User Guide

DynaMic

PHONAK life is on

Contents

Welcome

DynaMic FM transmitter is ideally suited to the needs of teachers and suitable for use in regular schools as well as special schools.

DynaMic, the inspiro's passaround microphone is designed to work exclusively alongside inspiro in the MultiTalker Network. With its simple, robust and childproof design DynaMic integrates insprio's high performance FM technology.

Please read this manual carefully to benefit from all the features of your DynaMic FM transmitters. Ask your hearing care professional if you have any questions.

With proper care and usage, your DynaMic will support your communication needs for many years.

DynaMic is a quality product developed by Phonak.
Phonak is the world leader in FM technology, innovation and reliability based in Switzerland.

Further resources:
To find out more about DynaMic, as well as about Phonak FM in general, we recommend visiting the following websites:

> www.eSchoolDesk.com
> > This is a special website specifically dedicated to providing support to teachers, but also to parents and other DynaMic users. Short movies available present for example farious functions and trouble shooting for FM systems aim to provide assistance in daily life.
>
> www.phonak.com
> > This is Phonak home page. Go on the product section and click on the FM systems. You can find useful information about inspiro and DynaMic as well as FM receivers.
>
> www.FMLibrary.com
> > This is an online scientific library about FM systems.

The following symbols appear in this user guide:

⚠   Important notes for all users.

DynaMic and accessories

DynaMic is delivered with:
- Desk stand
- Clamp 3/8″, 5/8″
- Colored rings
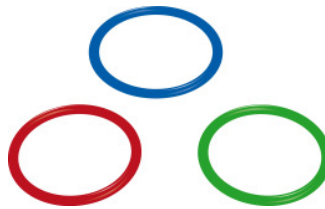
All the accessories can also be ordered separately.

1   DynaMic microphone

2.   Desk stand (base and legg) with clamp

3.   Colored rings: red, yellow, green

4.   Charging unit

5.   Replacement microphone head

Important DynaMic figures

General:

Operates only with inspiro in MultiTalker Network

Length   :   21 cm
Antenna length: 15 cm
Weight: 110g

Operating time and charging:

- Operating time if the battery is fully charged: up to 10 hours

- Charging time for an 80% charge   approx. 1 hour

- Charging time for an 100% charge   approx. 2 hours

Operating range (FM transmission):

- Operating range to initiator inspiro :
    - inside   8 m
    - outside   15 m

⚠ High-power electronic equipment, larger
electronic installations and metallic
structures may affect and significantly reduce
the operating range.

Controls
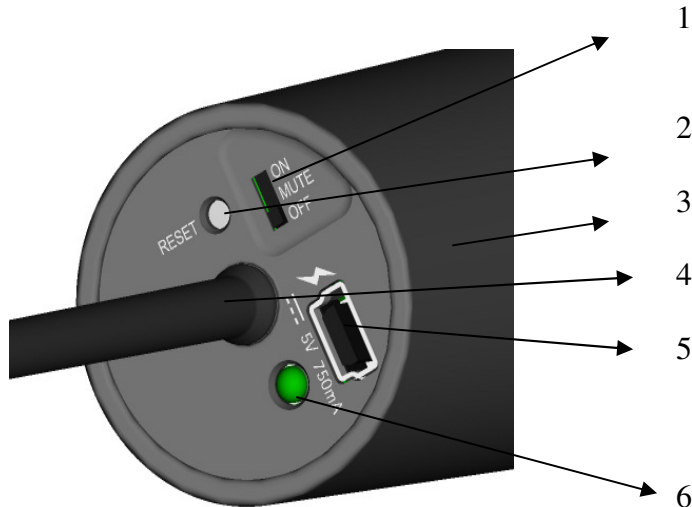
1. Slider Off/Mute/On
The slider puts the DynaMic in one of the three mode.

2. Reset button
This button gives the possibility to reset the DynaMic. The parameters stored in the flash are not affected by this operation. Use a pen to press the button.

