

# ACCLAIM LIGHTING

## DD-6

6 Way DMX Distributor

### User's Instruction

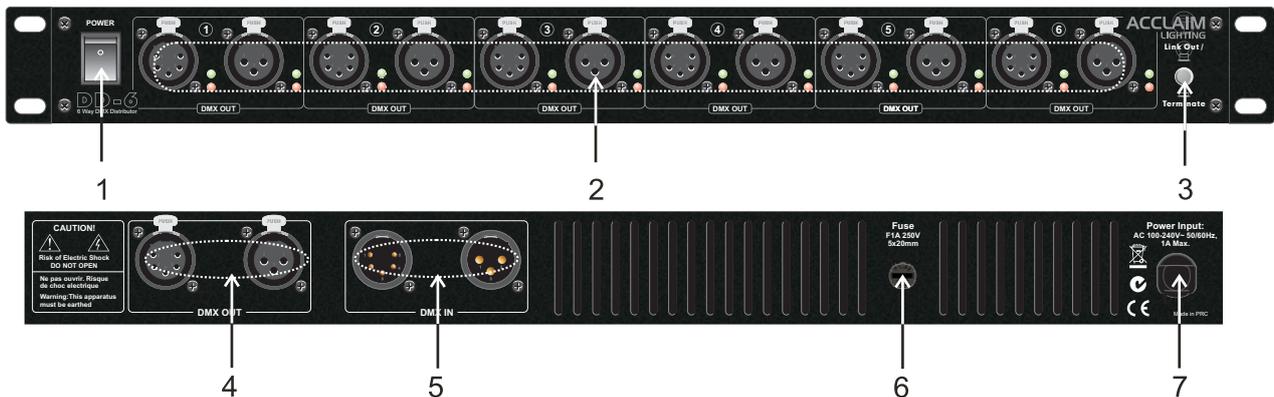
### Product Descriptions

This is a 6 channel DMX booster with one DMX input and 6 DMX outputs. This unit takes the incoming DMX signal and splits the signal into six separate output channels. Each output channel and the input channel are completely electronically isolated from each other, all six output channels have independent output drivers to boost the DMX signal. In addition, a Link out/Terminate selector is used for secure linking when you intend to terminate DMX signal.

### Technical Specifications

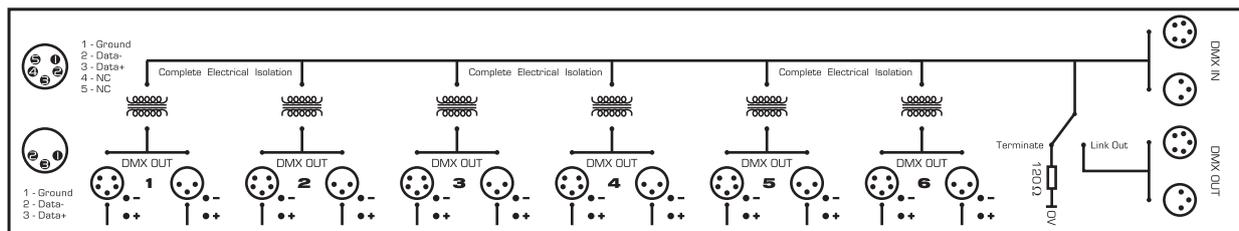
Power Input .....	AC100-240V~50/60Hz, 1A Max.
DMX Connectors .....	3-pin and 5-pin XLR sockets
Fuse .....	F1A 250V 5x20mm
Dimensions .....	482x135x42mm
Weight .....	2.25Kg

### Controls And Functions



- 1. Power Switch** - This switch turns on and off the main power.
- 2. DMX Output/ W Driver** - The six DMX output channels are completely electronically isolated and each features an independent driver that boost the DMX signal.
- 3. Link Out / Terminate selector** - This switch is primarily meant for troubleshooting. When the switch is in the "Terminate" position, DMX output(4) is turned off and you can not link any more units. When the switch is in the "Link Out" position, this unit allows you link a second unit.
- 4. DMX Output** - These jacks are used for linking a second unit.
- 5. DMX Input** - These jacks are used to receive an incoming DMX signal.
- 6. Fuse** - F1A 250V 5x20mm
- 7. Power Input** - AC100-240V~50/60Hz, 1A Max.

### Internal Wiring Schematic Diagram



### **Warning!!!**

1. This apparatus must be earthed.
2. To prevent fire or shock hazard, do not expose this product under a high temperature or humid area.
3. This product is intended for indoor use only.
4. Replace the fuse with the same type.

## Set-up

### Power Supply:

Before plugging your unit in, be sure the source voltage in your area matches the required voltage for the DD-6 power supply. The DD-6 is only available in AC100-240V versions. Due to variations in line voltage from venue to venue, be sure to plug your power supply into a wall outlet with matching power before attempting to operate. And complete the system connection of the DD-6 with your fixtures by using data(DMX) cables.

### Data Cable (DMX Cable) Requirements:

The DD-6 can be controlled via DMX-512 protocol and your DMX controller requires a standard 3-pin XLR connector for data input and data output(Figure1). Connect the DD-6 and your fixtures together using standard 3 pin DMX cables. The DD-6 uses DMX-512 protocol to operate your fixtures.

If you are constructing your own data cables, be sure to use standard two conductor shielded cable (This cable may be purchased at almost all professional sound and lighting stores). Your cables should be made with a 3-pin male and female XLR connector on either end of the cable. Also remember that DMX lines must be daisy chained and can't be split.



Figure 1

### \*Note:

Be sure to follow figures two and three when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.

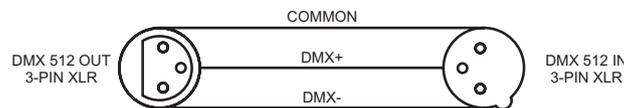


Figure 2

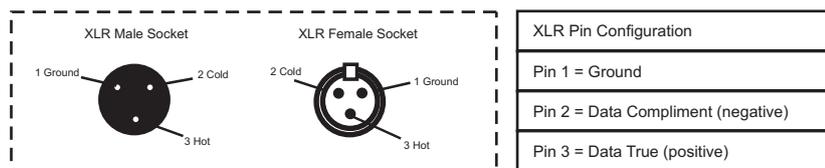


Figure 3

### \*Special Note:

**Line Termination.** When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator will decrease the possibilities of erratic behavior.

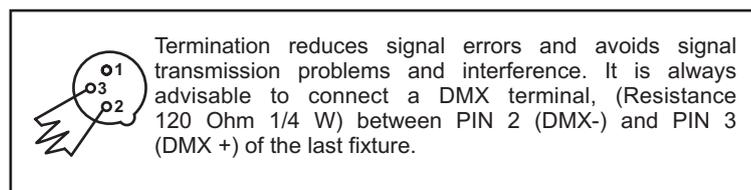


Figure 4

**DMX Signal Cable.** 120 ohm impedance DMX signal cable **MUST** be used for signal connection.

### 5-Pin XLR DMX Connectors.

Some manufactures use 5-pin XLR connectors for DATA transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used, these adaptors are readily available at most electric stores. The chart below details a proper cable conversion.

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female(Out)	5-pin XLR Male(In)
Ground/Shield	Pin 1	Pin 1
Data Compliment(-signal)	Pin 2	Pin 2
Data True(+signal)	Pin 3	Pin 3
Not Used		Pin 4 - Do Not Used
Not Used		Pin 5 - Do Not Used