



**MT90 Orca II**  
Mobile Computers

## Features

### Full touchscreen mobile computer.

The MT90 Orca II is an Android mobile computer that packs all of the latest hardware in a modern and user-friendly design. It is a light and durable device with a 5" capacitive touch screen. Equipped with a familiar user interface and the exterior of a consumer phone, the MT90 Orca II is easy to set up and use right out of the box.

### Megapixel barcode scanning.

Developed for quick and efficient barcode scanning, the MT90 Orca II ensures maximum productivity. Its megapixel scan engine is built in at the top of the device and can be triggered with a virtual button on the screen or a physical button on the side of the device for easy point-and-shoot scanning.

### Reliable all day use with a replaceable battery.

The MT90 Orca II has a 3.8V 4500 mAh battery that allows you to use the device all day without problem. Additionally, the battery is replaceable, allowing you to use a spare battery if needed.

### Business-class durability.

The MT90 Orca II is built to withstand dusty environments and inevitable bumps and drops. It has a rating of IP65 and has been drop tested up to 1.5m, or 1.8m with a rubber boot, ensuring longer and more reliable use.

### GMS (optional).

The MT90 Orca II has models with and without Google Mobile Services (GMS). GMS offers integrated Google applications such as Gmail, Google Maps and Google Play Store.

### Accessories that match your operations.

A wide range of accessories for the MT90 Orca II are included in the package, namely: USB cable, battery, and AC adapter. Various pistol grips, including both UHF and long-range, holsters, multi-charging cradles, communication (USB) cradle and vehicle cradle kit are also available for the MT90 Orca Series.

## Suggested industries



Events



Healthcare



Logistics



Retail



Transportation



# MT90 Orca II Technical specifications

## Performance

Image Sensor	1280x800 CMOS
Operating System	Android 8.1 - GMS
Processor	1.5GHz quad-core 64-bit
Memory RAM	2GB
Memory Flash	16GB
Memory Storage Expansion (max.)	Micro SD card (max. 32GB)
Illumination	White LED (625±10nm)
Aiming	Laser diode
Depth of Field EAN 13 (13mil)	60-420mm
Depth of Field Code 39 (5mil)	102-205mm
Depth of Field PDF417 (6.67mil)	90-173mm
Depth of Field Data Matrix (10mil)	110-275mm
Depth of Field QR (15mil)	40-230mm
Minimal Print Contrast	25%
Scan Angle Roll	360°
Field of View Horizontal	44° 49.5°
Field of View Vertical	37°

## Data Capture

1D	All major 1D symbologies
2D	All major 2D symbologies, including QR Code, Data Matrix, Aztec, Micro PDF, Micro QR, PDF417.

## Physical

Dimensions (mm)	155(L) × 78.5(W) × 20.5(H)mm
Weight	265g (including battery)
Material	PC
Display	5" full colour (1280×720)
Touch Panel	Capacitive touch screen
Keypad	10 keys (side keys included)
Buttons	Side Keys Volume+, Volume-, Left Scan Key, Right Scan Key, Power Button, Function Key, Keypad (4 Keys)
Interfaces	Micro USB
Battery Type	3.8V, 4500mAh
Expected Battery Life	10 hours
Expected Charge Time	5 hours (charge via AC adapter)
Notifications	Vibrator, speaker and multi-color LED
Power Supply Input	DC5V, 2A
Power Supply Output	AC100~240V, 50~60Hz
Audio	Microphone / speaker
Audio Jack	3.5mm earphone

### Newland EMEA HQ

+31 (0) 345 87 00 33

[info@newland-id.com](mailto:info@newland-id.com)

[newland-id.com](http://newland-id.com)

Feel free to contact us or a partner near you

visit [newland-id.com/partners](http://newland-id.com/partners)

Specifications are subject to change without notice

© Newland EMEA 2022, all rights reserved



# MT90 Orca II Technical specifications

Pogo Pin	√
Expansion Slot	Micro SD card (max. 32GB)
Camera	8 megapixels, auto focus, with LED flashlight
SIM	Dual SIM: 1 SIM card, 1 Micro SIM Card

## Environmental

Operating Temperature	-20°C to 55°C (-4°F to 131°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	5% to 95% (non-condensing)
Electro Static Discharge (ESD)	±15 kV (air discharge), ±8 kV (direct discharge)
Drop	1.5m, 1.8m with rubber boot
IP Rating	IP65

## Wireless

WWAN RADIO	2G: GSM (850/900/1800/1900MHz) 3G: WCDMA (B1, B2, B5, B8), TD-SCDMA (B34, B39), CDMA 1x/EVDO (BC0) 4G: TDD-LTE (B38, B39, B40, B41(100m)), FDD-LTE (B1, B2, B3, B5, B7, B8, B2, B28a&b)
WLAN RADIO	IEEE 802.11 a/b/g/n, 2.4GHz and 5GHz
WPAN RADIO	Bluetooth 4.1 LE, backward compatible
RFID	13.56MHz RFID ISO14443A/B, MIFARE, FeliCa, NFC Forum Tags, ISO15693
GPS	GPS (AGPS), GLONASS

## Accessories

Standard	Battery, AC adapter, USB cable
Optional	Charging Cradle, Pistol Grip, Long Range Pistol Grip, UHF Pistol Grip, Rubber Boot, Wrist Strap, Hand Strap, 3 Slot Cradle, 4 Slot Battery Charger, High Capacity Battery

## Software

MDM (certified)	Ndevor, SOTI, Airwatch
Terminal Emulation (compatible)	StayLinked, Ivanti Velocity
Configuration Tools	Ndevor

## Certifications

Hardware	CE RED, FCCID, RoHS, IEC6247, Laser safety (Class II)
----------	---

## Warranty

Standard	2 years
----------	---------

### Newland EMEA HQ

+31 (0) 345 87 00 33

[info@newland-id.com](mailto:info@newland-id.com)

[newland-id.com](http://newland-id.com)

Feel free to contact us or a partner near you

visit [newland-id.com/partners](http://newland-id.com/partners)

Specifications are subject to change without notice

© Newland EMEA 2022, all rights reserved