3. Built-in vibrator
The vibration alarm provides information on the status of the battery and operation.

4. FM Antenna
It emits FM to the receivers in the hearing instruments.

5. Mini USB interface
Interface for charging and programming

6. The LED indicates the following functionalities:
- battery status,
- charging,
- error states

Getting starting

Charging DynaMic

DynaMic contains the same re-chargeable built-in state-of-the-art lithium polymer battery with fast-charge capability as inspiro. The operating time of the battery is up to 10 hours depending on how much you speak into the microphone.

A fully-discharged battery takes one hour for an 80% charge and two hours for a 100% charge.

⚠ Use only the original Phonak charging unit for inspiro/DynaMic.

To simultaneously charge your inspiro and DynaMic we recommend the twin charger.

Select an easily accessible socket outlet and plug the charging unit into the socket outlet.
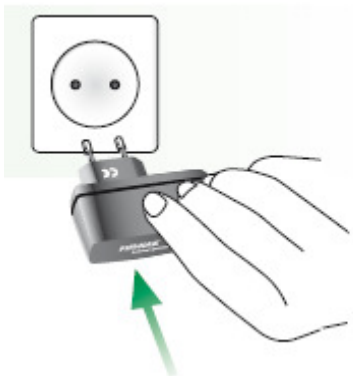
Connect the Mini USB plug from the charging unit to the DynaMic.
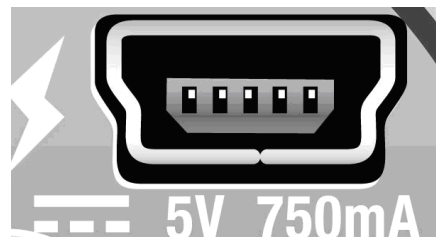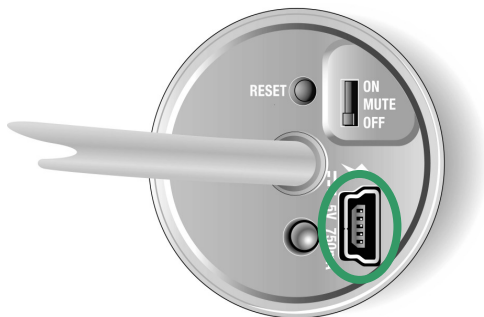
During charging the LED flashes two short green pulses every 5 sec.
When the charging is completed the LED shows continuous green light.

⚠ We recommend you are fully charging the DynaMic. The battery cannot be over-charged.

Battery status indication

DynaMic provides as inspiro an automatic vibra alarm if the battery is low.

Ca. 1 hour before the battery is empty: It needs to be charged within one hour.
The LED indicates 3 orange flashes repeated every 60 seconds and the vibra alarm starts vibrating.

Ca. 15 min before battery is empty: It needs to charge DynaMic immediately.
The LED indicates 10 orange flashes and the vibra alarm starts vibrating.
If the battery is not being charged at that time, DynaMic switches off automatically after flashing 10 flashes.

Vibration alarm indication

The transmitter provides a vibration alarm, if
- The battery is low,
- The device is out the range of the initiator of the MultiTalker Network,
- DynaMic is muted for more than 15 minutes,
- There is no FM transmission , DynaMic is not paired,
- The distance in the MultiTalker Network is higher than 8m,
- System problem, which are transformed in fast blinking orange LED signals and a vibration alarm.

⚠ In case of system problem one need to press the Reset button

Switch on DynaMic

DynaMic is a pass- around microphone to transmit with inspire in the MultiTalker Network .
It is not a standalone FM transmitter.

To switch DynaMic follow the steps below.

- inspiro and DynaMic are both off

- Switch on inspiro: push the slider to the left until the green mark appears and the LCD starts up.

- Set-up the MultiTalker Network. Initiate your Multitalker Network by pressing "OK".

