



# Fademaster 16

ORDERCODE 50406



**SHOWELECTRONICS FOR PROFESSIONALS**

## **Congratulations!**

You have bought a great, innovative product from Showtec.

The Showtec Fademaster 16 brings excitement to any venue. Whether you want simple plug-&-play action or a sophisticated DMX show, this product provides the effect you need.

You can rely on Showtec, for more excellent lighting products.

We design and manufacture professional light equipment for the entertainment industry.

New products are being launched regularly. We work hard to keep you, our customer, satisfied.

For more information: [iwant@showtec.info](mailto:iwant@showtec.info)

You can get some of the best quality, best priced products on the market from Showtec.

So next time, turn to Showtec for more great lighting equipment.

Always get the best -- with Showtec !

Thank you!



**Showtec Fademaster 16™ Product Guide**

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## WARNING



**CAUTION!**  
**Keep this device away from rain and moisture!**



**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY  
BEFORE YOUR INITIAL START-UP!**

## SAFETY INSTRUCTIONS

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow the instructions of this manual



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



Before your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

### **IMPORTANT:**

*The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.*

- Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Do not open the device and do not modify the device.
- Do not insert objects into air vents.
- Do not connect this device to a dimmerpack.
- Do not switch the device on and off in short intervals, as this would reduce the device's life.
- Only use device indoor, avoid contact with water or other liquids.
- Avoid flames and do not put close to flammable liquids or gases.
- Always disconnect power from the mains, when device is not used or before cleaning! Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power-cord is never crimped or damaged. Check the device and the power-cord from time to time.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Showtec device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Showtec dealer for service.

- Repairs, servicing and electric connection must be carried out only by Showtec.
- For replacement use fuses of same type and rating only.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- WARRANTY: Till one year after date of purchase.

## OPERATING DETERMINATIONS

This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.

If this device is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.

Any other operation may lead to dangers like short-circuit, burns, electric shock, lamp explosion, crash etc.


You endanger your own safety and the safety of others!

*Improper installation can cause serious damage to people and property !*

### Connection with the mains

Connect the device to the mains with the power-plug.

Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	FASE
N	BLUE	BLACK	SILVER	NUL
	YELLOW/GREEN	GREEN	GREEN	EARTH

Make sure that the device is always connected properly to the earth!

## **Return Procedure**

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail [aftersales@highlite.nl](mailto:aftersales@highlite.nl) and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

**Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:**

- 1) Your name
- 2) Your address
- 3) Your phone number
- 4) A brief description of the symptoms

## **Claims**

The client has the obligation to check the delivered goods immediately upon delivery for any shortcomings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.

It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.

Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless otherwise agreed in writing.

Complaints against us must be made known in writing or by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.

Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement of which the obligation is resulting.

# Description of the device

## Features

The Fademaster 16 is a DMX controller from Showtec and features:

- 32 channel programmable DMX controller
- Total output channels: 16 x 2 (pages)
- program 12 scenes
- Manual Mode
- Built-in chase
- Adjustable speed: 0,1 sec - 10 min.
- Adjustable fade time: 0-100 %
- Adjustable chase direction
- Universal DMX-512 controller
- Output connector: 3 pole Female XLR
- Power Input DC 9V-500 mA
- 3HE (3U) 19" rack mount

NOTE: Knowledge of DMX is required to fully utilize this unit.

