



# Multi-Exchanger

5-PIN VERSION  
3-PIN VERSION

ORDERCODE 50348  
ORDERCODE 50355



**SHOWELECTRONICS FOR PROFESSIONALS**

## **Congratulations!**

You have bought a great, innovative product from Showtec.

The Showtec Multi-Exchanger 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 Multi-Exchanger™ Product Guide**

<b>Warning</b> .....	2
Safety-instructions.....	2
Operating Determinations.....	3
<b>Description</b> .....	4
Features.....	4
Overview.....	4
<b>Installation</b> .....	5
Installing .....	5
<b>Set Up and Operation</b> .....	6
<b>Maintenance</b> .....	7
<b>Troubleshooting</b> .....	7
<b>Product Specifications</b> .....	8

## WARNING

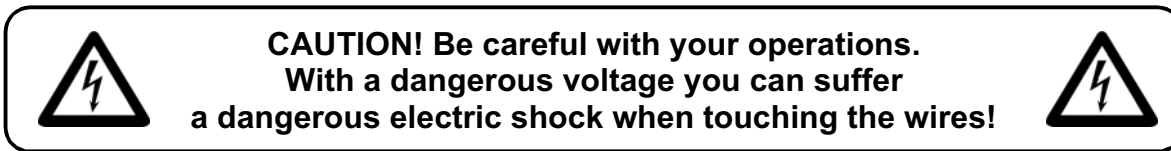


**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY  
BEFORE YOUR INITIAL START-UP!**

## SAFETY INSTRUCTIONS

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

- be qualified
- follow the instructions of this manual



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 connect this device to a dimmerpack.
- Do not switch the device on and off in short intervals, as this would reduce the system'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 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.
- 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.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

## **OPERATING DETERMINATIONS**

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 !*

## Description of the device

### Features

There are 2 different versions of the Multi-Exchanger: 3-pin / 5-pin Version

- Convert the signal from DMX-512 to 72CH. ANALOGUE output.
- Convert the signal from MIDI to 72CH. ANALOGUE output.
- The front panel alpha-numeric display shows the DMX start address & programming options.
- The last scene remains when DMX disappears.
- Pre-store a scene and is available for emergency.
- Memory backup with EEPROM.
- CHASE function can be selected from 1 to 72 channel & speed control.
- Select ANALOGUE output from +(-)10V, +(-)12V and +(-)15V.
- Receive NOTE ON / OFF signal of MIDI.

### Overview

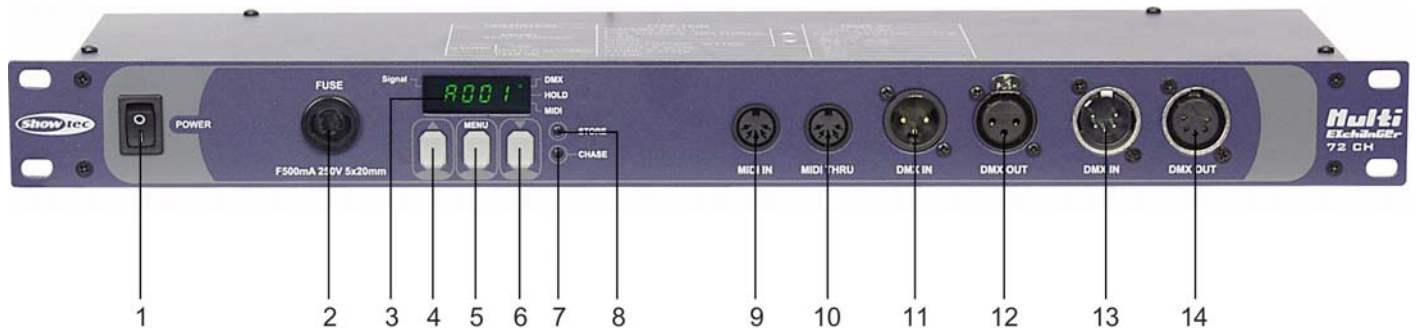


Fig. 1

- 1) Power Switch
- 2) Fuse:F500mA250V 5x20mm
- 3) 7 Segment Display: Shows the DMX initial address & program options.
- 4) ▲ Button: Increase the DMX address or program options.
- 5) Menu button: Press to enter DMX or MIDI setting mode and confirm the setting.
- 6) ▼ Button: Decrease the DMX address or program options.
- 7) Chase button: Press to enter CHASE mode and the 7 segment display shows CHAS, then you can adjust chasing speed from SP01 to SP99 and the channels from C-01 to C-72.
- 8) Store button: Press to store a scene or to run a pre-stored scene.
- 9) MIDI IN connector: Receives MIDI data.
- 10) MIDI THRU connector: Repeats or send MIDI input.
- 11) 3 pin DMX IN connector: XLR male socket used to receive DMX signals.
- 12) 3 pin DMX OUT connector: XLR female socket used to send DMX signals.
- 13) 5 pin DMX IN connector: XLR male socket used to receive DMX signals.
- 14) 5 pin DMX OUT connector: XLR female socket used to send DMX signals.