Channels
MultiTalker Net
Receiver options
SoundCheck
Settings

Co-teachers need to be within 1 meter range and in pairing mode to join. Press Start to initiate

Start

Start Multi Talker Net

Set up network

Initiating…
● ● ○
1 detected
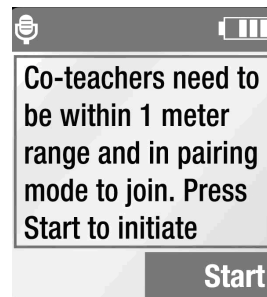
- Start your DynaMic by pushing the slider from Off to On.
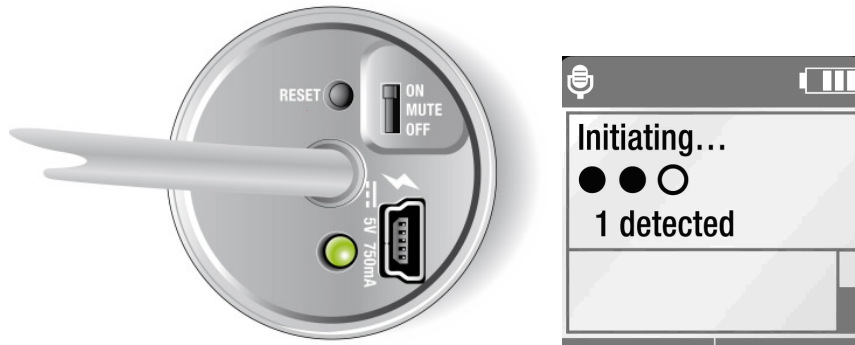
- After the initiation was completed, the name of the DynaMic appears, press OK.During the auto pairing time window of 8sec. DynaMic joins the MultiTalker Network as secondary. If it is paired as secondary, it starts working as FM transmitter,

After switching On the microphone the LED turns off to save power.

On the list of participants the microphone can be recognized.

As described earlier in the chapter "Switching on inspiro" pg 25, it is recommended to activate the key pad lock whenever possible.

Mute: If the DynaMic is On, it is possible to mute the microphone. Switch the slider from On to Mute.

⚠
  If DynaMic is not paired in the MultiTalker Network it does not start to emit FM.

Using DynaMic

User cases

- On a child's desk using the supplied table stand

- Holding the DynaMic in the hand

- Wearing the remote mic with a lavalier* - not supplied by Phonak

- Using the floor stand*- not supplied by Phonak

Pass- around microphone

DynaMic can be passed from one child to the next.

Talking

Inspiro : Follow all the steps described in the chapter "Talking" under inspiro chapter pg. 28.

DynaMic
Make sure DynaMic:
- is recognized into the MultiTalker Network by the initiator inspiro. You can check this on the inspiro's LCD.
- is within the right distance in the MultiTalker Network
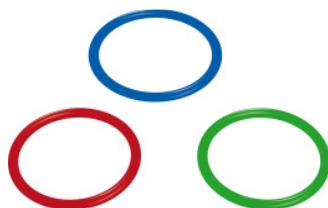- is turned on
- is not in the muted mode

Speak into the microphone at relatively close range.

⚠ When speaking do not cover:
- the head of the microphone
- the antenna

Colored rings

With the rings you can personalize your DynaMic transmitters.

In case you are stepping out of your class the personalize rings will help you immediately recognize your Dynamics.

⚠ You may put only 2 rings at the time. Do not place them on the opening of the microphones head.

DynaMic Data Logging

DynaMic logs automatically the usage time. It is stored every 15 minutes. The first log entry is stored after the transmitter has worked for 15 minutes.
A usage data log contains e.g. name, timestamp, MTN mode, average noise level.

Dynamic can store up to 800 data log, which covers approx. 20 days of usage.

Programming

Programming is optional – the frequency is automatically selected by the initiating inspiro in the MultiTalker Network.

The following parameters could be programmed with FM SuccessWare 4.3 or higher
- Name, school, date (for DataLogging FM purposes)
- Updating the firmware
- Reading and erasing logged data

The MultiTalker Network

One or more inspiro and one or more DynaMic transmitters can participate in a MultiTalker Network.

⚠ A maximum of nine DynaMic microphones can take part into a MultiTalker Network.

• The MultiTalker Network is available in the inspiro's Extended operating mode.

• The Network operating range, i.e. the distance between the initiating inspiro and each inspiro/DynaMic joining the network is 8 m / 25 feet.
If a user should unintentionally leave the network, an alarm signal of the inspiro/ DynaMic alerts the user.

