

**KENTON**

# ***D-SYNC***

**Bi-directional MIDI to DIN Sync Converter**

5V DC IN ONLY	<b>KENTON</b> <a href="http://www.kenton.co.uk">www.kenton.co.uk</a>	CE
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<b>D-SYNC</b>		
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<b>BI-DIRECTIONAL MIDI TO DIN SYNC CONVERTER</b>		
MADE IN THE UK		
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MIDI IN	MIDI OUT	SYNC IN      SYNC OUT

***Operating manual***

**FCC STATEMENT FOR D-Sync:**

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**WEEE DIRECTIVE:**

(applies to the European Union & other European countries with separate collection systems)

The crossed-out wheellie bin symbol affixed to this product indicates that it should not be disposed of with other household wastes at the end of its working life. To prevent possible harm to the environment or to human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable re-use of material resources.

Household users should contact either the retailer where they purchased the product, or their local government office for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

## Introduction

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The *D-Sync* has a MIDI Input and a MIDI Output for connecting to your MIDI devices. The *D-Sync* has an opto-coupled MIDI Input for optimum performance.

The *D-Sync* also has both a DIN Sync Input and a DIN Sync Output for connecting to your sequencer and/or drum machine etc.

The *D-Sync* is powered by a multi-region mains adaptor (supplied), so it doesn't need periodic battery changes to keep it working, enabling you to "fit and forget". If required, you can also power *D-Sync* from a USB port of your computer or USB Hub.

## Connecting

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Plug the large plug end of the supplied USB lead into the supplied 5V power adaptor and the other end into the *D-Sync*. Ensure the power adaptor is plugged in to the mains and that the ACTIVE LED on the *D-Sync* is on (steady green).

### To convert MIDI to DIN Sync

Connect the MIDI output of your keyboard(s) and/or computer to the MIDI Input of the *D-Sync* and connect the SYNC Out port of the *D-Sync* to the DIN-SYNC input of the device you want to control.

### To convert DIN Sync to MIDI

Connect the *D-Sync* output of your keyboard and/or computer to the SYNC Input of the *D-Sync* and connect the MIDI Out port of the *D-Sync* to the MIDI input of the device you want to control.

The *D-Sync* can convert in both directions at the same time.

The USB connector is used for power ONLY. *D-Sync* is not a USB MIDI device.

## Status LED

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The LED will show steady colour (green or red) when power is applied and flicker to indicate when MIDI messages are being received. Green indicates sync-24 mode / red indicates sync-48 mode.

## SysEx

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*D-Sync* supports a number of SysEx commands:

### Sync-24/48 Mode

*D-Sync* works in Sync-24 mode by default, but can support Sync-48.

To set the *D-Sync* into Sync-48 mode (status LED red), send F0 00 20 13 16 00 20 00 02 00 01 F7

To set the *D-Sync* back to Sync-24 mode (status LED green), send F0 00 20 13 16 00 20 00 02 00 00 F7

### MIDI Continue = Start

*D-Sync* treats a MIDI Continue message as a Start by default.

To set Continue = Start to OFF, send F0 00 20 13 16 00 20 00 01 00 00 F7

To set Continue = Start to back to ON, send F0 00 20 13 16 00 20 00 01 00 01 F7

### Soft Thru mode

*D-Sync* supports a soft Thru mode, where Sync data received at SYNC IN will be merged with MIDI data received at MIDI IN and sent to MIDI OUT.

To set Soft Thru to ON, send F0 00 20 13 16 00 20 00 00 00 01 F7

To set Soft Thru to back to Off, send F0 00 20 13 16 00 20 00 00 00 00 F7

### Factory Defaults

To reset the *D-Sync* to factory defaults (Sync-24, Continue=Start, Soft Thru OFF), send F0 00 20 13 16 00 20 00 7F 01 25 F7

### Firmware Version Request

A firmware version request must be issued within 10 seconds of power being applied to the *D-Sync*, otherwise it will be ignored. The firmware version request message is - F0 00 20 13 16 60 F7

*D-Sync* replies with the version number as F0 00 20 13 16 6F xx xx xx xx F7, where xx is a number in ASCII and the leftmost digit is the most significant, eg - F0 00 20 13 16 6F 31 32 33 34 F7 = version number 1234

## Specification

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Power Input	USB Mini-B socket (used for power only)
Power	5V DC regulated @ 50mA
MIDI ports	1 x In, 1 x Out (5 pin DIN sockets)
SYNC ports	1 x In, 1 x Out (5 pin DIN sockets)
Weight	150g (excluding power supply)
Dimensions	110 x 55 x 35 mm
Power supply	Multi-region switch mode power supply supplied with unit.

## Warranty

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The *D-Sync* comes with a 12 month (from purchase date) back to base warranty, (i.e. customer must arrange and pay for carriage to and from Kenton Electronics Ltd). In the unlikely event of a problem, contact us by email through our website or by telephone.



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Firmware rev 1006 to 2002

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