



PELTOR™

## 3M™ Peltor™ Dect-Com Wireless Intercom System

A Wireless, full duplex intercom system for effortless and reliable communication

The 3M Peltor Dect-Com is a wireless intercom system for up to 8 users based on DECT technology. Peltor Dect-Com provides an outstanding communication solution for noisy environments with an unrivalled sound quality.

### Clear and reliable

The Peltor Dect-Com system from 3M provides full duplex communication, which facilitates conference calls. This system allows clear two way communication meaning that no information is missed because of interrupted transmission and the sound is distinct and clear at all times.

### Effortless

After pressing just one button on both devices, the handset is wirelessly connected to the base unit. You are then in full conference with all others who are connected to the same base. The system can be used in a voice-activated mode (VOX) to make sure that unwanted ambient sounds are not heard through the system.

Additional devices can be connected to the system, including: Line in/line out connection for external equipment; communications, radio, alarm, telephone line etc.





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### Technical details

#### Standard connection

The handset has a standard J11 connection which means all 3M™ Peltor™ standard headsets can be used with the system. This includes headsets with additional built in features including level dependent functions or FM-Radio. This customisable element of the system means that all workers within the conference can have an effectively adapted communication solution for their specific needs and working environment.

#### Technical specifications

- ▶ Digital sound quality on the 1,8 GHz band
- ▶ Allows full duplex conference of up to 8 users
- ▶ Range: 300 meters from the base unit
- ▶ The range can be expanded further by incorporating 3M™ Peltor™ Dect-Com Repeaters

#### Handset

- ▶ The volume can be adjusted on each handset.
- ▶ VOX functionality for noisy environments
- ▶ Surrounding noise level up to 130 dBA with full communication
- ▶ Compatible with all standard 3M Peltor headsets
- ▶ Can be used with electret/dynamic microphone
- ▶ Conversation time of up to 15 hours
- ▶ Standby min. 100 hours
- ▶ Weight: Handset approx. 200g (battery included)
- ▶ Belt clip

#### Base unit

- ▶ Wireless connectivity with up to 8 handsets (depending on model)
- ▶ Base unit can be connected from 9 to 28 volts.
- ▶ Comes equipped with back-up battery (2 hours)
- ▶ Base unit can be hardwired to an external communications device



Dect Com base unit can be integrated with other communication devices, such as hand held communication radios. To discuss the full options available please call: **01928 532 596**



#### FAQ's

**1. What is Dect?**

Dect stands for – digitally enhanced cordless telephone. It allows two way communication so that all users are able to communicate clearly in full conference.

**2. Can I use the 3M Peltor Dect-Com System with hearing protection?**

The handset has a standard J11 connection, which is compatible with all 3M Peltor standard headsets. Please see page 5 for more information or call **01928 532 596** to discuss your requirements.

**3. Do you need a push-to-talk button to communicate?**

No, the system can be used with or without this option.

**4. Can it be used outside?**

Yes, the system can be used outside and inside.

