

# M-DMX TRANSCIEVER



## ENGLISH Operation Manual

Other languages can be downloaded from:  
[WWW.JB-SYSTEMS.EU](http://WWW.JB-SYSTEMS.EU)



*Version: 1.0*

**JB SYSTEMS**



### **EN - DISPOSAL OF THE DEVICE**

Dispose of the unit and used batteries in an environment friendly manner according to your country regulations.

### **FR - DÉCLASSER L'APPAREIL**

Débarrassez-vous de l'appareil et des piles usagées de manière écologique conformément aux dispositions légales de votre pays.

### **NL - VERWIJDEREN VAN HET APPARAAT**

Verwijder het toestel en de gebruikte batterijen op een milieuvriendelijke manier conform de in uw land geldende voorschriften.

### **DU - ENTSORGUNG DES GERÄTS**

Entsorgen Sie das Gerät und die Batterien auf umweltfreundliche Art und Weise gemäß den Vorschriften Ihres Landes.

### **ES - DESHACERSE DEL APARATO**

Reciclar el aparato y pilas usadas de forma ecologica conforme a las disposiciones legales de su país.

### **PT - COMO DESFAZER-SE DA UNIDADE**

Tente reciclar a unidade e as pilhas usadas respeitando o ambiente e em conformidade com as normas vigentes no seu país.

# OPERATION MANUAL

Thank you for buying this JB SYSTEMS® product. To take full advantage of all possibilities, please read these operating instructions very carefully.

## FEATURES

This unit is radio-interference suppressed. This product meets the requirements of the current European and national guidelines. Conformity has been established and the relevant statements and documents have been deposited by the manufacturer.

- The perfect solution when wireless DMX with maximum reliability is needed!
- One-button setup for ease of use.
- 2.4GHz band for worldwide license free use!
- 32 bit ARM processor for high speed!
- FHSS (1800 hops/s) for stable connection.
- DMA transfer : virtually NO delay in DMX!
- R&TTE / RED certified !
- Small size: can be hidden anywhere
- Robust construction: perfect for the rental companies.
- Small antenna for better mechanical reliability.
- 3pin XLR in/out to connect the unit anywhere in the DMX-chain.
- External 5V adaptor with micro-USB connector included.

## BEFORE USE

### **Check the contents:**

Check that the carton contains the following items:

- W-DMX TRANSCEIVER
- Antenna
- Power adaptor 5V DC
- USB/micro-USB cable
- User manual

### **Some important instructions:**

- Before you start using this unit, please check if there's no transportation damage. Should there be any, do not use the device and consult your dealer first.
- **Important:** This device left our factory in perfect condition and well packaged. It is absolutely necessary for the user to strictly follow the safety instructions and warnings in this user manual. Any damage caused by mishandling is not subject to warranty. The dealer will not accept responsibility for any resulting defects or problems caused by disregarding this user manual.
- Keep this booklet in a safe place for future consultation. If you sell the fixture, be sure to add this user manual.
- To protect the environment, please try to recycle the packing material as much as possible.

## SAFETY INSTRUCTIONS:



**CAUTION:** To reduce the risk of electric shock, do not remove the top cover. No user-serviceable parts inside. Refer servicing to qualified service personnel only.



The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the user of the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this appliance.



This symbol means: indoor use only



This symbol means: Read instructions

- To prevent fire or shock hazard, do not expose this appliance to rain or moisture.
- To avoid condensation to be formed inside, allow the unit to adapt to the surrounding temperatures when bringing it into a warm room after transport. Condense sometimes prevents the unit from working at full performance or may even cause damages.
- This unit is for indoor use only.
- Don't place metal objects or spill liquid inside the unit. No objects filled with liquids, such as vases, shall be placed on this appliance. Electric shock or malfunction may result. If a foreign object enters the unit, immediately disconnect the mains power.
- No naked flame sources, such as lighted candles, should be placed on the appliance.
- Don't cover any ventilation openings as this may result in overheating.
- Prevent use in dusty environments and clean the unit regularly.
- Keep the unit away from children.
- Inexperienced persons should not operate this device.
- Maximum safe ambient temperature is 40°C. Don't use this unit at higher ambient temperatures.
- Always unplug the unit when it is not used for a longer time or before you start servicing.
- The electrical installation should be carried out by qualified personal only, according to the regulations for electrical and mechanical safety in your country.
- Check that the available voltage is not higher than the one stated on the rear panel of the unit.
- The socket inlet shall remain operable for disconnection from the mains.
- The power cord should always be in perfect condition: switch off the unit immediately when the power cord is squashed or damaged. It must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard
- Never let the power-cord come into contact with other cables!
- This appliance must be earthed in order to comply with safety regulations.
- In order to prevent electric shock, do not open the cover. Apart from the mains fuse there are no user serviceable parts inside.
- **Never** repair a fuse or bypass the fuse holder. **Always** replace a damaged fuse with a fuse of the same type and electrical specifications!
- In the event of serious operating problems, stop using the appliance and contact your dealer immediately.
- Please use the original packing when the device is to be transported.
- Due to safety reasons it is prohibited to make unauthorized modifications to the unit.

