[OPTI]™ Kinetics

DMX Interface User Manual

for GoBoPro+ and GoBoPro FX Projectors

Designed and Manufactured in the UK
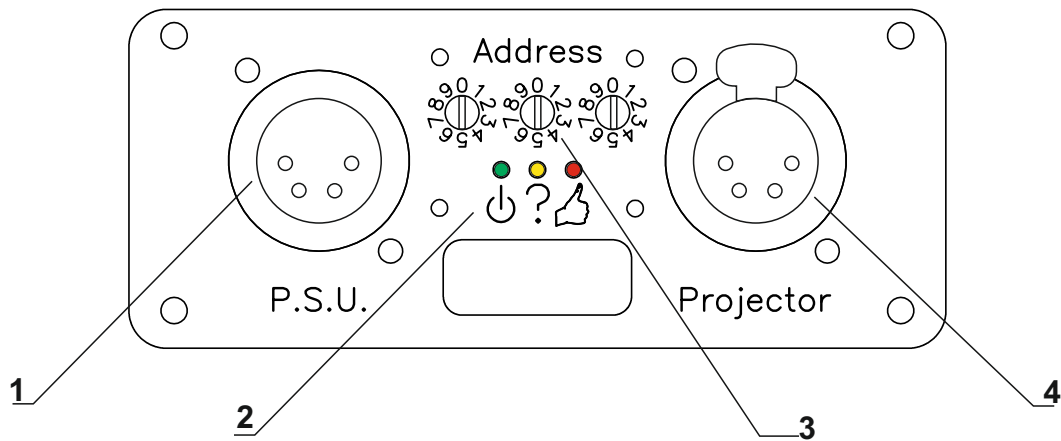
Product Overview
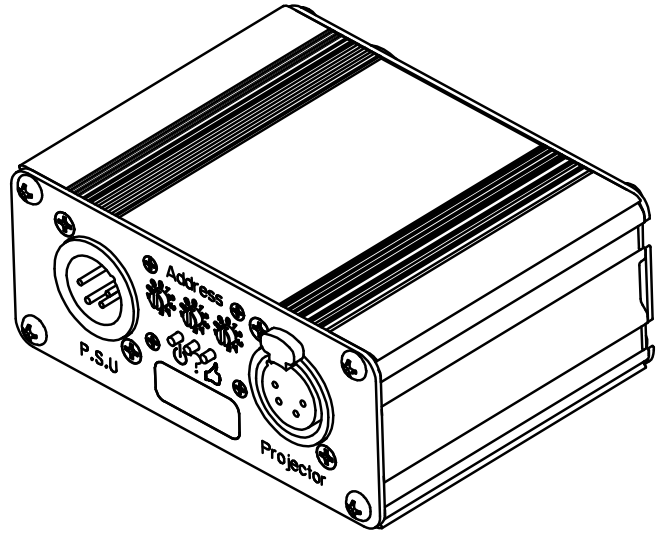
Product Size: 108.5 x 45 x 80mm /4.27 x 1.77 x 3.15 inches
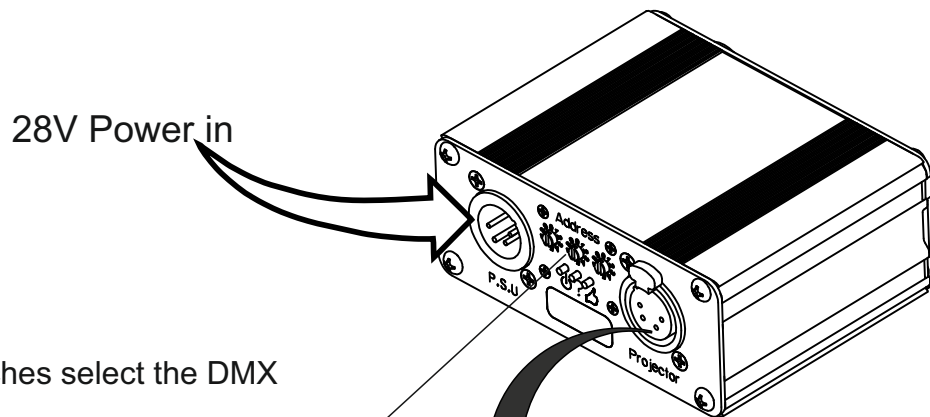Product Weight: 250g/ 055 lbs

Front Panel Display
1. XLR 4 Pin Input from 28V Power Supply Unit.
2. LED indicators, from left:
   Green: ON/OFF
   Yellow: Error
   Red: Connection Established.
3. Address Switches
4. XLR 4 Pin Output to Projector.

