



Lemur First Ride

Congratulations for your Lemur adoption !

This guide will accompany you on your first ride with your new pet.

Whenever you feel like going deeper inside the Lemur, refer to the User Manual.



1. Hook up your Lemur

The Lemur is not your average MIDI controller. Indeed it can talk at more than 1000 times the speed and 4 times the resolution. That's why you won't find the usual 5-pin connector on the back of the machine, but a standard Ethernet port : the Lemur is actually a network device, that has its own address and can integrate smoothly inside a Local Area Network. The network configuration of your system should be quite straightforward. The simplest setup is to connect your Lemur directly to your computer using the provided Ethernet crossover cable, and set your Lemur IP settings (top left hardware button) to **Automatic using DHCP**. If you're using routers or want to integrate the Lemur inside a LAN, please refer to the Network Configuration guide in the User Manual. We also recommend disabling any firewall on your system as it may prevent your computer from detecting your Lemur.

We want to get into Lemuring madness as quickly as possible, so once you've installed the JazzEditor and JazzDaemon on your computer, we'll load a project to the Lemur from the JazzEditor and have some fun. Please have a look at Chapter 4 of the User Manual if you haven't installed the JazzEditor and JazzDaemon yet and need guidance. When we talk about projects, we refer to the electronic files describing sets of Lemur interfaces. Projects can be edited with the JazzEditor, and stored on your hard drive as well as in the Lemur's internal memory. For instant pleasure, the Lemur comes with a series of examples bundled in the Example package folder. This QuickStart also comes with two small projects: the first is called *MIDIProject* and the second *OSCProject*.

Now let's open the JazzEditor and load the *MIDIProject.jzml* file located in the QuickStart folder. To transfer the project on your Lemur, press the Connect button (the Play icon) located in the top right corner of the JazzEditor. A window should then appear listing the Lemur(s) connected to the network. Select your Lemur and click on Connect: the interface is instantly loaded and comes up on your Lemur screen.

