



PRODUCT BROCHURE



RANGER2

Rugged Mobile Computer

Upgrade E-Commerce Logistics with Full-Screen Innovation

Superior Scanning Technology to Boost Productivity



60ms
Capture Speed

20
Barcodes at Once



12h+
Battery Life

Smooth and Fast

**Built for
Durability**

1.5m

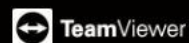
IP67

Effortless Device Management

▪ Support Various IoT Cloud Platforms and Browsers



SOTI



ivanti



▪ One SDK for Efficient Device Configuration



Barcode Utility
Easily Configure Scanner and
Barcode Decoding Performance



Kiosk
Restrict User Access and
Usage Permissions



DataWedge
Efficiently Transfer and
Install Files on the Device



Movstage
A QR Code Configuration
App for Device

» PARAMETERS



Processor

Octa-core
4*A53@2.0GHz+
4*A53@1.5GHz



OS

Android 13.0
upgradable to
Android 15.0



Memory

4 GB RAM/64 GB Flash;
(Default)
3 GB RAM/32 GB Flash;
6 GB RAM/128 GB Flash



SIM

Dual SIM Cards



Expansion Slot

Micro SD Card
(up to 256GB)



Display

5.45 Inches
HD 1440*720



Camera

Rear: 13MP, PDAF, 1A Flash
Front: 2MP



Battery

Li-Ion, 3.85 V
5000 mAh Polymer



Audio

Microphone
Speaker



Charging

Type-C and POGO
Charging, Supporting
18W Fast Charging



Prompt Facility

Speaker
Vibration Prompt
LED Prompt



Sensors

G-sensor;Proximity
Sensor;Light Sensor;
E-Compass;Gyroscope;
Hall Sensor



Scanner

XC E4



Barcode

one-dimensional
two-dimensional barcode



FOV

Horizontal: 42.0°
Vertical: 31°



Motion Tolerance

6m/s



Network

2G/3G/4G



WLAN

IEEE 802.11
a/b/g/n/ac



Bluetooth

Bluetooth Class 5.0



GPS

GPS/AGPS/
Beidou/Galileo/
GLONASS/QZSS



USB

Type-C *1



OTG

Yes



NFC

Frequency: 13.56MHz
Distance: Within 2-4mm
TCP: ISO14443A
/14443B/15693



Size

153*75*15mm



Vibration Motor

Yes



Environment

Operating Temperature: -20°C ~ 60°C
Storage Temperature: -40°C~70°C (Battery not included)
Humidity: 5%~95% Non-condensing



Weight

240g
(Battery Included)



Protect Grade

Drop Standard: Multiple Falls on the 1.5m Marble Floor Roll Drop
Standard: 1000 Times of 0.5-meter Roller Drop
International Protection: IP67
Electrostatic Discharge: Contact: ±8KV, Air: ±15KV



RANGER2K

Rugged Mobile Computer

Boost Sorting Efficiency with Keyboard

Advanced Scanning to Improve Efficiency



60ms
Capture Speed

20
Barcodes at Once



12h+
Battery Life

**OCTA
CORE**

Smooth and Fast



NFC Recognition

**Extremely
Durable**

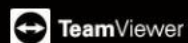


Seamless Device Management

Compatible with IoT Clouds and Browsers



SOTI



ivanti



Device Configuration



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Processor

Octa-core
4*A53@2.0GHz+
4*A53@1.5GHz



OS

Android 13.0
upgradable to
Android 15.0



Memory

4 GB RAM/64 GB Flash(Default)
3 GB RAM/32 GB Flash
4 GB RAM/32 GB Flash
6 GB RAM/128 GB Flash



SIM

Dual SIM Cards



Expansion Slot

Micro SD Card
(up to 256GB)



Display

4 Inches
WVGA 480*800



Camera

Rear: 13MP, PDAF, 1A Flash
Front: 2MP



Battery

Li-Ion, 3.85 V
5100 mAh Polymer



Audio

Microphone
Speaker



Charging

Type-C and POGO
Charging, Supporting
18W Fast Charging



Prompt Facility

Speaker
Vibration Prompt
LED Prompt



Sensors

G-sensor;Proximity
Sensor;Light Sensor;
E-Compass;Gyroscope;
Hall Sensor



Scanner

XC E4



Barcode

one-dimensional
two-dimensional barcode



FOV

Horizontal: 48°
Vertical: 31°



Motion Tolerance

6m/s



Network

2G/3G/4G



WLAN

IEEE 802.11
a/b/g/n/ac



Bluetooth

Bluetooth Class 5.0



GPS

GPS/AGPS/
Beidou/Galileo/
GLONASS/QZSS



USB

Type-C *1



OTG

Yes



NFC

Frequency: 13.56MHz
Distance: Within 2-4mm
TCP: ISO14443A
/14443B/15693



Size

155*66*14.2mm



Vibration Motor

Yes



Environment

Operating Temperature: -20°C ~ 50°C
Storage Temperature: -40°C~60°C (Battery not included)
Humidity: 5%~95% Non-condensing



