



**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: single slot charging & communication (USB) cradle, rubber boot, hand strap and wrist lanyard. Pistol grip, UHF pistol grip, long-range pistol grip and holsters are optional.



## 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°                       |
| Scan Modes                         | Trigger Mode, Sense Mode  |
| Scan Rate                          | 60 frames per second      |

## 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   |

### 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

|                     |   |
|---------------------|---|
| Power Supply Output | AC100~240V, 50~60Hz                           |
| Audio               | Microphone / speaker                          |
| Audio Jack          | 3.5mm earphone                                |
| 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 |
|----------|---------|