

# **USB 6-in-1 TableMike™ Desktop Microphone:** *Professional Voice recording, Speech recognition, VoIP and Music - TBMK02*

## **I. INTRODUCTION**

Thank you for your purchase of the *USB 6-in-1 TableMike™ (TBMK02)*, the **top model** of the SpeechWare ([www.speechware.be](http://www.speechware.be)) **award-winning TableMike™** family of Desktop microphones. USB "6-in-1" stands for:

1. **Built-in USB** interface for digital input and easy exchange of User Speech files between PCs
2. **Foot (or Hand) switch (optional) –an industry first!**
3. **Built-in Speaker for Voice over IP** (Skype) **–another industry first!**
4. **Voice Recording** (needs specific application like the *Windows Sound Recorder®*)
5. **Speech Recognition** (needs application, like *Dragon NaturallySpeaking®*)
6. **Stereo Music listening** (built-in audio port and bundled Stereo earphones).

Its main features, at a glance, are:

- Shotgun, **highly unidirectional** back electret condenser microphone
- Dictate to *NaturallySpeaking®* **without wearing anything or being physically tethered** to your PC
- **Superior sound quality** for Voice recording and Speech recognition, matching the finest headsets available on the market **when using *Dragon NaturallySpeaking®***
- **Extra long and versatile 50 cm (20 inches) long adjustable boom** to dictate even standing up
- **Adjustable built-in mic amplifier with Sensitivity control in the back of the unit for noise cancelling** and good positioning (ideally 7,5 to 15 cm / 3 to 6 inches)
- **Integrated high quality Speaker with Volume controls** (+ and -) built conveniently into the base
- **"Full duplex" (simultaneously speaking and hearing) communication for good VoIP** (Skype)
- Microphone **Push-lock and Push-to-talk buttons** in the base
- **Professional XLR and Gold, non corrosive**, audio connectors and **shielded cable**, to avoid interferences
- **Audio output to connect headsets (bundled)**, for Stereo music listening and privacy when using VoIP
- **Indicator light ring** around the microphone capsule to show status
- **Optional Foot (or Hand) Switch**, ideal for handicapped people or the medical profession!

The *TableMike™* has been officially certified with a top "**5 Dragons**" by Nuance and is **publicly recommended as the finest microphone for *Dragon NaturallySpeaking®* in its category** (Desktop/handheld microphones) at: <http://support.nuance.com/compatibility/default.asp>

Notice that one "Dragon" difference between any device **indicates a 7.5% increase/decrease in word error rate**, according to the stringent and objective testing procedures of Nuance. Other certifications by leading companies are in process now.

Use any *TableMike™* model for **recording your voice** (with virtually 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 <http://transcriptionaid.net/download/index.php>). You will get **one of the most performing, low-cost, integrated and simple to set up and use Digital recording and Speech recognition systems available.**

*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 she or he is most productive at (dictation)**, while transferring all other "painful" tasks usually associated with Speech recognition (Batch processing and correction of transcriptions, improvement of Speech Files, formatting, etc.) to the secretary!

## **2. TECHNICAL DETAILS**

The *TableMike™* family of Desktop microphones for professional Voice recording, Speech recognition, VoIP and Music listening, share the same **Shotgun, extremely high quality and unidirectional back electret condenser microphones.** The capsule is **powered by a small voltage amplifier with adjustable (Sensitivity**

**knob) noise cancelling electronic device, guaranteeing excellent performance** when running the *Dragon NaturallySpeaking® "Audio Setup Wizard"* (click "Tools", "Accuracy Center..." and then "Checking your audio settings").

In practice, you should be able to get **about 22 dB or more** 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 in silence each time, instead**) with the *TableMike™*, at a distance of about **7,5 to 15 cm (3 to 6 inches)** (depending on the Sensitivity calibration of the mic and your voice).

