

# DERBY DMX 512 Protocol Standards XLR5 Instruction Manual

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USER MANUAL  
DERBY II

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## SAFETY INSTRUCTIONS

### CAUTION!

Be careful with your operations. With a dangerous voltage, you can suffer a dangerous electric shock when touching the wires!

Keep this device away from rain and moisture!

Unplug mains lead before opening the housing!

For your own safety, please read this user manual carefully before your initial start-up.

### Features:

Four operation modes: DMX 512 protocol, auto, and master/slave, and sound active operating in various modes to form different led effects

DMX-512 connection / connection between fixtures

Occupation of the XLR-connection:

If you are using controllers with this occupation, you can connect the DMX-output of the controller directly with the DMX input of the first fixture in the DMX chain. If you wish to connect DMX controllers with other XLR-outputs, you need to use adapter cables. Building a serial DMX-chain:

Connect the DMX output of the first fixture in the DMX chain with the DMX input of the next= fixture. Always connect one output with the input of the next fixture until all fixtures are connected. Caution: At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120 resistor between Signal (-) and Signal (+) into a 3-pin XLR-plug and plug it in the

**DMX-output of the last fixture. Connection with the mains**

Connect the device to the mains with the enclosed power supply cable.

## OPERATION

### 1. DMX 512 protocol

#### Addressing

The LED DISPLAY on the rear side of the base allows you to assign the DMX fixture address, which is defined as the first channel from which the item will respond to the controller. If you set, for example, the address to channel 7, the item will use channels 7 to 14 for control. Please, be sure that you don't have any overlapping channels in order to control each item correctly and independently from any other fixture on the DMX data link. If two, three, or more items are addressed similarly, they will work similarly. At DMX mode you can choose the address from 1 to 512. After you connect the item to the mains, the item starts running. When the item finishes resetting, d-OO1 will flash in the led display and then set the desired DMX address by pressing the UP or DOWN buttons.

#### Eight DMX channels:

Channel 1: motor running

0-190 Motor running directions adjustments

191-255 motor running

**Channel 2:** red from small to big brightness(dimming)

**Channel 3:** green from small to big brightness(dimming)

**Channel 4:** blue from small to big brightness(dimming)

**Channel 5:** white from small to big brightness(dimming)

**Channel 6:** master dimmer from small to full brightness

**Channel 7:** increasing brightness, then decreasing brightness, colors following one by one

0-36 CH1/2/3/4/5/6 working

37-73 four colors increasing brightness, then decreasing brightness

74-100 four colors changing

111-147 mixed colors increasing brightness, then decreasing brightness

148-184 mixed colors changing

185-255 strobe from slow to fast, then from fast to slow when ch2/3/4/5/6/ working  
**Channel 8: running speed adjustments**

0-244 speed from slow to fast when ch7 at 37-184, the speed adjustment works

255 sound active

2. **Sound active** Press the MODE button, till BEAE shows in the led display, confirm by the button ENTER, then the item will run to the beat of the music.

### 3. auto

Press the MODE button, the following functions can be achieved by the button ENTER:

PO-0: run the preset shows: P0-P4 means 5 preset shows, -0 to -9 does color changing 10 speeds;

CF-0: increasing brightness, then decreasing brightness, CF-0 to CF-9 means 10 running modes;

CC-O: color changes, CC-0 to CC-9 means 10 running modes;

CS00: color selections, CS00 to CS99 means 100 colors;

### 4. Synchronization & master /slave mode

Take one item and set the item at sound active, or auto as above, then get other items and press the button MODE, till SUB shows in the led display, confirm by the button of ENTER, then connect the items to the item at

auto/sound active already set by DMX cables, disconnect the items from DMX controller, the items will wok simultaneously, the item at auto/sound active as master, the others as a slave.

LED DISPLAY: \*\*\*D001: DMX setting

\*\*\*BEAT: sound active

\*\*\*PO-O: preset shows

\*\*\*PO-0 to PO-9: color changing speed modes

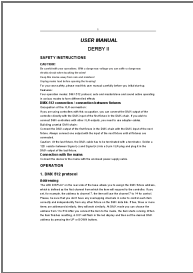
\*\*\*CF-O: increasing brightness, then decreasing brightness \*\*\*CC-O: color changing

\*\*\*CS00: color selections \*\*\*SUB: slave mode

TECHNICAL SPECIFICATIONS

Power supply: 90-240V AC 50/60Hz  
Power consumption: MAX. 60W  
Fuse: 250V 1.0A  
DMX-control-channels: 8  
DMX-512-connection: 3-pin XLR  
Number of leds: 2\*three in one high RGB 9W MCD LEDs+2\* high MCD white 3W LEDs, total 24W  
Flash-rate: max. 10 Hz  
ITEM DIMENSION:320\*370\*230MM  
ITEM WEIGHT:4KGS  
**Please note: Every information is subject to change without prior notice.**

Documents / Resources

	<p><a href="#">DERBY DMX 512 Protocol Standards XLR5</a> [pdf] Instruction Manual DMX 512 Protocol Standards XLR5</p>
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