



## DECT handset ML440

Multiline mobile handset for use in office environments

### At a Glance

- True on-site mobility
- Cost-effective solution
- Proven technology
- Crystal clear speech
- Seamless handover in multi-cell IP DECT
- Secure air interface through powerful encryption
- Seamless integration with PBX
- Supported on SV8100 systems

The DECT handset ML440 is a multi-line handset ideally suited for use in office as well as in demanding environments, satisfying the most advanced requirements for voice communications in a professional business environment. The ML440 provides mobility, flexibility and accessibility, without compromising on comfort and ease of use. It offers a robust design, large display, easy to use keyboard and dual charger.

The DECT handset ML440 brings mobile communications to a higher level:

- High definition audio
- Anytime, anyplace contact, thus improving customer satisfaction
- Provides valuable information to the user, including central directory access, personal phone book and calendar entries
- A robust design and intuitive user interface with colour display and icon based menus
- A dual charger allowing an additional battery to be charged
- Provides freedom, comfort and flexibility to the user with options such as headset and built-in trembler
- Gives user full control over their accessibility
- Provides many different call control features seamlessly integrated with the PBX
- Complies with the DECT standards for high speech quality and security

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## ML440 DECT handset features

<b>Handset Battery</b>	
Battery Type	Lithium-ion (1100mAh)
Battery lifetime	Talk time > 20 hours
Standby min. 160 hours	
<b>Interface</b>	
Wired Headset interface	2.5 mm standard jack
Wireless Headset interface	No
SIM Card reader	No
<b>Desktop Charger</b>	
Power (AC/DC)	Input: 100-240 VAC 50-60Hz (90 – 265 VAC) Output Nom: 5.5VDC 600mA Type: Switching mode for different country variants like EU/US/UK/AU Only EU/UK/AU AC plugs will be optional included in the product
Power Jack	Connector: 5.5mm DC jack
Charging time	Empty battery recharged in < 6 hours
Charging slot	One for handset, one for spare battery
LED indication	Two LEDs for indication.
<b>Handset Display</b>	
Type	262K TFT type Color LCD with backlight
Number of lines	2" 176 x 220 pixel display. Each line 16 pixel high. 1 line status 6 lines for content (menus e.g.) 1 line for soft keys
Number of characters for text line	24
Character set	Unicode Standard 4.1
<b>Keys Assignment</b>	
Total 31 keys	CCITT (123456789*0#) Three Soft keys (left, middle and right) 5 Navigation keys (left, right, up, down, OK) Off-hook key End call key Speakerphone key Menu key three side keys (volume up, down, mute) 4 programmable backlighted function keys
<b>LED</b>	
LCD backlight	Yes, white LEDs
Message LED	Dual colour LED (RED, GREEN) to provide three colour message indications (RED, GREEN, YELLOW).
Keypad backlight	Yes
Programmable key backlight	Red LED for each key
Speakerphone on	Red LED
<b>Vibrator feature</b>	
Vibrator Mode	Yes
<b>RF</b>	
Frequency Bands	1880 – 1900 MHz (EU)
Protocol	Support both GAP DECT, DECT 6.0 and CAT-iq (1.0 based)
Output Power	For EU < 250mW
Range	Up to 50m indoor and 300 m outdoor
Antenna	Two antennas for diversity
<b>Software update</b>	
Downloadable	Yes, by means of wired interface through headset jack to PC.
Firmware upgrade through the Air	Yes, through IP DECT
<b>Others</b>	
Removable belt-clip	Yes
HAC compliant	Yes

Applications	
Alarm Clock	Yes
Reset to factory defaults	SW-Reset: via Service-Menu
Auto answer	Yes – Any key/Auto hook off
Automatic encryption (secure calls)	Yes – according to DECT standard
Call duration display	Yes
Note: Only at the end of call	
Missed call log	Yes
Call reject option	Yes
Calling Line Identification (CLIP)	Yes
Calling name support	Yes – when matching with local phonebook or when received from the DECT system
Central directory support	Yes
Date / time display	Yes - Time retrieved from the DECT system
Date / time stamp logged calls / messages	Yes
External handover support	No
Headset connection (incl. microphone)	Yes Note: Only guaranteed for selected headset(s)
Illuminated display / keyboard	Yes
Illuminated keyboard	Yes
Key click on/off	Yes
Keypad lock	Yes
Loudspeaker for monitoring / hands free	Yes
Microphone mute	Yes
Multiple language support	Yes
Last number redial list	Yes, at least redial option from last called number
Pre-dial number preparation	Yes, including correction possibility
Personal phone book	Yes, with at least 100 entries
Ringer mute during call (silence)	Yes
Ringer on / off	Yes
Silent charging	Yes
Ringer Volume	Yes - 6 steps + mute
NEC I-SIP	Yes, SV8100 stimuli support for In-Context Prompts
Technical Features	
Service Menu	This block is used to identify features not seen/used by the end-user By means of a special key sequence the service menu can be accessed. This special menu enables some special feature like: Hardware and software version of the handset Automatic call set-for testing purposes Site Survey Mode Master Reset

## Physical characteristics

Dimensions	
Handset: 168.4x47.8x24.2 mm	
Weight	
Handset: 120 g	Charger: 137 g
AC Adapter: 94 g	Charger Rack: 1600 g
AC Adapter Charger Rack: 339 g	
Protection	
Handset: IP40	
Range	
Indoor: 50 m max 4)	Outdoor: 300 m max 4)
Colour and Finishing	
Handset: Black with dark grey keys	
Desktop Charger: Black	

### Supported Menu languages

The handset supports 14 selectable languages:  
Danish, Dutch, English, French, German, Greek, Italian, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Turkish

## ML440 handset package content

### ML440 Package contents

- ML440 handset with belt clip
- Lithium-ion battery pack
- Belt clip cover

## ML440 handset accessories

### ML440 handset accessories

- Battery pack

## Environmental conditions

Temperature Range
<b>Operating:</b> 0°C to +40°C
<b>Transport:</b> -25°C to +70°C
<b>Storage:</b> -5°C to +45°C
Relative Humidity
<b>Operating:</b> 10 to 95%
<b>Transport:</b> 10 to 100%
<b>Storage:</b> 10 to 95%

## Compliance

Compliance handset ML440
The ML440 handset carries a CE mark (European directive 93/68/EEC)
<b>EMC:</b> EN301 489-1, EN301 489-6
<b>EMF:</b> EN50360
<b>DECT:</b> EN301 406, EN300 175 EN 300 444
<b>Safety:</b> EN 60950-1

## Directives and regulations

Directives and regulations Europe
R&TTE directive 1999/5/EC
EMC directive 2004/108/EC
LVD directive 2006/95/EC
ROHS directive 2002/95/EC and WEEE directive 2002/96/EC
Directives and regulations North America
FCC part 15C, 15D
RSS 210, RSS213
HAC/VC

## Transmission

Transmission and frequency
<b>Transmitted Radio RF power:</b> Less than 250 mW (6)
<b>Average Radio RF power:</b> 10mW
<b>Frequency band EMEA:</b> 1880 - 1900 MHz
<b>Frequency band China:</b> 1900 - 1920 MHz
<b>Frequency band: 7)</b>
<ul style="list-style-type: none"> <li>Latin America 1910 - 1930 MHz</li> <li>North America 1920 - 1930 MHz</li> </ul>

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