

Robust DECT handset for voice and messaging in demanding environments

I766 IP DECT Handset



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

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



Features

Call handling¹	<ul style="list-style-type: none"> • Automatic call answer • Caller log • CLI (name and number support) • Last number redial • Recall/hold (enquiry) 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Robust design for use in professional and industrial environments • LED indication (4 colors) for e.g. missed call and MWI Ambient noise reduction 	<ul style="list-style-type: none"> • Dust and water resistance: IP65 • HAC compliant
Directory	<ul style="list-style-type: none"> • Corporate directory 	<ul style="list-style-type: none"> • Personal phone book with multiple numbers per contact
Display	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Date & time indication: synchronized with PBX clock • Character set: WideChar (UTF160) • LCD Backlit
Headset	<ul style="list-style-type: none"> • Wired headset support (3.5 mm) 	<ul style="list-style-type: none"> • Bluetooth headset
Keys	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Supported languages: 14 • Triple frequency band 	<ul style="list-style-type: none"> • Multiple (RF) power levels
Memory card (optional)	<ul style="list-style-type: none"> • Storage of configuration and subscription data, personal phone book and caller filter • Easy subscription to another handset by transferring the memory card 	<ul style="list-style-type: none"> • Blocking of changes to the configuration settings • Easy (pre-)installation by programming the memory card • Memory card type: MicroSD
Menu	<ul style="list-style-type: none"> • Easy menu programming 	
Messaging	<ul style="list-style-type: none"> • Messaging (LRMS) support • Support of different urgencies/priorities: Normal, urgent and emergency 	<ul style="list-style-type: none"> • Message waiting (voicemail) • Message broadcast support • Set-up of voice call to call back number in message
Mobility	<ul style="list-style-type: none"> • Antenna diversity 	<ul style="list-style-type: none"> • Multiple subscriptions DECT systems: 10
Other features	<ul style="list-style-type: none"> • Automatic key lock • Man down detection: detection of non-vertical position leads to dialing a programmed destination or to sending an alarm message 	<ul style="list-style-type: none"> • Optional RFID module (DLA) for location detection • Accessory features: Calculator, stopwatch and alarm clock • Pull cord for personal safety support
Sound/Audio	<ul style="list-style-type: none"> • Adjustable ringer volume • Loudspeaker mode/hands free • Trembler 	<ul style="list-style-type: none"> • Adjustable earpiece/loudspeaker volume • Microphone mute • Silent ring support
Security	<ul style="list-style-type: none"> • Automatic encryption for secure calls 	
Service/Maintenance	<ul style="list-style-type: none"> • Software upgrading via air interface² • Software upgrading via USB interface 	<ul style="list-style-type: none"> • Backup of local data via memory card
User data	<ul style="list-style-type: none"> • Internal memory for storage of configuration data, personal phone book, messages, caller log, caller filter and calendar entries 	<ul style="list-style-type: none"> • Optional memory card
User interface	<ul style="list-style-type: none"> • Icon driven menu • Configurable LED (4 colors) indicator, e.g., for missed call and message waiting • Ringer tones/melodies: 20 • Selectable display background 	<ul style="list-style-type: none"> • 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

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	<ul style="list-style-type: none"> • Handset: 145 x 55 x 24 mm • Charger: 77 x 77 x 61 mm • Charger Rack: 462 x 77 x 61 mm
Weight	<ul style="list-style-type: none"> • Handset: 123 g • Charger: 78 g • AC Adapter: 25 g
Protection	<ul style="list-style-type: none"> • Handset: IP65
Range	<ul style="list-style-type: none"> • Indoor: 50 m max³ • Outdoor: 300 m max³
Power Supply	<ul style="list-style-type: none"> • Handset: 3.7V, 1100mAh Lithium-ion battery • Chargers - (EU mains plug, USB output / multi-region mains plug, USB output): <ul style="list-style-type: none"> - Input: 100-240VAC/50/60Hz/250mA - Output: 5VDC/1000mA • Charger rack (multi region mains plug, 5 mm DC plug)
Color and Finishing I766	<ul style="list-style-type: none"> • Handset: Black/Grey • Desktop charger: Black • Charger rack: Black
Audible indicators	Selectable audible indicators: <ul style="list-style-type: none"> • Key click • Coverage warning • Charger warning • Confirmation tone
Status line indicators	Status line indicators in the display are: <ul style="list-style-type: none"> • Battery condition • Message waiting • Caller filter active • Microphone mute • Field strength • Missed call • Key lock active • Ringer off • Loudspeaker active
LED indicators	Four of the following user selectable indicators can be assigned to the indicator LED: <ul style="list-style-type: none"> • Battery low • Silent Charging • Bluetooth • Text or voice message • Charging • Missed call • Text message • Voice message
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

Accessories

I766 handset accessories	<ul style="list-style-type: none"> • 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
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Transmission & Frequency

Transmitted radio RF power	Less than 250 mW ⁵
Average Radio RF power	10mW
Frequency band EMEA	1880 – 1900 MHz
Frequency band China⁶	1900 – 1920 MHz
Frequency band Latin America⁶	1910 – 1930 MHz
Frequency band North America⁶	1920 – 1930 MHz

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

Environmental Conditions

Temperature range	<ul style="list-style-type: none"> • Operating: -10°C to +55°C • Transport: -40°C to +70°C • Storage: -15°C to +55°C
Relative Humidity	<ul style="list-style-type: none"> • 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)

Compliance

The I766 handset carries a CE mark (European directive 1999/5/EC)	
EMC	EN 301 489-1, EN 301 489-6, EN 301 489-17
EMF	EN 50360
RF DECT	EN 301 406
RF Bluetooth	EN 300 328
Safety	EN 60950-1:2006 + Amendments
SAR	EN 62209-1, EN 62209-2
Integrated Bluetooth	Bluetooth protocol 3.0+ EDR + 4.0 (BLE) Headset profile (HSP) 1.2 Hands-free profile (HFP) 1.6

Compatibility

Platform Compatibility IP DECT	<ul style="list-style-type: none"> • 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
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Directives and Regulation

European Union	<ul style="list-style-type: none"> • R&TTE directive 1999/5/EC • EMC directive 2004/108/EC • LVD directive 2006/95/EC • ROHS directive 2011/65/EU • WEEE directive 2012/19/EU • ERP directive 2009/125/EC
USA and Canada	<ul style="list-style-type: none"> • FCC part 15C, 15D • RSS 210, RSS 213 • HAC/VC

Access Point



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