

Virtual Voice Processor II:

A double mike processor, FFT applied to Voice processing

Unique: 2 processing channels



Remote control by software

Introduction to the VVP II

Applying FFT to audio processing has been recognised as being one of the major steps forward in the field over the last 20 years.

IDT has, now brought this know-how to Voice Processing.

The VVP II allows you to process 2 audio sources independently. 1 balanced Mike input on a pre-amp and 1 electronically balanced line input. Large number of advantages (gate, de-esser, processing, parametric eq.)

Features

- Mike input on transformer
- Line input, electronically balanced
- Input EQ
- Noise Gate
- FFT Processing
- Sibilance Canceller
- Output EQ
- Limiter
- Analogue Outs
- Digital I/O's
- AES / EBU E/S (32, 44.1, 48, 96 kHz), synchro AES I/O
- RS 232
- TCP/IP ethernet (optional)
- GPI 24 inputs
- Architecture open to plug-ins
- Multi-user function
- Save on Compact Flash™

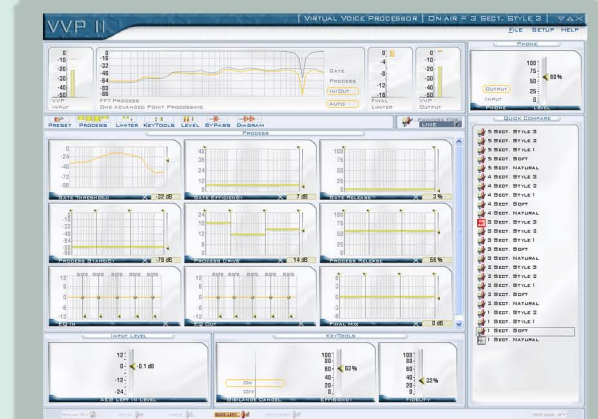
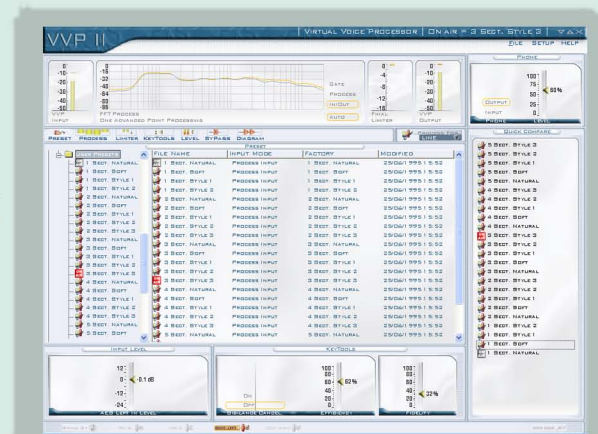
Driving the VVP II

The VVP II is supplied with the graphic interface MASTER GATE which runs under Windows® 2000 and XP. It can be remote controlled via modem or ethernet TCP/IP (optional).

The advantages of the VVP II

With the VVP II, all problems of sibilance, pop or background noise are totally cut-out. The signal is analysed by FFT, focusing on the frequencies of voice and eliminating the undesired areas of the spectrum.

Creation of customised presets so that each DJ can put his/her real talents to the fore.



PROCESS 1



PROCESS 2



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Specifications

General specifications :

Frequency response : +0 / - 0.4dB, 10-20000Hz (Bypass mode).
System distortion : < 0.01% THD, de-emphasised
Signal to Noise : 92 dB unweighted, 20 Hz - 20 kHz
I/O Delay : ~3 milliseconds
Internal sample rate : 96 kHz
Internal resolution : 40 bit floating point
I/O resolution : 24 bit
Maximum Overshoot : 0.1 dB
Phase Response : Linear 20 Hz - 20 kHz
Process Architecture : FFT (Fast Fourier Transform)
DSP : 4 Sharc 21065,
High pass filter, adjustable from 0 to 150 Hz
Maximum number of Factory Presets : 30
Maximum number of User Presets : 60
Remote contact closure : 24 inputs
Compact Flash memory slot

