



# Wireless DMX

ORDERCODE 50230



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## **Congratulations!**

You have bought a great, innovative product from Showtec.

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

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

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Thank you!



**Showtec Wireless DMX™ 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 has 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.
- Never use anything to cover the ground contact.
- Never leave any cables lying around.
- 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.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Do not open the device and do not modify the device.
- Only use device indoor, avoid contact with water or other liquids.
- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- Always keep case closed while operating.
- Always allow free air space of at least 50 cm around the unit for ventilation.
- 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 you don't use the wrong kind of cables or defective cables.
- 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.
- 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

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.

The maximum ambient temperature  $t_a$  must never be exceeded.

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!

### Rigging

*Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.*

*Do not attempt the installation yourself !*

*Always let the installation be carried out by an authorized dealer !*

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

# Description of the device

## Features

The Showtec Wireless DMX is a set, which consists of 2 units that can be set as transmitter and receiver.

- possible to use 1 transmitter with more receivers.
- 512 DMX channels
- Frequency: 915 MHz
- Max distance: 100 meter under optimal conditions.
- Min distance: 5 meter
- Operating voltage: AC 230V – 50 Hz
- Power supply included: yes
- Led Indicator: DMX signal, Power supply
- Housing: aluminum

## Overview



Fig. 1



Fig. 2

- 1) Antenna
- 2) DMX signal connector (IN)
- 3) DMX signal connector (OUT)
- 4) Power In DC 9V 200mA
- 5) Power / DMX LED
- 6) T/R LED
- 7) F1/F2 LED
- 8) DMX Dipswitches

**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.

Any number of Wireless DMX units can be used together in a given venue. These instructions will explain how to properly set up a Wireless system.

**Note: Since the Wireless DMX device can operate on two separate frequencies.**

**It is possible to have 2 systems operating independently of each other in one venue. A system is simply one transmitter and one or more receivers operating on the same frequency. Frequency 1 is 915 MHz, frequency 2 is 916 MHz.**

### Dipswitch Chart

Dipswitches		Function
1	2	
OFF	OFF	Transmitting on frequency 1
OFF	ON	Transmitting on frequency 2
ON	OFF	Receiving on frequency 1
ON	ON	Receiving on frequency 2

1. One unit must be designated as the transmitter. This unit must be connected to either a universal DMX controller, to the output coming from a fixture in a DMX daisy chain, or any DMX fixture operating as the master in master/slave mode. Set this unit to transmit by turning off dipswitch 1.
2. Set the transmitter to either frequency 1 or frequency 2 by setting dipswitch 2 (Off = frequency 1, On = frequency 2).
3. Any other units operating on the same frequency must be set to receive. Setting more than one unit to transmit on the same frequency may cause erratic and undesired operation.

### Indicator Lights

There are three indicator lights near the dipswitches of the unit.

Light	Status	Transmitter Unit	Receiver Unit
Power/DMX	Solid	No DMX signal on DMX input	Error. Turn the unit off, then back on.
	Blinking	Transmitting DMX wirelessly	Receiver is outputting DMX on the DMX out jack *
T/R	Green Solid	Unit is incorrectly set to receiver	Not receiving signal from transmitter
	Green Blinking	Unit is incorrectly set to receiver	Receiving signal from transmitter
	Red Solid	Error. Turn the unit off, then back on.	Error. Turn the unit off, then back on.
	Red Blinking	Transmitter on	Unit is incorrectly set to transmitter
F1/F2	Green	Frequency 2 selected	Frequency 2 selected
	Red	Frequency 1 selected	Frequency 1 selected

**\*Note:** The receiver will output a standard DMX signal even if it is not receiving DMX data wirelessly from the transmitter. If the receiver is not receiving a signal from a transmitter, it will repeatedly output the last set of DMX values it received. If the receiver is powered on before the transmitter, it will simply output zero for each DMX frequency value.

## Maintenance

The operator has to make sure that safety-relating and machine-technical installations are to be inspected by an expert after every year in the course of an acceptance test.

The operator has to make sure that safety-relating and machine-technical installations are to be inspected by a skilled person once a year.

The following points have to be considered during the inspection:

1. All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
2. There may not be any deformations on housings, fixations and installation spots.
3. Mechanically moving parts like axles, eyes and others may not show any traces of wearing.
4. The electric power supply cables must not show any damages or material fatigue.

The Showtec Wireless DMX 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 connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

## Troubleshooting

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. The Power/DMX light isn't blinking on the transmitter.  
Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.  
Determine whether the controller or light effect is at fault. Does the controller operate properly with other DMX products? If not, take the controller in for repair. If so, take the DMX cable and the light effect to a qualified technician.
2. The T/R light isn't blinking red on the receiver  
Check if dipswitch 1 is set to Receive Mode, if not set dipswitch 1 to ON.  
If this doesn't work, turn off the receiver device and then switch it back on.
3. The T/R light isn't blinking green on the receiver.  
Check to make sure it is set to the same frequency as the transmitter. If the F1/F2 light on the transmitter and light 3 on the receiver are different colors, change dipswitch 2 on either the transmitter or the receiver to correct the problem.
4. If no lights are on or blinking.  
Check if the power adapter is correctly plugged into the unit or check that the unit is plugged into an appropriate power supply.



## Product Specification

Model: Showtec Wireless DMX

Voltage: 240V-50Hz (CE)

Dimensions: 160x85x35mm (LxWxH)

Weight: 0,38 kg

## Operation and Programming

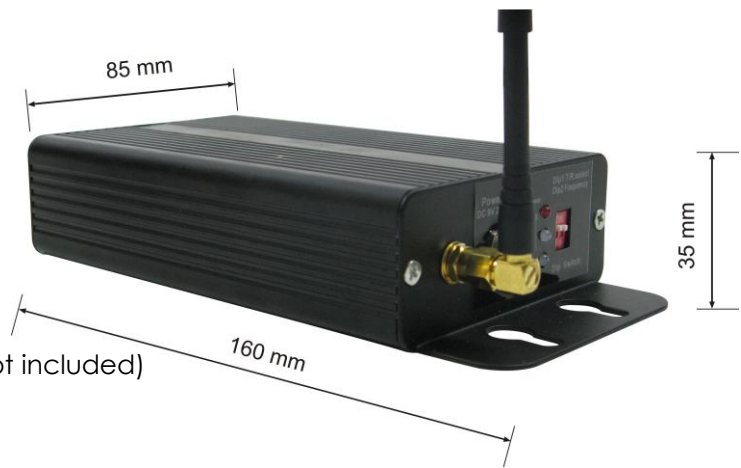
Signal pin OUT: pin 1 earth, pin 2 (-), pin 3 (+)

Set Up and Addressing: Dipswitches

Signal input 3-pin XLR male

Signal output 3-pin XLR female

DMX-control via standard DMX-controller (not included)



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



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