

# Midi Parametor

Midi board testing and setup software

## User manual

Orgautomatech Midi Parametor

MIDI connection

### ORGAUTOMATECH Midi board setup

Select your Midi interface

USB Midi

Please indicate the the board to set up channel :  (1 up to 16)

Assign a note number to each output. (Midi number 69 = A3)

☐ Mapping ☒ Test

Outputs number: ☐ 16 ☐ 32 ☒ 64

Pass your pointer over the note name to now its frequency

Outputs	# Midi	Outputs	# Midi	Outputs	# Midi	Outputs	# Midi				
1	A-1	21	17	C#1	37	33	F2	53	49	A3	69
2	A#-1	22	18	D1	38	34	F#2	54	50	A#3	70
3	B-1	23	19	D#1	39	35	G2	55	51	B3	71
4	C0	24	20	E1	40	36	G#2	56	52	C4	72
5	C#0	25	21	F1	41	37	A2	57	53	C#4	73
6	D0	26	22	F#1	42	38	A#2	58	54	D4	74
7	D#0	27	23	G1	43	39	B2	59	55	D#4	75
8	E0	28	24	G#1	44	40	C3	60	56	E4	76
9	F0	29	25	A1	45	41	C#3	61	57	F4	77
10	F#0	30	26	A#1	46	42	D3	62	58	F#4	78
11	G0	31	27	B1	47	43	D#3	63	59	G4	79
12	G#0	32	28	C2	48	44	E3	64	60	G#4	80
13	A0	33	29	C#2	49	45	F3	65	61	A4	81
14	A#0	34	30	D2	50	46	F#3	66	62	A#4	82
15	B0	35	31	D#2	51	47	G3	67	63	B4	83
16	C1	36	32	E2	52	48	G#3	68	64	C5	84

Note length :  Velocity:  gap notes:

**Orgautomatech**  
**Christian Blanchard**  
**113 rue Champommier**  
**79000 Niort**  
**FRANCE**  
**33(0)9 63 41 45**  
**[orgautomatix@orange.fr](mailto:orgautomatix@orange.fr)**

**SIRET 399 479 138 00022**

## Preamble

The Parametor freeware is intended for "mapping" Midi Orgautomatech boards, that is to say assigning a MIDI note number to each output, but not only. Some other parameters are also accessible for Orgautomatech 2012 boards users.

It can also help to set up some other brands boards.

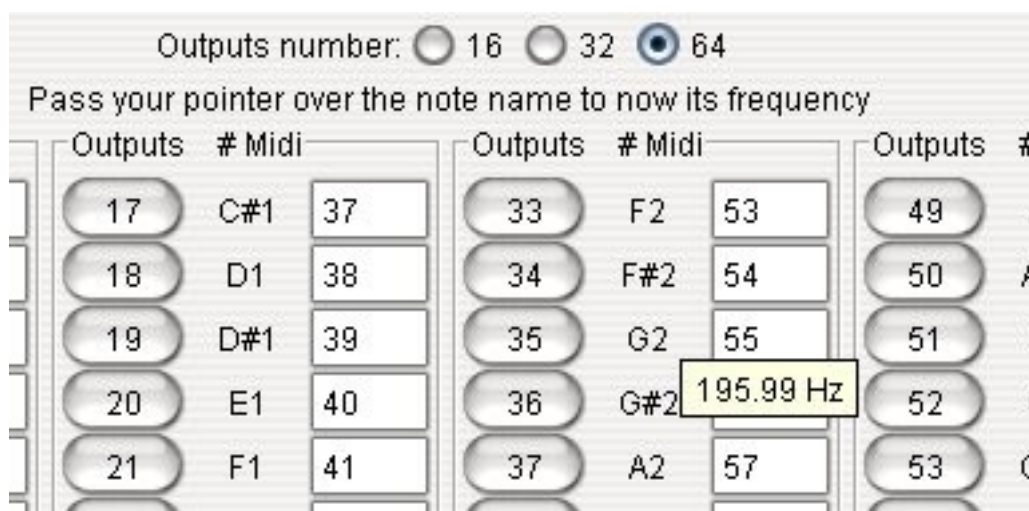
Another use is to test each note on your instrument (one at a time or in sequence) and even help you for tuning.

Parametor runs on Java and can support either Windows, Mac or Linux. Java must of course, be pre-installed on your computer.

If your operating system is installed in French, Parametor will also be in French, otherwise it will be in English.

Parametor tells you the name of the notes. We assume that A3 = 440 hz but, if for you A3 is something else, just tell me, I'll change this for you and send another version.

