Technical Specifications - VoicePrism Plus

DIGITAL I/O
Connectors:	XLR (AES/EBU) RCA Phono (S/PDIF)
Input Format:	24 Bit
Output Format:	24 bit processed audio on VoiceCraft Card AES/EBU and S/PDIF
	24 bit unprocessed ADC output on VoicePrismPlus S/PDIF

DIGITAL OUTPUT
Output Dither:	HPF/TPDF dither 24/20/16/8 bit (VoiceCraft Card outputs only)
Sample Rates:	44.1kHz; 48kHz
Frequency Response DIO:	DC to 23.9 kHz ± 0.01 dB @ 48 kHz

ANALOG INPUTS
Connectors:	XLR Balanced (pin 2 hot), TRS 1/4"
Impedance (Bal/Unbalanced-Line):	28 kOhms
Max. Input Level Line:	+21dBu
A to D Conversion:	24 bits, 100dB dynamic range (A-weighted)
THD:	0.005% @ 1kHz (A-weighted)
Frequency Response:	10Hz - 12kHz ±0.8dB, -2dB @ 20kHz

ANALOG OUTPUTS
Connectors:	TRS 1/4"
Impedance:	680 Ohms (stereo out): 340 Ohms (mono out)
Max. Output Level:	+21 dBu
D to A Conversion:	24 bits, 100dB dynamic range (A-weighted)

ANALOG THROUGH
Dynamic Range:	-97dB typical (A-weighted)
THD:	0.008% @ 1kHz typical
Frequency Response:	10Hz - 12kHz ±0.8dB, -2dB @ 20kHz
EMC Complies with:	EN 55103 1/2, ENS 5022 Class B, EN61000-4-2/3/4/5/6/11
Safety Certified to:	EN 60065, CAN/CSA E60065-00, UL 6500

ENVIRONMENT
Max. Operating Temperature:	50 degrees Celsius (122 degrees Fahrenheit)
Min. Storage Temperature:	-25 degrees Celsius (-13 degrees Fahrenheit)

CONTROL INTERFACE
MIDI:	In/Out/Thru: 5 Pin DIN
GPI, Pedal:	1/4" Stereo Jack

POWER
Mains Voltage:	100 to 240 VAC, 50 to 60 Hz
Power Consumption:	40W
Fuses:	250V 500mA Slow Blow (North America and Japan) 250V 500mA Time Lag (Europe and United Kingdom)

GENERAL
Finish:	Painted Galvanized Steel, ABS Plastic Bezel, Knobs and Buttons
Display:	128 x 64 Graphics LCD
Dimensions:	19" x 3.5" x 8.2" (483mm x 89mm x 208mm)
Weight:	7.8 lb (3.54kg)
Warranty Parts and Labor:	1 year

VoicePrism – for technical specifications please visit www.TC-Helicon.com

Get Connected:
Wire your VoicePrismPlus permanently into your studio via the balanced TRS line in.

Outputs:
VoicePrismPlus comes standard with stereo TRS balanced Outputs.The VoicePrismPlus S/PDIF Output supports 24 bit resolution and there's two additional connections for Digital I/O.

Footswitch:
VoicePrismPlus supports use of external momentary type pedals to control Bypass and Step Mode.

MIDI:
VoicePrismPlus is compatible with a wide variety of external MIDI controllers, so you can recall MIDI presets and have real-time control of internal parameters.

Common Sense:
Take your VoicePrismPlus with you anywhere in the world. The internal auto-sensing power supply automatically adjusts itself to the voltage supplied.

IDENTITY CRISIS?
VOICE MODELING - a first from TC-Helicon

IS THE VOICE YOU HEAR A PALE REFLECTION OF WHAT YOU WANT?