Product Connectivity
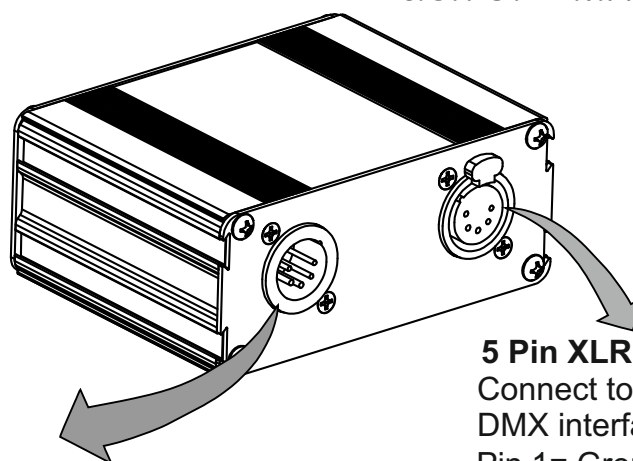
Front of DMX box

28V Power in

The 3 rotary switches select the DMX base address.
An address of 001 for example the projector would use DMX address 1 and 2, an address of 100 would be address 100 and 101.

4 Pin XLR Female:
Connect to Projector

Pin 1= Gnd
Pin 2 = 28V
Pin 3= Data
Pin 4 & 5= NC

Back of DMX box

5 Pin XLR Female:
