

# User Manual of the FlexyMike™ Single Ear Microphone: Professional Voice recording and Speech recognition - FMK01

## 1. INTRODUCTION

Thank you for your purchase of the *FlexyMike™ Single ear Microphone* (ref. FMK01), the **entry-level unit** of our award-winning *FlexyMike™* family for professional Voice recording and Speech recognition. Its main features, at a glance, are:

- **World's lightest** single ear headset microphone (3-5 grams!) for long hours of use, while barely noticing it --**an industry first**
- Extremely **flexible and durable material (titanium alloy)**, allowing excellent adaptation to anyone's face --**another industry first!**
- Unique patent pending **rubber adjusting mechanism** inside the ear loop, for perfect fit into anyone's ear
- **Superior sound quality** for Voice recording and Speech recognition, matching or exceeding the finest headsets available on the market when using *Dragon NaturallySpeaking®*
- **Flesh color and diminutive size** making it virtually invisible from a few meters and therefore ideal to use in public places
- Additional **2 m carbon kevlar cable extension**, resistant to breakage under normal use
- **Spare windshield to avoid popping as well as for noisy environments**
- Non corrosive, **gold 3.5 mm** audio jack connector
- **Zippered leatherette presentation box** to facilitate storage and transport
- **Optional USB Soundcard**, if the quality of the internal PC Soundcard is not good enough, or the user needs to work in different computers with the same set of Speech Files
- **Optional Bluetooth Transmitter and Receiver** (two different models), to work completely wireless (<http://www.speechware.be/en/hardwareFlexyMike.php>).

Use any *FlexyMike™* model for recording your voice (with any good digital recording application of your choice) and Batch transcribe the file(s) with our also **unique Transcription Aid® for Dragon NaturallySpeaking®** (download demo from [www.transcriptionaid.net](http://www.transcriptionaid.net)). You will get one of the **best performing, low-cost and simple to set up and use Digital recording and Speech recognition systems**. *Transcription Aid®* also allows for easy transferring of the correction of automatic transcriptions to the secretary, **while improving the dictating User Speech Files for further accuracy**. In this simple way, **any professional can concentrate on what he is most productive at (dictation)**, while transferring all other "painful" tasks usually associated to Speech recognition (Batch processing and correction of transcriptions, improvement of his /her Speech Files, formatting, etc.) to the secretary!

## 2. TECHNICAL DETAILS

The *FlexyMike™* Single Ear microphone for professional Voice recording and Speech recognition feature an **extremely high quality and tiny** (1.2 mm of diameter!) **back electret condenser microphone**. The capsule is **powered from the PC Soundcard port, guaranteeing outstanding performance when running the Dragon NaturallySpeaking® "Audio Setup Wizard"** (click "Tools", "Accuracy Center..." and then "Checking your audio settings").

In practice, if your PC has a good internal Soundcard, you should be able to get **well over 30 dB** when properly running the aforementioned "Audio Setup Wizard" (**it is VERY important not to read the punctuation signs and make a 3 to 5 seconds pause of silence, instead**) with the *FlexyMike™*, at a maximum distance of **1 to 2 cm (half an inch) from the corner of the mouth** (also depending on your voice). This matches or exceeds the **performance of the finest available** (and probably more expensive) **Headset microphones**.

Otherwise, when **your internal Soundcard is not good enough or you want to use more than one PC with the same set of User Speech Files**, you should consider either the *FlexyMike™ USB* (model FMK02) or purchasing the optional *USB Soundcard* (USB01). This **USB card, acoustically matched with the microphone capsule** (substituting your internal Soundcard when connected), guarantees the **best possible digital sound output**. A third model, the *FlexyMike™ with "Full duplex" Bluetooth Trasmmitter and Bluetooth v. 2.0 USB*

*Dongle Receiver (FMK05)* provides wireless connection with any PC, without wearing any transmitter close to your cranium but rather, in your belt, which may be probably more comfortable and safer!