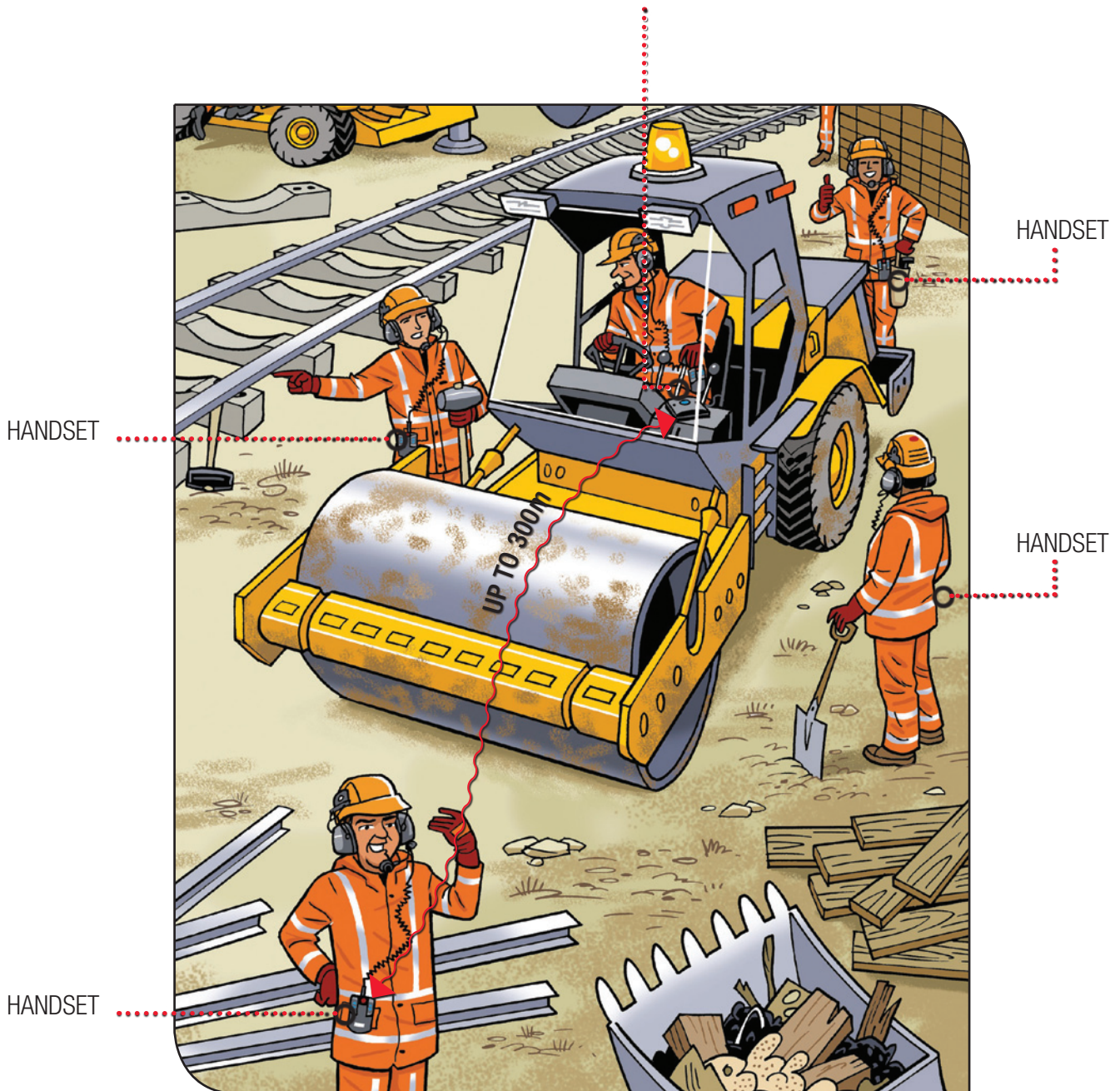
**5. Is the Dect-Com system full duplex.**

The 3M Peltor Dect-Com system is full duplex. Meaning that conversation can travel in both directions.

**6. Who do I contact for further information?**

To discuss your requirements fully, please contact our customer service helpline number: **01928 532 596**

## BASE UNIT



## Case study (Balfour Beatty)

At the end of April 2010, Balfour Beatty Rail Renewals Division took the decision to implement the use of the 3M Peltor Dect Com system as an additional enhancement to their existing hand signal system for all tandem lifting operations. This decision was taken to increase the safety and communications of this hazardous activity. The use of the full duplex Dect Com system enables both machine operators and the machine controller to be in constant communication and without the need to press any buttons, they can complete the activity at the same time. The system is centred around the Dect base unit which is mounted inside one of the machines and is powered from a 24 volt supply on the machine. Each operator then has their own handset to receive and send the communications. In turn, the handset is connected to a headset with built in speakers and microphone. The machine operators have light weight headsets as they are situated in the cabs of the machines. The machine controller has a Tactical XP headset attached to his safety helmet, which provides not only suitable hearing protection, but also the ability to hear via the level dependent function the noise from his surroundings.

After use, the system is taken away and managed by Balfour Beatty Plant Services. They recharge the batteries and replace any hygiene kits/mic tape etc to ensure the kit is fit for use on the next job.



# 3M™ Peltor™ Dect-Com Headsets & Accessories



**PELTOR™**

## Non attenuation headset

- ▶ Very high comfort due to a broad headband of sprung stainless steel which ensures even head contact pressure.
- ▶ Replaceable padding
- ▶ Built – in air ducts
- ▶ Height adjustable
- ▶ Load-relieving cord clip
- ▶ Standard version available with J11 connector.
- ▶ Available in either single sided or dual earphones
- ▶ Not CE approved as hearing protection device



MT32402

## Medium attenuation headset

- ▶ Low-profile shells for easy, comfortable to use together with other PPE
- ▶ Light weight
- ▶ Height adjustable
- ▶ Dynamic speech microphone with effective noise compensation for clear and reliable communication
- ▶ The boom mounted microphone can be quickly and easily positioned.
- ▶ Soft, wide, foam and fluid filled ear cushions and individually sprung headband wires of stainless steel provide an even and consistent distribution of pressure around the ears for the best possible comfort.
- ▶ Beam-mounted earphones effectively reduce resonance and distortion for excellent sound reproduction even in high-noise environments.
- ▶ Standard version available with J11 connector.
- ▶ Available as headband or neckband versions.



