

# DC CONTROLLERS

## DC CONTROLLER MK4

The DHA DC Controller acts as a power supply and speed control for the full range of Varispeed effects units. It has four independent channels each giving control of speed and direction of rotation.

### Control

Each of four rotary knobs on the front panel controls speed and direction of one effect. 'Off' is in the central position and maximum speed, in either direction, at the extremes. LEDs on the front panel give an indication of speed and direction for each channel.

### Load Compensation

The DC Controller monitors the current supplied to each effect unit to automatically compensate when the motor encounters a heavy load. The result is a smooth, constant revolution of the effect - even at very low speeds or with uneven loads such as when used with the Yoyo effect.

### Connections

The unit is fitted with two 4-pin female XLR connectors for controlling two Varispeed effects (each connector carries two channels so additional signal splitters can be used to control 4 effects). Also, two 5-pin male XLR connectors are fitted for remote control. Full interconnection instructions are provided with the unit.

**NOTE: Without signal splitters the DC Controller can only be connected to two Varispeed effects units.**

### Remote Control

Full remote control of Varispeed effects can be achieved from a lighting console (or any suitable 0-10V control signal). Each Varispeed effect is controlled by two channels from the console - one for forward and one for reverse.

### Protection

The unit is short-circuit protected and DHA Varispeed motors are fully protected when used with this controller.

### Mounting

The DC Controller is free standing for table-top use or can be attached to a 48mm bar by means of a mounting kit available from DHA.



### ORDERING CODES

DCON/230	DC CONTROLLER FOR 230 VOLT OPERATION
DCON/120	DC CONTROLLER FOR 120 VOLT OPERATION
DCON/RIG	MOUNTING KIT TO ATTACH DC CONTROLLER TO 48MM BAR
DCON/SPLIT	SPLITTER FOR CONNECTING 2 EFFECTS TO 1 DC CONTROLLER OUTLET

## DMX DC CONTROLLER

The DMX DC Controller provides power and speed control for Varispeed effects in the same way as the Mk4 version. It is intended for remote control via a DMX512 signal. Alternatively, effect speeds can be preset on the front panel controls.

### Control

The output circuitry of the DMX DC Controller is identical to that of the DC Controller Mk4; speed range, bi-directional drive, load compensation and output protection are all maintained. In addition to the convenience of the DMX system the DMX DC Controller offers greater accuracy and allows effects to be easily repeated. Effects can be programmed, along with other lighting, directly into a cue sequence on a suitable lighting console.

### Connections

The unit is fitted with two 4-pin female XLR connectors for controlling two Varispeed effects (each connector carries two channels so additional signal splitters can be used to control 4 effects). Also, two 5-pin XLR connectors are fitted for DMX IN and OUT. Mains connection is via a fuse-protected IEC inlet on the front panel and a cable is supplied. Full interconnection instructions are provided with the unit.

**NOTE: Output, Connector and use of Splitter as per DC Controller Mk4**

### DMX Operation

In DMX mode the DC Controller responds to eight consecutive channels of DMX512 data – the start address being set on the front panel. Each of the four DC Controller outputs is controlled by two DMX channels. On the lighting console each effect appears as two level controls – one for forward speed and one for reverse.

### Preset Operation

In the absence of a suitable DMX signal the four rotary switches on the front panel allow the levels of the four output channels to be preset. Each channel can be assigned a speed on an arbitrary 0 to 9 scale.

### Mounting

Although free-standing, this device is particularly suited to 48mm bar mounting. Cabling to Moving Effects devices can be greatly shortened by siting the DC Controller alongside the lantern and effect. This requires the appropriate DC Controller mounting kit.



### ORDERING CODES

DCONDMX/230	DMX DC CONTROLLER FOR 240 VOLT OPERATION
DCONDMX/120	DMX DC CONTROLLER FOR 120 VOLT OPERATION
DCON/RIG	MOUNTING KIT TO ATTACH DC CONTROLLER TO 48MM BAR
DCON/SPLIT	SPLITTER FOR CONNECTING 2 EFFECTS TO 1 DC CONTROLLER OUTLET

# DIMDAT DC CONTROLLER

The Dimdat DC Controller is the smaller stable companion to the DC Controller Mk4 and the DMX DC Controller, providing power and speed control for Varispeed effects directly from a dimmer rack.

## CONTROL AND OPERATION

The Dimdat plugs directly from a Varispeed effects unit into a dimmer whereupon the dimmer is controlled in the usual way, with the speed of movement in the effects unit being increased or decreased according to the level at which the dimmer is set. Each unit can operate two single effects units (eg single gobo rotator or animation unit) or one double gobo rotator. Direction of movement is fixed. In the case of a double gobo rotator each gobo will move in opposite directions, but full control over individual speeds is still possible. Direction of movement in a single effects unit can be altered by means of a splitter (Signals from pins 1&2 give clockwise motion, pins 3&4 give anti-clockwise). Effects can be programmed, along with other lighting, directly into a cue sequence on a suitable lighting console. A load lamp may be required on some dimmers.

## CONNECTIONS

The unit is fitted with one 4-pin female XLR connector for controlling one Varispeed effect (the connector carries two channels so an additional splitter can be used to control 2 effects). Mains supply is via two leads which are ready for connection to the dimmer racks (plugs not supplied). Full interconnection instructions are provided with the unit.

**NOTE: To control two Varispeed effects units the Dimdat DC Controller will require the use of TWO dimmers and a signal splitter.**

## MOUNTING

The Dimdat is designed to be located close to the lantern and effect unit since its compact size makes it neat and unobtrusive even under display conditions. It is therefore supplied complete with DC Controller mounting kit (to fit 48mm bar mounting) and two 2m mains leads. The Dimdat DC Controller can also be free standing.



## ORDERING CODES

DIMDAT/230

DCON/SPLIT

DMX DC CONTROLLER FOR 240 VOLT OPERATION

SPLITTER FOR CONNECTING 2 EFFECT TO 1 DC CONTROLLER OUTLET.