineering |
| Description FLIR IM75, Units in mm | |

