

# Comfort Digisystem User Manual



## Microphone DM05



English



# User Manual

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## **Introduction to the Comfort Digisystem**

Thank you for choosing Comfort Digisystem.

The products are easy to use, whether you use a hearing aid or not.

Before using the product, please read this User Manual carefully.

Using the Microphone DM05 transmitter, the signal is transferred digitally, resulting in an excellent clear sound.

Comfort Digisystem is fitted with SecureStream Technology - a type of digital technology allowing eavesdrop-secure radio transfer in real time.

## **Presenting the Microphone DM05**

The Microphone DM05 is the world's smallest wireless microphone for the digital transfer of sound to earpieces. This radio signal is encoded so that no one else can hear what is being said. The microphone is extremely discreet and can be simply attached to clothes with a clip.

The Microphone DM05 is equipped with a voice AGC (Automatic Gain Control) to maintain a comfortable sound level at all times.

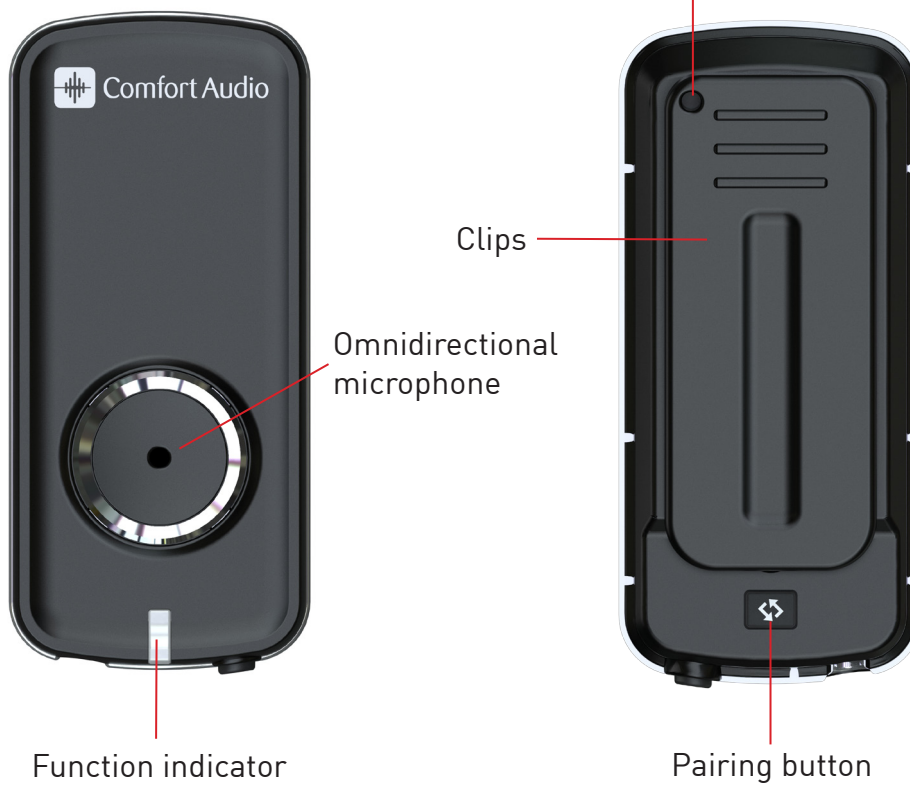
The DM05 is pre-programmed with 10 channels. Additional channels can be used in combination with other Digisystem products.

## Functions of the Microphone DM05

Charging socket      On / Off



Hole to secure neck pendant



## Getting Started

### Charging

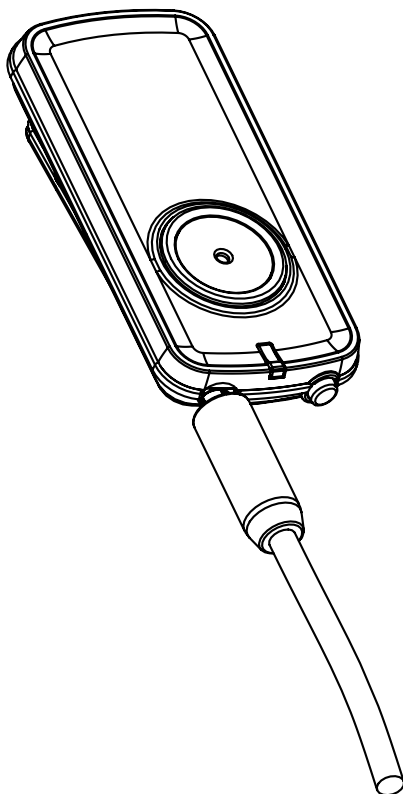
The Microphone DM05 is chargeable. Charge the DM05 at least two hours before you use it for the first time. An empty battery is fully charged within two hours.

