Show Director Wireless

User Manual

Order code: BOTE23

WARNING

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CARE-FULLY BEFORE YOUR INITIAL START-UP!

- Before your initial start-up, please make sure that there is no damage caused during transportation.
- Should there be any damage, consult your dealer and do not use the equipment.
- To maintain the equipment in good working condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.
- Please note that damages caused by user modifications to this equipment are not subject to warranty.

| ⚠️ | **CAUTION!** **KEEP THIS EQUIPMENT AWAY FROM RAIN, MOISTURE AND LIQUIDS** | ⚡ | **CAUTION!** **TAKE CARE USING THIS EQUIPMENT!** **HIGH VOLTAGE-RISK OF ELECTRIC SHOCK!!** |

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorised modification to the equipment.

- Never let the power cable come into contact with other cables. Handle the power cable and all mains voltage connections with particular caution!
- Never remove warning or informative labels from the unit.
- Do not open the equipment and do not modify the unit.
- Do not connect this equipment to a dimmer pack.
- Do not switch the equipment on and off in short intervals, as this will reduce the system's life.
- Only use the equipment indoors.
- Do not expose to flammable sources, liquids or gases.
- Always disconnect the power from the mains when equipment is not in use or before cleaning! Only handle the power-cable by the plug. Never pull out the plug by pulling the power-cable.
- Make sure that the available mains supply voltage is between 100~240V AC, 50/60Hz.
- Make sure that the power cable is never crimped or damaged. Check the equipment and the power cable periodically.
- If the equipment is dropped or damaged, disconnect the mains power supply immediately and have a qualified engineer inspect the equipment before operating again.
- If the equipment has been exposed to drastic temperature fluctuation (e.g. after transportation), do not connect power or switch it on immediately. The arising condensation might damage the equipment. Leave the equipment switched off until it has reached room temperature.
- If your product fails to function correctly, stop use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Pro Light dealer for service.
- Only use fuses of same type and rating.
- Repairs, servicing and power connection must only be carried out by a qualified technician. THIS UNIT CONTAINS NO USER SERVICEABLE PARTS.
- This unit is for professional use only - it is not designed for or suitable for household use. The product must be installed by a qualified technician in accordance with local territory regulations. The safety of the installation is the responsibility of the installer. The fixture presents risks of severe injury or death due to fire hazards, electric shock and falls.
- WARRANTY: One year from date of purchase.

OPERATING DETERMINATIONS

If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void. Incorrect operation may lead to danger e.g: short-circuit, burns and electric shocks etc.

Do not endanger your own safety and the safety of others!

Incorrect installation or use can cause serious damage to people and/or property.

Show Director Wireless

This handy 19" rack mountable unit features wireless switching for up to 8 effects from one switch pack. The remote control provided with the unit is powered by a 9V PP3 battery allowing the user to run their lightshow wirelessly. Multichannel operation allows up to eight switch packs to be operated from one remote control unit allowing up to 64 channels of control.
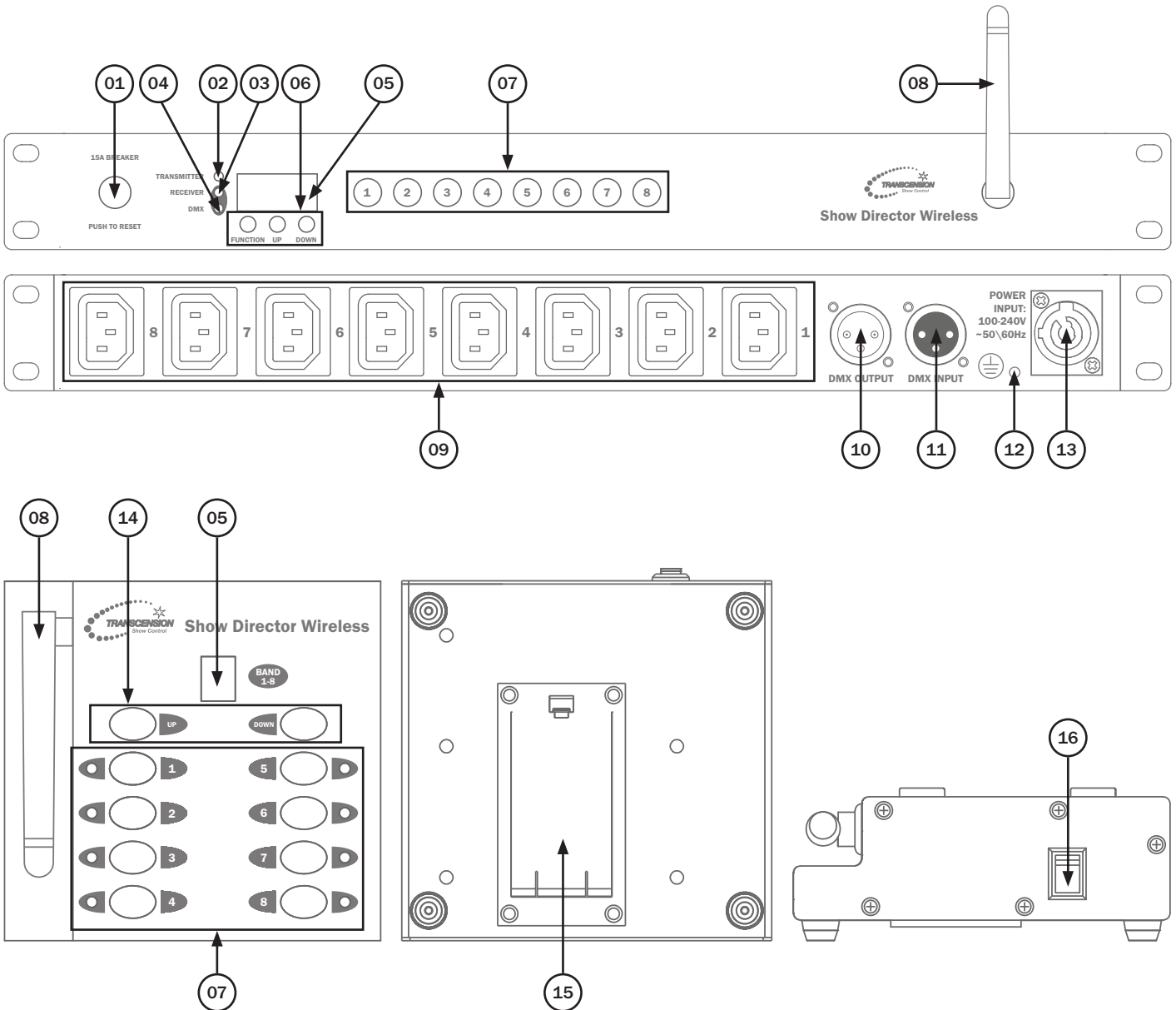
The effects power pack features a wireless receiver to accept the signal from the remote control (on/off) and is fitted with eight IEC outputs. DMX in/out is also provided for hard wire applications.