Weight

247g
(Battery Included)



Protect Grade

Drop Standard: Multiple Falls on the 1.8m
Tumble Specification: 1000 Times of 0.5-meter Roller Drop
Sealing: IP67
Electrostatic Discharge: Contact: ±8KV, Air: ±15KV



RANGER2K(N)

Rugged Mobile Computer

Exceptional Performance Outstanding Cost Control



Superior In-house Scanner

100ms
Capture Speed

30°
Scanning Angle

20 Barcodes
Capture at Once

1D and 2D
Barcodes

16h+
Battery Life



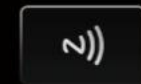
Smooth and Fast



Rugged for Durability



NFC Recognition

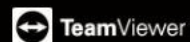


Seamless Device Management

Compatible with IoT Clouds and Browsers



SOTI



ivanti



Device Configuration



Barcode Utility
Easily Configure Scanner and Barcode Decoding Performance



Kiosk
Restrict User Access and Usage Permissions



DataWedge
Efficiently Transfer and Install Files on the Device



Movstage
A QR Code Configuration App for Device

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Processor

Octa-core
4*A53@2.0GHz+
4*A53@1.5GHz



OS

Android 13.0
upgradable to
Android 15.0



Memory

2GB+32GB
4GB+64GB



SIM

Dual SIM Cards



Expansion Slot

Micro SD Card
(Up to 128GB)



Display

4 inches
480x800 resolution



Camera

Rear: 13MP, AF, 1A Flash
Front: 2MP



Battery

Li-Ion, 3.85 V
5200mAh



Audio

Microphone
Receiver



Charging

Type-C
and POGO Charging



Prompt Facility

Speaker
Vibration Prompt
LED Prompt



Sensors

G-sensor; Proximity
Sensor; Light Sensor;
E-Compass; Gyroscope;
Hall Sensor



Scanner

XC E4
XC E5



Barcode

one-dimensional
two-dimensional barcode



FOV

Horizontal: 48°
Vertical: 31°



Motion Tolerance

6m/s



Network

2G/3G/4G



WLAN

IEEE 802.11
a/b/g/n/ac



Bluetooth

Bluetooth Class 5.0



GPS

GPS/AGPS/
Beidou/Galileo/
GLONASS/QZSS



USB

Type-C *1



OTG

Yes



NFC

Frequency: 13.56MHz
Distance: Within 2-4mm
TCP: ISO14443A
/14443B/15693



Size

66.4*159.5*23.4mm



Vibration Motor

Yes



Environment

Operating Temperature: -20°C ~ 55°C
Storage Temperature: -40°C ~ 75°C (Battery not included)
Humidity: 5%~95% Non-condensing



Weight

250g
(Battery Included)



Protect Grade

Drop Standard: Multiple Falls on the 1.5m
Tumble Specification: 1000 Times of 0.5-meter Roller Drop
Sealing: IP65
Electrostatic Discharge: Contact: ±8KV, Air: ±15KV



RANGER1 K/G

Rugged Mobile Computer

Master High-Shelf Scanning with Ease

Advanced Scanning to Improve Efficiency



20 Barcodes
Barcodes at Once

60ms
Capture Speed

1.8m
Scanning Capability

12h+
Battery Life



Smooth

**OCTA
CORE**

Fast

**Built for
Durability**

1.5m

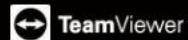
IP67

Effortless Device Management

■ Universal IoT Cloud and Browser Compatibility



SOTI



ivanti



■ Seamless Device Configuration



Barcode Utility
Easily Configure Scanner and
Barcode Decoding Performance



Kiosk
Restrict User Access and
Usage Permissions



DataWedge
Efficiently Transfer and
Install Files on the Device



Movstage
A QR Code Configuration
App for Device

» PARAMETERS



Processor

Octa-core
4*A53@2.0GHz+4
*A53@1.5GHz



OS

Android 11.0
64bit



Memory

3 GB RAM/32 GB Flash
(Default)
2 GB RAM/16 GB Flash
4 GB RAM/64 GB Flash



SIM

Dual SIM Cards



Expansion Slot

Micro SD Card
(up to 256GB)



