Channel Talker –4DAP

Two Digital Stereo and Four Analog Channel Audio Test Tone Generator With Voice ID.

Front

Back

2 AES digital stereo outputs and four analog channels each with 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, 440 Hz, and 400 Hz.**
• Select one of three preset levels. Default analog levels are: **4 dBu, 0 dBu, and -10 dBu. Digital: -20 dBFS, -30 dBFS, and –14 dBFS.**
• Select **Tone With Voice ID, Continuous Tone,** and **Tone & ID OFF**.
• Select Tones, Frequency Steps, or Microphone sources.
• Operates at industry standard 48KHz and professional audio 98KHz.

Flexibility And Consistency:

• AES digital serial on BNC connectors with standard 75-Ohm output.
• Analog audio on convenient full size XLR audio connectors with Balanced50-Ohm output.
• Microphone input allows you to communicate over the channels.
• Voice ID available in all audio modes.
• Six-Step bandwidth mode to allow quick band pass testing.
• Internal frequencies are digitally synthesized and crystal controlled.
• Audio levels are controlled with a digital potentiometer. No wiper or switch noise.
• Dual power capability from 9V battery or low-voltage (12VDC) adapter. Can be easily used with mobile equipment.
• 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, and 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.
- Select one of 5 frequencies. Programmable frequency selection range is 45 Hz to 7812 KHz.
- Select one of 5 output levels. Programmable level selection range is -10 dBu to 8dBu.
- Program different frequencies and levels 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, 440, and 400 Hz. Output 0 dBu & -20 dBFS +/-0.1dB, others +/-0.2dB.
- **STEP:** 6 stepped tones 125 Hz, 250, 500, 1K, 2K, & 4KHz. Duration 500ms each repeating continuously.
- **Microphone:** Internal, front panel, microphone allows user to communicate over all channels being tested.
- **Level:** Maximum usable audio output is 8 dBu. Switch selection for internal tone of 4 dBu, 0 dBu and -10 dBu. Level switch does not affect microphone input.
- **Voice ID:** Selectable to overlay all outputs. 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:** Storage for 218 phonemes (about fifteen seconds of speech). LED indicates voicing on channel 1.
- **AES Stereo digital outputs:** Two digital stereo outputs provide 4 audio test channels (two left/right pairs). Serial output 1.5VPP nominal into 75 Ohms. Digital channels match analog output channels. Selectable digital rates of 48KHz and 96KHz. All clocking and tones are in phase.
- **Audio Output:** Output balanced 50 Ohm on full size XLR male connectors.
- **Universal Serial Bus (USB) Interface:** Standard USB-B interface. For connection to PC and customizing program. Interface is USB 1.0 compliant.
- **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). Compatible with automobile battery voltage (13.2VDC).
- **Battery Operation:** 9VDC battery for short-term portable operation. Operates when AC adapter is not connected.
- **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:** 195mm x 195mm x 60mm (7.7in x 7.7in x 2.4in).

Voice ID Phrase Editing Software Specifications:
- Software requires Windows XP, 2000, NT, 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.
    - Selection of one of five preset frequencies, Default: 60, 400, 440, 1000, and 2000 Hz.
    - Selection of one of five preset Amplitudes. Default: -10, 0, 2, 4, and 8 dBu.
    - Select TONE ONLY, ID & TONE OFF, ID & TONE ON, and STEP modes.
    - Select Tones, Steps, and microphone source.
- Change any of the preset frequencies. Range: 45 Hz to 7812 Hz.
- Calibrate/change any of the preset Levels. Range: -10 dBu to 8 dBu.
- Calibrate/change microphone input gain. Range 0.13 to 1.3 (20dB).
- 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 CT-4DAP: $699 each. Includes CT-4DAP, AC adapter, and CD with Voice programming software, USB driver, and operating manual in PDF format. Battery not included.
Optional USB-A to USB-B Cable: $9.95. Standard 1.8M USB-A to USB-B cable.
Optional Calibration and Configuration Software: $99.
Optional Rack Mount Kit: 2U high, black aluminum 19" rack panel with one or two cutouts. **CT-4DAP-RM-1: $59; CT-4DAP-RM-2 $69;** (CT-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.