MT7HG1FA

## High attenuation standard headset

- ▶ High-attenuating shells with optimised acoustic design and excellent space for the ears for the best possible sound quality and comfort
- ▶ Microphone with effective noise compensation for clear and reliable communication
- ▶ Height adjustable
- ▶ The boom mounted microphone can be quickly positioned, and is easily handled.
- ▶ Soft, wide, foam and fluid filled ear cushions and individually sprung headband wires of stainless steel provide an even and consistent distribution of pressure around the ears for the best possible comfort.
- ▶ Standard version available with J11 connector.
- ▶ Beam-mounted earphones effectively reduce resonance and distortion for excellent sound reproduction even in high-noise environments
- ▶ Available in headband, neckband and helmet attached versions.



MT7H79A

## Dect-Com Repeaters

The Peltor DectCom Base Repeater extends the range of the Base unit to 600m.

- ▶ DCS2 – Repeater for 2 users
- ▶ DCS24 – Repeater for 4 users

|  |   |
|--|---|
|  | <b>RNR* &lt; 85dB(A)</b><br>You do not have to wear hearing protection, but it's available to your workers.   |
|  | <b>RNR* 83-85dB(A)</b><br>You are above the permitted exposure level, hearing protection is compulsory.   |
|  | <b>RNR* 87-98dB(A)</b><br>You are above the permitted exposure level, hearing protection is compulsory. Ideal for high frequency noise              |
|  | <b>RNR* 94-105dB(A)</b><br>You are above the permitted exposure level, hearing protection is compulsory. Ideal for high and medium frequency noise. |
|  | <b>RNR* 95-110dB(A)</b><br>You are above the permitted exposure level, hearing protection is compulsory. Ideal for high and medium frequency noise. |
| <b>Warning:</b><br>At levels above 95dB(A) you will need accurate noise assessment to select product correctly. Green and Yellow marked products are not for use in low frequency noise. |   |

# Introducing the 3M™ Peltor™ DECT-Com II Wireless Intercom System



## 3M™ Peltor™ DECT-Com II Wireless Intercom System

3M Peltor DECT-Com II is a wireless duplex intercom system, operating on the 1.8 GHz DECT-frequencies, which are license free in most countries. The products in the Peltor DECT-Com II family offer simple and efficient wireless duplex communication with up to 9 active users talking in full conference and additionally up to 40 listeners with the possibility to “break in” to the conference. In a system with more than 9 users any listening participant can change from listening to speaking. The earliest active speaker will then be downgraded to a listener in the conference and any other listener can follow, replacing active speakers in the order “first in – first out”.

There are two versions of the DECT-Com II main unit; base/portable units and portable units – the base/portable unit can be used as either a base or a portable.

Due to low power output and high frequency it is a short range communication system. The nominal working range is approximately 250 metres outdoors in line of sight. The working range may be shorter due to actual conditions.



### Key Features:

- ▶ Full duplex communication system
- ▶ Working range typ. 250 m outdoors / typ. 50 m indoors (line of sight)
- ▶ Ghost voice guided menu system
- ▶ Up to three simultaneous talk groups
- ▶ Volume boost
- ▶ Noise gate (voice operated)
- ▶ All-call, between the channels (and synchronised systems)
- ▶ Wireless PTT button for external radio etc. available
- ▶ Extended battery pack for longer usage time
- ▶ Wide range of accessories available

### Typical Applications

- ▶ Industry
- ▶ Construction
- ▶ Military
- ▶ Sports

### Standards and Approvals:

The units DC2811, DC2812 and DC2815 conform with the provisions set out in the R&TTE Directive 1999/5/EC and are subject of Declaration of Conformity Issued by 3M Svenska AB. Thereby they are approved for CE marking.

The testing of DC2811, DC2812 has been done in accordance to the following test standards:

EN 301 489-1 V1.6.1, EN301 489-6 V1.3.1 and EN 301 406 V1.5.1.

The unit DC2815 has been tested in accordance with the standards: EN 301 489-1:V1.6.1, EN301 489-6 V1.3.1, EN62311:2008 and EN 301 406 V1.5.1.

The products have been examined by Eurofins, Storkower Str. 38c, 15526, Reichenwalde, Germany

### Versions:

DC2811 Portable unit

DC2812 Base/Portable unit

DC2815 Ext. Base/Portable unit

### Dimensions and weight:

| Model  | H (mm) | W (mm) | D (mm) | Weight [excl batteries] (g) |
|--------|--------|--------|--------|-----------------------------|
| DC2811 | 18     | 8,3    | 4,5    | 184                         |
| DC2812 | 18     | 8,3    | 4,5    | 186                         |
| DC2815 | 18     | 8,3    | 4,5    | 202                         |