

DT-DX

USER S MANUAL



INTRODUCTION

The Dtronics DX was created in collaboration with [Probonopd](#). He manages the [MiniDexed](#) project on Github. MiniDexed is a FM synthesizer closely modeled on the famous DX7 by a well-known Japanese manufacturer running on a bare metal Raspberry Pi (without a Linux kernel or operating system). On Raspberry Pi 2 and larger, it can run 8 tone generators, not unlike the TX816/TX802 (8 DX7 instances without the keyboard in one box).

Featured by:

[HACKADAY](#)

[Adafruit](#)

[Synth Geekery](#)

Index

INTRODUCTION	2
Document revisions	4
1 SETUP	5
Box content	5
2 CONNECTION	6
USB Connections USB-B / USB-A	6
MIDI Connections IN / OUT	6
Audio out left / right Jack audio out left / Right	6
3 OPERATION	7
POWER UP	7
4 SPECIFICATIONS	8
Front Panel	8
Rear Panel	9
Accessories	9

Document revisions

Date	Version	Change
02-04-2025	R01	Initial document

1 SETUP

Box content

Please ensure that your DT-DX includes the following:

- DT-DX Synthesizer
- DIN cord (DIN5P)
- USB cable

2 CONNECTION



USB Connections USB-B / USB-A

The USB-B connector can be used to connect the DT-DX to a power supply / Computer.

The USB-A connector can be used to connect a external keyboard.

MIDI Connections IN / OUT

The messages fed into the MIDI IN of the DT-DX is mixed with the sound editing messages created in the DT-DX, and the mixed message is sent through MIDI OUT.

Audio out left / right

Jack audio out left / Right

3 OPERATION

POWER UP

Once powered, the DT-DX will automatically boot into the MiniDexed environment.

The display should light up and show the initial status screen.

Make Sound!

- Send MIDI notes on **channel 1 to 8** — each channel corresponds to a different DX7 engine.
- Default patches are preloaded and ready to play.
- You can layer or split sounds via MIDI routing on your controller or DAW.

Customize (Optional)

- If you want to tweak the configuration:
 1. Power off the DT-DX.
 2. Remove the microSD card and insert it into a computer.
 3. Open the MiniDexed.ini file in a text editor.
 4. Modify settings such as tuning, patch selection, MIDI filters, etc.
 5. Safely eject the SD card, reinsert into DT-DX, and power back on.

More Information

- For full documentation, visit the [MiniDexed Wiki](#).
- Join the discussion or ask questions on the [MiniDexed GitHub Discussions](#).

4 SPECIFICATIONS



Front Panel

Edit Rotary encoder for selecting Function, Value.



Rear Panel

On/off switch
USB power input
USB keyboard connector
MIDI IN Connector
MIDI OUT Connector
Audio out Left / Right

Consumption: < 2 W (DC 5V)
Weight: 0.7 g
Material: Metal
Dimensions: 150(W) x 155(D) x 50(H) mm

Accessories

MIDI/Sync Cable x 1
USB power cable