Display

4 Inches



Camera

Rear: 13MP with PDAF
Autofocus, 1A Flash



Battery

Li-Ion, 3.85 V
5100 mAh Polymer



Audio

Microphone



Charging

Type-C and POGO
Charging, Supporting
18W Fast Charging



Prompt Facility

Speaker
Vibration Prompt
LED Prompt



Sensors

G-sensor;Proximity
Sensor;Light Sensor;
E-Compass;Gyroscope;
Hall Sensor



Scanner

XC E4 (Default)
Zebra 4710



Barcode

one-dimensional
two-dimensional barcode



FOV

Horizontal: 48°
Vertical: 31°



Motion Tolerance

6m/s



Network

2G/3G/4G



WLAN

IEEE 802.11
a/b/g/n/ac
2.4G&5G



Bluetooth

Bluetooth Class 5.0



GPS

GPS/AGPS/
Beidou/Galileo/
GLONASS/QZSS



USB

Type-C *1



OTG

Yes



Weight

357g
(Battery Included)



Size

160*67*24.18mm



Vibration Motor

Yes



Environment

Operating Temperature: -20°C ~ 60°C
Storage Temperature: -40°C~60°C (Battery not included)
Humidity: 0%~90% Non-condensing



Protect Grade

Drop Standard: Multiple drops to concrete with a height of 1.5m
Tumble Specification: 1000 Times of 0.5-meter Roller Drop
Sealing: IP67
Electrostatic Discharge: Contact:±8KV, Air:±15KV



E4

Innovative In-house Laser Scan Engine

Compact, Decoded 1D/2D Barcodes

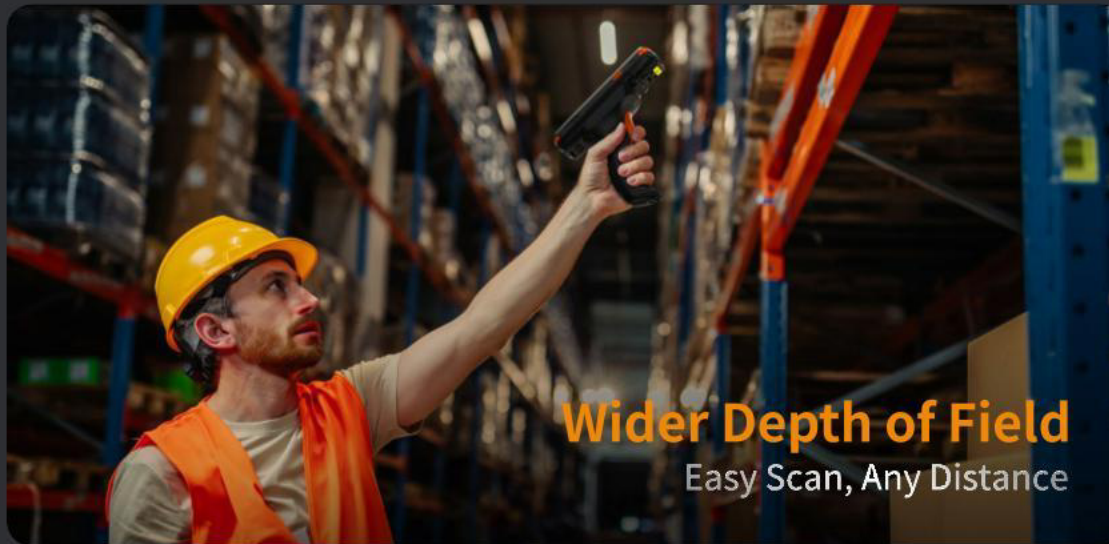
Faster

Over 16 Scans
Per Second

60ms

Enhanced Precision

Laser Scanning for
Reliable Data Capture



Wider Depth of Field

Easy Scan, Any Distance

Scans Tough Codes Seamlessly

Dirt, Damage, Distortion, Laminated



Captures
20 Barcodes
at Once

Comprehensive



Scans All 1D & 2D Barcodes

» PARAMETERS



Dimensions

23.3 W x 6.6 H x 9.0 mm D



Weight

<5g



Interfaces

Mipi, 25 pin ZIF Connector



Sensor Resolution

1280 x 800 CMOS



Field of View

42° (Horizontal)
26.8° (Vertical)



Aiming LED

Laser 650nm with DOE



Illumination

LED : White/Yellow



Scan Angles

Laser Aimer 650nm with DOE



Symbol Contrast

20% minimum print contrast ratio



LED Classification

Class 2, IEC
60825-1:2014 Safety of laser products



1D

UPC/EAN, UPC/EAN with supplementals, Code128, GS1-128, Code 39, Trioptic, Code 32, Code 93, Code11, Matrix 2 of 5, Interleaved 2 of 5, IATA 2 of 5, Industrial 2 of 5, Codabar, Codablock F, MSI, Telepen, GS1 DataBar variants



2D

PDF417, MicroPDF417, Composite Code, Data Matrix, Maxicode, QR Code, MicroQR, Aztec, GS1 QR, Han Xin, Data Matrix, US postnet, MicroPDF417, Simple Datamatrix, Inverted Datamatrix, DOT code