### Specifications

**Capsule:** *Omni-directional back electret condenser*

**Frequency response:** *20Hz - 20KHz*

**Sensitivity:** *-45±3dB*

**Operating Voltage:** *1.5V - 12V D.C. (from the PC sound port)*

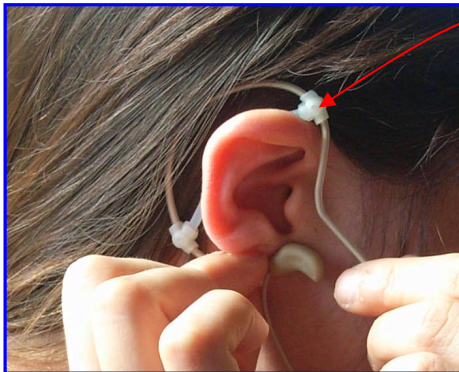
**Output Impedance:** *2K $\Omega$ ±30%*

**SPL max:** *140dB*

**Ideal dictating distance** (depending on the quality of your internal PC Soundcard and your voice): *1 to 1.5 cm (half an inch)*

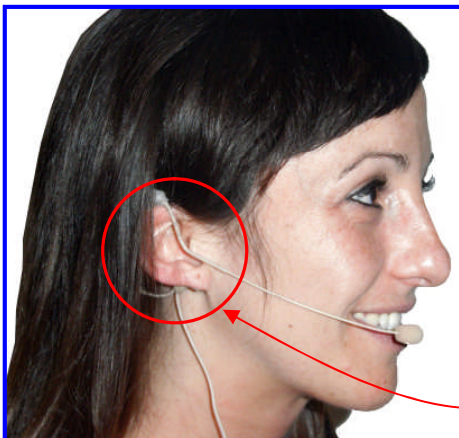
### 3. OPERATING INSTRUCTIONS *(check multimedia at <http://www.speechware.be/en/hardwareFlexyMike.php>)*

a) Fit the single ear loop normally in the **left ear**, so that your right ear and hand gets free and unimpeded to pick up the telephone handset. The rubber band inside the loop **must be placed around the contour of the ear**, exerting some pressure, for maximum stability of the frame.



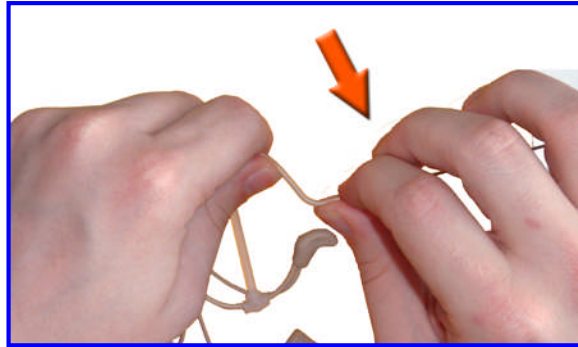
*World patented  
Rubber adjustment  
behind the ear*

b) Now, let the plastic joint, at the end of the ear loop, **exert some pressure behind and against your earlobe but without disturbing you**, like this:



*Note the  
position of  
the ear*

**Flex or bend carefully** (without breaking it!) **the microphone boom, to perfectly fit the shape of your face. Take your time flexing and bending to find the most comfortable and suitable position of the device for you;** as it is made out of titanium alloy!...



c) Take a mirror and make sure that the microphone capsule is placed **between 1 to 1.5 cm (half an inch), right in the corner of your mouth.**



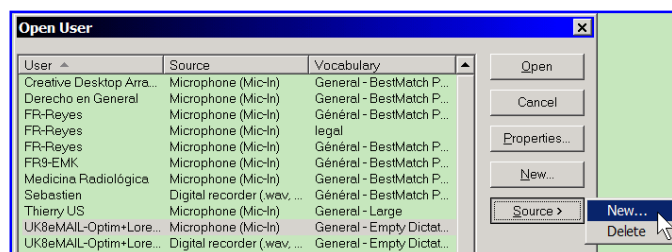
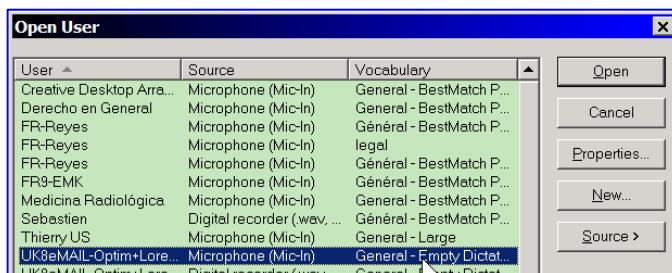
*Note the position of the capsule: as closer as possible for best output!*

d) Connect the gold, non corrosive, audio jack of the *FlexyMike™* to your PC Soundcard microphone port. This port is normally colored red. Push it to make perfect contact. Optionally, to avoid popping and background noise, use the windshield included in the box.

