

# DS123

SPLITTER / BOOSTER **RDM**

# DS125

SPLITTER / BOOSTER **RDM**



# ENGLISH

## Operation Manual

Other languages can be downloaded from:  
[WWW.BRITEQ-LIGHTING.COM](http://WWW.BRITEQ-LIGHTING.COM)



Version: 1.0





### **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 BRITEQ® product. To take full advantage of all possibilities, please read these operating instructions very carefully.

## FEATURES

- The perfect solution for many DMX-line problems: this compact DMX-splitter divides any DMX-chain in 2 separate lines that will not interfere with each other. Problems on 1 line will not influence the other line!
- Maximum security, thanks to complete galvanic isolation between all in/outputs
- 100% RDM compatible for bidirectional DMX-communication
- The booster function makes your DMX-installation more reliable and flexible to set up.
- Specially designed for professionals:
  - Small size: can be hidden anywhere
  - Very robust construction: perfect for the rental applications
  - Can be fitted with any standard truss clamp with M10 thread: easy truss installation
- Adapted for use with HILEC® COMBI-cables (combined power + DMX)!
- Two models available:
  - **DS123-RDM:**
    - **1 input:** DMX 3pin (+ DMX pass-through) & 16A PowerCON-compliant Seetronic® connector.
    - **2 outputs**, each with: DMX 3pin + 16A PowerCON-compliant Seetronic® connector.
  - **DS125-RDM:**
    - **1 input:** DMX 5pin (+ DMX pass-through) & 16A PowerCON TRUE1-compliant Seetronic® connector.
    - **2 outputs**, each with: DMX 5pin & 16A PowerCON TRUE1-compliant Seetronic® connector.
- Power + signal present indicators.
- Internal power supply 100-240Vac

## BEFORE USE

### Check the contents:

Check that the carton contains the following items:

- DMX splitter unit
- Mains 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**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**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 or 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 the unit immediately off 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 to in order 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.

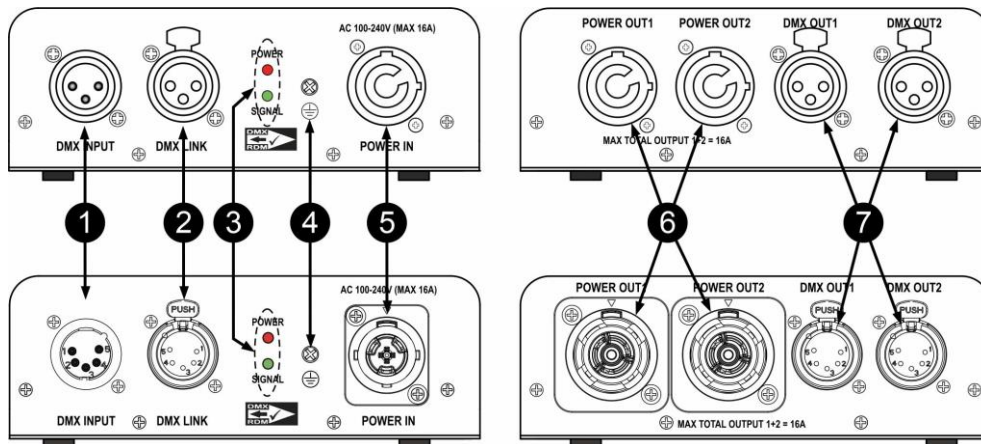
## MAINTENANCE

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.

# CONNECTIONS

Functions are identical, the only difference are the connections for both models:

- **DS123-RDM:** uses XLR 3pin + PowerCON compliant Seetronic® power connectors.
- **DS125-RDM:** uses XLR 5pin + PowerCON TRUE1 compliant Seetronic® power connectors.



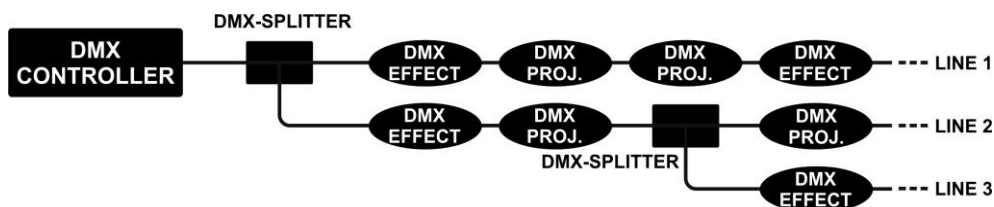
1. **DMX INPUT:** Connect the incoming DMX signal to be split into 2.
2. **DMX LINK:** Used to link / daisy chain the incoming DMX signal to the next DMX-unit.
3. **LED INDICATORS:**
  - **POWER:** is lit when the unit receives mains power
  - **SIGNAL:** is lit while a valid DMX signal is detected on the input
4. **EARTH CONNECTION:** connect to ground when needed.
5. **MAINS INPUT:** Connect the mains power cable to be split into 2.
6. **MAINS OUTPUTS:** When you use “COMBI CABLES for DMX + Power”, you can use these outputs to provide power to the connected projectors or light effects.
7. **DMX OUTPUTS:** the splitter has 2 identical but completely isolated DMX-outputs: when a problem occurs on one of the outputs (short circuits, overvoltage, ...) the other output and the 2 inputs will be protected and stay fully functional. RDM-signals pass in both directions.

