

## 9d24 MkII Cordless Handset for USA

### Features

- Cordless handset with voice, personal alarm<sup>1</sup> and messaging functions<sup>2</sup>
- Robust, dust and waterproof, IP64 classified
- Push button alarm<sup>1</sup>
- No-movement, man-down and pull-cord alarms as option<sup>1</sup>
- Location with base stations
- Large, mechanically protected and scratch-proof display
- Illuminated display and keypad
- SIM card for identity and personal settings
- Up to 10 modes with personalized settings
- 3 programmable soft keys for each mode
- 10 programmable hot keys
- Manual or automatic keypad lock
- Time and date indication
- Ring signal easily silenced
- Vibrator alert
- Separate loudspeaker for ring signal and loud-speaking function
- Sending/receiving messages (SMS)
- Two different text sizes<sup>3</sup>
- Headset connector, IP64 classified



### Technical Specifications

#### Physical

Dimensions (l x w x d):	134 x 60 x 27 mm incl. clip
Weight:	130 g incl. battery
Material:	Case: PC/ABS and TPE (free from silicone) Keypad: PC/ABS, illuminated by LED's <sup>4</sup> (light emitting diods)
Colour:	Dark grey and grey (Talker) Dark grey and Graphite (Messenger) Dark grey and Dark steel blue (Protector) Light grey and Dark steel blue (Medic Protector) Dark grey and yellow (EX-Messenger) Dark grey and yellow (EX-Protector)
Display (w x h):	128 x 64 pixel LCD, illuminated by LED's
Clip:	Hinge type (standard) or swivel type

#### Battery

Type:	750 mAh (Li-Ion)
Speech time <sup>5</sup> / stand-by time:	12 h / 120 h (no location, no active alarms) 12 h / 120 h (man-down/no-movement alarms)
Charge time:	2 h in desktop charger 4 h in charging rack

1. Protector versions only
2. Protector and Messenger versions only
3. The EX versions have the big text size only
4. The EX versions have backlight for the display only
5. Not applicable with loudspeaking function

**Volume**

Ring signal:	Adjustable in 5 steps (approx. 100 dB @ 10 cm)
Earpiece:	Adjustable in 6 steps
Headset:	Adjustable in 6 steps

**Settings**

Languages:	12 (Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Polish, Portuguese, Spanish and Swedish)
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**Phonebook**

Maximum name length:	16 characters
Maximum number length:	22 digits
Entries:	100

**Telephony**

Indication:	Ring signal (5 different), flashing LED and vibrator
Answer call:	Button press or automatically
Call list storage capacity:	20 received <sup>1</sup> , made and missed <sup>1</sup> calls with time stamp

**Messaging<sup>1</sup>**

Message length:	System dependent
Storage capacity:	20 messages (totally max 20000 characters)

**Alarm<sup>1</sup>**

Location types:	Closest DECT Base station
Alarm types:	2 push button alarms No-movement, Man-down and Pull-cord alarms as option

**DECT**

Number of subscriptions:	4 systems, automatic or manual selection
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**Environmental**

Operating temperature:	0°C (32° F) – +40°C (104° F)
Storage temperature: <sup>2</sup>	-20°C (-4° F) – +70°C (158° F)
Immunity to electromagnetic fields:	10V/m (EN61000-4-3)
Immunity to ESD:	8 kV contact discharge and 16 kV air discharge (EN61000-4-2)

**Endurance**

Enclosure protection:	IP64, EN 60529
Free fall test, standard product:	IEC 60068-2-32, procedure 1, dropped 12 times from 1 metre. Ascom approves 12 drops from 1.5 metre.
Free fall test, ATEX/IECEx product:	26.4.3 in IEC 60079-0, dropped 4 times from 1 metre. Ascom approves 12 drops from 1.0 metre.


1. System dependent feature

2. Note that storing Li-Ion batteries at high temperature dramatically reduces its capacity. For example storage around maximum temperature reduces capacity with 20% in less than a month, permanently.