### Specifications

**Capsule:** Shotgun noise cancelling back electret condenser with built-in amplifier

**Polar pattern:** Highly unidirectional cardioid

**Noise cancelling:** >25dB or higher (Sensitivity Knob)

**Sensitivity:** -47dB (+/-3 dB 35mv/Pa) or better

**SNR:** 89dB

**Frequency response:** 100-10000 Hz

**Output Impedance:** 150 Ohms

**Power supply:** from the USB port of the PC

**Loudspeaker output:** 2.5 W

**Loudspeaker response:** 200-15000 Hz

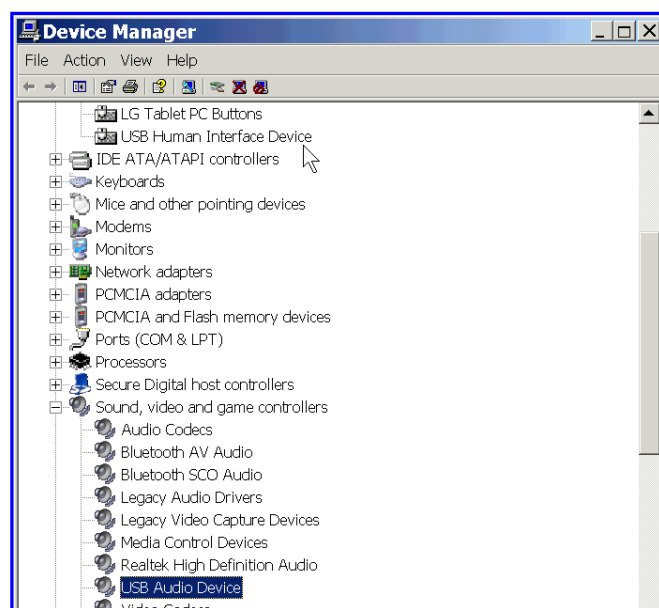
**Loudspeaker impedance:** 4 Ohms

**Operating System:** Windows XP and Vista

**Ideal dictating distance:** 7,5 to 15 cm (3 to 6 inches) or even further away (depending on the Sensitivity calibration and your voice)

## 3. OPERATING INSTRUCTIONS

Insert the boom on the base of the *USB 6-in-1 TableMike™* and secure it firmly. **Connect the gold, non corrosive, USB jack to the USB port of your PC.** Push it, to make sure that it makes perfect contact. Windows will immediately recognize it and **automatically install the corresponding drivers**, the "USB Human Interface Device" and the "USB Audio Device":



The red led in the base will light up. **Set the built-in mic amplifier (rotating wheel or knob in the back of the unit) to 2/3 of its maximum volumen.** If there is a lot of background noise in the room or you want to place the

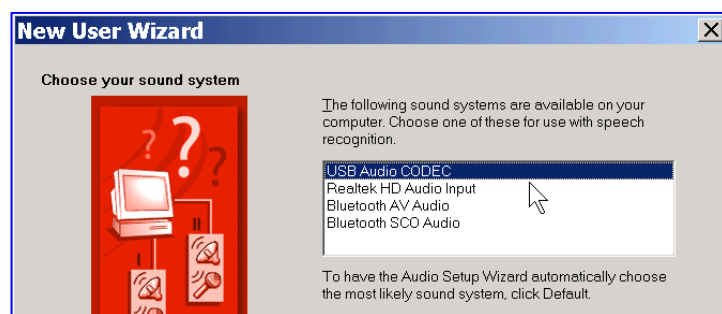
microphone at a much shorter than the recommended 7,5 to 15 cm (3 to 6 inches) distance, use the windshield included in the box to avoid popping. Also, connect the **Foot (or Hand) control on the back of the unit.**

**Press the Push-lock or Push-to-talk buttons in the base, or the optional Foot (or Hand) control, to switch On (and Off) the microphone, and:**