# CONNECTIONS AND USE

Normally all units in a DMX-chain should be connected in one long chain. Unfortunately, this is not always the best solution. In many cases a star configuration is easier, from the controller you have 2 or more DMX-lines going in different directions:

- **Easier for your cabling** (often less cable needs to be used)
- **More reliable:** if you have a problem (ex. short circuit) in the long DMX-chain, all units behind the problem will not work anymore. If you have different lines, only the units in the line with short circuit will be affected...

*Example: if one of the units in LINE1 has a problem, the units in LINE2+3 will not be affected.*



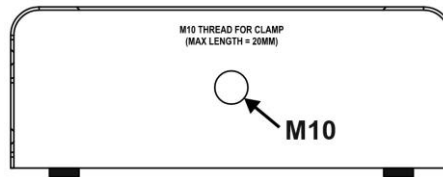
For your convenience and faster wiring, we recommend that you also purchase our COMBI-CABLES. These cables are available in different lengths and different connector combinations.



For more information, look here: <https://briteq-lighting.com/cnc/cnc-ass/cnc-ass-com>

## OVERHEAD RIGGING

You can use the M10 thread on the top of the enclosure to fix a rigging hook.

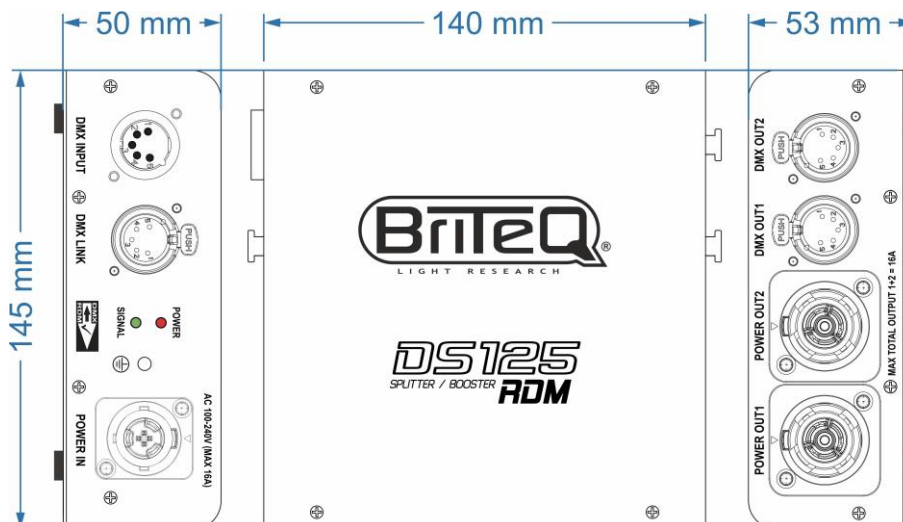


- **Important:** The installation must be carried out by qualified service personal only. Improper installation can result in serious injuries and/or damage to property. Overhead rigging requires extensive experience! Working load limits should be respected, certified installation materials should be used, the installed device should be inspected regularly for safety.
- Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
- The device should be installed out of reach of people and outside areas where persons may walk by or be seated.
- Before rigging make sure that the installation area can hold a minimum point load of 10times the device's weight.
- The device should be well fixed; a free-swinging mounting is dangerous and may not be considered!
- The operator has to make sure that the safety-relating and machine-technical installations are approved by an expert before using them for the first time. The installations should be inspected every year by a skilled person to be sure that safety is still optimal.

## SPECIFICATIONS

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.

<b>Power Input:</b>	AC100~240V / 50Hz.
<b>Max. Total Output Power:</b>	Max.16A over both outputs together
<b>POWER input / outputs:</b>	<b>DS123-RDM:</b> Seetronic® PowerCON compliant <b>DS125-RDM:</b> Seetronic® PowerCON TRUE1 compliant
<b>DMX input / outputs:</b>	<b>DS123-RDM:</b> 3pin XLR <b>DS125-RDM:</b> 5pin XLR
<b>Size:</b>	140 x 145 x 50mm (53mm with feet)
<b>Weight:</b>	1kg



Every information is subject to change without prior notice

You can download the latest version of this user manual on our website: [www.briteq-lighting.com](http://www.briteq-lighting.com)





## MAILING LIST

**EN: Subscribe today to our mailing list for the latest product news!**

**FR: Inscrivez-vous à notre liste de distribution si vous souhaitez suivre l'actualité de nos produits!**

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

**PT: Inscreva-se hoje na nossa mailing list para estar a par das últimas notícias!**

**[WWW.BRITEQ-LIGHTING.COM](http://WWW.BRITEQ-LIGHTING.COM)**

**Copyright © 2023 by BEGLEC NV**

't Hofveld 2C ~ B1702 Groot-Bijgaarden ~ Belgium

Reproduction or publication of the content in any manner, without express permission of the publisher, is prohibited.