During charging, the function indicator shows red. Once the function indicator shows green the unit is fully charged and switches to automatic float charging. The unit is automatically switched off when charging.

A fully charged battery has an operating time of up to six hours. Battery lifetime is up to five years. You must not change the battery yourself; please contact your point of purchase.

INPUT 5V  220mA

Only use the charger supplied by Comfort Audio AB.



Connecting a charger to the  
Microphone DM05

**Please note:**  
Only use the charger  
supplied by Comfort Audio AB.

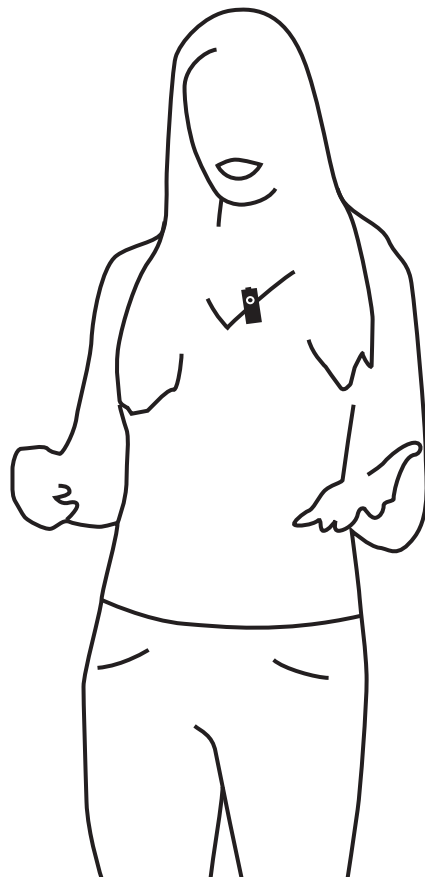
## First Time Use

Switch on the transmitter by pressing the On/Off button for around two seconds. Function indicator ON.

The Microphone DM05 is a microphone for closer range. It works best within approx. 30 cm.

Attach the DM05 to your clothes using the clip. The DM05 is supplied with a neck pendant, which can be connected to the unit to make sure that you do not drop it.

Other functions are explained later in this manual.



### **WARNING!**

**The necklace should not be used if there is a risk of getting stuck, e.g. in a machine or other objects.**

## Settings

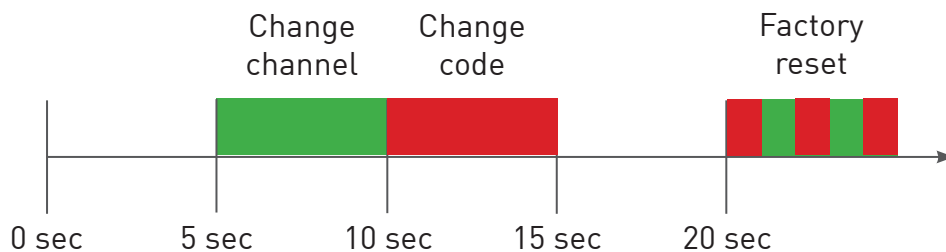
As the DM05 does not have a display/menu, the unit's functions are controlled by means of the pairing button.

The current function is displayed by the function indicator.

In addition to the pairing functions (see section *Pairing*), there is also the facility to activate three modes.

**To do this, press the pairing button and hold it down immediately after starting up the unit (within two seconds).**

A selected mode can always be cancelled by switching off the DM05 and starting it up again.



### *Change channel*

When the pairing button is held down for five seconds, the function indicator shows a constant green light.

If you release the pairing button when the function indicator is green, the *Change channel* mode is activated.

Press the pairing button briefly the number of times corresponding to the desired channel (1-10), see section *Radio Range and Channels*.

After a pause of two seconds, the entry process ends and the selected channel is shown by the same number of green flashes in the function indicator.

### *Change code*

If the pairing button is instead held down for ten seconds, the function indicator will switch to a red light.

