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OmniPCX 4400

DECT - TECHNICAL DESCRIPTION OF MOBILE REFLEXES™ HANDSETS

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A new range of DECT handsets is now available for the Alcatel OmniPCX 4400 PABX's. This range, called the Alcatel Mobile Reflexes™ consists of three different models :

- 1** Mobile 100 Reflexes.
Middle-of-the-range handset offering an adequate solution for most requirements when on the move
- 2** Mobile 200 Reflexes.
Top-of-the-range handset with aluminium finish, a Li-Ion battery (very light) and a built-in vibrator
- 3** Mobile 200 Ex Reflexes.
Available from mid-2001. Handset designed to comply with the safety standards for use in sensitive environments

1. HANDSETS

Physical characteristics



Functions	Mobile 100 Reflexes	Mobile 200 Reflexes	Mobile 200 Ex Reflexes
Graphic display	96x48	96x48	96x48
Backlight		x	x
Vibrator		x	
Navigator	x	x	x
Headset connection	x	x	x
Keypad	Elastomer	High quality	High quality
Battery pack (⚡ Note)	Ni-MH	Li-Ion	Li-Ion
Loudspeaker	x	x	x
Belt clip	x	x	x
Colour	Dark green	Aluminium	Aluminium
Dimensions (mm)	126x50x21	126x50x21	126x50x21
Weight (g)	125	110	110

Note

The Ni-Mh and Li-Ion battery packs are not interchangeable between the Mobile 100 Reflexes and Mobile 200 Reflexes handsets. The Mobile 100 Reflexes functions only with a Ni-Mh battery and the two Mobiles 200 Reflexes models use only a Li-Ion battery (the handset cannot be switched on if the wrong battery type is inserted).

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2. CHARGERS AND ACCESSORIES

2.1. Chargers

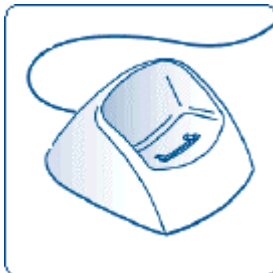
The Mobiles Reflexes handsets are listed separately and do not come with a battery charger. The charger must therefore be ordered separately. Various models are available, and all are compatible with the Ni-MH and Li-Ion batteries used in the Mobiles 100/200 Reflexes handsets. The Mobile 200 Ex Reflexes model is not battery charger compatible and must be used with a dual desktop charger (separate spare battery charged outside handset).

Note

Whatever model of charger is used, the maximum charge time (with battery connected to handset) is the same : Mobile 100 Reflexes : 5 hrs Mobile 200 Reflexes : 3 hrs.

**Corded charger :**

- The simplest model ; the handset can be used to make calls while charging.
- Consists of a power cord with a connector at one end and an AC/DC mains adapter at the other.

**Basic Desktop charger :**

- Simple model which also acts as a handset stand
- Consists of a stand and a power cord (fixed) with an AC/DC mains adapter at the end.

**Dual Desktop charger :**

- Charges both the handset battery and one additional battery.
- The charger consists of :
 - a stand with two charging slots (telephone and additional battery) and a charge indicator light for the additional battery,
 - a detachable power cord with AC/DC mains adapter.

Note

The maximum charge time for the separate battery is 2½ hrs.



Voice Desktop charger :

- Functions both as a charger and as a quality hands-free telephone base.
- The charger consists of :
 - a single-slot stand with :
 - ◆ a built-in loudspeaker and microphone,
 - ◆ two +/- volume adjustment buttons,
 - ◆ a call supervision indicator light (off hook, microphone mute),
 - a detachable power cord with AC/DC mains adapter.

2.2. Carrying cases

The two models in the Alcatel catalogue have a rotating belt clip and charging can be carried out when the handset is in the case :

- **Integral Office model.**
Integral light carrying case suitable for office use.
- **Integral Industrial model.**
Integral carrying case for industrial use (better protection against shocks and dust).

2.3. Headsets

All Mobiles 100/200/200Ex Reflexes models come with a headset connection in the form of a 2.5 mm jack. However, this connection is not compatible with the headsets in the DECT 4074 range since the electrical wiring has been reversed to make it compatible with the standard norms.

There are three headset models in the Alcatel catalogue :

- 1 Express™ headset.**
Monaural headset mounted on a headband or earhook and recommended for office use.
- 2 Profile™ headset.**
Securely fitting binaural headset, recommended for use on the move or in noisy environments..
- 3 Noise-proof headset.**
Binaural noise-proof headset recommended for use in extremely noisy environments (airports, railway stations, etc.).

OmniPCX 4400**DECT - TECHNICAL DESCRIPTION OF
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This device is for technical maintenance / installation use with the Mobiles 100/200 Reflexes handsets. It uses specific software to download handset software updates or a customised logo screen from a PC.