Diagram of the MultiTalker Network

8 m

8 m

8 m

8 m

8 m
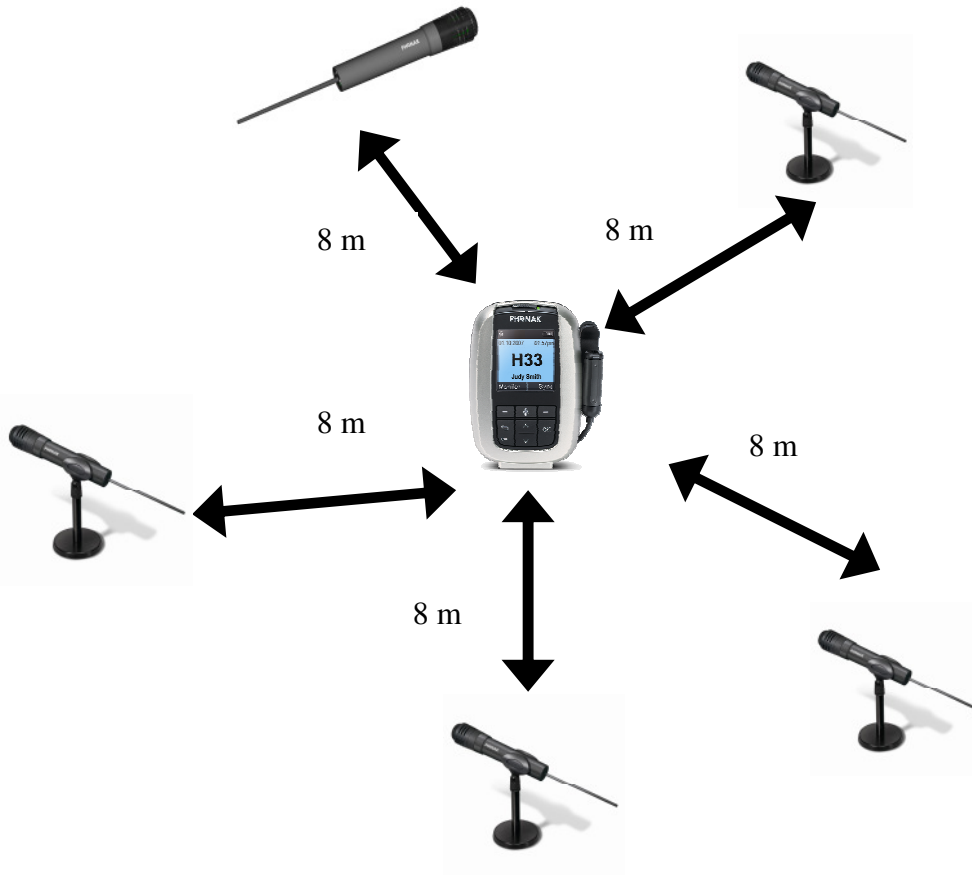
• The initiating inspiro displays a list of the other transmitters in the MultiTalker Network.

Initiating a MultiTalker Network

Initiating or setting up a MultiTalker Network should be performed before the lesson begins in the classroom. The procedure to follow is straightforward and the inspiro menu guides you through the necessary steps. See the chapter "Switch on DynaMic".

• Make sure that you have on the desk all the inspiro and DynaMic transmitters you plan to include in the network. Ensure that all inspiro/ DynaMic transmitters are switched off.

• Take the main teacher's or main speaker's inspiro and switch it on. In this inspiro, select MultiTalker Network and then Set up network. This inspiro is known as the initiator.

• Read the information on the LCD display and then press the Start soft key.

• Then switch on all of the other inspiro and DynaMic transmitters.

• A list of the inspiro and DynaMic transmitters that have joined the network should now be displayed on the initiating inspiro. If all of the transmitters are listed, press the Continue soft key.

  You have successfully created the network!

 All inspiro and DynaMic transmitters are synchronized by the initiator inspiro.

Begin talking as usual.