GET DIRECT CONTROL OVER THE CHARACTER ELEMENTS OF A LIVE OR RECORDED VOICE!
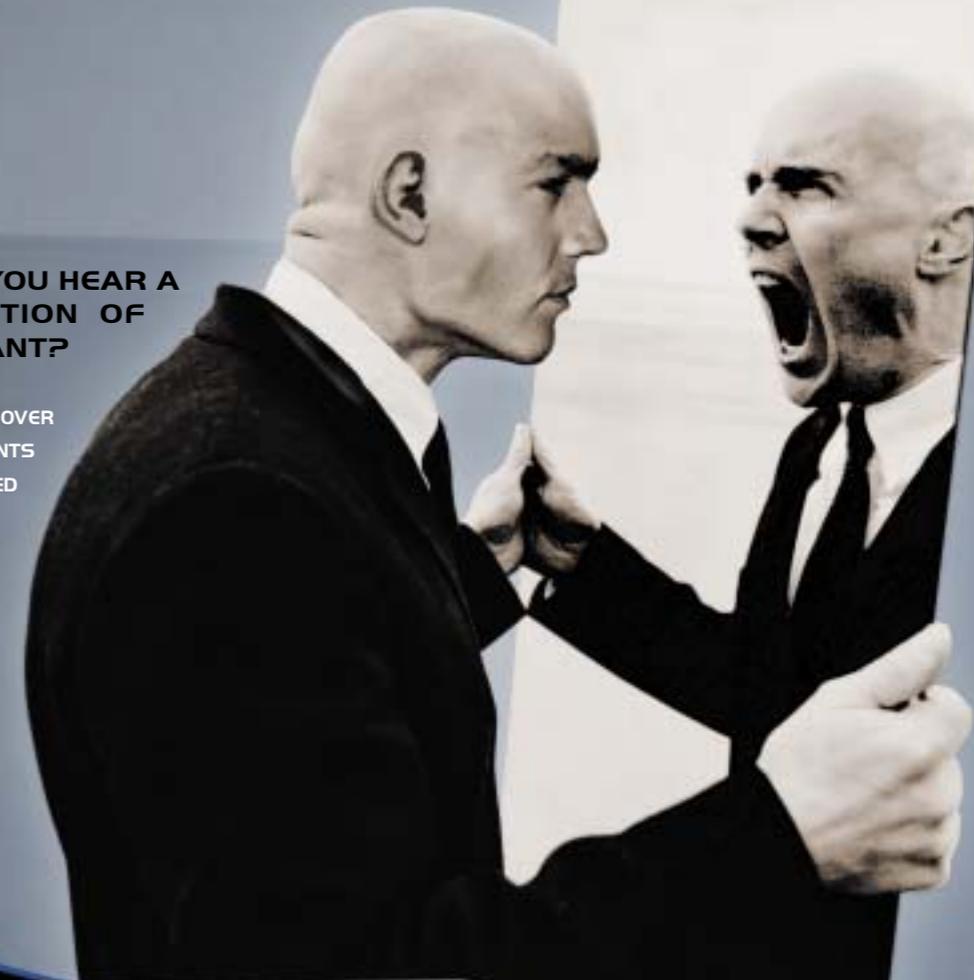
VoicePrism Plus
HUMAN VOICE MODELING | FORMANT PROCESSOR

TC-HELICON
VOCAL TECHNOLOGIES

www.TC-HELICON.com

TC-HELICON

IS THE VOICE YOU HEAR A PALE REFLECTION OF WHAT YOU WANT?

Preset window
128 fully editable presets give you a wide range of styles and effects right out of the box.

Soft knobs
You decide which parameters you want instant access to in each preset.

Encoder knob & editing buttons
Preset browser buttons enable you to quickly jump to Preset groups sharing common effects. Direct edit buttons let you jump immediately to effects parameters within the preset - quick adjustments are easy to make.

Mic input area
Front panel mic jack allows immediate access to the high quality, 48V phantom powered mic preamp section.

Main Features

▸ Voice Modeling™ - a first from TC-Helicon

▸ 4 voice backing-vocal harmony with independent humanizing controls

▸ TC Electronic Reverbs, Delays, Chorus, Flange, Compression, EQ

▸ High-quality 48V phantom mic preamp with 24 bit digital converters

▸ AES/EBU S/PDIF I/O

▸ Balanced TRS Analog I/O

▸ Ultra-easy interface with context sensitive Help and Preset Browser

A POWERFUL VOICE...