2. Play with your first MIDI project

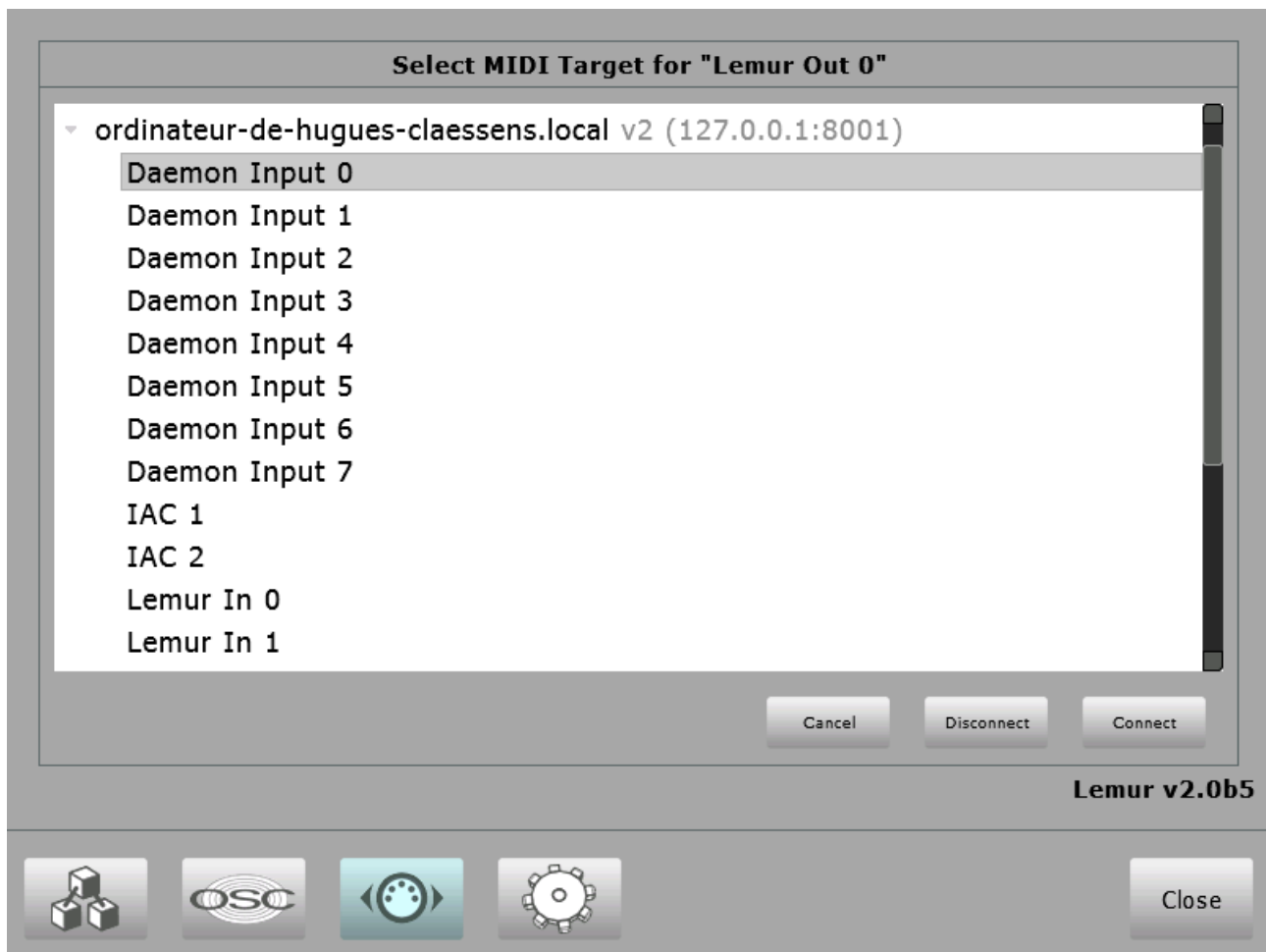
Since this project uses MIDI, we must make sure that the JazzDaemon is running (its icon appears in the System Tray Bar on Windows, or the right side of the menu bar on Mac) and set up some **virtual MIDI cables** on the computer, needed to transfer MIDI locally from the JazzDaemon to your applications. On Mac, there's nothing to be done, since the JazzDaemon automatically provides you with 8 MIDI Inputs and 8 MIDI Outputs. They are named **Daemon Output** and **Daemon Input**. On Windows you need to install third-party drivers such as **MIDI Yoke** or **Maple Virtual MIDI Cable**. It's important to remember that the JazzDaemon must be running at all times on the computers whose MIDI ports you want to access from the Lemur. Please refer to the User Manual for more information on the JazzDaemon.

Now that it's running, you can go back to the Lemur and set it up to connect your project to individual MIDI ports. Press the first physical button on the Lemur : you are now in the **Settings** panel, where you can access all kinds of, well, settings. On the bottom you see a row of 4 buttons that let you select the kind of settings you want to tweak. We want to set up some MIDI Targets, so push the third one to access the JazzDaemon Targets configuration page.



Objects in an Lemur interface can be mapped to up to 8 pairs of MIDI Inputs and Outputs ports available on a computer on the network. In our first MIDI project, we'll only want to spit out MIDI to a single port on the computer. The project we'll play with has been set up to send MIDI to the Lemur's **Output 0**, so let's press the corresponding button and choose an actual destination for it.

What appears is a list of all computers on the network running a **JazzDaemon** service. All those computers provide their MIDI ports for the Lemur to connect with.



The screenshot above shows the selection of the port **Daemon Input 0** running on a computer named **ordinateur de hugues** as the destination for all messages coming out of the Lemur JazzDaemon Output 0. Once you've selected the appropriate port, just hit the **Connect** button for the link to be made : this is it ! You can now select the **Daemon Input 0** port in any of your MIDI applications, and it will receive MIDI from the Lemur.