How to use a MultiTalker Network

  • The inspiro that has set-up (initiated) the network has first priority; all other transmitters inspiro/DynaMic that joined the network have second priority. The teacher with first priority can interrupt any teacher or student that has second priority; a second priority teacher or student can only take over during the speech pauses of the first priority teacher.
  • All devices transmit on the same FM channel, *but they do not transmit at the same time*
  • No user action is required; if the first priority inspiro does not detect speech, any second priority teacher or student can 'get the microphone' just by starting to talk
  • The listening FM receivers only receive one voice at a time

Leaving a MultiTalker Network

The MultiTalker Network cannot exist without the presence of your initiating inspiro in the network. If you decide to end the MultiTalker Network, the entire network will cease and all of the inspiro and DynaMic transmitters will activate an alarm.

If you are using an inspiro that just joined a network, you can always leave the network by selecting Stop MultiTalker Network.
Your inspiro will then be set to single teaching mode, but all of the other inspiro transmitters in the MultiTalker Network will remain in MultiTalker Network mode.

If you are switching off one of the DynaMic, it will be deleted from your participants list. The MultiTalker Network could continue with all other DynaMic and inspiro transmitters.

Should you unintentionally be outside the distance range of the MultiTalker Network, you will be alerted by an alarm. You can then choose to either return to the operating range of a maximum 8m / 25 feet from the initiating inspiro, or to leave the network.

Practical tips

- The MultiTalker network setting is stored in the inspiro transmitters. If the inspiro and DynaMic transmitters have been switched off in MultiTalker Network mode, e.g. before lunch, when decided to then switched back on again after lunch, the MultiTalker Network mode can be selected by simply pressing a key in the inspiro. In this case, there is no need to re-initiate the network. **However, start the inspiro first**. All the DynaMic transmitters will join the network in the pairing window of 8 sec after the initiator inspiro was switched on.

- If you have set up a MultiTalker Network with for instance two inspiro transmitters and then a third person needs to subsequently join the network with inspiro or DynaMic, it is necessary to set up a new network (to initiate a new MultiTalker Network).

- inspiro and Dynamic transmitters joining a network automatically use the FM channel of the initiating inspiro in the MultiTalker Network.

- If an inspiro reverts to single teaching mode, it automatically applies the FM channel used previously.

- If the initiating inspiro alters the FM channel in MultiTalker Network mode for any reason, the new channel will automatically be sent to the other inspiro and DynaMic transmitters in the network and then activated.

Troubleshooting

Inspiro

Problem	Most likely cause	Solution
The inspiro cannot be switched on.	The battery is run down.	Charge the inspiro for at least two hours.
Poor speech intelligibility	The microphone has not been positioned properly.	Move the microphone closer to the speaker's mouth. Activate the SoundCheck feature.
Speaker's voice is inaudible even though the inspiro is turned on.	The microphone mute has been activated or the hearing device has not been set to the right programme.	Check the inspiro's LCD display and press the microphone mute key in order to activate the microphone. Also check whether the hearing devices are turned on and set to the right programme. Activate the Monitoring function on the inspiro to check the receivers.
Insufficient operating range	Microphone cable has not been unwound.	Unwind the microphone cable.
Radio interference	External cause: radio antenna or similar interfering devices nearby.	Change the FM channel. Use the ChannelFinder to locate an unused and interference-free FM channel.
A second person's voice can also be heard.	Another FM user is using the same FM channel nearby.	Change the FM channel. Use the ChannelFinder to locate an unused and interference-free FM channel.
Inspiro does not respond to command	Software issue	Reboot your inspiro by pressing the 4 side buttons in the same time.

