

iTraker Data Sheet

Physical Characteristics

Length:	148mm (5.83 in)
Width:	73mm (2.87 in)
Height:	73mm (2.87 in)
Weight:	280 g (9.87 ounces) without accessories

Temperature Sensor

Non- contact Infrared Thermometer with laser pointer

Surface Temp Range:	-40°C to 85°C (-40°F - 185° F)
Object Temperature:	70°C to 380°C (-94°F - 716° F)
Accuracy:	0.5C
Resolution:	0.02°C
Aspect Ratio:	12:1
Laser pointer power output:	<1mw

Environmental

Operating Temperature:	15°C - 45°C(60°F - 115° F)
Humidity (non-condensing):	15% - 95%
Rain & Dust Resistance:	IP51

Moisture Sensor

Impedance based technology, designed to penetrate material under test to a depth of:	30-40 mm (~1.25 - 1.5 inches)
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Power

3.7V LIP (Lithium-Polymer) internal rechargeable battery

Battery Life:	at least 9 hours with new battery
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Radar Sensor

Transmit Freq:	24.150 GHz - 24.250 GHz
Power Output:	0.3 mW

Thermal Imaging Camera (iTraker PRO only)

Resolution	256*192
FOV Camera Lense Angle	42° * 32.1°
IFOV	2.4 Milliradians
Frame Refresh Rate	25HZ
Accuracy	±3°C
Measurement Range	-20°C - 120°C
Pixel Pitch	12um

Communication

Bluetooth Low Energy V5.1 Range:	Connectivity 50m (164 feet)
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Battery Charging Specification

Cable:	USB-C
Recharge time:	1.5 hours with 900mA 2.5 hours with 750mA 6.5 hours with 300mA

Included Accessories

iTraker: Carry case, USB-C Charging Cable, USB Thermal Cable, Stand, Lanyard, Phone Backing Plate, Warranty Card

Optional Accessories

Borescope, Monopod, Holster

HSN Code

9031.49.9000

Compatibility

Android:	Above 12.00
IOS:	13 and above
IOS OS version:	17 and above

Regulatory Approvals and Compliance

EN 301 489-1; EN 301 489-3; EN 300 328 V2.2.2; EN62479:2010
AS/NZS CISPR 32:2015+A1:2020; AS/NZS 4268:2017; AS/NZS 2772.2:2016+A1:2018;
ARPANSA RPS S-1 Radiation Protection Series S-1 (Rev. 1)
FCC ID: 2BEMQ-T5B; 47 CFR Part 15, Subpart C 15.247; 47 CFR Part 1.1307; 47 CFR Part 2.1093



Calibration

The iTraker is a precision instrument which needs recalibrating to ensure optimal performance. Some components such as the moisture sensor scuff pads designed for sacrificial wear and worn pads will be placed during the calibration service.