



# Nomad 1050

## SERIES

### ARM YOURSELF WITH A HANDHELD BUILT FOR EXTREMES

The Trimble® Nomad® 1050 series is a family of proven, ultra-rugged, feature-packed GPS handhelds created for mobile GIS professionals carrying out field data collection and inspection activities in harsh environments. Engineered to provide you with a high-performance PDA-style data collector that targets outdoor use in extreme conditions and challenging locations, the Nomad 1050 handheld makes it easy to collect, maintain, save and transmit data in the field. If you work in remote forests, isolated wetland areas, desert regions or urban streets, you need the Nomad 1050, a handheld that works as hard as you do all day long, no matter where you go.

#### Powerful, Rugged, Productive

Driven by a powerful 1.0 GHz processor and running Microsoft® Windows® Embedded Handheld version 6.5 operating system, the Nomad 1050 delivers all the features mobile workers need. Keep working productively all day with the Nomad's long battery life offering more than 15 hours of continuous use, even in cold conditions, and 8 GB of built-in storage plus 512 MB Ram.

The keyboard's tactile buttons optimize heavy data entry workflows in the field. Even when wearing gloves you will be able to input data and maintain your datasets with speed and ease. The Nomad 1050's high-resolution, sunlight-readable VGA color display also shows images, maps and data in crisp detail. Capture high-resolution images with asset, event, or site information using the built-in 5 megapixel camera with integrated flash and geo-tagging functionality—ideal for maintenance and repair applications.

Meeting the rigorous MIL-STD-810G military standards for impact, vibration, humidity, altitude and extreme temperatures, and with an IP68 rating for dust and water, the Nomad 1050 is a fully rugged device made to last.

#### Increased Productivity

An advanced integrated GPS antenna design tracks the full constellation of satellite signals, resulting in improved coverage, performance and greater location accuracy worldwide. Capable of real-time 2 to 4 meter positional accuracy and able to achieve positions in less time in challenging environments, such as in canyons or under heavy forest canopy, the Nomad 1050 ensures you're collecting reliable data. Plus, for high accuracy applications, you can pair the Nomad with the Trimble R1 GNSS receiver using Trimble ViewPoint RTX™ correction service to achieve submeter location accuracy anywhere in real-time.

#### Adaptable to Changing Workflows

The Nomad 1050 provides flexibility for diverse field applications with a range of models that offer integrated options and configurable accessories. The handheld provides a choice of integrated wireless capabilities, from Bluetooth® and Wi-Fi to optional 3.75G dual-band GSM/CDMA connectivity, to keep you connected to the office from the field. In addition, there is an optional integrated 1D/2D laser barcode scanner with built-in capability to recognize and sort dozens of barcodes at once—perfect for busy warehouses, transportation of products or complex asset tracking.

For a complete field-to-office workflow solution, utilize the Nomad 1050 handheld with Trimble Mapping & GIS field and office software to process and manage your data and create high quality deliverables for your organization.

Built to endure the toughest conditions GIS professionals may encounter, the hardworking, reliable Trimble Nomad 1050 series handhelds keep you working productively in almost any weather condition and location.

## Key Features

- ▶ Ultra-rugged handhelds built to work in challenging environments
- ▶ Long battery life extends time in the field
- ▶ Enhanced computing power and 8 GB memory for fast processing of field data
- ▶ Field to office connectivity with wireless data communications
- ▶ Simplified and fast asset tracking using optional 1D/2D integrated barcode scanner
- ▶ Compatible with Trimble GIS software for complete field to office workflows



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## STANDARD FEATURES

- Microsoft Windows Embedded Handheld (WEHH) 6.5 Professional, available in English, Spanish, French, German, Italian, Japanese, Korean, Portuguese (Brazilian), Russian, or Chinese (Simplified)
- Processor: 1 GHz, Texas Instruments DM3730
- 512 MB DDR SDRAM, 8 GB non-volatile Flash storage
- Full VGA sunlight-readable color TFT display, resistive touchscreen
- Rugged submersible design (prolonged immersion in water at 1 meter depth)
- Integrated digital camera (color, 5 megapixel resolution, with flash)
- Integrated speaker and microphone
- IP68 and MIL-STD-810G
- Bluetooth® 2.0 + EDR
- Secure digital or micro SD/SDHC slot
- Notification LEDs
- USB host and client
- Headset jack (2.5 mm mono audio and microphone)
- 15-hour battery life (in active use with default settings)
- Keypad backlight for night use

## STANDARD SOFTWARE

- Microsoft Office Mobile
- Notes/Tasks
- Calculator
- Windows Media Player
- Microsoft Picture & Videos
- Online help
- Pocket OneNote
- Contacts/Calendar
- Adobe Reader LE

