Alex Danson

## THE WEIRD WIRED SAX

for Saxophone and Gloves

#### PERFORMANCE NOTES

#### **Instrumental/Technical requirements**

This piece can be played by any instrument in the saxophone family.

The interactive interface used here consists of:

1. The I-CubeX System manufactured and distributed by Infusion Systems

(infusionsystems.com), consisting of a pair of gloves with sensors in the fingertips, sending MIDI data to its own proprietary MIDI interface.

- 2. A foot pedal connected to another MIDI interface, sending CC#64
- 3. A led light connected to the iCube, to signal the performer the action of pressing the pedal

Other technical devices used:

4. An quadraphonic computer audio interface (4 speaker system; the speakers will be placed in the four corners of the performance venue)

5. A couple of clip-on microphones connected to the audio interface. (The role of the second microphone is only amplification- it can be omitted)

5. A Macintosh laptop with the Max/MSP application installed. Drivers for the audio and MIDI interfaces need to be installed also.

6. The Max/MSP programmed patch

7. A computer operator to adjust the mix levels. Pedal messages can be doubled by the Space bar. The Left/Right arrow keys can also be used to correct performer's mistakes in pressing the pedal

Data flow:

The gloves and the foot pedal send MIDI information to the computer. The microphones, attached to the saxophone's bell, send audio signals. The computer will use the MIDI information to alter the audio information, and also to record and play back the live performance of the saxophonist.

#### **Notes and Symbols**

- A little longer note value 1.
- 2. A little shorter note value
- 3. Key slap
- 4. Tongue slap
- 5. Pedal events to be sent to the computer
- 6. Sax fingering symbols: closed; open; slap.
- 7. All subtones to be played non vibrato

#### **PROGRAMME NOTES**

This piece is an exploration in electronic interactive music.

The interface consists of a pair of gloves with a sensor in each fingertip, sending MIDI data to the computer. In addition to this, the performance is captured by the computer through a pair of microphones. The actual saxophone sound is recorded and then played back at later times, while different parameters are transformed in real time with help of the information received from the live performer through the gloves' sensors. A foot pedal is also used to drive the computer from section to section.

While the actual performance evolved from gestures of performance resulting in non-musical sounds to melodic lines, in a pathetic attempt to teach the computer what music is, the soloist will be trying to influence the outcome by means of data transmitted from the fingers pressure through the gloves. At the end, the computer finally "gets it", and bursts in its own music before collapsing of exhaustion...

The duration of the piece is approximately 8 minutes.

Max/MSP patch available. Please contact:

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### Key ped ] = louger note velue. o = open ] = x = slap

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