QUALICA-RD 70T

Android	4G	WiFi	Bluetooth	1D Barcode
2D Barcode	IRIS	NFC	Camera	GPS

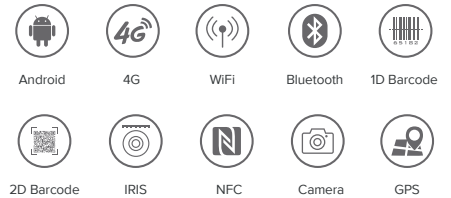## Thermometry Mobile Data Terminal.
Accuracy error: 0.5 °C on objects / 0.2 °C on people.

This is a high-performance intelligent handheld terminal which designed for temperature measurement. It is developed based on Android system, with high-performance processor, first-class configuration and fast operation, this device can be widely used in multiple temperature measurement scenarios. Temperature measurement module on top is more convenient for the user to operate, and helps the user to quickly realize information management and improve work efficiency.

Performance

CPU	Cortex-A53 Octa-core 2.5GHz
RAM+ROM	3GB + 32GB
Expansion	Supports up to 128 GB Micro SD card
Operating System	Android 11; Soti MobiControl, SafeUEM supported

Communication

WLAN	IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna
WWAN (China)	2G: 900/1800 MHz
	3G: WCDMA: B1/B8
	CDMA2000 EVDO: BC0
	TD-SCDMA: B34/B39
	4G: B1/B3/B5/B8/B34/B38/B39/B40/B41
WWAN (Europe)	2G: 850/900/1800/1900 MHz
	3G: B1/B2/B4/B5/B8
	4G: B1/B3/B5/B7/B8/B20/B40
WWAN(America)	2G: 850/900/1800/1900 MHz
	3G: B1/B2/B4/B5/B8
	4G: B2/B4/B7/B12/B17/B25/B66
WWAN (Others)	Depending on the country's ISP
Bluetooth	Bluetooth v2.1+EDR,3.0+HS,v4.1+HS
GNSS	GPS/AGPS, GLONASS, BeiDou; internal antenna

Physical Characteristics

Dimensions	163.8 * 79.2 * 13.8 mm / 6.45 * 3.12 * 0.54 in
Weight	<242g / 8.5oz.
Display	5.2" IPS FHD 1920 x 1080
Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
Expansion Slot	1 slot for SIM card, 1 slot for SIM or TF card
Interfaces	USB2.0 Type-C, OTG, supports TypeC headphones
Audio	Speaker, 2 microphones
Keypad	4 front keys, 1 power key, 2 scan keys, 1 multifunctional key
Power	Main battery: Li-ion, rechargeable, 4000mAh
	Standby: over 300 hours
	Continuous use: over 12 hours (depending on user environment)
	Charging time: 2-3 hours (with standard adaptor and USB cable)
Sensors	Gravity sensor, Light Sensor, Proximity sensor, Vibration motor

Developing Environment

SDK	Software Development Kit
Language	Java
Tool	Eclipse / Android Studio

User Environment

Operating Temp.	-4°F to 122°F / -20°C to 50°C
Storage Temp.	-40°F to 158°F / -40°C to 70°C
Humidity	5%RH - 95%RH non condensing
Drop Specification	Multiple 1.8m / 5.9ft drops (at least 20 times) to the concrete across the operating temperature range
Tumble Specification	1000 x 0.5m/1.6ft falls at room temperature
Sealing	IP65/IP67 per IEC sealing specifications
ESD	±15KV air discharge, ±6KV conductive discharge

Data Collection

Temperature Collection

Measure Position	Human forehead / Object surface
Measure Method	Non-contact / Infrared
Measure Distance	1 - 3 cm
Measure Range	Human forehead: 32°C to 42.9°C; Object surface: -40°C to 115°C;
Measure Accuracy	Human forehead: ±0.2°C; Object surface: ±0.5°C;
Measure Duration	≤1S
Spectral Range	5.5 -15 μm
Resolution	0.02°C

Camera

Rear Camera	13MP Autofocus with flash
Front Camera (optional)	5MP camera

NFC

Frequency	13.56MHz
Protocol	ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc.
Chips	M1 card (S50, S70), CPU card, NFC tags, etc.
Range	2-4cm

Barcode Scanning (Optional)

2D Imager Scanner	Zebra SE4710/Honeywell N6603
1D Symbologies	UPC/EAN, Code128, Code39, Code93, Code11, Codabar, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, MSI, RSS, etc.
2D Symbologies	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode; Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX), etc.

Iris (optional)

Rate	<150ms
Range	20-40cm
FAR	1/10000000
Protocol	ISO/IEC 19794-6，GB/T 20979-2007

*Iris is alternative to front camera.

Accessories(See details in Accessory Guide)

| AC Adaptor | USB Cable | Sim Tray Ejector | Lanyard | Cradle (Optional) | Holster(Optional) |