VoicePrismPlus is the first vocal tool of its kind, with realtime Voice Modeling™ technology that lets you enhance, sculpt and shape a lead vocal, build backing vocals, compress, equalize and process them - all under MIDI and preset control.

FOR YOU...

VoicePrismPlus is designed for people who work with vocals and who keenly understand the challenges of getting great performances that really make the music come alive. With VoicePrismPlus you can try out new ideas and explore new creative ground - taking your vocals and your music further.

IN LIVE PERFORMANCE...

Voice Modeling can expand the range of material one singer can comfortably sing . Automatic intelligent and natural sounding harmonies (up to four voices) create a big-studio sound in small-group situations. And the on-board mic-pre and TC effects let you bring studio-quality processing along to the gig. MIDI and footswitch control are supported, naturally.

IN THE STUDIO...

Singing your own demos? You can now take your own voice further by adding Voice Modeling™'s Inflection, Growl, Rasp and Breath. Recording other voices? Less experienced voices can get a big lift, and a lot more confidence with Voice Modeling™ of Vibratos, Resonance etc.. Looking for inspiration? Hear what that song would sound like with backing vocals, or make that dance track sing by pitching and processing those vocal samples. From enhancement to new sounds - it's in this box.

COMPREHENSIVE AND INNOVATIVE

The high-quality mic pre/analog/digital inputs feed two parallel channels containing compressors, EQ's, Voice Modeling™, Harmonization and two TC effects blocks. It's programmable, controllable via MIDI in realtime, preset-driven, and has analogue and digital outputs.

VoiceCraft
HUMAN VOICE MODELING CARD

Upgrade your VoicePrism to VoicePrismPlus with the VoiceCraft VoiceModeling™ card. The front panel controls are the same. All improvements and new features are neatly contained within the internal software, so you can avoid the hassle of learning new controls.
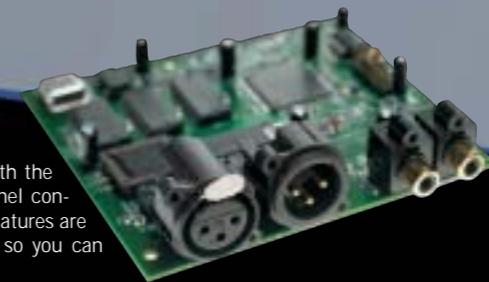
Human Voice Modeling

Get direct control over the character elements of a live or recorded voice!

REAL VIBRATO
Why does it sound so natural? Because our Voice Modeling Vibrato is a complex model based on extensive analysis of real singers from all styles of music - it's not just an LFO.

RESONANCE
Voices depend on the body that sings them for their unique sound. Head, chest and throat resonance all depend on physiology. Our Warp styles cover a range of sounds and colours, letting you dial up a chest tone, dial down a nasal tone - from the subtle to the dramatic.

INFLECTION CURVES
Vocal character is also found in the way singers begin their phrases, scooping or falling into their notes. Voice Modeling Inflection can intelligently identify phrase beginnings, applying user-selected styles adjustable in realtime via MIDI.

SPECTRAL
Physiological differences also give every singer a unique overall EQ applied in the vocal tract. VoicePrismPlus Spectral EQ works the same way! The result? You can dial up a high-boost curve but consonants and esses don't split your eardrums.

GLOTTAL
Now you can add extra breathiness, whisper, deep growl and "whiskey and cigarettes" rasp to your voice. These effects are normally associated with vocal damage and are difficult to perform. You just dial up, audition and change at will.

BACKGROUND TO HUMAN VOICE MODELING
Want to know more about Voice Modeling™, Pitch Shifting and Voice Transformation? Get this informative text written by Patrick Bastien of TC-Helicon.

The VoicePrismPlus Demo CD Contains:

Hands-on sessions with dry and wet tracks: real user tracks with explanatory text describing how the mix was produced. An extensive knowledge base is included containing manuals, tech specs and more. You will find reviews of the VoicePrism from top industry magazines. The CD is multilingual, covering English, French, German and Spanish and there's a Demo-Video there too!

Check out the CD and you'll discover why Voice Modeling™ will change your vocal possibilities!

Free Demo CD
Click Here

www.TC-HELICON.com