TextSpeak

... speech generation that’s as simple as it sounds!

The world’s first AAC speech generator in a 4”x 5” package

- Wirelessly connects to keyboards and generates unlimited vocabulary speech
- Full size keyboard included. Expands to support most standard and special needs keyboards
- A perfect on-the-go AAC solution. Instant on, no setup, low cost and simple to use.
- Works with telephones
- Light & portable. AC and Battery powered
- Available in Male and Female voices
- Unlimited vocabulary
  Talks as you type
  No PC required!
- Intelligent text generating speaker and keyboard combo put speech anywhere, right at your fingertips
- Great for students who need unlimited vocabulary
- Works without a computer
- Benefits patients with both temporary and long term needs
- Works right out of the box
- 30 programmable phrases

Perfect for classrooms
Assists in out-patient care
A low cost temporary aid
Completely portable
Durable and flexible

Incorporates advanced Digital Acoustics® technology, created and built by TextSpeak Design Group, U.S.A
**TECHNICAL SPECIFICATIONS**

**Size and Weight**
- **TS-04 Speech Generating Speaker**
  - L: 5.3 inches  W: 4.0 inches  H: 1.5 inches  W: 10 oz
- **TS-04 Wireless Keyboard**
  - L: 13 inches  W: 7 inches  H: 1.2 inches  W: 1 lb 2 oz

**Power and Battery**

**Speaker Operation**
- 9 Volt AC Adaptor
- Battery 9V Alkaline MN1604 or Equiv
- Battery Life (est) 100 Hours based on 10 minutes/hour use

**Keyboard Operation**
- Auto Power On/Off
- Battery 2 AAA Alkaline
- Battery Life (est) 6-12 months

**Keyboard Access**
- Wireless QWERTY full size, compact style keyboard, 10 foot range

**What's In The Box?**
- One TextSpeak TS-04 Speech Generating Speaker
- One TextSpeak Wireless Keyboard
- Power transformer for DC Operation
- Batteries
- Instruction manual

**Price breakthrough!** Speech generation with groundbreaking opportunity for ownership. Prices starting around $500.

**Ordering Information:**

**Models**
- **TS-04** Speaker and wireless keyboard
- **TS-04-LK** Speaker and wired Large Key keyboard
- **TS-04-NK** Speaker without keyboard

**Contact us:** Tel (203) 557-0222  Fax: (866)408-4937  sales@textspeak.com

**OPERATION AND FEATURE SUMMARY**

**Technical – How the TS-04 Works**

- Unlimited Phoneme Based Word creation
- Real time conversion for continuous text generation
- English dictionary modeled for male and female speech
- 24 mHz Flash Based DSP Processor with integrated Codec
- 2KB Flash hold 30 Item Index of 60 characters each for phrase storage
- Sleep mode power use 125 mW

The TS-04 Speaker performs text-to-speech synthesis based on concatenative samples. The units for sampling can vary from whole words down to phoneme markers. A corpus of pre-recorded words is stored in onboard Flash Memory using patented multilevel storage (MLS) memory and a mapping of the various sub-word parts is held in a lookup table. The speech creation concatenates speech elements to produce words. Speech may be generated in real time, with unlimited vocabulary. Speed and volume generation are keyboard controlled after power-up.

The system process flow includes Data reception, text normalization, phoneme mapping, MLS, memory and audio D/A conversion.

TS-04 Keyboard/ Speaker Radio links utilize 2.4 GHZ Channel Hopping transceivers. External keyboards are interfaced via auto-detecting PS/2 or USB keyboard connectors.

**TS-04 includes a mini-‘full-size’ wireless keyboard, ready to use right out of the box!**

**Telephone conversations are easy to manage with any standard speakerphone**

**Up to 30 phrase may be pre-programmed. Internet entry pre-shipment phrase programming is available**

**Smart Power management support long battery life and simple operation**

**Typing generates speech you continuously type, every time you press enter, or after every word**

**TS04 series accepts standard and specialty wired keyboards compatible with a standard PC or MAC via PS/2 or USB**

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