Connect to additional
DMX interfaces.
Pin 1= Ground
Pin 2 =Data (Positive)
Pin 3= Data (Negative)
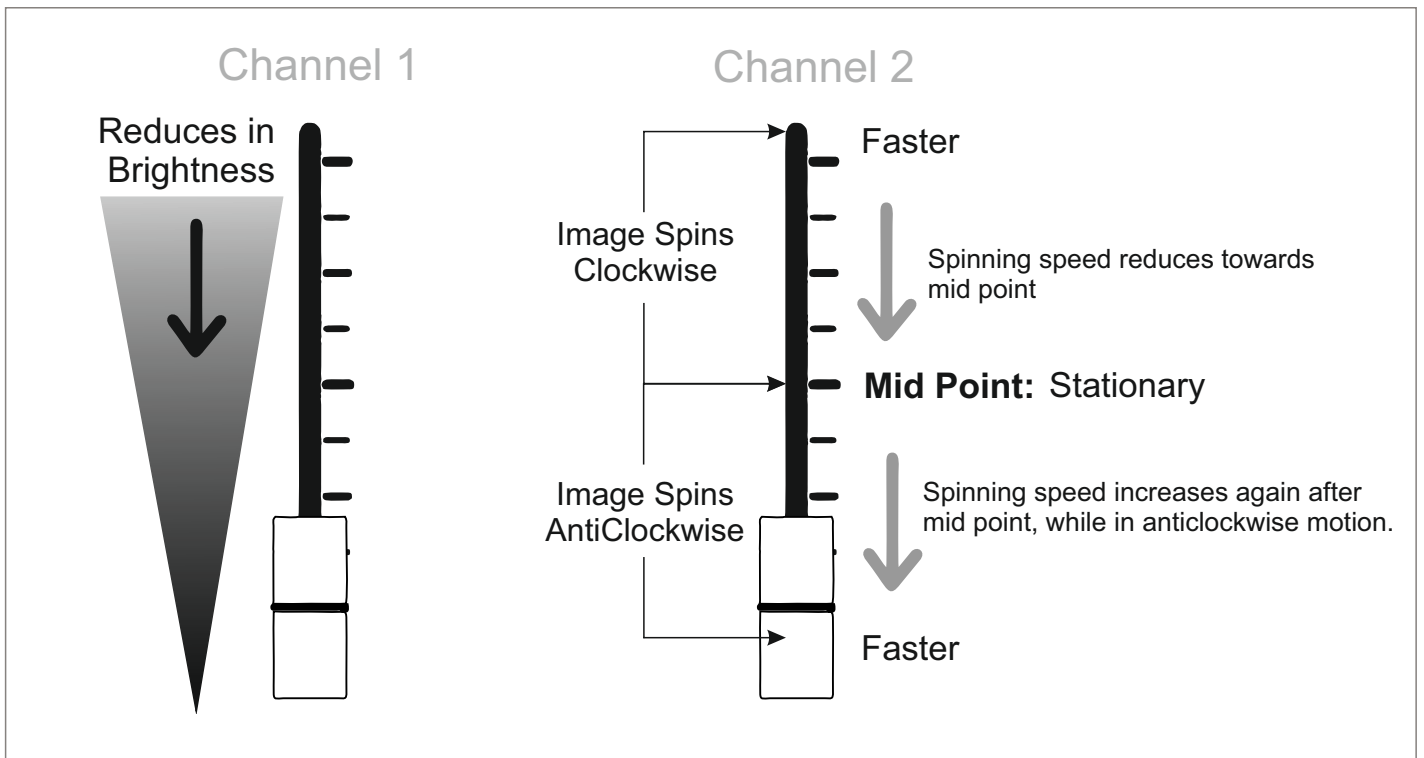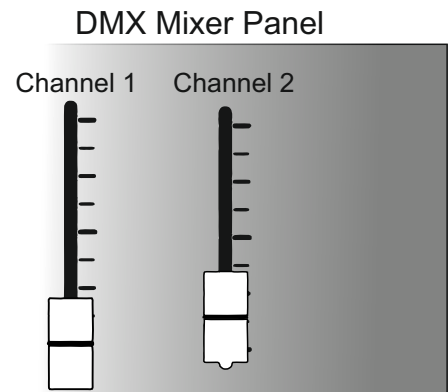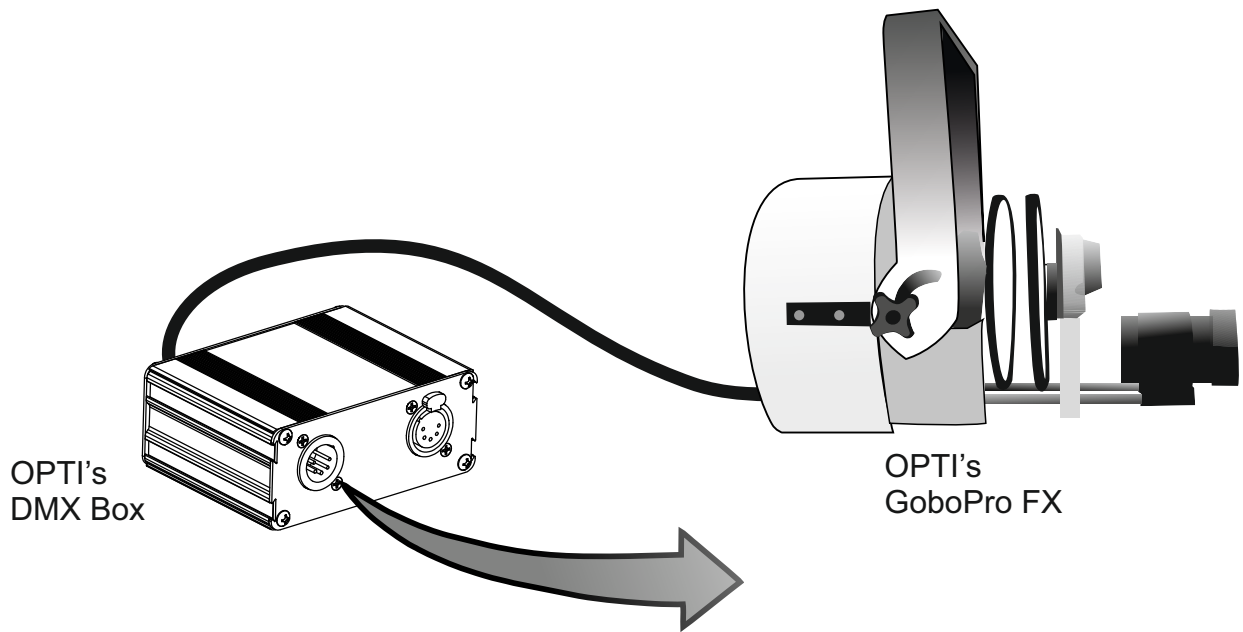Pin 4 & 5= optional secondary data link

5 Pin XLR Male:
Connect to DMX Mixer Controller
Pin 1= Ground
Pin 2 =Data (Positive)
Pin 3= Data (Negative)
Pin 4 & 5= optional secondary data link

