Robust DECT handset for voice and messaging in demanding environments

I766 IP DECT Handset

Overview

NEC’s I766 IP DECT Handset is a powerful communications tool and with its ruggedized design, it is ideal for the most demanding environments such as in healthcare, manufacturing and industrial settings.

- Provides many call control features that seamlessly integrate with NEC’s communications platforms
- Offers any place accessibility, improving customer satisfaction, while users keep full control over their presence
- Enables easy access to valuable unified communications tools, including central directory access, presence and extensive messaging and alarming features
- Offers additional protection for users with the man-down function, SOS alarm key, pull cord and location detection capabilities
- Provides an intuitive user interface with color display and icon-based menus
- Offers dual- and rack chargers – enabling the charging of additional batteries
- Bluetooth headset connectivity provides freedom, comfort and flexibility
- DECT compliance for high quality speech and security
- High definition audio in line with CAT-iq

At a Glance

- Very sturdy, yet appealing design
- Large 2.4-inch, high resolution display
- High definition audio in line with CAT-iq including hands-free mode
- Powerful text and alarm messaging capabilities
- Vibrate setting
- Micro USB, MicroSD card
- Bluetooth (also BTLE)
- Desk- and rack chargers
- RTLS (Real-time Location System) via DECT signal strength and beacons
- IP65 dust and water protection
## Features

<table>
<thead>
<tr>
<th>Category</th>
<th>Features</th>
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</table>
| **Call handling** | - Automatic call answer  
- Caller log  
- CLI (name and number support)  
- Last number redial  
- Recall/hold (enquiry)  
- Standby time up to 160 hours  
- Call reject option  
- HD audio and seamless handover  
- On-hook number preparation  
- Silent Charging  
- Talk time up to 16 hours |

| **Design**        | - Robust design for use in professional and industrial environments  
- LED indication (4 colors) for e.g. missed call and MWI Ambient noise reduction  
- Dust and water resistance: IP65  
- HAC compliant |

| **Directory**     | - Corporate directory  
- Personal phone book with multiple numbers per contact |

| **Display**       | - Color graphic 2.4" TFT display, 240 x 320 pixels (256K) compliant  
- Illuminate display: on incoming calls and message  
- Power saving mode: display dim lit or completely off  
- Date & time indication: synchronized with PBX clock  
- Character set: WideChar (UTF160)  
- LCD Backlit |

| **Headset**       | - Wired headset support (3.5 mm)  
- Bluetooth headset |

| **Keys**          | - 12 keypad keys (0..9, *, #) with text mode support  
- 4 function keys for speed dialing and menu shortcuts  
- Recall (enquiry) key combined with on-hook key  
- Menu navigation keys: up, down, left and right and OK  
- Distinctive SOS alarm key  
- Keypad backlit  
- Key lock key  
- On- and off-hook: 2 separate keys  
- Power on/off key combined with off-hook key  
- Soft keys: 3, menu dependent function  
- Increase and decrease volume  
- Menu key  
- Speakerphone key |

| **Localization**  | - Supported languages: 14  
- Triple frequency band  
- Multiple (RF) power levels |

| **Memory card (optional)** | - Storage of configuration and subscription data, personal phone book and caller filter  
- Easy subscription to another handset by transferring the memory card  
- Blocking of changes to the configuration settings  
- Easy (pre-)installation by programming the memory card  
- Memory card type: MicroSD |

| **Menu**          | - Easy menu programming |

| **Messaging**     | - Messaging (LRMS) support  
- Support of different urgencies/priorities: Normal, urgent and emergency  
- Message waiting (voicemail)  
- Message broadcast support  
- Set-up of voice call to call back number in message |

| **Mobility**      | - Antenna diversity  
- Multiple subscriptions DECT systems: 10 |

| **Other features**| - Automatic key lock  
- Man down detection: detection of non-vertical position leads to dialing a programmed destination or to sending an alarm message  
- Optional RFID module (DLA) for location detection  
- Accessory features: Calculator, stopwatch and alarm clock  
- Pull cord for personal safety support |

| **Sound/Audio**   | - Adjustable ringer volume  
- Loudspeaker mode/hands free  
- Trembler  
- Microphone mute  
- Silent ring support  
- Adjustable earpiece/loudspeaker volume |

| **Security**      | - Automatic encryption for secure calls |

| **Service/Maintenance** | - Software upgrading via air interface\(^2\)  
- Software upgrading via USB interface  
- Backup of local data via memory card |

| **User data**     | - Internal memory for storage of configuration data, personal phone book, messages, caller log, caller filter and calendar entries  
- Optional memory card |

| **User interface**| - Icon driven menu  
- Configurable LED (4 colors) indicator, e.g., for missed call and message waiting  
- Ringer tones/melodies: 20  
- Selectable display background  
- Status line indicators in the display  
- Distinctive melodies for external and internal calls, messages and priorities and per contact in the local phone book  
- Audible indicators are user selectable |