## Backside

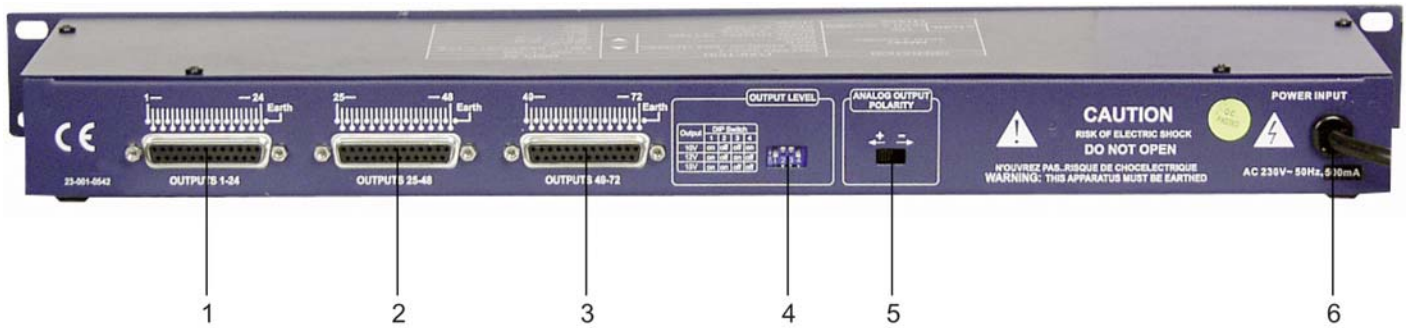


Fig. 2

- 1) 1-24 channel output connector 25-pin 'D' socket.
- 2) 25-48 channel output connector 25-pin 'D' socket.
- 3) 49-72 channel output connector 25-pin 'D' socket.
- 4) Output level: 10V, 12V and 15V are available by changing the setting of 4-dipswitches (see fig. 3).
- 5) Analogue output polarity: Move to the left for "+" output, right for "-" output (see fig. 3).
- 6) Power input: AC230V ~ 50Hz, 0.5A.

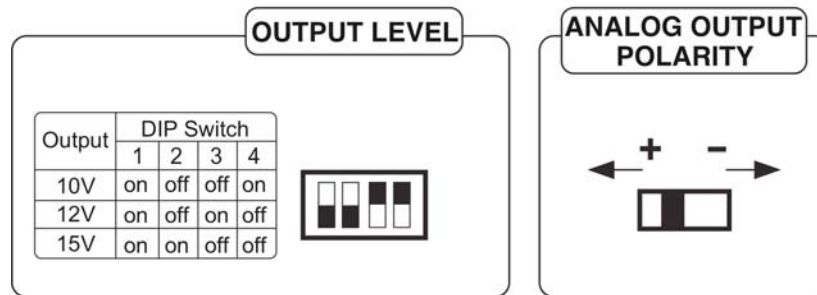


Fig. 3

## Installation

### Installation

Remove all packing materials from the Multi-Exchanger. Check that all foam and plastic padding is removed. Connect all cables.

**Always disconnect from electric mains power supply before cleaning or servicing.  
Damages caused by non-observance are not subject to warranty.**

## Set Up and Operation

Follow the directions below, as they pertain to your preferred operation mode.

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.

1. Turn the power switch on.
2. Press MENU button for 3 seconds to enter mode setting.
  - MODE SELECT      press UP / DOWN button to select DMX or MIDI MODE, the matching led blinks, then press MENU button.
  - DMX MODE          When DMX led blinks, the 7 segment display shows the blinking DMX initial address (A001-A512), press UP / DOWN button to select desired address and then press MENU button again.
  - MIDI MODE          When MIDI led blinks, the 7 segment display shows the blinking channel NO. (CH01-CH16), press UP / DOWN button to select desired channel, press MENU button again.
  - HOLD MODE          When the 7 segment display shows ON / OFF, the HOLD led is lit, press UP / DOWN button to select ON or OFF. If it shows ON, the last scene remains when DMX disappears; if it shows OFF, the last scene doesn't remain.
  - SPEED SETTING      Press MENU button once more, the 7 segment display shows SP01-SP99, press UP / DOWN button to select desired chasing speed.
  - CHANNEL SETTING    Press MENU button, the 7 segment display shows C-01 - C-72, select desired channel using UP / DOWN button, then press MENU button to confirm and leave mode setting. If you select C-48, the 1-48 channel will be executed periodically in the order.
3. When DMX led is lit, the 7 segment display shows the initial DMX address AXXX, and the 72 channel DMX signals beginning from the AXXX are converted to 72 channel analogue output. When DMX signal remains, the Signal led blinks.
4. When MIDI led is lit, the 7 segment display shows MIDI channel NO. (CH01-CH16), MIDI signals from NOTE NO. (22-93) are converted to 72 channel analogue output. When MIDI signal remains, the Signal led blinks.
5. When it is receiving DMX signal, after the scene setting is finished, press STORE button for 5 seconds till GOOD display, now you have stored a scene. Release the button to return to DMX input.
6. Press STORE button to run a pre-stored scene, the 7 segment display shows STOR. In mode setting, this function is defeated.
7. Press CHASE button to enter CHASE mode, the 7 segment display shows CHAS.
8. You have three options for analogue output: +(-) 10V, +(-) 12V & +(-) 15V.  
Be sure the dip switch 1 is always ON, set dip switch 2 to ON for 15V output, dip switch 3 ON for 12V output, dip switch 4 ON for 10V output.  
Remember any two of dip switches 2, 3 and 4 may not be ON at a time.



## Maintenance

The Showtec Multi-Exchanger 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 Multi-Exchanger

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. If the device does not operate properly, unplug the device.
2. Check power from the wall, all cables, the fuse, etc.
3. If all of the above appears to be O.K., plug the unit in again.
4. If nothing happens after 30 seconds, unplug the device.
5. Return the device mixer to your Showtec dealer.

## **Product Specification**

Model: Showtec Multi-Exchanger

Voltage : 230V

Dimensions : 220 x 130 x 55 mm (LxWxH)

Weight : 1,65 kg

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