Operating Temperature

-30° to 60° C



Storage Temperature

-40° to 70° C



Humidity

up to 95% RH, non-condensing at 60°C [140°F]



Operational input voltage Engine

3V



Ambient Light

0 lux to 100,000 lux (total darkness to bright sunlight)

(◎) Decode Ranges

code39 (3mil) — 93-202mm
EAN-13 (13mil) — 39-580mm

code39 (5mil) — 75-312mm
PDF417 (6.7mil) — 86-290mm

code39 (20mil) — 89-870mm
DM Code (10mil) — 79-328mm

code128 (15mil) — 63-742mm
QRCode (15mil) — 36-480mm

» OPTIONAL ACCESSORIES



Pistol

Single-slot
Charger



Adapter



4-Slot Battery Charger



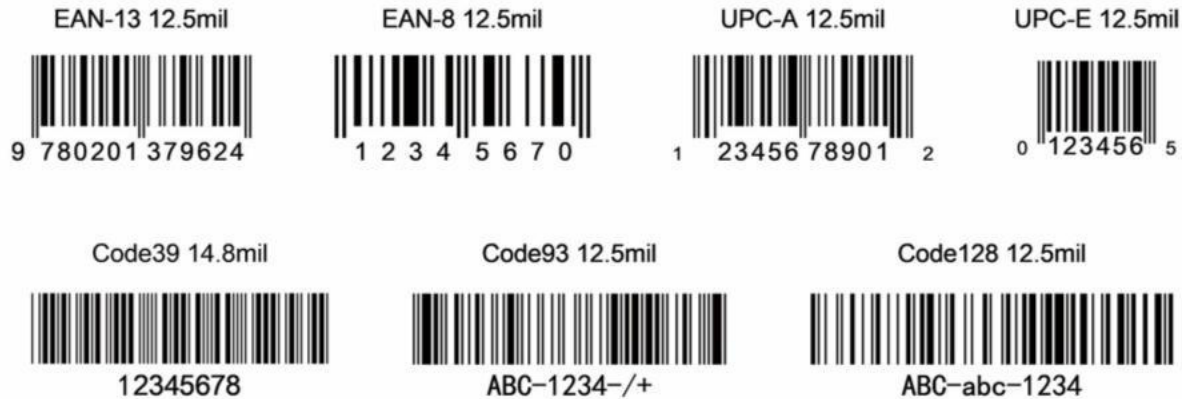
USB-C Cable for
Charging



Hand Strap



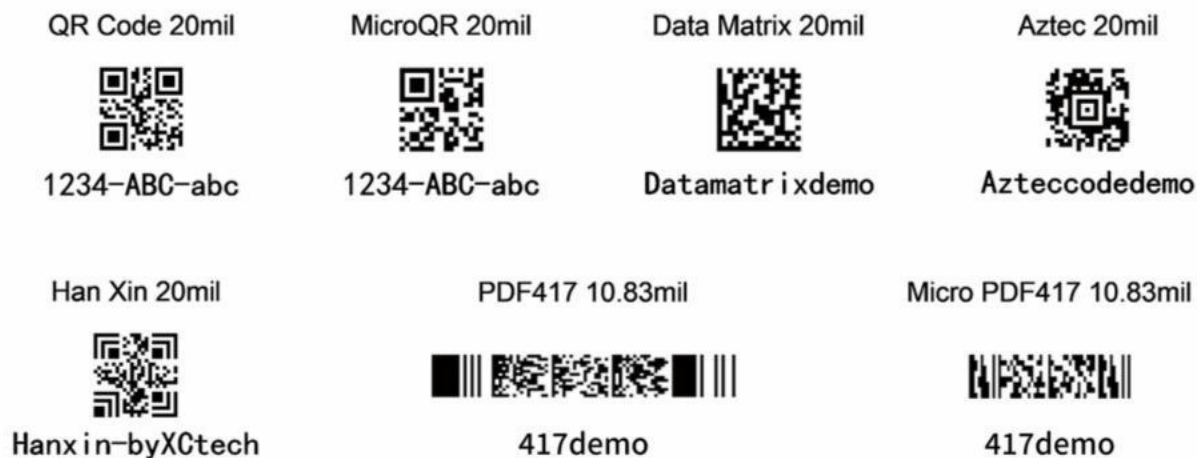
» 1D Barcodes



» Abnormal Barcodes



» 2D Barcodes





Warehouse Sorting



Logistics



Supermarket
Inventory



Darkshop Sorting

» CUSTOMIZED
SOLUTIONS
FOR YOUR INDUSTRY



GRACIAS!



QUANTUMCORE
INNOVACIÓN QUE CONECTA