

# Nomad UX Operation Guide

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**Table of Contents**

Table of Figures ..... 2

1. Introduction ..... 3

    1.1. Important Safety Note ..... 3

    1.2. Product Introduction..... 4

        1.2.1. Product Purpose..... 4

        1.2.2. Interfaces and Indicators ..... 4

            1.2.2.1. LED indicators..... 5

            1.2.2.2. Base unit physical interfaces..... 6

    1.3. Technical Support ..... 6

2. Specifications ..... 6

**Table of Figures**

Figure 1 Front Panel ..... 4

Figure 2 Back Panel ..... 5

# 1. Introduction

## 1.1. Important Safety Note

Any usage of the equipment in a manner not specified by the manufacturer may impair features related to safety and user protection.

*Tout usage de cet équipement, qui n'est pas conforme aux spécifications du fabricant, peut affecter les fonctions relatives à la sécurité et la protection de l'utilisateur*

*This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.*

*Changes or modifications not expressly approved by Spirent Communications could void the user's authority to operate the equipment.*

*Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:*

*—Reorient or relocate the receiving antenna.*

*—Increase the separation between the equipment and receiver.*

*—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*

*—Consult the dealer or an experienced radio/TV technician for help.*

*This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.*

*Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de*

*brouillage, et (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.*

## **1.2. Product Introduction**

The following sections provide a high-level overview of the unit.

### **1.2.1. Product Purpose**

The unit is designed to measure mobile device performance. The unit is utilized to provide metrics for voice quality, voice delay, call initiation, call retention, call setup time, loss of network, and Bluetooth voice performance. This unit is intended to be used in conjunction with Spirent Nomad software. Hardware drivers and detailed operations instructions are included with the software distribution.

### **1.2.2. Interfaces and Indicators**



**Figure 1 Front Panel**



Figure 2 Back Panel

### 1.2.2.1. LED indicators

Indicator	Function
L1, L2, L3, L4, L5, L6	<p>Indicates the status of the link over the active interface for the given channel. For example, when utilizing the Bluetooth interface, the LED indicates the status of the Bluetooth link. The general behavior is as follows:</p> <ul style="list-style-type: none"> <li>• <b>Dark</b> – Channel is disabled</li> <li>• <b>Green</b> – Channel is enabled for Narrowband Analog</li> <li>• <b>White</b> – Channel is enabled for Wideband Analog</li> <li>• <b>Cyan (Flashing)</b> – Bluetooth initialization</li> <li>• <b>Cyan (Solid)</b> – Bluetooth initialized</li> <li>• <b>Blue (Flashing)</b> – Bluetooth Pairing “On”</li> <li>• <b>Blue (Solid)</b> – Bluetooth is Paired</li> <li>• <b>Yellow (Flashing)</b> – Outgoing call setup</li> <li>• <b>Yellow (Solid)</b> – Outgoing call in progress</li> <li>• <b>Magenta (Flashing)</b> – Incoming call setup</li> <li>• <b>Magenta (Solid)</b> – Incoming call in progress</li> <li>• <b>Red</b> - Overdrive</li> </ul>
Pwr	<p>Light located on top of unit in the Spirent Logo. When lit, indicates that power is applied to the unit.</p>

### 1.2.2.2. Base unit physical interfaces

Interface	Description
HD1, HD2, HD3, HD4, HD5, HD6	Interface for High Definition Audio
PC	USB interface for communication with the PC
GPS	Interface for communication with a GPS device.
+12V	Power supply interface.

## 1.3. Technical Support

If you need product assistance or want to report problems with the product or the documentation, please contact us.

### Mailing address:

Spirent Service Assurance, Device and E2E Support Services  
Spirent Communications  
5280 Corporate Drive, Suite A100  
Frederick, MD 21703  
USA

### Phone:

Toll Free: 1-800-SPIRENT  
International: +1-818-676-2616

**Email:** [support@spirent.com](mailto:support@spirent.com)

**Website:** [support.spirent.com](http://support.spirent.com)

## 2. Specifications

### Physical Specifications

Dimensions (H x W X D)	2.2 in x 12.5 in x 7.2 in
Weight	3.4 lbs
Case material	Plastic
Communication interfaces	Bluetooth, Analog, USB, GPS

### Power Specifications

AC operations	Requires external AC adapter. Adapter specifications: Input – 0.5A, 120 VAC at maximum load
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	0.25A, 230 VAC at maximum load Output – 12 V, 1.0 amps
Maximum power usage	12 Watts
Maximum heat dissipation	12 Watts

#### Environmental Requirements

Operating temperature	0 to 55°C
Storage temperature	-20 to 70°C
Humidity tolerance	5 to 85% RH at 40°C