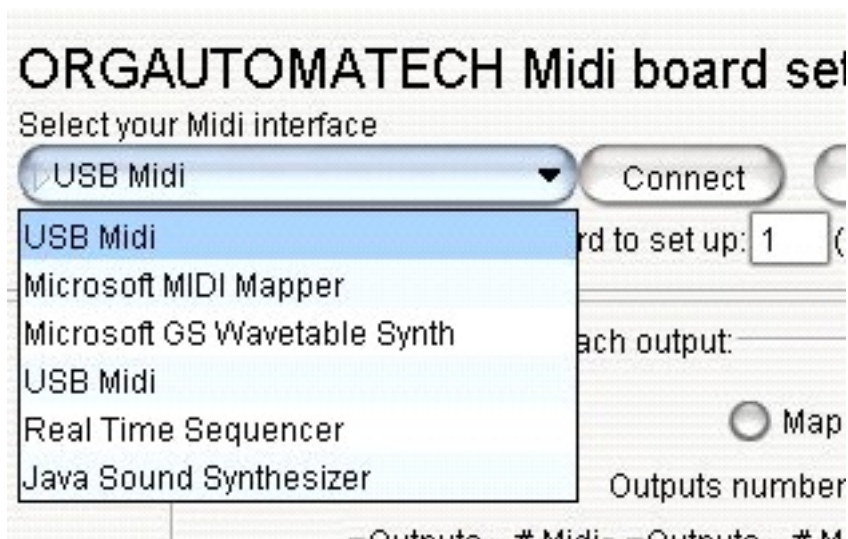
If you pass your mouse over the note name, Parametor will tell you its frequency:



## Operation

If Java is installed on your computer, simply click on Parametor.jar to start it, no further installation is required. Only half of the page is displayed, to see the bottom use the elevator ...

The first thing to do is select your MIDI interface from the dropdown menu at the top left:



If you have a USB / Midi interface, it will appear as above, 2 times. The first is the Midi IN and Midi OUT on the second. You select the 2nd USB Midi as seen above and click "Connect".

Then, specify the MIDI channel setting of the board (1 to 16). With the Orgautomatech boards, you can find it by pressing the button "channel" on the board and count the number of the red LED flashes. (1 by default)

It is assumed here that your Midi board is turned on, the green LED is lit and the Midi Out of your interface is connected to the Midi In of the board. There should be nothing connected to the Midi Out of the board to be programmed. I emphasize these points because this is the solution of 90% of problems encountered

### **Assigning MIDI note numbers for each output:**

Choose the output number (16, 32 or 64) by clicking the appropriate button. You now will have to decide which Midi note number is to be assigned to each output. Simply write the required number in the adjacent box. The numbers on the buttons correspond to those printed on the card. The default numbers are not necessarily your requirement. You can change them and move from one box to another with the tab key.

Midi note numbers are from 0 up to 127, if you go beyond, Parametor will remind you. The order of the notes does not matter but it can not be two outputs with the same MIDI note number, it will be recalled and highlighted in red if you make a mistake.

Assign a note number to each output. (Midi number 69 = A3)

☐ Mapping ☒ Test

Outputs number: ☐ 16 ☐ 32 ☒ 64

Pass your pointer over the note name to now its frequency

Outputs	#	Midi	Outputs	#	Midi	Outputs	#	Midi	Outputs	#	Midi
1	A-1	21	17	C#1	37	33	F2	53	49	A3	69
2	A#-1	22	18	D1	38	34	F#2	54	50	A#3	70
3	B-1	23	19	D#1	39	35	G2	55	51	B3	71
4	C0	24	20	E1	40	36	G#2	56	52	C4	72
5	C#0	25	21	F1	41	37	A2	57	53	C#4	73
6	D0	26	22	F#1	42	38	A#2	58	54	D4	74
7	D#0	27	23	G1	43	39	B2	59	55	D#4	75
8	E0	28	24	G#1	44	40	C3	60	56	E4	76
9	F0	29	25	A1	45	41	C#3	61	57	F4	77
10	F#0	30	26	A#1	46	42	D3	62	58	F#4	78
11	G0	31	27	B1	47	43	D#3	63	59	G4	79
12	G#0	32	28	C2	48	44	E3	64	60	G#4	80
13	A0	33	29	C#2	49	45	F3	65	61	A4	81
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15	B0	35	31	D#2	51	47	G3	67	63	B4	83
16	C1	36	32	E2	52	48	G#3	68	64	C5	84

Note length:  Velocity:  gap notes:

If your instrument uses a standard scale, you can save time by clicking on “open scale” :

Open

Sauvegarde Parametor

- 32Notes48\_79
- 64notes21\_84
- notes 0 à 63
- notes 12 à 75
- notes 24 à 87
- notes 36 à 99
- notes 48 à 111

All Files

Programmation Patrice Freydière: [www.barrel-organ-discovery.org](http://www.barrel-organ-discovery.org)  
Midi board Parametor version 0.9932 . Copyrights ORGAUTOMATECH 2011/2012



If someone has already saved your scale, all the better, simply click on it, otherwise you will have to write it yourself and then, save it for future use.