*Specifications are subject to change without notice.*

## Options

Intrinsically safe classification:<sup>1, 2, 3</sup>

SIRA 05ATEX 2310  
IECEX SIR 06.0093X  
 EX II 2G, II 3D  
EX ib IIC T4  
EX ibD 22 IP64 T50°C  
CE 0470



US 2008 2002912 X  
Class I, Zone I, AEx/Ex ib IIC T4  
Class II, Div. 2, Groups E, F & G  
Tamb = -20°C to +40°C

## Accessories

- Leather case, incl. belt clip
- Belt clip, swivel type
- Standard clip
- Desktop charger
- Charging rack
- Security string
- Battery pack opener
- Battery pack opener for EX
- Headset<sup>4</sup> with hearing protection
- Headset<sup>4</sup> with microphone on boom
- Headset<sup>4</sup> with microphone integrated in cable
- Adapter for standard Peltor headset

## Compliance to US regulations and standards

Product marking: FCC ID: BXZRAID2  
US: 9FVW4NANRAID2

RF Spectrum: FCC Part 15, subpart D & Industry Canada RSS-213

SAR (Specific Absorption Rate): FCC/OET Bulletin 65 Supplement C (2001) and IEEE Std. 1528-2003, December 2003  
Normal operation 0.0081 W/kg (1 gram)  
Body worn operation 0.0255 W/kg (1 gram)

Safety: IEC 60950-1  
CB Bulletin No. 107A, May 2004

EMC: FCC Part 15 Class B

Hearing aid: Hearing aid compatible according to relevant requirements in TIA-968

## Compliance to Canadian regulations and standards

Product marking: IC: 3724B-RAID2

RF Spectrum: RSS-210

SAR (Specific Absorption Rate): RSS-102,  
Normal operation 0.0081 W/kg (1 gram)  
Body worn operation 0.0255 W/kg (1 gram)

Safety: IEC 60950-1  
CB Bulletin No. 107A, May 2004

EMC: ICES-003 Class B

Hearing aid: Hearing aid compatible according to relevant requirements in CS-03 Part V

1. Disclaimer: Explosive atmosphere; The approvals are valid exclusively for surface industry. Ascrom explosion protected handset 9d24 MkII shall therefore not be used in mining (underground) location. Ascrom Sweden AB does not support or take responsibility for any change in the product or its designation.

2. When charging an intrinsically safe ATEX/IECEX handset 9d24 MkII the desktop charger must be marked with DC2 and the Charging Rack must be marked with CR2.

3. In combination with EX-version, use approved battery types only. The battery must be marked with RAID2/ATEX on the label. For approved battery types, see EC Type Examination, IECEX Scheme Certificate of Conformity and CSA Compliance Certificate and following supplements. The document above and the EC Declaration of Conformity can be found at [http://www.ascrom.com/ws/products\\_ws.htm](http://www.ascrom.com/ws/products_ws.htm) and <http://www.iecex.com>

4. It is NOT permitted to have any headset connected to the handset in EX classified areas.

*Specifications are subject to change without notice.*

	Talker	Messenger	Protector / Medic Protector	EX-Messenger	EX-Protector
<b>Functions</b>					
SIM card with local phonebook	Yes	Yes	Yes	Yes	Yes
Central phonebook	Yes	Yes	Yes	Yes	Yes
Vibrator	Yes	Yes	Yes	Yes	Yes
Microphone on/off during call	Yes	Yes	Yes	Yes	Yes
Headset connector	Yes	Yes	Yes	Yes	Yes
Messaging*	-	Yes	Yes	Yes	Yes
Acknowledge*	-	Yes	Yes	Yes	Yes
Interactive messaging*	-	Yes	Yes	Yes	Yes
SMS (Short Message Service)*	-	Yes	Yes	Yes	Yes
Data Send*	-	Yes	Yes	Yes	Yes
Data with prefix*	-	Yes	Yes	Yes	Yes
Personal alarm *	-	-	Yes	-	Yes
Alarm with Data*	-	-	Yes	-	Yes
Location, base stations*	-	-	Yes	-	Yes
Man-down & No-movement alarm*	-	-	Option	-	Option
Pull-cord alarm*	-	-	Option	-	-

\* System dependent feature

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