DynaMic

Problem	Most likely cause	Solution
The DynaMic cannot be switched on.	The battery is run down.	Charge the DynaMic for at least two hours.
Poor speech intelligibility	The microphone is not been positioned properly.	Move the DynaMic closer to the speaker's mouth.
	DynaMic's antenna or head are partially covered.	Leave free the DynaMic's antenna and head.
	The colored rings are covering the acoustic part.	Placed only 2 colored rings to personalize your DynaMic.
Speaker's voice is inaudible even though the DynaMic is turned on.	DynaMic is muted or the hearing device has not been set to the right programme	Check the DynaMic is not muted. Also check whether the hearing devices are turned on and set to the right program.
	Often drops	The acoustic part is deteched
Insufficient operating range	DynaMic's antenna or head are partially covered.	Leave free the DynaMic's antenna and head.
	The colored rings are covering the acoustic part.	Placed only 2 colored rings to personalize your DynaMic
Radio interference	External cause: radio antenna or similar interfering devices nearby.	Proceed as for inspiro
A second person's voice can also be heard.	Another FM user is using the same FM channel nearby.	Proceed as for inspiro.
DynaMic is not responding to commands		Reset DynaMic using the reset button. Before resetting make sure DynaMic is on.

Important notices

Inspiro and DynaMic transmitters collect and store internal technical data.
The data may be read by a hearing care professional in order to check the transmitters, as well as to support you in being able to use inspiro and DynaMic in the ideal manner.

Do not use your inspiro and DynaMic in a place where it is prohibited to use electronic devices. If in doubt, please ask the person in charge.

Persons with pacemakers or other medical devices should ALWAYS consult their physician, the manufacturer of their pacemaker, or other medical device BEFORE using inspiro and DynaMic. The use of inspiro with a pacemaker or other medical devices should ALWAYS be in accordance with the safety recommendations of the physician responsible for your pacemaker or the pacemaker manufacturer.

Do not use two or more inspiro transmitters on the same FM channel, except in the case of transmitters in a MultiTalker Network.

Please note that radio signals might also be picked up and overheard by other receivers.

Before using the inspiro in another country, contact your hearing care professional to make sure the use of your radio channels is permitted in that country.

Do not use water or other liquids to clean the inspiro and DynaMic.

Use only original Phonak accessories.

Use only the original Phonak charger for inspiro and DynaMic.

Your inspiro and DynaMic may only be repaired by an authorized service center.

Dropping your inspiro and DynaMic could damage your equipment.

Do not place the rings to personalize your DynaMic over the openings of the microphone's cap.

Do not cover the antenna or the microphone's cap, while speaking.

The microphone cap should be opened only for replacements reasons.

Please note that with inspiro you can adjust the volume of the iSense micro.
Your hearing care professional must program your inspiro by selecting iSense Micro as FM receiver. This can be done with FM Successware 4.2.1 or higher.

Service and warranty

Phonak provides a manufacturer's limited warranty for your inspiro and DynaMic. This covers all manufacturing and material defects. Problems with inspire and DynaMic arising from improper handling or care and repairs made by an unauthorized party are not covered by the warranty.
Please ask at the point of sale for full details of this warranty. The salesperson will note the serial number of your inspiro/DynaMic below. It will be needed in the event
of a warranty repair.
Serial number
inspiro:
Date of purchase:
Serial number FM receivers:

Serial number
DynaMic:
Date of purchase:

Declaration of conformity

Hereby, Phonak Communications AG, declares that the inspiro and DynaMic are in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
To obtain a copy of the Declaration of conformity, please contact the local Phonak AG representative whose address can be taken from the list of Phonak distributors worldwide.

This device complies with part 15 and part 95 of the FCC rules and with RSS 210 of Industry Canada.
Operation is subject to the following two conditions:
(1) These devices do not cause harmful interference and (2) must accept any interference received, including interference that may cause undesired operation.

These transmitters are authorized by rule under the Low Power Radio Service (47 C.F.R. Part 95) and must not cause harmful interference to TV reception or United States Navy SPASUR installations.

You do not need an FCC license to operate these transmitters. The transmitters may only be used to provide: auditory assistance to persons with disabilities, persons who require language translation, or persons in educational settings; health care services to the ill; law enforcement tracking services under agreement with a law enforcement agency; or automated maritime telecommunications system (AMTS) network control communications. Two way voice communications and all other types of uses not mentioned above are expressly prohibited.

Warning: Changes or modifications made to this equipment not expressly approved by Phonak may void the user's authority to operate the equipment.

Your hearing care professional

www.phonak.com