

NEMO OUTDOOR™ 5.0

MMAC3 Multi

The 3rd generation Nemo Outdoor Multi is a compact and cost-effective benchmarking solution for use with Nemo Outdoor. Benchmarking measurements can be performed on various system technologies and networks with support for up to seven test devices such as mobiles, scanners, and a GPS device. In addition, the system in combination with Nemo Outdoor Multi-option allows the use of different combinations of measurement modes such as voice calls and data transfers simultaneously. The system is connected to a single laptop, saving space in the test vehicle during drive testing and adding to the ease of use of the system.

SYSTEM HIGHLIGHTS

- Includes a built-in 2500 mAh battery pack
- Includes a DC to AC power inverter
- Requires only up to 8AMP power input
- Professional lockable USB data cable connection*
- Ruggedized case

OPTIONS

- MMAC3 unit with the mounting plate and test terminals
- MMAC3 unit with the carrying case



TECHNICAL SPECIFICATIONS

Computer Requirements

- PC (IBM or Dell recommended) with Windows® XP Professional or Windows® Vista
- For multi data measurements Intel® Core Duo processor T2500 2.00GHz recommended
- 512MB RAM minimum, 1GB RAM recommended
- 100MB of free hard disk space for installation and use, 1GB recommended

Power Specification

- Input
 - +12VDC nominal (11 - 15VDC range), max 8A
- Outputs
 - +12VDC: 0.8A/socket or total 5A
 - +5VDC/USB ports: max 0.5A/port

- Back up battery capacity
 - Li- Ion 2500 mAh

Supported Devices

- Test terminals with USB ports (1-5)
- USB GPS receivers
- USB scanner receivers

Measurement Configuration

- One to five test terminals
- Up to five simultaneous CSD/ GPRS / EDGE / WCDMA/ HSPA data tests

Interfaces

- One Neutrik USB B port (in)
- Seven Neutrik USB A ports. 1.1 or USB 2.0 compliant ports (Out)
- Main Power Switch
- Power Connector +12V
- Power Connector +5V
- 1. Power sockets +12V
- 2. Neutrik USB A connectors
- 3. Neutrik USB B connector
- 4. Main power switch
- 5. Main power connector
- 6. LED
- 7. power connector +5V



Lockable USB data cable



Nemo Outdoor Multi Unit Specifications

- Dimensions (W x D x H)
 - 40.0 x 26.0 x 4.5 cm, (15.7 x 10.2 x 1.8") without the car mounting kit
 - 41.1 x 27.0 x 4.8 cm (16.2 x 10.63 x 1.9 ") with the car mounting kit
- Weight
 - 4.6kg (10.14 lbs.) with the car mounting kit (excluding holders and cables)
 - 3.8kg (8.4 lbs.) without the car mounting kit
- Lockable USB data cable connections
 - Comply with the 300 019-2-5 V3.0.0 class T5.1 standard (random, bump and shock) vibration test
 - Comply with the EMC test directive 95/54/EC, ECE regulaton No 10/02 and ISO 7637-2 III
- Operating temperature
 - 0 to 50°C (32 to 122°F).

Nemo Outdoor Multi Unit Package

- MMAC 3 unit with built-in battery pack
- Nylon belt
- Car mounting kit for main unit
- Mobile holder panel, can be semi-permanently mounted, e.g. onto a car back seat
- Power cable +12V, length 1.2m (4 ft.) for cigarette lighter socket
- Power cable +12V, length 4 m (13.12 ft.) for fixed installation
- USB A to B data cable, length 3 m (9.84 ft.)
- Cigarette lighter splitter (3x)
- 1 x Pure Sine Wave inverter 300W DC to AC, 12V to 110V or 12V to 220V

Nemo Outdoor Multi Carrying Case Specifications

- Optional tough roll around carrying case is injection molded with rigid reinforced walls, extendable handle and spring loaded steel carrying handles to give maximum protection for the Nemo drive testing tools. Customized foam filling included.



Materials

- Polypropylene, nylon, stainless steel hinge pins, neoprene rubber o-ring

Dimensions

- Internal: 55.3 x 45.2 x 20.8 cm (21.9 x 18.0 x 8.4")
- External: 60.4 x 51.0 x 24.6 cm (24.1 x 20.3 x 9.8") (no wheels)
- External: 25 x 20.3 x 10.3" (with wheels)
- Weight
 - empty: 10kg (20.77 lbs.)
 - fully loaded: 25kg (55.11 lbs.)
- Color: black
- Latches: 6 ABS snap or metal twist lock
- Handle: 3 ABS plastic or spring loaded metal

Nemo Outdoor Multi Carrying Case Package

- Nemo Outdoor Multi Unit Package (see the previous page)
- Nemo Outdoor multi carrying case
- Customized foam filling including place for the following items:
 - 1 x GPS receiver
 - 1 x Scanner (*)
 - 1 x USB data/ power cable for scanner (*)
 - Antenna cable(s) for scanner (*)
 - 1-5 test terminals (*)
 - 1-5 x cigarette lighter chargers for terminals, if required(*)
 - 1-5 x USB data cables for terminals (*)
 - 1 x Pure Sine Wave inverter 300W DC to AC, 12V to 110V or 12V to 220V
 - Required hardware for Voice Quality testing (*)

Connectors

1 x USB B port

1 x USB A port

Main power connector +12V

Power connector for MMAC3 +12V

(* Optional)