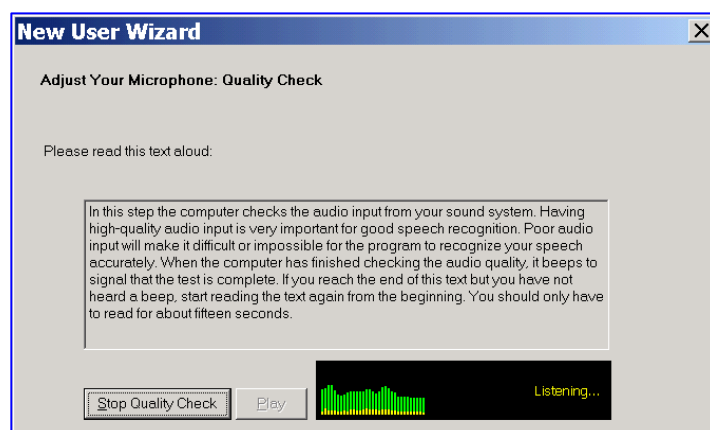
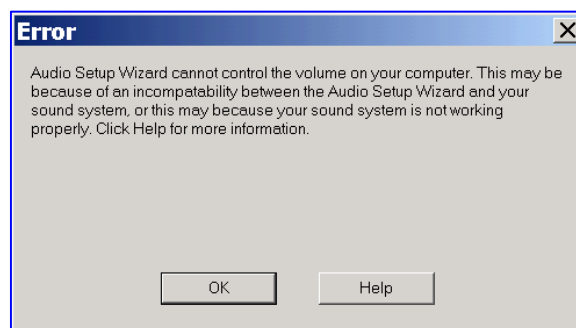
- a) **Either create a Dragon "New User" from scratch**, choosing "**USB Microphone**" as "**Dictation source**" in the "**New User Wizard**" window of **Dragon NaturallySpeaking®**.
- b) **Or generate a "New Acoustic Source" for an existing User with the same "USB Microphone" setting** (in the "**NaturallySpeaking**" menu, click "**Open User...**". Select an existing User, then click "**Source >**", "**New...**").

Please **carefully note that**, when you run the "**New User Wizard**" or "**Audio Setup Wizard**":

- a) You have to **choose the "USB Audio Codec"** as the sound and audio device (driver):



- b) **Ignore the "Audio Setup Wizard" error** explaining that Dragon NaturallySpeaking® cannot control the volume on the computer, by clicking "OK" and continue. **This is perfectly normal, due to our Sensitivity wheel at the back of unit, and will appear twice.**



