

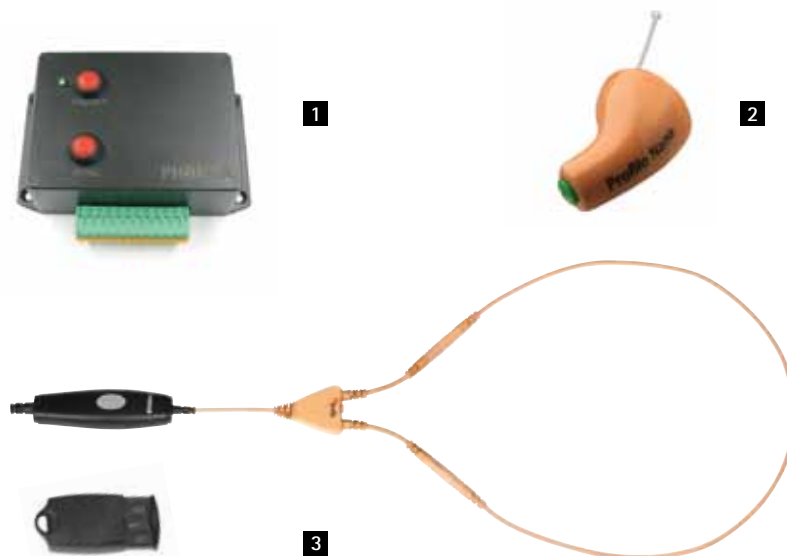
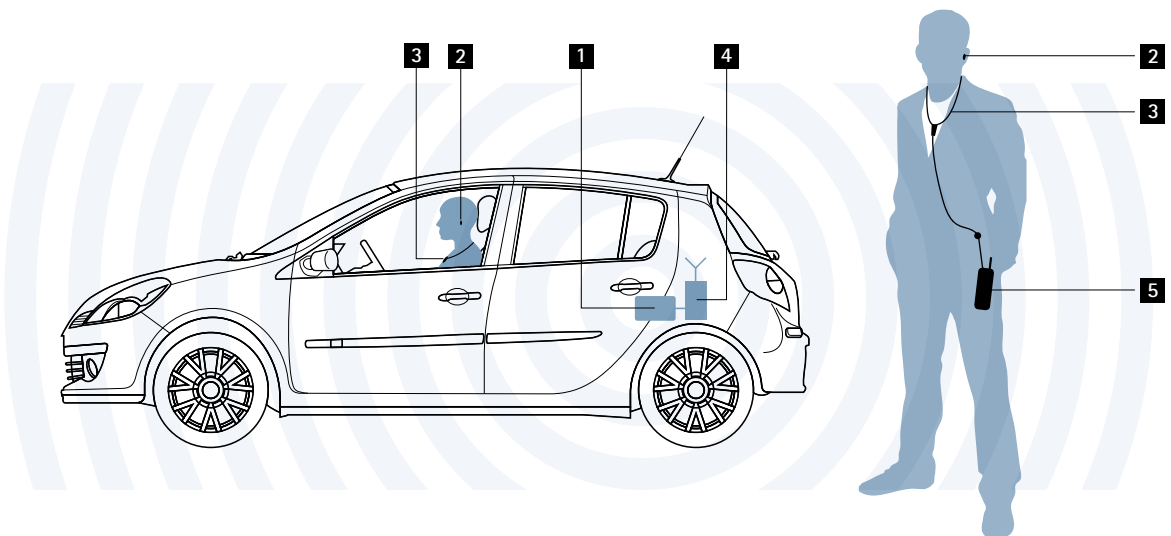
# CarKit DM

## Technical Data

### Wireless Communication for cars

The Phonak CarKit DM is a unique, state-of-the-art, encrypted wireless transmitter developed for operations vehicles engaged in covert communications.

The CarKit DM is able to broadcast two different audio sources coming from the car transceiver. If communication comes through both sources at the same time, they will be mixed together. The CarKit DM transmitter can only be used with body worn receivers equipped with Digital Modulation (DM) technology.



### CarKit DM

- 1 CarKit DM
- 2 Profilo Nano
- 3 Profilo WL-Kit DM
- 4 Mobile radio (not included)
- 5 Portable radio (not included)

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## DM technology

- DM is a new wireless technology standard which allows low delay and reliable audio broadcasts to miniature lowpower receivers. Sophisticated adaptive algorithms at different levels in the DM architecture give DM a performance level which was considered physically impossible until now. At the same time, simple pairing concepts make management and use of DM systems very easy.
- DM technology uses the globally accessible license-free 2.4 GHz band (known as an ISM band: Industry, Science and Medical). This means users of DM systems can enjoy the freedom to use their systems anywhere around the world. Servicing DM systems while traveling is also simplified, as the standard is the same in every country.
- The signal is encrypted with a robust algorithm (AES 128bits) and the synchronization process is done manually (push button in the car).

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## Technical Data

CarKit DM	
Operating temperature	-15 to +60 °C
Storage temperature	-20 to +60 °C
Encryption	AES 128bits
Supply voltage	6 - 24V
Current consumption ON	35 mA
Current consumption OFF	1 mA
Audio streaming range	Full coverage inside car
Synchronization range	Full coverage inside car
Working frequency	2.4 GHz
Technology	Proprietary protocol - frequency hopping
Size	137mm x 103mm x 52mm

Profilo WL-Kit DM	
Available lengths	65 / 75 cm (incl. 2 safety connectors)
Available neck loop extension cables	50 / 60 / 70 cm
Supply voltage	External power requested (3.3 V - 10 V DC)
Power consumption	max. 30mA

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## Spare parts

CarKit DM		Profilo WL-Kit DM	
110-3007	CarKit DM	110-3008-01	Profilo WL-Kit DM 65cm beige
		110-3008-06	Profilo WL-Kit DM 65cm black
		110-3009-01	Profilo WL-Kit DM 75cm beige
		110-3009-06	Profilo WL-Kit DM 75cm black
		110-3010-01	Profilo WL-Kit DM 3.5mm socket 65cm beige
		110-3010-06	Profilo WL-Kit DM 3.5mm socket 65cm black
		110-3011-01	Profilo WL-Kit DM 3.5mm socket 75cm beige
		110-3011-06	Profilo WL-Kit DM 3.5mm socket 75cm black

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## Norms: CarKit DM

The CarKit DM was tested against the following norms :

- Radio Frequency emission: EN300328
- Electromagnetic compatibility: EN301489-1 / EN301489-9 / EN301489-17 / EN301489-18
- Electrical safety: EN60950-1
- 2004/104/EC Automotive EMC directive
- UN E/ECE/324/Add.9: Regulation No.10