The device consists of :

- a programming stand with :
 - a telephone slot,
 - an indicator light (not used),
 - a fixed cable for connection to the PC's COM port,
- a fixed power cord with AC/DC mains adapter.
- a PC diskette containing the downloading software and a user guide.

3. OPERATING SOFTWARE COMPATIBILITY

- The Mobiles 100/200 Reflexes handsets have identical software, the only difference being whether the vibrator and backlight functions are included. The minimum version number corresponding to the beta test phase is **30.20** i.e. :
 - 70 30 20 for the Mobile 100 Reflexes,
 - 60 30 20 for the Mobile 200 Reflexes.

Note

A version 24.12 has been released for Office 4200 range PABX's.

- Depending on the system with which they are used, the Mobiles 100/200 Reflexes handsets operate either in advanced AGAP mode (GAP+) or in standard GAP mode. The advanced telephony functions will only operate in AGAP mode, a proprietary protocol restricted to the Alcatel PABX.

Note

With the OmniPCX 4400 PABX's the Mobiles 100/200 Reflexes can only function in AGAP advanced mode with the Release 4.1 (operation in GAP mode is only available from Release 3.2M).

- If Mobiles 100/200 Reflexes are to be used with an OmniPCX 4400 installation (Release $\geq$ 3.2M), this must be fitted with recent versions of the DECT sub-assemblies :
 - DECT4 boards : with CSP 7.5 (or later),
 - DECT4HB boards : with CSP 7.5 (or later),
 - IBS 3.16 terminals (or later versions).

4. INSTALLATION ON Alcatel OmniPCX 4400 SYSTEM (handset registration)

When it leaves the factory, the handset battery is delivered pre-charged. Thus, when the terminal is installed, in most cases there is sufficient charge remaining for registration.

Place the battery in the handset and check that the charge level is sufficient (full charge or half charge icon displayed); if this is not the case, set it to charge.

Start the registration function on the PABX (dectinston).

When the system is ready, carry out the procedure on the terminal.

– Step A

- Switch on the handset by pressing and holding down  and read the screen display.
- ⇒ If the handset is new (not previously assigned) and the battery charge level is sufficient, the display will show "SYSTEM 1 Auto install ?" then go to **Step B**.


SYSTEM 1
Auto install?

- ⇒ If "SYSTEM 1 Auto install ?" is not displayed, this means that the handset has already been assigned to a system; go to **Step C**.

– Step B

- ⇒ If installation does not start up the authentication function (AC code), go straight to **Step D** for the simplified procedure.
- ⇒ If the system uses an authentication code, configure the AC code as described below, then go to **Step D** to finish assigning the handset.




Launch
subscription?




Configure
AC Code?



 Code AC
.....



Select the "AC" option

Enter the "AC" code

– Step C



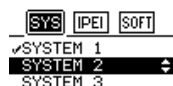
 Password?
....



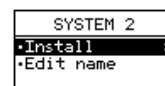
Select the "Installation" function

Enter the code (314987)

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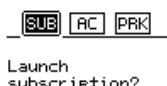
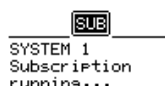
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Select a free system

Select the "Install" function then
go to step D

– Step D

- Start the registration.

Launch
subscription?SYSTEM 1
Subscription
running...

Start assigning

After registration, the handset switches automatically to the main PABX language (French).

5. UNINSTALLING HANDSETS

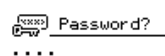
It may be necessary to uninstall a handset if it is no longer used on the system or if the terminal is being replaced. This procedure must be carried out either on the system and or on the terminal (if necessary).

IMPORTANT

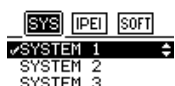
If the handset is in the area coverage and switched-on, it is recommended to carried out the system erasure (dectrm + QMCDU). In the opposite case, the data in the handset can still be erased outside the radio coverage area (see below).



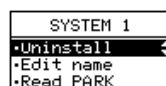
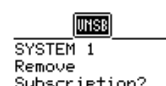
Select the "Installation" function



Enter the code (314987)



Select the system to be uninstalled

Validate the "Uninstall"
option

Confirm uninstallation



6. USE / AVAILABLE FUNCTIONS

Optimum performance from the Mobiles 100/200/200 Ex Reflexes is obtained by using a OmniPCX 4400 PABX ; this allows the use of the advanced features available with the AGAP protocol (GAP+).

6.1. Basic terminal functions (accessible in either GAP or AGAP mode)

- Keypad lock / unlock (press and hold down ).
- Activate / disable keypad beep, button beep, radio beep, vibrator (1) screen backlight (2).
- Fast toggle between ringer / vibrator (1) (press and hold down ).
- 3-setting volume adjustment, with last setting memory.
- Registration possible with 5 different GAP systems.
- Special radio test function (see paragraph 8 or technical communication about coverage test tools).