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1) Features depend on the capabilities of the PBX and the DECT system used  
2) Needs to be supported by the DECT system
### Physical Characteristics

| Dimensions          | • Handset: 145 x 55 x 24 mm  
|                     | • Charger: 77 x 77 x 61 mm  
|                     | • Charger Rack: 462 x 77 x 61 mm  
| Weight              | • Handset: 123 g  
|                     | • Charger: 78 g  
|                     | • AC Adapter: 25 g  
| Protection          | • Handset: IP65  
| Range               | • Indoor: 50 m max  
|                     | • Outdoor: 300 m max  
| Power Supply        | • Handset: 3.7V, 1100mAh Lithium-ion battery  
|                     | • Chargers - (EU mains plug, USB output / multi-region mains plug, USB output):  
|                     |  - Input: 100-240VAC/50/60Hz/250mA  
|                     |  - Output: 5VDC/1000mA  
|                     | • Charger rack (multi region mains plug, 5 mm DC plug)  
| Color and Finishing I766 | • Handset: Black/Grey  
|                     | • Desktop charger: Black  
|                     | • Charger rack: Black  
| Audible indicators  | Selectable audible indicators:  
|                     | • Key click  
|                     | • Charger warning  
|                     | • Coverage warning  
|                     | • Confirmation tone  
| Status line indicators | Status line indicators in the display are:  
|                     | • Battery condition  
|                     | • Caller filter active  
|                     | • Field strength  
|                     | • Key lock active  
|                     | • Loudspeaker active  
| LED indicators      | Four of the following user selectable indicators can be assigned to the indicator LED:  
|                     | • Battery low  
|                     | • Bluetooth  
|                     | • Charging  
|                     | • Text message  
|                     | • Silent Charging  
|                     | • Text or voice message  
|                     | • MicroSD memory card  
| Supported menu languages | The handset supports 14 selectable languages: Danish, Dutch, English, French, German, Greek, Italian, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Turkish  
|                     | 3) The radio coverage of DECT handsets depends on the environment and the presence of obstacles  
|                     | 4) The mains plug contains a changeable part for the different power plugs  
| Transmission & Frequency | Transmitted radio RF power: Less than 250 mW  
|                     | Average Radio RF power: 10mW  
|                     | Frequency band EMEA: 1880 – 1900 MHz  
|                     | Frequency band China: 1900 – 1920 MHz  
|                     | Frequency band Latin America: 1910 – 1930 MHz  
|                     | Frequency band North America: 1920 – 1930 MHz  
| Environmental Conditions | Temperature range: -10°C to +55°C  
|                     | • Transport: -40°C to +70°C  
|                     | • Storage: -15°C to +55°C  
|                     | Relative Humidity: Operating: 10 to 95%  
|                     | • Transport: 10 to 100%  
|                     | • Storage: 10 to 95%  
| Package content     | I766 with spring belt clip  
|                     | Pull cord  
|                     | Lithium-ion battery pack (1100 mA)  

### Accessories

| Accessories          | • Swivel Belt Clip Set  
|                     | • Spring Belt Clip Set  
|                     | • Battery pack  
|                     | • Desktop Charger with adapter  
|                     | • Charger rack (6 handsets) with AC Adapter  
|                     | • Bluetooth headset  
|                     | • Wired headset  
|                     | • DLA locator unit  
|                     | • MicroSD memory card  

### Compatibility

**Platform Compatibility**

| IP DECT | • Aspire, IPC500, SV8100 and SV9100  
|         | • 2000IPS, SV8300 and SV9300  
|         | • SV7000, SV8500 and SV9500  
|         | • IS3000 with DECT or IP DECT  
|         | • SIP@Net  
|         | • XN120, IPC100, SV8100 and SV9100  
|         | • Certified SIP enabled PBXs or SIP servers  
|         | • Certified systems of Alcatel Lucent, Cisco and Broadsoft  

**Integrated Bluetooth**

| Bluetooth profile | • Bluetooth protocol 3.0+ EDR + 4.0 (BLE)  
|                   | • Headset profile (HSP) 1.2  
|                   | • Hands-free profile (HFP) 1.6  

5) The transmitted Radio RF power is according to local regulations
6) The I766 handset has a triple frequency band and can be used in the EMEA, American and Chinese DECT frequency band
## Directives and Regulation

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## Access Point

- **Earpiece**
- **Noise-cancelling Microphone**
- **Volume up**
- **Volume down**
- **Key Lock**
- **Charging contacts**
- **Status LEDs**
- **DLA slot**
- **Headset jack**
- **Speaker**
- **2.4 inch Display**
- **Pull cord jack**
- **Soft Keys**
- **Menu**
- **Select/OK**
- **On hook/Clear/Power**
- **Keypad (0-9, *, #)**
- **Function keys (F1-F4)**
- **Microphone**
- **USB connector**

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