AUTOTALENT v0.2 reference card

CONTROL INPUTS:

CONCERT A
Value in Hz of middle A, used to tune the entire algorithm.

FIXED PITCH
Pitch (semitones) toward which pitch is pulled when PULL TO FIXED PITCH is engaged.
- FIXED PITCH = 0: middle A
- FIXED PITCH = MiDi pitch - 69

PULL TO FIXED PITCH
Degree to which pitch is pulled toward FIXED PITCH. 0: use original pitch.
1: use FIXED PITCH.

NOTES in SCALE
Specifies to various parts of the algorithm whether each note is: not in the scale (-1), in the scale (0), or in the scale and snapped toward (1).

CORRECTION STRENGTH
Strength of pitch correction. 0: no correction, 1: full correction.

CORRECTION SMOOTHNESS
Smoothness of transitions between notes when pitch correction is used.
0: abrupt transitions, 1: smooth transitions.

PITCH SHIFT
Number of notes in scale by which output pitch is shifted.

OUTPUT SCALE ROTATE
Number of notes by which the output scale is rotated in the conversion back to semitones from scale notes. Can be used to change the scale between major and minor or to change the musical mode.

LFO DEPTH
Degree to which low frequency oscillator (LFO) is applied.

LFO RATE
Rate (in Hz) of LFO.

LFO SHAPE
Shape of LFO waveform. -1: square, 0: sine, 1: triangle.

LFO SYMMETRY
Adjusts the rise/fall characteristic of the LFO waveform.

LFO QUANTIZATION
Quantizes the LFO waveform, resulting in chipmunk-like effects.

FORMANT CORRECTION
Enables formant correction, reducing the "chipmunk effect" in pitch shifting.

FORMANT WARP
Warp the formant frequencies. Can be used to change gender/age.

VALUES OF OUTPUT SCALE ROTATE
Used to change musical modes.

CONTROL OUTPUTS:

DETECTED PITCH
Detected pitch of input signal.
DETECTED PITCH = 0: middle A
MIDI pitch = DETECTED PITCH + 69

DETECTION CONFIDENCE
Confidence (between 0 and 1) of pitch estimate. Values above -0.7 may be considered voiced.

MIX
Blends between the modified signal and the delay-compensated input signal.
1: wet, 0: dry.