



# DMX USB PRO MK2 – Datasheet

The ultimate DMX USB widget with 2 universes of input or output + standalone playback.



The DMX USB PRO MK2 can control up to 1024 DMX channels or receive them through one simple USB 2.0 connection. Compatible with a broad array of supported 3rd party commercial and free software running on Windows, Linux or MacOS.

The DMX USB PRO MK2 durable machined aluminum body makes it well suited to life on the road.

Alongside doubling the channel capacity of the original DMX USB PRO, the DMX USB PRO MK2 introduces standalone playback functionality that can loop from power up, a fixed number of times, or infinitely

The DMX USB PRO MK2 features an internal frame buffer for consistent DMX generation when outputting DMX, meaning it isn't dependent on your computer's processor.

The DMX USB PRO MK2 features 1500V full isolation for both data and power line to protect your computer from any stray voltages that may occur on the DMX line.

A 1 universe DMX stream can be recorded using the DMX input port or Art-Net and saved onto the DMX USB PRO MK2's internal memory for infinite looping; or for a fixed number of loops after powerup.

## Features

- **Two universes (512 channel each) of input or output (one per DMX port).**
- **Standalone mode: playback a single recorded DMX show on power-up.**
- **Fully compliant with USITT DMX512-A.**
- **Output refresh rate configurable from 1 to 40 FPS (Frames Per Second).**
- **Configurable MAB and Break time using ENTTEC's software to accommodate non-standard equipment.**
- **1500V full isolation (data & power lines to protect your computer from surges).**
- **RDM enabled (ANSI E1.20 compliant).**
- **Drivers for Windows, MacOS and Linux (drivers released and maintained by FTDI).**
- **Compatible with various open-source and professional lighting control programs.**
- **Developer API available to integrate into your own software.**

## Specification

Connectors	1* DB-15 breakout port
	1* Micro USB Type-B
IP rating	IP20
LED indicators	Yes
Supported protocols	USITT DMX512-A
	ANSI E1.20 RDM <sup>1</sup>
Standalone playback	Yes
Maximum output channels	2 universes (1024ch) <sup>1</sup>
MIDI Support	MIDI Breakout Cable discontinued Q1 2021 <sup>2</sup>
Max. output refresh rate	40FPS <sup>1</sup>
Input voltage	5V DC (via USB)
Configuration software	EMU
Firmware updates	EMU
Input current	500mA
Power draw	2.5W
Environmental operating temperature	0°-50°C
	32°-122°F
Environmental operating humidity	5- 95% (non-condensing)
Body material	Powder coated Aluminium
Mounting options	N/A
Unit dimensions	105x66x22 mm
Unit weight	0.19kg / 0.42lbs
Shipping dimensions	237x165x71 mm
Shipping weight	0.60kg / 1.32lbs
Warranty	3-year return to base manufacturer warranty

1) If supported by your 3<sup>rd</sup> party software.

2) MIDI cable no longer sold; MIDI functionality is still supported by the DMX USB PRO MK2's API.

## Certification



## Box contents

- DMX USB PRO MK2
- DB-15 to 2\* XLR5 Output & 1\* XLR5 Input Cable
- USB Type A -> Micro USB Type-B Cable

## DMX Connector Pin Out

- Pin 1: 0V
- Pin 2: Data -
- Pin 3: Data +
- Pin 4: NC
- Pin 5: NC

Any suitable 3 to 5pin DMX adaptor can be used to connect to 3pin DMX cables or fixture. Please note the pinout, before connecting to any non-standard DMX connector.

## Application diagram



## Safety

- Do not expose the device to rain or moisture. This unit is intended for indoor use only.
- Do not remove the cover, there are no user serviceable parts inside.
- Never connect DMX GND to an electrical 'earth' connection.
- For additional flexibility and increased protection ENTTEC recommends the use of a DMX splitter.

## Ordering information

For further support and to browse ENTTEC's range of products visit the [ENTTEC website](https://www.enttec.com).

Item	SKU
DMX USB PRO MK2	70314

# enttec.com

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