



# DMX Merge

ORDERCODE 50359



**SHOWELECTRONICS FOR PROFESSIONALS**

## **Congratulations!**

You have bought a great, innovative product from Showtec.

The Showtec DMX Merge 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 DMX Merge™ Product Guide**

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## 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

The DMX Merge has 3 Modes:

- HTP-Mode.
- Back-Up Mode.
- Merge-Mode.
- The DMX Merge can be used to merge the 2-way DMX signal inputs into one DMX signal output.

## Overview

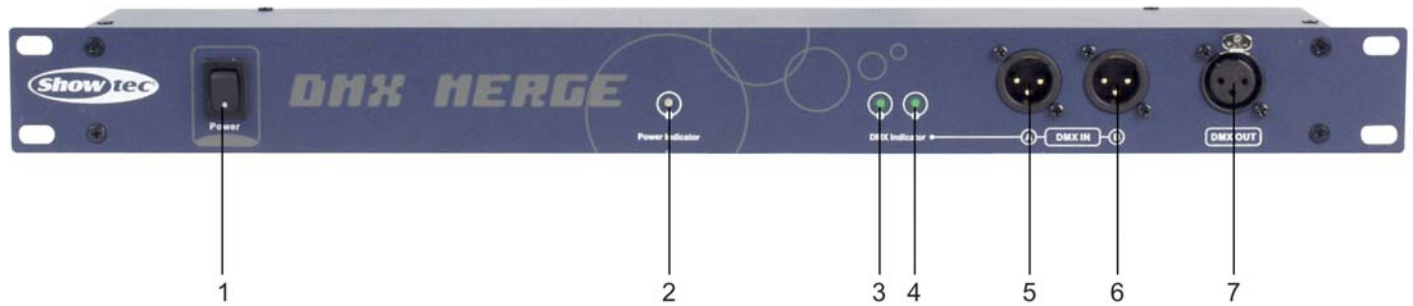


Fig. 1

- 1) ON / OFF-Switch.
- 2) Power Indicator
- 3) DMX (A) Indicator
- 4) DMX (B) Indicator
- 5) DMX IN (A) 3 pin DMX IN connector: XLR male socket used to receive DMX signals.
- 6) DMX IN (B) 3 pin DMX IN connector: XLR male socket used to receive DMX signals.
- 7) DMX OUT 3 pin DMX OUT connector: XLR female socket used to send DMX signals.

## Backside



Fig. 2

- 1) DMX OUT 3 pin DMX OUT connector: XLR female socket used to send DMX signals.
- 2) DMX IN (B) 3 pin DMX IN connector: XLR male socket used to receive DMX signals.
- 3) DMX IN (A) 3 pin DMX IN connector: XLR male socket used to receive DMX signals.
- 4) Dip-Switches (DMX Addressing)
- 5) Dip-Switches (Mode)
- 6) Power input: AC230V ~ 50Hz, 0.5A.

# Installation

## Installation

Remove all packing materials from the DMX Merge. 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. Connect the cables of lighting control devices to the male DMX Input interfaces and the cable of dimmer to female DMX Output interface in this unit.  
Note: Be sure that the present connection can be correct.
2. When turn the Power switch on, the Power indicator will be lit on, indicating that no power errors occurs in this unit.
3. When there are signal inputs via DMX Input interfaces, DMX indicator A and B will be lit up to imply two ways ( A and B ) signal inputs.  
Note: If only one way signal input is available, the relative DMX indicator A/B will be lit up.
4. Set the function modes  
Be clear that which mode this unit can be set.

There are only three function modes for your choice: HTP (High Take Precedence) mode  
Backup-Mode  
Merge-Mode

1	2	MODE
<input type="checkbox"/>	<input type="checkbox"/>	HTP
<input type="checkbox"/>	<input type="checkbox"/>	Backup
<input type="checkbox"/>	<input type="checkbox"/>	Merge

### HTP-Mode



Set dip-switch 1 and 2 to "Off" position, this unit will be in HTP (High Take Precedence) mode.

When two DMX signals are present, the bigger value DMX signal will take precedence and override the other DMX signal.

### Backup-Mode



Set dip-switch 1 to "On" and 2 to "Off" position, this unit will be in BACKUP mode. When DMX signal A is available, it will occupy DMX output. When DMX signal A is not available, DMX signal B will take the place of A.

### Merge-Mode



Set dip-switch 1 to "Off" and 2 to "On" position, this unit will be in MERGE mode, you can merge DMX signals A and B into a new one for DMX output by the setup of dip-switches 1-9. In this case you must set the DMX starting address in the Merge mode.

For example, if the 6 of DMX input A and the 18 channels of DMX input B works normal, you can set dip-switches 1, 2, 3 to "On" and the others to "Off" position, the 1th to 6th DMX output channels will be controlled by 1-6 channels of DMX signal A, and the 7th DMX output channel will be controlled by the 1th channel of DMX signal B, the 8th output by the 2nd channel of DMX B, and so on. In this way, the two signals can be merged into one signal output of 24 channels.

Note : If you set dip-switch 1 to "On" and the others to "Off" position, all DMX channel output will be started by the 1th channel of DMX signal B.

Here are DMX Address Setting Diagram (Fig. 3) and DMX Address Table (Fig. 4) for matching dip switches as your reference.

### DMX Address Setting

DMX B START CH#	DIP-SWITCHS ON	DMX B START CH#	DIP-SWITCHS ON
1	1	11	1, 2, 4
2	2	12	3, 4
3	1, 2	13	1, 3, 4
4	3	14	2, 3, 4
5	1, 3	15	1, 2, 3, 4
6	2, 3	16	5
7	1, 2, 3	:	:
8	4	:	:
9	1, 4	:	:
10	2, 4	511	1,2,3,4,5,6,7,8,9

Fig. 3

### DMX Address Table

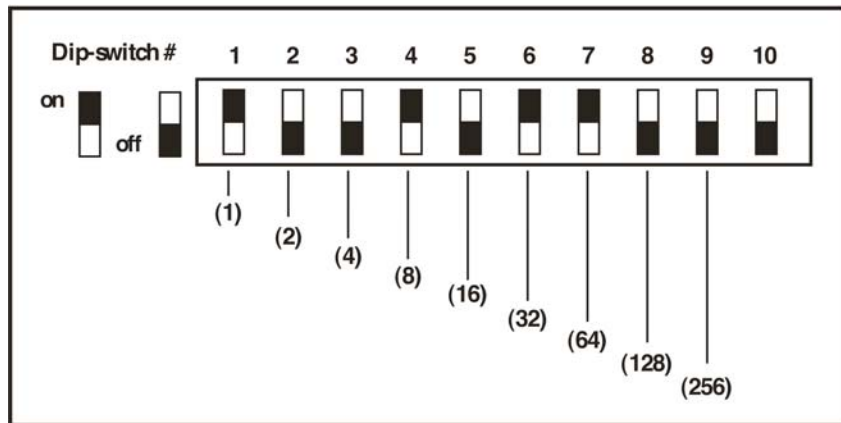


Fig. 4



## **Maintenance**

The Showtec DMX Merge 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 DMX Merge**

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 DMX Merge

Voltage : 230V

Power Requirement: DC 9V, 300mA Min.(AC/DC adapter included)

DMX Input: two 3-pin XLR male sockets on the front panel

Extra: two 3-pin XLR male sockets on the rear panel

DMX output: two 3-pin XLR female sockets on the front panel

Extra one 3-pin XLR female sockets on the rear panel

Dimensions : 482 x 73 x 44 mm (LxWxH)

Weight : 1,15 kg

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





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