

DT7

User's Manual

INTRODUCTION

The DTronics DT7 Programmer was designed to give the DX/TX user the programming possibilities of an analogue synth.

This makes FM-programming easier, more intuitive and more fascinating.

It works with the YAMAHA DX-7, TX-7, DX-5,DX-1, TX-802, TX816 (TF-1)

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Document revisions

Date	Version	Change
16-01-2018	R10	Initial document

1 SETUP

Intended use

The DT7 is intended for DX/TX user to create more programming possibilities and give the user the feeling of an analogue synth. It is recommended to disconnect the DT7 from your synth when playing your synth over midi. The DX7 is an old instrument from the beginning of midi. It sometimes can't handle large amounts of midi data.

Box content

Please ensure that your DT7 includes the following:

- DT7 Programmer
- Din Male-Male MIDI Cable
- 9VDC power supply

MIDI Connections IN / OUT

The messages fed into the MIDI IN of the DT-01 is mixed with the sound editing messages created in the DT7, and the mixed message is sent through MIDI OUT.

2 Operation

POWER UP

To use the programmer with your DX, simply connect it's MIDI-OUT to your synths MIDI-In. The Programmer 's MIDI-IN should be connect with your Master Keyboard or sequencer. Although there's a MIDI-IN, it is not necessarily to make a connection to it for running the DX-programmer.

SET MIDI CHANNEL

The MIDI-IN merges all incoming data for using the DX-Programmer with a sequences or other devices running. The receiving instruments (the DX/TX) must always be set to MIDI-Channel 1.

MIDI LOOPS

To avoid MIDI-loops, never connect the DX's MIDI-OUT to the programmers MIDI-IN. Never send any other Sys-EX data to the DX-Programmers IN while editing!

DATA SPEED

It is recommended to disconnect the DT7 from your synth when playing your synth over midi. The DX7 is an old instrument from the beginning of midi. It sometimes can't handle large amounts of midi data. The DT7 has a DATA SPEED knob, turn it to the right to slow down midi messages from the DT7.

3 Operation

POWERING ON & OFF

After turning the power switch on back of the Programmer on, the INIT-Swich LED must light up and the display shows the firmware version.

Sys-Info-Avail setting

Then turn on your DX/TX and set the option 'Sys-Info' to 'avail'.

On the DX7, This is done with pressing the Function switch and then pressing the Program No. 8 switch. (For more information of the Sys-Info-Avail setting on the other possible devices refer to the YAMAHA manual).

Now you can start editing any parameter, and if you have ten or more hands, all at the same time.

DATA SPEED

Because the operating system of the DX-7 (especially older ones) is a bit slow, it can be handy to adjust the DATA SPEED knob a bit. At startup, the data speed is always set to an initial value.

The DX-7 is not a true realtime synth, and so you always have to press a key first before listening to any sound changes because of this behavior, a sequencer running a slow sequence is highly recommended. Newer models like the TH-802 or DX7-iiFD can be edited in real time.

For the TX-216/816 it is not possible to set the LIMIT-LOW and LIMIT-HIGH with the programmer. Please refer to the YAMAHA manual for more information about this parameters.

The INIT switch will create an INIT patch on the DX-7

The DUMP switch will dump ALL parameters from the DT7

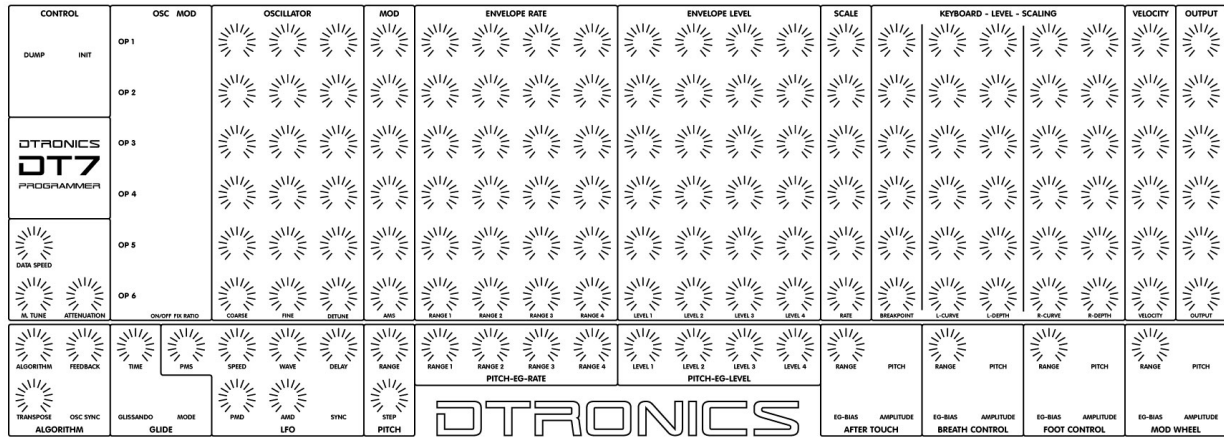
4 Troubleshooting

Because of the slow operating system of the DX as described earlier, it sometimes may no longer respond to parameter changes and hookup. This can happen especially when used with a fast sequencer tempo and/or very short notes or turning some knobs fast on the DT7.

In this case, simply turn off both devices and turn them on again. Adjust the DATA SPEED knob as described earlier.

Make sure to set the option 'Sys-Info' to 'avail' on your DX7 or nothing will happen.

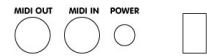
5 SPECIFICATIONS



Front Panel

Indicator screen x 1	LFO Knob x 6
Control Button x 2	LFO Button x 1
OSC MOD Button x 12	Pitch Knob x 2
Oscillator Knob x 18	Pitch-EG-Rate x 4
Mod Knob x 6	Pitch-EG-Level x 4
Envelope Rate Knob x 24	After Touch Knob x 1
Envelope Level Knob x 24	After Touch Button x 3
Scale Knob x 6	Breath Control Knob x 1
Keyboard Level Scaling Knob x 32	Breath Control Button x 3
Velocity Knob x 6	Foot Control Knob x 1
Output Knob x 6	Foot Control Button x 3
Algorithm Knob x 3	Mod Wheel Knob x 1
Algorithm Button x 1	Mod Wheel Button x 3
Glide Knob x 1	
Glide Button x 2	

DTRONICS DT7 PROGRAMMER



Rear Panel

Power switch

Power input

MIDI IN Connector

MIDI OUT Connector

Consumption: 3Watt (9VDC)

Weight: 5.7 kg (Box included)

Dimensions: 645(W) x 245(D) x 75(H) mm

Dimensions box: 750(W) x 320(D) x 160(H)

Accessories

MIDI/Sync Cable x 1

USB power cable