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Functionality with GoboPro+

OPTI's
DMX Box

OPTI's
GoboPro+

DMX Mixer Panel
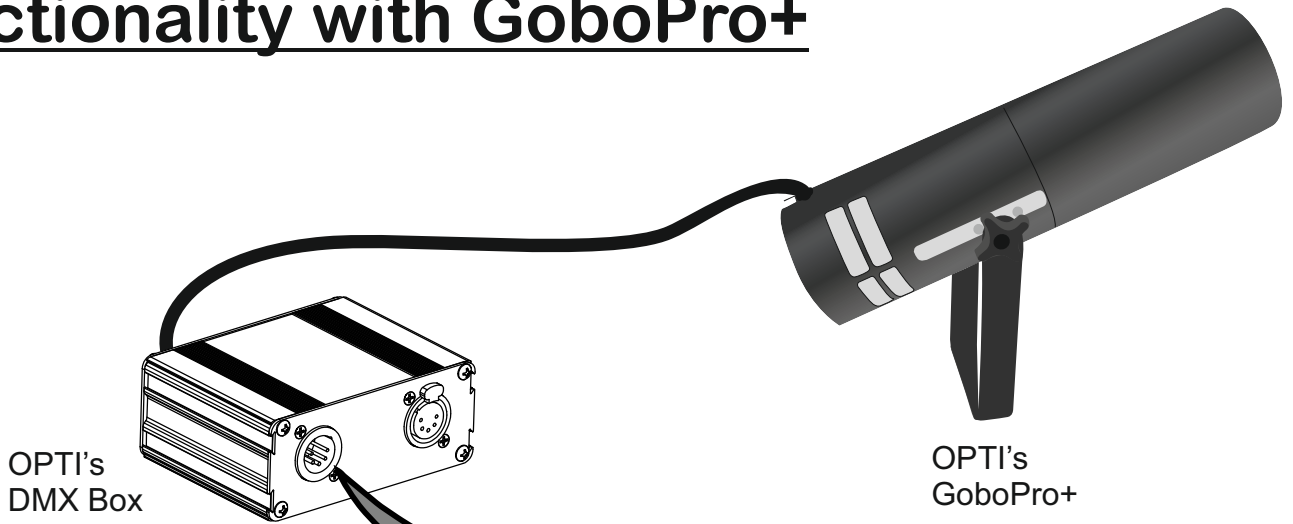
Channel 1   Channel 2

Once, all connections are established, two channels are required for dimming and motor controls respectively.
A single channel is used both for direction and speed of rotator.
When encoder slides to mid position, image stops spinning. The speed is also gradually reduced as encoder approaches the mid point.
Once encoder passes midpoint, image starts spinning in the opposite direction while the speed of rotation gradually increases as the encoder slides to end position. See illustrated figure below.

Channel 1

Channel 2

Reduces in Brightness

Faster

Image Spins Clockwise

Spinning speed reduces towards mid point

Mid Point: Stationary

Image Spins AntiClockwise

Spinning speed increases again after mid point, while in anticlockwise motion.

Faster

Functionality with FX

OPTI's
DMX Box

OPTI's
GoboPro FX

DMX Mixer Panel

DMX with the GoboPro FX only operates
the dimming effect, due to the projector's
ability to use Variable Speed Rotators,
motor speed control is not controlled by
the DMX in this application, but instead
via the Rotator cards.

Channel 1

Reduces in
Brightness
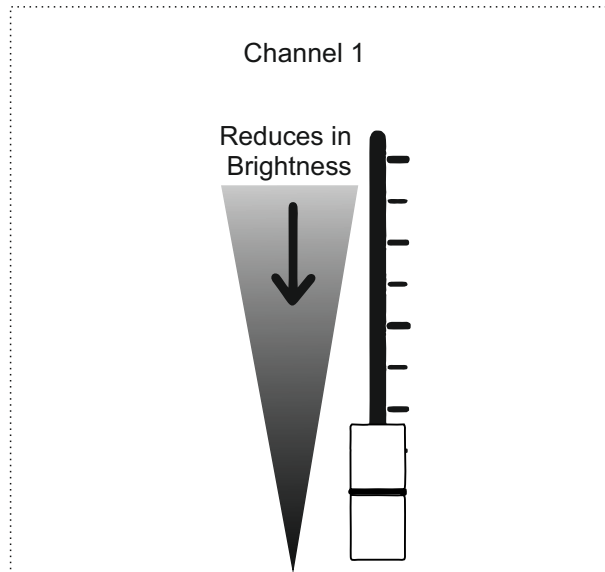
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