## MAINTENANCE

Clean by wiping with a polished cloth slightly dipped with water. Avoid getting water inside the unit. Do not use volatile liquids such as benzene or thinner which will damage the unit.

## FUNCTIONS



1. **ANTENNA:** can be turned in almost any direction for better signal capture.
2. **ID BUTTON:** used to set the desired protocol and the transmitter or receiver mode.
3. **STATUS LED:** shows the status of the wireless connection.
4. **DMX INPUT:** 3-pin XLR connector (pin1 = ground/shield ; pin2 = data- ; pin3 = data+)
5. **DMX OUTPUT:** 3pin XLR connector (pin1 = ground/shield ; pin2 = data- ; pin3 = data+)
6. **POWER INPUT:** with micro-USB socket; connect the supplied adapter cable here.

## [SETUP FOR WIRELESS OPERATION]

Each unit is a wireless DMX transceiver. This means that every unit can be transmitter or receiver. To set up the system, you first need to assign each receiver to the universe (transmitter) it should work with.

### **VERY IMPORTANT THINGS TO KNOW BEFORE USE**

- Check information on the [ID] button (2).
  - Status LED (3) WHITE : the unit is in setup mode or disconnected from any transmitter.
  - Status LED (3) BLUE : the unit is in TRANSMITTER mode and connected to one or more receivers.
  - Status LED (3) BLUE (blinking fast) : the unit (transmitter) is connecting to receiver(s).
  - Status LED (3) BLUE (blinking slow) : no DMX-signal present on the transmitter
  - Status LED (3) GREEN : the unit is in RECEIVER mode and connected to a transmitter
  - Status LED (3) GREEN (blinking slow) : the unit receives no DMX-signal from transmitter.
  - Status LED (3) RED (blinking fast) : no signal present.
- A receiver can only connect to a transmitter while it is completely disconnected: status led (3) is WHITE.

### **SETTING UP THE M-DMX TRANSCEIVER in TRANSMITTER MODE :**

- Keep the [ID] button (2) pushed in while powering up the M-DMX TRANSCEIVER. The status LED (3) will become WHITE shortly, than turns BLUE, RED or GREEN (the last selected mode).
- Choose BLUE by pushing the [ID] button (2) shortly.
- Once BLUE selected, push the [ID] button (2) for 3 seconds to confirm the transmitter mode.
- The status LED will turn white and after a few seconds turns BLUE (blinking if there is no DMX signal present)
- The unit is now in transmitter mode.

### **SETTING UP THE M-DMX TRANSCEIVER in RECEIVER MODE :**

- Keep the [ID] button (2) pushed while powering up the M-DMX TRANSCEIVER. The status LED (3) will become WHITE shortly, than turns BLUE, RED or GREEN (the last selected mode).
- Choose GREEN by pushing the [ID] button (2) shortly.
- Once GREEN selected, push the [ID] button (2) for 3 seconds to confirm the receiver mode.
- The status LED will turn white and after a few seconds turns RED (fast blinking if there is no signal present)
- The unit is now in receiver mode.

## **CONNECTING ONE OR SEVERAL RECEIVERS TO A TRANSMITTER**

To connect your receiver(s) to a specific transmitter:

- Make sure that the receivers to be connected are not linked to another transmitter: the status led (3) on these receivers should be WHITE.
- Press the [ID] button (2) of the transmitter shortly; the status led (3) on both the transmitter (BLUE) and receivers (RED) starts blinking.
- Wait until blinking stops: the receivers are now linked to the transmitter.
- Check if the connection was made properly: press the [ID] button (2) on the transmitter again, the status led (3) on all linked receivers start blinking. Receivers linked to another transmitter will not blink.

## **DISCONNECTING RECEIVERS FROM A DMX UNIVERSE**

To disconnect all the receivers from a DMX universe / transmitter:

- Press the [ID] button (2) of the transmitter for about 5 seconds until the status LED (3) turns RED, the status LED on the receiver(s) turns WHITE (disconnected) for a second and then turns RED (no signal present).
- After a few moments the status LED (3) on the transmitter turns BLUE again.
- You can also re-connect the receiver(s) again simply by pushing shortly on the [ID] button (2) on the transmitter. The status LED (3) on the receiver(s) turns GREEN again.

To disconnect an individual receiver from a DMX universe / transmitter:

- Press the [ID] button (2) of the receiver for about 5 seconds until the status LED (3) turns WHITE.
- This receiver is now disconnected from the transmitter (DMX universe).

## SPECIFICATIONS

**Power Input:**

Power adapter AC 100V-240V, 50Hz / 5V DC-2A

**DMX connectors:**

- DMX input:
- DMX output:

3pin XLR

3pin XLR

**Size:**

103 x 76 x 36mm

**Weight:**

0,25kg



Every information is subject to change without prior notice

You can download the latest version of this user manual on our website: [www.JB-Systems.eu](http://www.JB-Systems.eu)





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**NL: Abonneer je vandaag nog op onze mailinglijst en ontvang ons laatste product nieuws!**

**DE: Abonnieren Sie unseren Newsletter und erhalten Sie aktuelle Produktinformationen!**

**ES: Suscribete hoy a nuestra lista de correo para recibir las últimas noticias!**

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