

Casio FZ Hardware modifications and Software tools

Here you find software and hardware modifications that makes the FZ a little better and more "up to date". Some of the documents requires Acrobat Reader.

Better separate outputs

Document that describes how to make an external box to make the eight separate outputs even better.

[fz_outbox.pdf](#) (36.6 KB)

Analog knob for the FZ

A device to make the FZ a little more analog-ish.

[fz_knob.pdf](#) (11.5 KB)

4 MB RAM in your Casio FZ

A description of how to expand the FZ RAM to 4 MB.

[fz_4meg.pdf](#) (10.5 KB)

Effect parameters editor

I found the System Exclusive messages for editing the Casio FZ effect parameters. After a bit of experimenting I discovered that via System Exclusive messages I could set the modulation wheel, after touch and Foot VR to modulate the resonance. I have not found a way to do that from the Casio FZ menus.

I wrote a small freeware program called FZ FX to demonstrate how to use the messages. Complete Delphi 4 source code is available on request.

[Download FZ FX](#) (151 KB)

Effect parameters System Exclusive documentation

[fz_fx_syx.pdf](#) (2.2KB)

Import/export samples in CoolEdit 2000

I have made a filter for CoolEdit 2000 to read and write Casio FZ voices. Please read the file cool_fz.txt carefully before using the filter.

[cool_fz.zip](#) (11KB)

Play stereo samples on your Casio FZ

Is this possible? Isn't the Casio FZ a mono sampler? The answer is yes on both questions! Because the Casio is a mono sampler you just have to do some extra work to get the stereo effect. I will show two methods below. Common to both methods are that I use output 1-4 for the A channel and outputs 5-8 for the B channel. O= output on, X= output off.

Method 1

1. Load a sample to voice #1.
2. Make a copy of the sample to voice #2.
3. Set the DCA velocity sensitivity to +50 for voice #1.
4. Set the DCA velocity sensitivity to -50 for voice #2.

5. Create a bank consisting of voices #1 and #2.
 6. For area #1 set the parameters:
Max Touch = 127
Min Touch = 35
OutPut = OOOOXXXX
 7. For area #2 set the parameters:
Max Touch = 090
Min Touch = 001
OutPut = XXXXOOOO
- All other parameters should be the same as in area #1

There it is! A "stereo" sample where the panning is controlled by velocity! I have prepared a bank to demonstrate this method. Download it by clicking [here](#) (file size 10kB).

Method 2

What if you have THE stereo sample on your computer and you want to use it in the FZ? Wouldn't it be nice to be able to split the sample in right and left channels and send it to the FZ?

This is where my little program FZ splitter comes in. The program takes a stereo wav file and saves the right and left channels as two fzv files ready to send to the FZ. To use the voices do like this:

1. Send the fzv files to voice #1 and voice #2.
 2. Create a bank consisting of voices #1 and #2.
 3. For area #1 set the parameters:
OutPut = OOOOXXXX
 4. For area #2 set the parameters:
OutPut = XXXXOOOO
- All other parameters should be the same as in area #1

That is it! This is great for drum loops. I have prepared a bank to demonstrate this method too. Download it by clicking [here](#) (file size 228kB). Download [FZ Splitter program](#) (file size ~181KB) and make sure to read the ReadMe.txt file.

Conclusion

As you can see it is not that hard to make the FZ become a stereo sampler (almost ;)). There are other possibilities to create stereo effects with the DCA and DCF envelopes. It's up to you to experiment!

Casio FZ File Transfer Utility

This is my program to transfer FZ files to/from a PC via MIDI. The program is FREEWARE! That means that you can download it, copy it, share it with a fellow FZ owner without paying for it. However, it would be nice with feedback, for example an [e-mail](#) telling me how nice I am giving this piece of software away for free ;-). Even bug reports would be nice!

I would like to send a special *thank you* to Jeff McClintock for the System Exclusive and FZ file format documentation.

Some features in version 1.0

- * Transfer Full/Voice/Bank/Effects dump to/from FZ
- * Recieve a Full Dump as voices or banks, for example, you can receive voices 1 to 25 just with a few mouse clicks
- * Play fzv, wav, aif, txw files
- * Convert form fzv/wav/aif/txw files to fzv/wav/txw files
- * Associate the supported file types to FZ File Transfer Utility

System requirements

- * Any model of Casio FZ
- * A PC running Windows 95/NT 4.0 (Windows 98/2000/XP might work)
- * A soundcard supported by any of the above mentioned platforms

For details see the help file provided with the program.

Screenshot/Download

[Screenshot of FZ File Transfer Utility](#)

[Download FZ File Transfer Utility](#) (272 kB)

Note!

I will not develop the program any further. I am working on other things that will make life a little easier for FZ users. Check my pages on a regular basis. *(Andreas Feb 06, 2002)*

File EX

This is a new file transfer program that has been tested in Windows 2000 and Windows XP. It is a bit simpler than "FZ file transfer utility" but have better MIDI implementation and handles sound (.wav, .fzv) files better. Unzip the zip-file in a directory and start file_ex.exe and you are ready to go. Make sure you read the helpfile before you start to send files to and from the Casio FZ. Please let me know if you have any problems with or comments about this program.

System requirements

- * Any model of Casio FZ
- * A PC running Windows 95/NT 4.0/ 98/2000/XP
- * A soundcard supported by any of the above mentioned platforms

[Download File EX](#) (284 kB)

Casio FZ Sound Diver 3 adaptation

I've made an adaptation for Sound Diver 3 for the effects parameters in the Casio FZ. Nothing fancy but it is nice to have all editors in one place. Make sure you read the helpfile and the readme.txt file before you start using the adaptation.

System requirements

- * Any model of Casio FZ
- * Same system requirements as Sound Diver 3 have

[Download the adaptation](#) (13 kB)

Disclaimer

The software and hardware modifications are provided AS IS. Use them on your own risk. If any of the above mentioned software and hardware modifications causes any physical, mental or material harm to anyone or anything using it, I can not be held responsible!