Analogue Mic Input :

Configuration : Mono
Impedance : > 1.5 kOhms
Type : Balanced on transformer
Mic pre-amplifier : Adjustable from -40 dB to -70 dB
Equivalent Input Noise : < -120 dBu
Common Mode Rejection Ratio: 90 dB
Connector : One XLR female
AD Conversion : 24 bit 128X oversampled

Analogue Line input :

Configuration : Mono
Impedance : > 6 kOhms
Type : Electronically balanced
Maximum input level : +25 dBu, for THD + N < 0.01%
Equivalent input noise : < -84 dBu
Common Mode Rejection Ratio : 90 dB
Connector : One XLR female
AD Conversion : 24 bit 128X oversampled

Analogue Audio Output :

Configuration : Stereo
Source impedance : < 1 Ohms
Type : Electronically balanced
Maximum Output Level :
+24 dBu, on 10 kOhms Load for THD + N < 0.01 %
+18 dBu on 600 Ohms Load for THD + N < 0.05 %
Signal to Noise : > 100 dB unweighted, 20 Hz - 20 kHz
Connector : Two XLR Male
DA Conversion : 24 bit 128X oversampled

Digital Audio Input :

Configuration : Stereo per AES/EBU (AES3), 16, 18, 20 or 24 bit resolution.
Impedance : 110 ohms
Sampling Rate : 32, 44.1, 48, 96kHz autodetect
Status bits : Input channel status is decoded for control.
Input User bits are optionally passed through the output
Connector : XLR female, EMI-suppressed
Filtering : RFI filtered, Effective 0.5-1000MHz

Digital Audio Output :

Configuration : Stereo per AES/EBU (AES3), 20 or 24 bits resolution.
Impedance : 110 ohms
Sampling Rate : Software selectable , free running at 32kHz +/- 10 PPM, 44.1kHz +/- 10 PPM, 48kHz +/- 10 PPM, 96kHz +/- 10 PPM.
Synchronisation mode : Internal free running or external or delivery mode for 32, 44.1, 48, 96kHz
Word Length : Selectable 18, 20, 24 bits.
Jitter : Less than 5 ns rms.
Status bits : Output channel status can be generated.
Input User bits are optionally passed through the output
Connector : XLR female, EMI-suppressed
Filtering : RFI filtered, Effective 0.5-1000MHz

Digital Sync Input / Output :

Configuration : Two mode, input to provide sync, Output to deliver sync
Impedance : 75 ohms
Sampling Rate for Input mode : 32, 44.1, 48, 96kHz Sampling Rate for Output mode : Software selectable , 32kHz +/- 10 PPM, 44.1kHz +/- 10 PPM, 48kHz +/- 10 PPM, 96kHz +/- 10 PPM.
Connector : BNC female,

Remote computer interface :

Configuration : Two RS 232
Connector : One Sub-D 9 pin female and one Sub-D 9 pin male on the back side and one Sub-D 9 pin female on the front panel
Baud rate : Auto selectable baud rate 9600 to 115200 bauds

Remote control

Configuration : Fully remote controllable by external modem or with the TCP/IP option
Rate : 9600 to 115200 baud

Local Switch GPI :

Configuration : 24 inputs software controllable

Compact Flash Memory :

Type : Compact flash
Configuration : 1 slot for save , recall and upgrade facilities

Power :

Voltage : 80 to 265 VAC, 50 - 60 Hz, 130 VA
Connector : IEC, EMI-suppressed
Safety Standard : CE / DBT

Environmental and Dimensions :

Operating Temperature : 0° to 50° C or 32° to 122° F
Humidity : 0 to 95% RH, non condensing
Size : 19", One rack unit high.
Weight : 6 Kg - 13.2 lb.