When the microphone is properly set and **you feel very comfortable:**

a) **Either create a Dragon "New User" from scratch**, choosing "*Microphone plugged into Mic-in jack (most common)*" as "*Dictation source*" in the "*New User Wizard*" window of *Dragon NaturallySpeaking®*...

b) **Or generate a "New Acoustic Source" for an existing User** with the same "*Microphone plugged into Mic-in jack (most common)*" setting (Click "*Open User...*" in the "*NaturallySpeaking*" menu and then select the existing User. Click "*Source >*", "*New...*" in the second window):



c) In both cases, you are supposed to **calibrate and train** the Speech files for maximum accuracy. It is **VERY important** not to read the punctuation signs and make a 3 to 5 seconds pause of silence instead, when you read aloud the calibration texts during the "Audio Setup Wizard" procedure.

If you want to use the *FlexyMike*<sup>TM</sup> as an outstanding voice recording device, get any good digital recording application for your PC and save your recording in a common sound format (for instance, Wav, MP3, WMA) providing at least 16 bits, 11,025 Hz, mono. Open *Transcription Aid*<sup>®</sup> and your User Speech Files, previously adapted for the *FlexyMike*<sup>TM</sup>, and click "Transcribe Recording". Then, choose between:

- either "Individual transcription with active User/Author...", "Other types of recorders (or recordings)"
- or "Batch transcription with different User/Author..."

Follow the instructions and **your voice recordings will be automatically transcribed** by *Transcription Aid*<sup>®</sup> - *Dragon NaturallySpeaking*<sup>®</sup> with great accuracy! You can **download a demo** of *Transcription Aid*<sup>®</sup> from: <http://transcriptionaid.net/download/index.php>

Enjoy your purchase and check our award winning, "5 Dragons" certified *TableMike*<sup>TM</sup> Desktop Microphones to work in your office, without wearing anything at: <http://www.speechware.be/en/hardwareHeadset.php>

The screenshot shows the Nuance website's Hardware Compatibility List page for the TableMike microphone. The page is titled "SUPPORT Hardware Compatibility List" and features a navigation menu with options like Company, News, Products, Industries, Support, Partners, International, Contact, and Store. The main content area is divided into two columns. The left column contains a "Support" sidebar with links to Overview, Phone Technical Support, E-mail Technical Support, Free Online Support (Knowledge Base, Downloads, User's Guides, Communities, Hardware Compatibility List, Product Activation), and Product Registration. The right column displays an "Evaluation Report" for the TableMike microphone, including manufacturer information (Speech Recognition Ware), model (USB 3-in-1 TableMike), device category (Desktop Microphones), and a 5-star accuracy score. The report also includes a compatibility category of "Nuance Certified" and a detailed summary of the microphone's features and performance.

Evaluation Report	
<b>Manufacturer:</b>	Speech Recognition Ware (Phone: +32 2 733 1687 / 32 2 733 1688)
<b>Model:</b>	USB 3-in-1 TableMike
<b>Device Category:</b>	Desktop Microphones
<b>Accuracy Scale Dragon Score:</b>	★★★★★
<b>Compatibility Category:</b>	Nuance Certified
<b>Summary:</b>	<p>Date tested: Version 9 - 7/06</p> <p>High-quality unidirectional desktop microphone Off-the-head solution, USB interface, Plug and Play Flexible boom with light indicator when either the microphone element or a recording operation (with the bundle DictaMail software) is ON. Microphone ON/OFF switch and Push to Talk buttons integrated in the microphone stand. Sensitivity gain control knob and jack to connect speakers on the back of the stand.</p> <p>Optimal performance: Gain control turned off, distance 4 inches = 10cm</p> <p>Device allows digital audio file capture/recording for deferred adaptation/transcription in conjunction with the DictaMail and TranscriptionAid applications from Speech Recognition Ware (<a href="http://www.transcriptionaid.net">www.transcriptionaid.net</a>). Digital Recordings in High Quality recording format (WAV): 6 Dragons (mobile enrollment) Digital Recordings in Standard Quality recording format (MP3): 5 Dragons (mobile enrollment)</p> <p>Note: 1. Select USB Audio Codec as the sound and audio device in the Audio Setup Wizard 2. Ignore the Audio Setup Wizard error that DNS cannot control the volume on the computer. Please click OK and continue, system is fully operational.</p>