(1) Available on Mobile 200 Reflexes models.

(2) Available on Mobile 200/200 Ex Reflexes models.

6.2. Functions specific to simplified GAP mode

The following functions are normally available in GAP mode (except where the system is limited) :

- Manual choice of language for local menu.
- Choice of ringer melodies.
- Personal directory.
- Automatic number redial (local).
- MF overdialling.
- Calibrated cutoff.

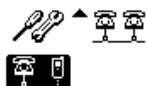
6.3. Functions specific to advanced AGAP mode (GAP+) with OmniPCX 4400 Release 4.1

An overview of the main functions available on the PABX :

- Call diversion and disable call diversion.
- Consult / send voice and text messages.
- Call by name / directory.
- Personal directory (system stored).
- Automatic language configuration.
- Choice of ringer melodies.
- Interactive functions during call.

7. MAINTENANCE PROCEDURES

7.1. Establishing which software version is used in the handset



Code?
....



Select the "Installation" function

Enter the code (314987)



SYS	IPEI	SOFT
✓SYSTEM 1		
SYSTEM 2		
SYSTEM 3		



SYS	IPEI	SOFT
		01.00
60 23	11/15A33C9	
00	00/004CF48	

Version displayed

Note

Each handset model has its own identification prefix : 70 xxxx for the Mobile 100 Reflexes and 60 xxxx pour for the Mobile 200 Reflexes. The version numbers corresponding to the commercial release (Office 4200) or beta test (OmniPCX 4400) phase are :

- 70 24 12 and 60 24 12 for Office 4200,
- 70 30 20 and 60 30 20 minimum for OmniPCX 4400.

7.2. Establishing the handset's IPEI number (identity of the mobile)



Code?
....



Select the "Installation" function

Enter the code (314987)



SYS	IPEI	SOFT
✓SYSTEM 1		
SYSTEM 2		
SYSTEM 3		



SYS	IPEI	SOFT
	IPEI	
	0123012301230	

IPEI displayed

7.3. Switching the battery out of safety mode

The handset may automatically switch the battery into safety mode after a short circuit, if it is run down too low (several weeks without charging), if the charging voltage is too high, etc.; some of these may occur after the handset is dropped heavily.

When safety mode is activated the mobile switches off and cannot be switched back on.

To disable safety mode :

- remove the battery from the mobile then replace it
- place the handset (switched off) on the charger
- press the handset's "on" button while it is in the charger.

8. RADIO TEST MODE

To activate radio test mode :

- switch off the mobile by pressing and holding down .
- switch it back on by pressing ,  and  at the same time.
- when the display lights up, press and hold down .

The screen will show the state and reception level measurements.

Refer to the technical communication about coverage test tools to obtain more explanations.

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9. REFERENCES

The references given hereafter can be changed. Please check them before an order.

9.1. Handsets

Countries	Mobile 100 Reflexes	Mobile 200 Reflexes
AT	3AC05223AT	3AC05224AT
BE	3AC05223BE	3AC05224BE
CH	3AC05223CH	3AC05224CH
CZ	3AC05223CZ	3AC05224CZ
DE	3AC05223DE	3AC05224DE
DK	3AC05223DK	3AC05224DK
ES	3AC05223ES	3AC05224ES
FI	3AC05223FI	3AC05224FI
FR	3AC05223FR	3AC05224FR
GR	3AC05223GR	3AC05224GR
HU	3AC05223HU	3AC05224HU
IE	3AC05223UK	3AC05224UK
IT	3AC05223IT	3AC05224IT
LU	3AC05223LU	3AC05224LU
NO	3AC05223NO	3AC05224NO
PL	3AC05223PL	3AC05224PL
PT	3AC05223PT	3AC05224PT
SE	3AC05223SE	3AC05224SE
UK	3AC05223UK	3AC05224UK

9.2. Chargers

	All countries except IE & UK	IE & UK
Corded	3BN67126AB	3BN67126RB
Basic Desktop	3BN67116AB	3BN67116RB
Dual Desktop	3BN67115AB	3BN67115RB
Voice Desktop	3BN67115AB	3BN67115RB

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9.3. Handsets accessories

References shared by all countries noted above.

Belt Clip	
• Belt Clip (x5)	3BN67135AA
Cases	
• Integral Office	3BD52278AA
• Integral Industrial	3BD52279AA
Headsets	
• Profile	3BD52276AA
• Express	3BD52277AA
• Noise-proof	3BD52280AA
Batteries and Chargers Kit	
• Nimh Battery for Mobile 100 Reflexes	3BN67138AA
• Li-Ion Battery for Mobile 200 Reflexes	3BN67137AA
• Wall mounted charger kit for Mobile Reflexes (x5)	3BN67136AA

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