## Overview

### Controller Front

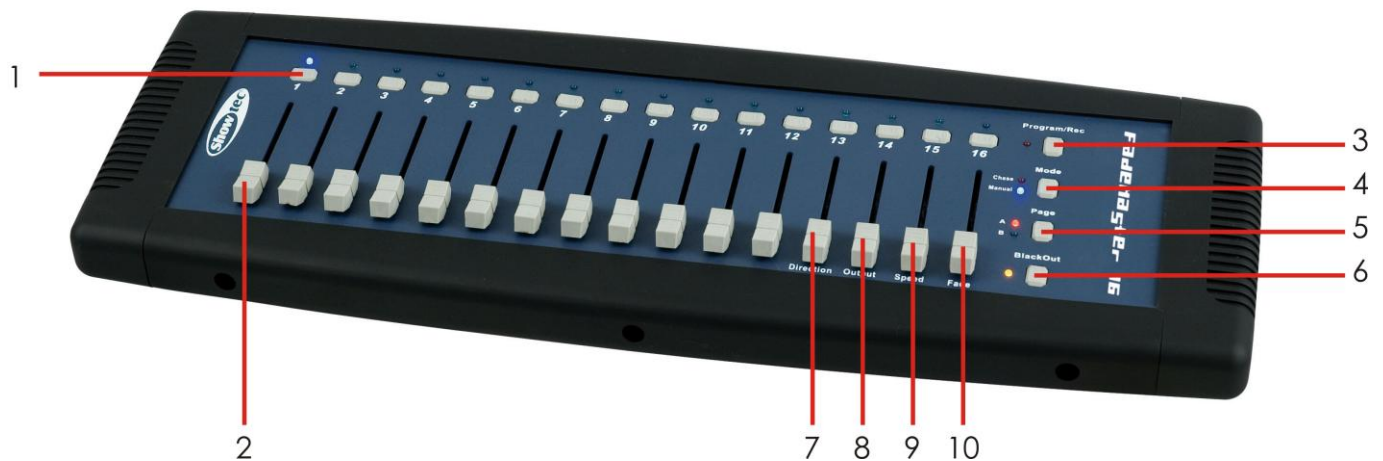


Fig. 1

#### 1) Scene select buttons

Universal bump buttons representing scene location for storage and selection

#### 2) Channel faders

For adjusting DMX values, Ch 1~16 can be adjusted immediately, Ch 17~32 after pressing the Page select button.

#### 3) Program / Rec button

Activates program mode.

#### 4) Mode button

operating mode status, (Chase / Manual). The corresponding Mode LED (Chase / Manual) will light up.

#### 5) Page button

Used to select page between Page A (1-16) and Page B (17-32). The corresponding Page LED (A/B) will light up.

### 6) Blackout button

Press this button to enable or disable relevant DMX output. When its LED is lit, that means the relevant DMX output is disabled. Press this button again the LED will be "off", that means the DMX output is reactivated.

### 7) Direction Fader

### 8) Output Fader

### 9) Speed Fader

This will adjust the hold time of a scene or a step within a chase (range of 0.1 second to 10 minutes).

### 10) Fade Fader

Used to adjust the fade time. Fade time is the amount of time it takes for a scanner (or scanners) to Move from one position to another, for the dimmer to fade in or fade out.

## Controller Backside



Fig. 2

11) 3-pin DMX input connector

12) 3-pin DMX output connector

13) DC Input DC 9V-500mA

14) ON/OFF power switch turns the controller on and off

## Installation

Remove all packing materials from the Fademaster 16. Check that all foam and plastic padding is removed. Screw the equipment into a 19" rack. Connect all cables.

**Always disconnect from electric mains power supply before cleaning or servicing.**

**Damages caused by non-observance are not subject to warranty.**



## Common Terms

The following are common terms used in intelligent light programming.

**Blackout** is a state where all lighting fixtures' light output are set to 0 or off, usually on a temporary basis.

**DMX-512** is an industry standard digital communication protocol used in entertainment lighting equipment. For more information read Sections "DMX Primer" and "DMX Control Mode" in the Appendix.

**Fixture** refers to your lighting instrument or other device such as a fogger or dimmer which you can control.

**Programs** are a number of scenes arranged one after another. It can be programmed as either a single scene or multiple scenes in sequence.

**Scenes** are static lighting states.

**Sliders** are also known as faders.

**Chases** can also be called programs. A chase consists of a number of scenes arranged one after another.

**Scanner** refers to a lighting instrument with a pan and tilt mirror; however DMX controllers can use this term to control any DMX-512 compatible device as a generic fixture.

