



For
Vocals
that
Turn
Heads



VOICEWORKSPLUS
HARMONY | MODELING | EFFECTS

Advanced Vocal Processing for Stage and Studio

Create attention-getting vocals with VoiceWorksPlus from TC-Helicon. VoiceWorksPlus features an extensive effects list including 4th generation TC-Helicon Harmony, Voice Modeling™, and the Transducer and μMod (micromod) blocks from VoicePro. A quiet, Burr Brown-based mic preamp, transparent pitch correction, and the TC Electronic reverb, delay and dynamics algorithms from the original VoiceWorks round out its capabilities.

Whether you play live gigs with MIDI sequencer backup or you record songs in your studio (or both!), VoiceWorks Plus offers stunning vocal processing that will grab the attention of your listeners.

Features:

- ▶ Interchangeable voice modeling or harmony
- ▶ Advanced harmony humanization and control
- ▶ Individually-adjustable harmony voice gender
- ▶ Megaphone effects with high Q band limiting
- ▶ Distortion
- ▶ Chorus
- ▶ Microtuned doubling
- ▶ Flange with pitch feedback
- ▶ Pitch correction
- ▶ Reverb and delay with tap tempo
- ▶ Compressor and gate
- ▶ De-ess and 3 band EQ
- ▶ Footswitch or pedal control
- ▶ Burr brown mic preamp with phantom power for condenser mics
- ▶ Stereo or mono output

4th Generation Harmony Enhancements:

Each harmony voice now has:

- ▶ Portamento and pitch-smoothing
- ▶ Humanization style and amount settings
- ▶ Energy (volume) level randomization
- ▶ Harmony or doubling voice assignment
- ▶ New vibrato styles

Control mode enhancements include:

- ▶ New Chord mode allows natural keyboard playing
- ▶ Scale mode MIDI override
- ▶ Increased portamento accuracy
- ▶ Automatic MIDI note extension by lead voice
- ▶ Improved notes voice allocation
- ▶ MIDI performance of Harmony Hold™



TC-HELICON
VOCAL TECHNOLOGIES



High quality mic preamp with 48V phantom power | 1/4" jack doubles as line input or aux FX input | Stereo or mono TRS balanced line outputs | S/PDIF digital input and output | I/O for MIDI harmony control, editing and backup | Pedal or footswitch input for handsfree control | International switching power supply

Technical specifications:

Digital Inputs and Outputs

Connectors: RCA phono (S/PDIF)
 Formats: S/PDIF (24 bit), EIAJ CP-340, IEC 958
 Sample rates: 44.1 kHz, 48 kHz
 Frequency response DIO: DC to 22/23.9 kHz ± 0.01 dB @ 44.1/48 kHz

Analog Inputs

Connectors, balanced: Mic.: XLR, line: 1/4" phone jack
 Impedance: Mic.: 3.6/1.8 kOhm, Line: 21/13 kOhm
 Balanced/unbalanced: +24 dBu to +0 dBu
 Line input level @ 0 dBFS: -12 dBu to +12 dBu
 Line sensitivity @ 12 dB headroom: 24 dBu/-4 dBu to -61 dBu/-41 dBu
 Mic. in high sens @ 0 dBFS: Pad off/on -14 dBu/6 dBu to -51 dBu/-31 dBu
 Mic. in norm sens @ 0 dBFS: Pad off/on -2 dBu/18 dBu to -39 dBu/-19dBu
 Line, mic. @ min gain, dynamic range: > +92 dB, 20 Hz - 20 kHz
 NF/Vi @ max. micamp. gain, Rg = 200 ohm: < +2 dB / -127.4 dBu
 THD: < -100 dB (0.001 %) @ 1 kHz
 Line frequency response: +0/-0.1 dB, 20 Hz to 20 kHz
 Mic. frequency response, max gain: -1.5 dB @ 40 Hz, +0/-0.1 dB (200 Hz to 20 kHz)
 Crosstalk: < -85 dB, 20 Hz to 20 kHz
 A to D conversion: 24 bit, 128 x oversampling bitstream
 A to D delay: 0.65/0.70 ms @ S.R. = 48/44.1 kHz

Analog Outputs

D to A conversion: 24 bit, 128 x oversampling bitstream
 D to A delay: 0.63/0.68 ms @ S.R. = 48/44.1 kHz
 Connectors, balanced: 1/4" TRS phone jack
 Output impedance: 40 ohm
 Max. output level: 20 dBu/14 dBu, R-load = 1200 ohm
 Balanced/unbalanced: variable up to +20 dBu
 Output range: > +104 dB, 20 Hz to 20 kHz
 Dynamic range: < -98 dB (0.0013 %) @ 1 kHz
 THD: 20 Hz to 20 kHz, +0/-0.3 dB
 Frequency response: < -100 dB, 20 Hz to 20 kHz
 Crosstalk:

EMC

Complies with: IEN 55103-1 and EN 55103-2
 FCC part 15, Class B, CISPR 22, Class B

Safety

Certified to: IEC 65, EN 60065, UL6500 and CSA E60065
 CSA FILE #LR108093

Environment

Operating temperature: 32° F to 122° F (0° C to 50° C)
 Storage temperature: -22° F to 167° F (-30° C to 70° C)
 Humidity: Max. 90 % non-condensing

Control Interface

MIDI: In/out/thru: 5 pin DIN
 Pedal: 1/4" phone jack

Supplementary

Display: 16x 2 character LCD display
 Dimensions: 19" x 1.75" x 8.2" (483 x 44 x 195 mm)
 Weight: 4.1 lb. (1.85 kg)
 Mains voltage: 100 to 240 VAC, 50 to 60 Hz (auto-select)
 Power consumption: <15 W
 Warranty parts and labor: 1 year

SWITCH-3 Footswitch

This 3-button footswitch is available for:
 ▶ VoiceWorks ▶ VoiceWorksPlus ▶ VoiceDoubler

Get remote control of:

- ▶ Harmony mute
- ▶ Bypass
- ▶ Preset up
- ▶ Preset down
- ▶ etc.



Note: Due to continuous development and standardization all specifications are subject to change without notice



Like most TC-Helicon products, VoiceWorks Plus has a FREE dedicated editor for PC and MAC



TC-HELICON
VOCAL TECHNOLOGIES