JazzDaemon Targets

	Inputs	Outputs	KbMouse
0	none	ordinateur-de-hugues-cla... : Daemon Input 0	none
1	none	none	none
2	none	none	none
3	none	none	none
4	none	none	none
5	none	none	none
6	none	none	none
7	none	none	none

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You may now save the JazzDaemon Targets settings by pressing the **Save Config** button. This way the connections will be restored each time you boot your Lemur. Now close this panel and go back to the interface you loaded before. Everything is now set up to play it ! Just launch a MIDI synthesizer of your liking on your computer, and set it up to listen to MIDI on the **Daemon Input 0** port. Now have some fun with your Lemur before we move on with this walkthrough.

The most important lesson we learned here is **how a lemurized MIDI setup works**. Let's sum it all up :

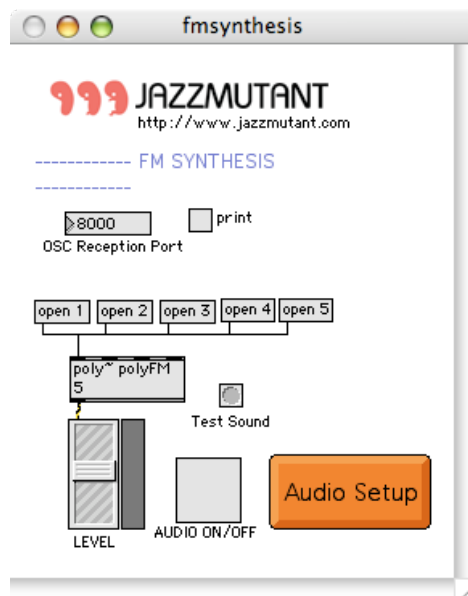
The Lemur has 8 MIDI inputs and 8 outputs that you can virtually cable to any MIDI port available on any machine of your network. The JazzDaemon service runs on those machines, and is responsible for making these connections possible.

3. Play with your first OSC project

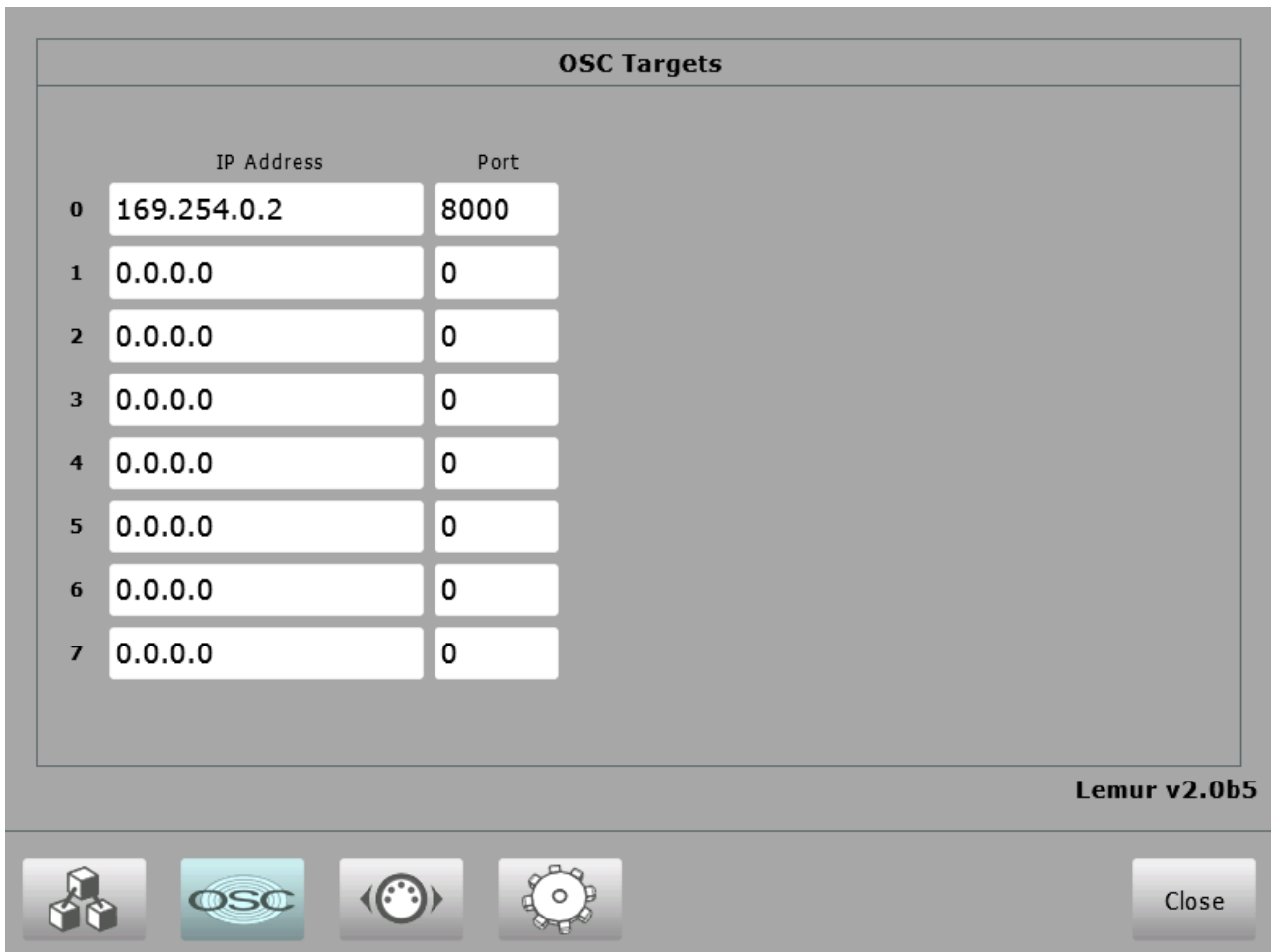
Good, now let's load up another project that will demonstrate the controlling of an OSC compliant software from the Lemur, a most interesting and powerful feature of your new pet.

