Channel Talker

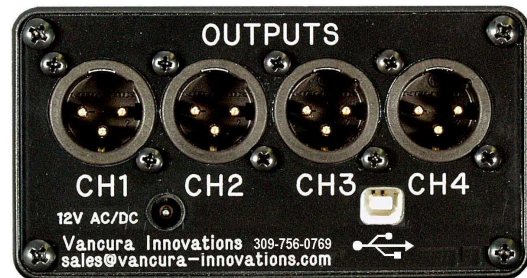## Four Channel Audio Test Tone Generator With Voice ID.

Front

Back

Full four-channel Voice ID! Forever end confusion over where each audio channel is being routed. Each of the four tone channels has a unique voice ID that will allow you to distinguish it from any other. User programmable voice ID can say almost anything in several different languages. Even create a bilingual ID. Program your company name, location, and channel information to be spoken in an easy to understand synthetic voice. Messages like "This is Leading Edge Studios, LA City Center, audio line four" are unmistakable and provide critical information. A wide variety of sound effects are available to enhance presentation.

Front Panel Switches Allows Complete Control:

- Select one of three preset frequencies. Default frequencies are: **1000 Hz, 400 Hz, and 250 Hz.**
- Select one of three preset amplitudes. Default amplitudes are **4 dBu, 0 dBu, and -10 dBu.**
- Select **Tone With Voice ID, Continuous Tone,** and **Tone & ID OFF**.
- Select **Internal** Tones/Sweep or **External** Audio sources.

Flexibility And Consistency:

- External audio input allows you to use your own special tones, audio, or voice communication. Voice ID functions with both internal and external audio sources.
- Convenient 20,000 Ohm balanced input and 50 Ohm balanced output.
- Standard full size XLR audio connectors. No special adaptors needed.
- Internal frequencies are digitally synthesized and crystal controlled.
- Amplitudes are controlled with a digital potentiometer. No wiper or switch noise.
- Compact low-voltage (12VDC) design can be easily used with mobile equipment.
- Has sweep function to allow a quick band pass test.
- Handy Front Panel LED indicates when Voice ID is active.

Voice ID Phrase Editing Software Included:

- Channel Talker Voice ID can say almost anything. Phonemes are optimized for English, but can be utilized to speak several different languages.
- Create common messages to be played on each channel and a unique message for each channel.
- Text-to-phoneme dictionary with over 125,000 words allow easy construction of phrases to speak.
- Customize your presentation by employing the available 72 speech elements (allophones), 43 sound effects, and 12 DTMF Touch Tones.

- Voice ID messages are downloaded to non-volatile EEPROM memory.
- Change the message as often as needed. 1,000,000 write cycles typical.

Optional Calibration and Configuration Software:

- Override and emulate all four of the front panel switch functions including selecting the external input.
- Select one of 5 frequencies. Programmable frequency selection range is 45 Hz to 7812 KHz.
- Select one of 5 amplitudes. Programmable amplitude selection range is -10 dBu to 8dBu.
- Program different frequencies and amplitudes into the front panel switches.
- Any changes made to the control settings can be retained indefinitely by saving them to EEPROM memory.

Channel Talker Specifications:

- **Tone:** Single internal audio tone is generated from a crystal controlled square wave filtered with an 8 pole Bessel digital filter sampled at 64 times the fundamental frequency. The third harmonic is attenuated more than 60 dB. Switch selectable frequencies are 1000, 400, and 250 Hz. Sweep function sweeps from 180 Hz to 7.8KHz in 250 steps.
- **Amplitude:** Maximum usable amplitude internal or external is 8 dBu. Switch selection for internal tone of 4, 0 and -10 dBu. Amplitude switch does not affect external input signal.
- **Voice ID:** Synthetic voice generator with 72 speech elements (allophones), 43 sound effects, and 12 DTMF Touch Tones. Configurable voice loudness, speed, and pitch characteristics.
- Speech memory for 218 phonemes (about fifteen seconds of speech). A Phrase can call other phrases to optimize memory usage. 16 phrases maximum, with 5 being typical.
- **External Audio/Internal Tone or Sweep:** Select from either internal tone/sweep or user provided external audio. Voice ID functions with both internal and external audio sources. Sweep frequency: 180Hz to 5859Hz nominal.
- **Universal Serial Bus (USB) Interface:** Standard USB-B interface. For connection to PC and customizing program. Interface is USB 1.0 compliant.
- **Input/Output:** External Input: balanced 20,000 Ohm. Outputs: balanced 50 Ohm. Unity pass-through gain nominal.
- **Input Current:** 200ma Maximum.
- **Input Voltage:** 12VDC or 9VAC to 12VAC 50/60Hz. Connector 2.1mm X 5.5mm X 11mm (inside x outside x Length)
- **Input power adapter:** 120VAC converter to 12VDC @ 200 ma.
- **Temperature:** 0 deg C to 50 deg C (32 F to 125 F) non-condensing.
- **Size L X W X H:** 185mm x 107mm x 60mm (7.25in x 4.22in x 2.4in).

Voice ID Phrase Editing Software Specifications:

- Software requires Windows XP, 2000, NT, 98 or 98SE. 333 MHZ processor, 64MB RAM, 25M Bytes of Disk space, 800x600 monitor or larger, and mouse.
- USB drivers are included.
- Program up to 218 phonemes into 16 phrases. Configurable voice loudness, speed, and pitch.
- Select words from dictionaries, edit word sounds, and create new words and sounds.
- Play phrases, words, and individual phonemes through the Channel Talker audio outputs.
- Text-to-phoneme dictionary over 125,000 words for text-to–speech simplicity.

Optional Calibration and Configuration Software Specifications:

- Complete computer remote operation of the Channel Talker through a USB interface.
  - o Selection of one of five preset frequencies, Default: 60, 250, 400, 1000, and 2000 Hz.
  - o Selection of one of five preset Amplitudes. Default: -10, 0, 2, 4, and 8 dBu.
  - o Select TONE ONLY, ID & TONE OFF, ID & TONE ON, and SWEEP modes.
  - o Select Internal or External tone source.
- Change any of the preset frequencies. Range: 45 Hz to 7812 Hz.
- Calibrate/change any of the preset amplitudes. Range: -10 dBu to 8 dBu.
- Change start and stop frequencies for Sweep function.
- Calibrate/change External input pass-through gain. Range 0.13 to 1.3.
- Restore factory default settings or last saved calibration settings.
- Save all changes/calibrations in non-volatile EEPROM memory for permanent use.

Pricing: **(Dealer inquiries welcome)**

Channel Talker: $599 each. Includes Channel Talker, AC adapter, and CD with Voice programming software, USB driver, and operating manual in PDF format.
Optional USB-A to USB-B Cable: $9.95. This is a standard 1.8M USB-A to USB-B cable.
Optional Calibration and Configuration Software: $99.
Optional Rack Mount Kit: 2U high, black semi-gloss aluminum 19" rack panel with one, two, or three cutouts. **CT-RM-1: $59; CT-RM-2 $69; CT-RM-3: $79**. (QT-RM-1 panel is reversible for left or right side mounting)
Optional Factory Programmed Custom Message To Your Specifications: $50 Limit 218 phonemes (about 15 sec. of speech).
Shipping: Shipping and handling charges are based on method of shipping.

Note: The information in this document is believed to be accurate. Vancura Innovations, LLC assumes no responsibility for possible errors and omissions. Specifications are subject to change without notice.