If you release the pairing button when the function indicator is red, *Change code* mode is activated.

Press the pairing button twice in quick succession to generate a random code, and at the same time the pairing information is transmitted (make sure that other Digisystem units to be paired are activated to receive pairing information).

Five red flashes in the function indicator confirm that the pairing information (channel and code) has been sent.

### *Factory reset*

If the pairing button is instead held down for 20 seconds, the function indicator will switch to an alternating red and green light. The *Factory reset* mode is now activated.

To perform a factory reset, press the pairing button once quickly. The function indicator flashes the number of times corresponding to the channel, see section *Radio Range and Channels*.

The channel and code are now reset to the factory settings.

## **Pair**

Microphone DM05 must be paired using the pairing button, see section *Pairing (via pairing button)*.

### *Pairing*

To use a receiver and transmitter together, they must be paired. All transmitters and receivers are default paired at the factory and will work together.

**NB!** To prevent eavesdropping, a new code key must be generated and transmitted between the units by pairing.

Transmitting/receiving of pairing information along with a new code can be performed from any Comfort Digisystem unit with a display.

To pair units without a display, see sections *Pairing (via pairing button)*. Pairing information or a new code key can be received by several activated units.

### *Pairing (via menu)*

1. Choose **Communication - Pair**
2. Select **Receive info** on one unit. **Ready to receive pairing info** is shown in the display.
3. Select **New code** on the other unit; select **Yes**.
4. **Generate new code and send info?** is shown in the display. Select **Yes** (Now both the channel and the coding information have been sent, and sound transfer is eavesdrop-secure).
5. To pair another unit into your coded system, select **Send info** instead on one of your paired units.

### *Pairing (via pairing button)*

(The only way of pairing units without a display, with the pairing button)

You can activate the Pairing function via the pairing button.

1. One brief press of the button opens the *Pairing* menu.
2. Two brief presses activate the **Send info** function.
3. One long press activates the **Receive info** function.

### *Units with both transmitters and receivers built in*

Comfort Digisystem units with both transmitters and receivers built-in can be paired separately.

When opening the pairing menu, choose the concerning unit (transmitter/receiver). In units with both transmitters and receivers, the pairing button controls the transmitter.

The transmitter and receiver are paired separately in these units. The code key is always the same for the transmitter and the receiver when these are built-in in the same unit.

The easiest way to get the same code key in the whole Digisystem is to generate a new code key from the combined unit; in that way the built-in receiver gets the same code as the rest of the system.

## More Functions

### Function indicator (LED)

The function indicator shows the unit's status depending on its setting.

When the DM05 starts, the function indicator shows which channel is selected (1-10) by flashing green 1-10 times. If another channel has been paired in, this is indicated by the green lamp lighting for four seconds when the unit is started up.

On normal operation the indicator flashes every other second.

During charging the indicator shows red.

When the charging is completed, the indicator shows green.

When the battery gets low, the indicator flashes red every other second.

Once the unit has been set to receive pairing information, the indicator flashes green quickly.

When receiving pairing information, the indicator shows green for four seconds.

When sending pairing information, the indicator flashes red five times.

A constant green light indicates Change channel mode.

A constant red light indicates Change code mode.

An alternating red/green light indicates Factory reset mode.

## Radio Range and Channels

The transmitter and receiver have built-in antennas. The radio range between the units is around 30 metres. This may however vary depending on the particular environment you are in. Like all radio systems, Comfort Digisystem communicates on specific channels. If you use two transmitters on the same channel or a neighbouring one, there may be interference. Other electronic equipment can also interfere with radio transmissions.

In most European countries, channels 1-3 (863.250 - 864.750 MHz) may be used for hearing products. However, you should always check with the frequency assignment authority in your own country which channels are free and which require a licence.