Go back to the JazzEditor and load the *OSCProject.jzml* file located in the **QuickStart** folder. Press the **Connect** button to load the interface on your Lemur. You can move around the objects, but it won't produce any sounds until you've set up an application that listens to the Lemur's OSC messages and react accordingly.

On your bundled CD, open the *FMSynth* executable located in *Quick Start/OSCProject/Mac Standalone* or *Quick Start/OSCProject/PC Standalone*. This is a standalone application created from a Max/MSP patch, one of the Lemur's best mates when it comes to OSC control. This patch is set up to receive messages coming from different objects on your Lemur's interface, and send them to different sound-producing modules.



OSC is the Lemur's native network-based protocol. As with MIDI, the Lemur allows to send OSC messages to up to **8 OSC Targets**, identified by their IPs and ports. We'll set one up on the Lemur to communicate with the FM Synthesis patch we just opened. This can be done from the Lemur itself : go the **Settings** panel, and this time press the **OSC Targets** button.



In the first line, corresponding to **OSC Target 0**, enter the IP of the computer running the FM Synth application. Enter 8000 as the target port, as it's the **OSC Reception port** of our target patch. Save the configuration, it will be loaded at each boot.

You're done, now click on the Audio On/Off toggle, and play around with the graphical objects on the Lemur. You might need to click on the Audio Setup button in the patch to configure your Audio soundcard routings and settings.

Let's sum up how OSC communication works.

The Lemur has 8 possible destinations for raw OSC messages generated by your interfaces. To drive an OSC-aware application on your computer, you need to fill in the IP of the computer and the port the application is listening to.

4. What's next ??

End of the ride ! Here are some suggestions for your next steps with the Lemur :

- have a look at the provided **Example Package** along with the accompanying documentation
- delve into the **Lemur User Manual** and learn to create your interfaces
- if you're more the DIY kind of person, spend some time on the **JazzEditor** application, your headquarters for interface edition, and discover the power of the Lemur at your own pace

Enjoy !