For Orgautomatech 2012 boards, do nothing on the board, leave it plugged in. Click the button "Mapping" on Parametor and then click "send sequence". The Board Green LED will shut down, the red LED will flash briefly and then the green LED turns on, all in less than a second! Parametor tells that it's done with a message. Now select the button "test" and you can test each of the outputs with the corresponding output buttons.

For Orgautomatech midi boards before 2012, follow the steps in the user manual: Switch off the board, turn on while holding down the button "setting", then release button, the green LED should remain off. In the software, no need to check "set", do "send sequence." Parametor sends the notes one by one, the red LED will flash briefly and then the green LED 's lights, it's done, all in less than a second!

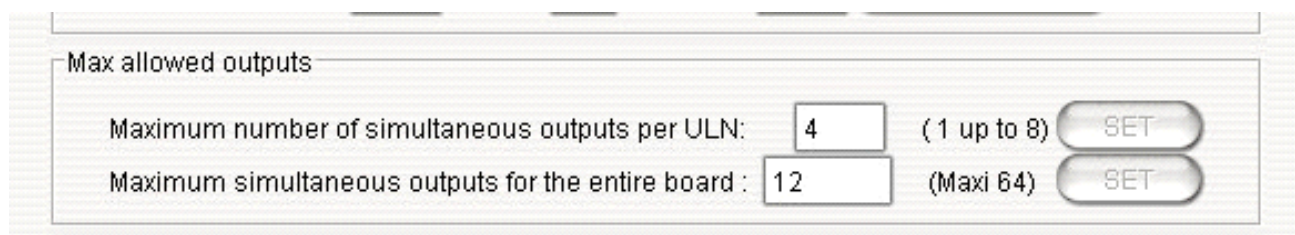
For J Omega Midi boards, same procedure as above, but you have to change the notes duration and the gap between notes (about 20 ms, see explanation later in this document).

Important, when your board is set, remember to save your scale for the next time when you want to tune or test your instrument. (button at the bottom of the page)

### Other parameters

Applies only to Orgautomatech 2012 boards. We assume that everything is connected as described earlier in this document.

You can change the allowed maximum number of simultaneous notes on each ULN and on the entire map. Simply put the desired number in the box and press "send", the green LED will turn off and on again, it's done. Be careful, have a look in the board user manual before writing something. If you do not know what to do, do nothing, the board is set by default to 90% of cases.



Max allowed outputs		
Maximum number of simultaneous outputs per ULN:	<input type="text" value="4"/>	( 1 up to 8) <input type="button" value="SET"/>
Maximum simultaneous outputs for the entire board :	<input type="text" value="12"/>	(Maxi 64) <input type="button" value="SET"/>

By the software you can change the board midi channel.

Changing the board Midi channel:

New channel:  (1 up to 16)

Reserved at the moment for Midi2Org\_16 users, you can change the use of the extension named: JP01. Check what you want and “send”.

Use of JP01 (Midi2Org\_16)

☐ PWM: general tension modulated by the last note velocity

☐ Extra output with modulation by velocity: Indicate the note number:  (0 up to 127)

☐ Extra digital output without any modulation. Indicate the note number:  (0 up to 127)

☐ Unused

### Using Parametor to test your instrument

Parametor can also be used to test a board, a MIDI instrument, a synthesizer, etc. ... any brand as long as it meets the Midi Standard.

Click the Test Button. It is assumed here that everything is connected properly (as explained earlier in this document).

By pressing one of the output button, we send a "note on" , which normally plays the corresponding note. Pressing a second time, will cut it. You can then, tune your instrument without having to keep one hand maintaining the note on a MIDI keyboard.

You can also send a sequence to test all the notes, but if you want to hear something, you have to give some length to your notes. (about 50 ms or more).

The length and the standard notes are here given in milliseconds. Velocity is just as an indication, or in case your card would respond to it. If you set it to 0, the Orgautomatech board will not respond as it considers the “note on” with velocity 0 as "note off".

16 36 32 52 48 68 64 84

Note length:  Velocity:  gap notes:

allowed outputs

Parametor is still under development, but if you like using or if you have any comments or suggestions for improvement, feel free to email me.

Updated 22/02/12

**Orgautomatech**  
**Christian Blanchard**  
**113 rue Champommier**  
**79000 Niort**  
**FRANCE**  
**33(0)9 63 41 45**  
**chris@orgautomatech.fr**

**SIRET 399 479 138 00022**