**Stand Alone** refers to a fixture's ability to function independently of an external controller and usually in sync to music, due to a built in microphone.

**Fade** slider is used to adjust the fade time between scenes within a chase.

**Speed** slider affects the amount of time a scene will hold its state. It is also considered a wait time.

## Set Up and Operation

Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.

### Programming

- 1) Press PROGRAM and then press SCENE 1, 5, 6, 8.
- 2) Use the fader and PAGE button to set the DMX value,
- 3) Hold the PROGRAM button and choose the position for the SCENE to save
- 4) Save the current scene in the current SCENE.

### Exit programming:

- 1) To exit Program mode, first press the PROGRAM button and then the BLACKOUT button.

### Chase / Manual

- 1) Press MODE, you can select 2 different modes: AUTO and MANUAL.
- 2) You can control the controller manually or automatically.

### Chase Mode

A chase is created by using previously created scenes. Scenes become steps in a chase.

- 1) In Chase Mode the scenes will automatically be played one after the other.
- 2) In AUTO mode:
  - fader 13 controls the running direction of the CHASE
  - fader 14 controls the dimmer of the chase (0-100%)
  - fader 15 control the run speed of the chase CHASE (0.1s-10m)
  - fader 16 control FADE of the chase (0-100%)
- 3) In MANUAL mode: fader 1-16 and the PAGE button control the output of each channel.

### Blackout

- 1) Press the BLACKOUT button to enable or disable relevant DMX output. When its LED is lit, that means the relevant DMX output is disabled. Press this button again the LED will be "off", that means the DMX output is reactivated.

## Maintenance

The Showtec Fademaster 16 requires almost no maintenance. However, you should keep the unit clean. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Do not use alcohol or solvents.

Keep connections clean. Disconnect electric power, and then wipe the DMX and audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

## Troubleshooting

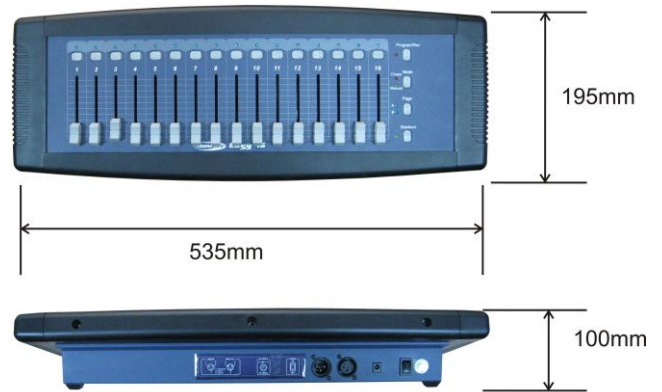
### Showtec Fademaster 16

This troubleshooting guide is meant to help solve simple problems. If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.

1. Fixture does not respond to controller: Check the DMX-address of the fixture and the controller. Make sure they match. Make sure the connections are correct. Check if blackout is off.
2. Note: when in programming mode, as long as the LED indicator is lit, the value will be stored, even if the value is zero.
3. If the device does not operate properly, unplug the device.
4. Check power from the wall, all cables, the fuse, the settings (return to default), etc.
5. If all of the above appears to be O.K., plug the unit in again.
6. If nothing happens after 30 seconds, unplug the device.
7. Return the device to your Showtec dealer.

## Product Specification

Model: Showtec Fademaster 16  
Power Supply: DC 9Volt - 500mA  
Power connector: Adapter included  
Mode: Chase / Manual  
32 DMX Channels  
Output: DMX-512 standard  
Output connector: 3-pin XLR female  
Input connector: 3-pin XLR male  
Dimensions: 535 x 195 x 100 mm (LxWxH)  
Weight : 2,8 kg



## Spare Parts

Spare adapter: SPNE5011

Design and product specifications are subject to change without prior notice.



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