## Frequency range of each model

Art. no. DG15101 (F2) 768 - 818 MHz  
(Complete package DG02401 F2)

### *Pre-programmed channels*

DG15101	1.	A54 - 768.400 MHz*
	2.	A46 - 771.600 MHz
	3.	A35 - 776.000 MHz
	4.	A25 - 780.000 MHz
	5.	A15 - 784.000 MHz
	6.	C25 - 790.400 MHz
	7.	C12 - 795.600 MHz
	8.	D45 - 802.000 MHz
	9.	D34 - 806.400 MHz
	10.	D15 - 814.000 MHz

*\* Factory-set channel*

Art. no. DG15001 (F1) 818 - 872 MHz  
(Complete package DG02001 F1)

### *Pre-programmed channels*

DG15001	1.	1	- 863.250 MHz
	2.	2	- 864.000 MHz*
	3.	3	- 864.750 MHz
	4.	E85	- 820.000 MHz
	5.	E71	- 825.600 MHz
	6.	E42	- 837.200 MHz
	7.	E19	- 846.400 MHz
	8.	E4	- 852.400 MHz
	9.	B15	- 857.200 MHz
	10.	B4	- 861.600 MHz

*\* Factory-set channel*

In addition to these selectable channels, channels within the frequency range of each DM05 model can be set by means of pairing with other Digisystem units.

## **Attached Accessories**

### **Safety neck pendant**

### **Charger**

## **Other original Accessories**

### **Car charger**

The car charger is designed for cars with a 12 volt (-) earthed electrical system. The charger has short-circuit and automatic overload protection. Disconnect the charger from the socket after use.

### **Charger unit**

For other accessories, please visit our website,  
[www.comfortaudio.com](http://www.comfortaudio.com)

## Troubleshooting

### **The transmitter and receiver do not start**

Charge the transmitter and receiver. Remember to press the On/Off button down for 2 seconds to switch the unit on. Check that the charger is connected to the plug socket.

### **Poor speech intelligibility**

The distance between the transmitter and the receiver may be too long. The range is around 30 metres. The distance between the microphone and the person who is talking may also be too long; move the microphone nearer to the person talking. Try to change channel/environment.

### **Poor range and interference**

In some environments involving, e.g., concrete, iron or sheet metal structures, the range may be reduced. There may also be equipment nearby causing interference. Change channel.

### **No sound**

Check that the transmitter and receiver are set to the same channel.

### **Loud hissing noise (no sound transfer)**

Check that the units are paired.


## Service and Warranty

Comfort Audio AB provides a comprehensive warranty for two years as from the date of delivery. This covers all defects of manufacture and materials. Defects caused by careless handling or intervention inside the product or its accessories are not covered by the warranty.

Under normal use, battery lifetime is up to five years.  
Contact your point of purchase once it is time to change the battery.

You are always welcome to contact us at Comfort Audio if you have any questions.

## Technical Data

Type of transmitter:	SST - SecureStream Technology
Range:	Approx. 30 m
Dimensions:	58 x 27 x 14 mm incl. clip
Weight:	16 g
Frequency range:	DG15101 (F2) 768 - 818 MHz (Complete package DG02401 F2) DG15001 (F1) 818 - 872 MHz (Complete package DG02001 F1)
Antenna:	Built-in
Operating time:	Up to six hours
Battery:	Chargeable Li-Polymer
Charging time:	Approx. two hours
Charger:	5V  220mA
Microphone:	Built-in, omnidirectional



## Important Safety Instructions - Read these before using your product

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not use near any heat sources such as radiators heat registers stoves, or other apparatus (including amplifiers) that produce heat.
- 8) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet consult an electrician for replacement of the obsolete outlet. (Only when using polarized plug)
- 9) Protect the power cord from being walked on or pinched particularly at plugs convenience receptacles. and the point where they exit from the apparatus.
- 10) Only use attachments/accessories specified by Comfort Audio AB.
- 11) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 12) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way such as power-supply cord or plug is damaged liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture does not operate normally or has been dropped.
- 13) Start listening at a low volume.

- 14) Too high a volume can seriously damage your hearing.
- 15) Don't disassemble the product.
- 16) Should the product break open because of damage, service should only be done by qualified service personnel.
- 17) Never use a transmitter or receiver set to a non-permitted frequency. Check with the frequency authority in the country where the equipment is to be used.
- 18) The product contains sensitive electronic equipment and must be handled carefully.
- 19) Never charge product in closed, unaired spaces such as handbags, cases or other closed storage bags.
- 20) Only use batteries and power supply specified by Comfort Audio AB.
- 21) You must not change the battery yourself; please contact your point of purchase.
- 22) **CAUTION!** Danger of explosion if battery is incorrectly replaced.
- 23) The product shall not be exposed to excessive heat such as sunshine, fire or the like.
- 24) Products include radio transmitters. Do not use products where it is not allowed to use electronic equipment, e.g. on airplanes.

Subject to change









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