- 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.**

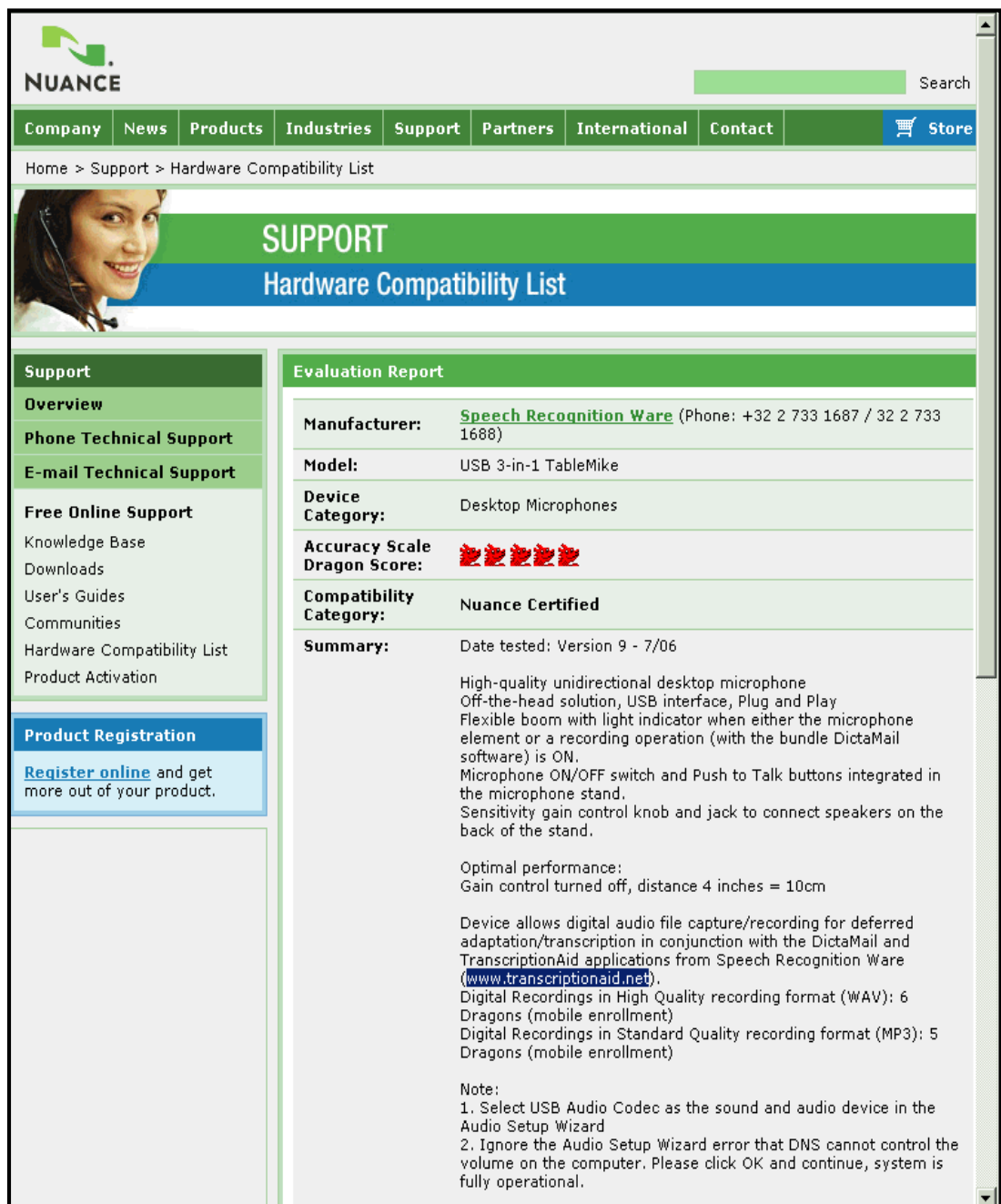
If you also want to use the *USB 6-in-1 TableMike™* as **an outstanding voice recording device and instead of an expensive digital recorder**, get any recording application for your PC and save your recording in a common sound format (for instance, Wav, MP3, WMA) providing at least 16 bits, 11,025 Hz, mono. Open *Transcription Aid®* and your User Speech Files, previously adapted for the *TableMike™*, 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®* - *Dragon NaturallySpeaking®* with great accuracy! **Is that incredibly easy!** You can **download a fully functional during 20 days demo** of *Transcription Aid®* from: <http://transcriptionaid.net/download/index.php>

Enjoy your purchase and check also our **award winning, FlexyMike Single Ear microphones (with optional USB sound card and wireless Bluetooth modules) to dictate outside of your office:**  
<http://www.speechware.be/en/hardwareFlexyMike.php>

*Official certification of the former USB model sharing the same microphone capsule –this one is even better!*



The screenshot shows the Nuance website's support page for the USB 3-in-1 TableMike microphone. The page features a navigation menu with links for Company, News, Products, Industries, Support, Partners, International, Contact, and Store. The main content area is titled "SUPPORT Hardware Compatibility List" and includes a sidebar with various support options like Overview, Phone Technical Support, E-mail Technical Support, and Free Online Support. The main content area displays an "Evaluation Report" for the microphone, detailing its manufacturer (Speech Recognition Ware), model (USB 3-in-1 TableMike), device category (Desktop Microphones), accuracy scale (6 dragons), and compatibility category (Nuance Certified). The report also includes a summary of the microphone's features and performance, such as its unidirectional design, USB interface, and recording capabilities.

Evaluation Report	
<b>Manufacturer:</b>	<a href="#">Speech Recognition Ware</a> (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>	Date tested: Version 9 - 7/06  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.  Optimal performance: Gain control turned off, distance 4 inches = 10cm  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)  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.