## STANDARD ACCESSORIES

- Rechargeable Li-ion battery module
- User guide
- Rugged stylus with spring-loaded tip
- Hand strap
- Stylus lanyard
- Screen protectors
- AC charger and international adapters
- USB data cable
- USB or Serial boot
- Standard cap

## OPTIONAL ACCESSORIES\*

- UHF RFID accessory reader
- Office docking station
- Carry case
- Deluxe case with belt clip & neck strap
- Range pole bracket
- 12 V vehicle charger
- Serial interface cable
- Vehicle mount
- AA battery module
- Spare battery charger

\*Compatible with all Nomad 1050 models

## CONFIGURATION OPTIONS

- Integrated Dual-Mode 3.75G GSM/CDMA capability
- Integrated GPS (SiRFstar IV, 48 channels), SBAS (WAAS, EGNOS)
- Wi-Fi wireless capability
- 1D/2D integrated laser barcode imager using Trimble Scan Agent application
- Serial boot option with 9-pin RS-232 port
- Docking boot option compatible with Nomad office docking station
- USB boot option

NOMAD CONFIGURATIONS	Camera	Barcode Imager	WWAN
1050 LC	•		
1050 LE	•	•	
1050 XE	•	•	•

1 Battery life affected by power settings, usage patterns and environmental conditions. To ensure best performance when temperatures are below -20 °C (-4 °F), be sure battery is inserted in the device only when in use. When device is not in use at these temperatures, keep batteries in a pocket or stored in a warmer area.

2 2-4 m (50%-95%) accuracy determined using Horizontal Root Mean Squared method - Open Sky.

Specifications subject to change without notice.

## SOFTWARE COMPATIBILITY

Please refer to the Product Compatibility list ([www.trimble.com/mappingGIS/productcompatibility](http://www.trimble.com/mappingGIS/productcompatibility))

## PHYSICAL

Size ..... 17.6 cm x 10 cm x 5.0 cm  
 Weight ..... 596 g including rechargeable battery

## ENVIRONMENTAL SPECIFICATIONS

Meets or exceeds:

Water ..... Survives IP-X8, immersion at 2m (6.6 ft) for 1 hour IEC-60529, survives IP-X6, water jet 12.5mm dia @ 2.5-3m

Dust ..... Protected against dust, IEC-60529 IP-6X, dust chamber with under-pressure

Drops ..... Survived multiple drops of 1.2 m, MIL-STD-810G, Method 516.6, Procedure IV, Transit Drop

Operating Temperature ..... -30 °C to 60 °C  
 MIL-STD-810G, Method 502.5, Procedure I, II, III (Low Temp Operating -30 °C); Method 501.5, Procedure I & II (High Temp Operating 60 °C)

Storage Temperature ..... -40 °C to 70 °C  
 MIL-STD-810G, Method 502.5, Procedure I, II, III (Low Temp Storage -40 °C); Method 501.5, Procedure I & II (High Temp Storage 70 °C)

Temperature Shock ..... Cycles between -30 °C and 60 °C  
 MIL-STD-810G, Method 503.5, Procedure I-C

Humidity ..... 90% relative humidity with temperatures between -30 °C and 60 °C MIL-STD-810G, Method 507.5, Procedure II

Altitude ..... 4,572 m at 23 °C to 12,192 m at -30 °C  
 MIL-STD-810G, Method 500.5, Procedure I, II & III

Vibration ..... General minimum integrity and loose cargo tests, MIL-STD-810G, Method 514.6, Procedure I & II, Category 5

Solar Exposure ..... Survives prolonged UVB exposure, MIL-STD-810G, Method 505.5, Procedure II

Chemical Exposure ..... Resistant to mild alkaline and acid cleaning solutions, fuel hydrocarbons, alcohols and common vehicle and factory machine lubricants

## ELECTRICAL

Processor ..... 1.0 GHz, Texas Instruments DM3730

Memory ..... 512 MB DDR SDRAM; ~10 MB reserved

Storage ..... 8 GB onboard non-volatile NAND Flash; ~50 MB reserved

Expansion ..... 1x microSD/SDHC

Display ..... 3.5", 480 x 640 pixel (VGA) 16-bit color TFT with LED backlight

Batteries ..... 5200 mAh Li-ion rechargeable module<sup>1</sup>

I/O ..... USB host and client, power, headset jack

GPS accuracy ..... 2-4 m SBAS corrected<sup>2</sup>

Radios ..... Bluetooth 2.0 + EDR; WLAN: Wi-Fi (802.11b/g); WWAN: Dual Mode 3.75G GSM/CDMA

## CERTIFICATIONS:

FCC, CE, R&TTE, IC (Canada), A-tick, C-tick, GCF compliant, RoHS compliant, Section 508 compliant, PTCRB, SAR, AT&T network certified, Verizon, Wi-Fi Alliance certified, MIL-STD-810G, IP68



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