The Show Director Wireless is the ideal solution for mobile entertainers, nightclubs, bars or for any event where you do not want cables to be seen.

- 100m wireless range (subject to ideal conditions)
- 2.4GHz operating frequency
- 8 Frequency bands for control of up to 8 switch packs from one remote
- 9V PP3 MN1604 battery operation
- Relay switched outputs for reliable operation
- PowerCON input
- 3-Pin XLR input/output
- 8 x IEC switched outputs
- 10A per channel maximum, 15A overload protection

Specifications	
Power supply	100~240V, 50/60Hz
Total load	15A
Handheld battery type	9V PP3
Switchpack dimensions	44 x 484 x 147mm
Handheld dimensions	105 x 110 x 35mm
Switchpack weight	1.9kg
Handheld weight	0.6kg
Order code	BOTE23

01 - 15A breaker

02 - Transmitter LED - If the transmitter LED is lit this means the unit is not transmitting signal. If the LED flashes then the unit is transmitting signal.

03 - Receiver LED - If the receiver LED is lit this means the unit is not receiving signal. If the LED flashes then the unit is receiving signal.

04 - DMX LED - If the DMX LED is lit this means the unit is not receiving a DMX signal. If the LED flashes then the unit is receiving a DMX signal.
Note: If both the receiver and DMX LEDs are lit there is no slave signal present. If both LEDs are flashing the slave signal is present.

05 - LED display

06 - Function buttons

07 - Output channel on/off control

08 - Antenna

09 - 8 x IEC outputs

10 - 3-Pin XLR DMX output

11 - 3-Pin XLR DMX input

12 - Earth point

13 - PowerCON input

14 - Up/down buttons

15 - 9V PP3 battery

16 - Handheld on/off switch

In the box:
1 x switch pack,
1 x remote control
1 x 9V PP3 Battery
1 x PowerCON cable
& 1 x user manual

Wireless remote operation:

The wireless remote control is powered from a high quality 9V PP3 (MN1604) battery. The battery must be connected before commencing operation. Do not store for long periods with a battery fitted while not in use. The handheld wireless remote control can be used to control up to eight switch pack units. To do so the frequency band must be changed on the wireless remote. Press and hold the "**UP**" or "**DOWN**" key for 3 seconds to change the frequency band. The wireless remote will store on/off selection for each frequency band for glitch free operation.

Please note: the frequency band of the switch pack must then also be adjusted to suit.

When the wireless remote controller and power pack are on same frequency band, and within the wireless range the indicator will flash bottom right of the display on the wireless remote control. Should the wrong frequency band be selected or the wireless signal fail due to interference/distance the indicator will be lit permanently.

To clear the stored on/off selection for all frequency bands, press and hold both "**UP**" and "**DOWN**" buttons. The eight output indicator LEDs will flash three times to confirm the memory has been cleared.

Each of the output channels features a button for on/off control and a yellow LED for status indication. The LED will illuminate to indicate the output channel is switched on. For added creativity when switching outputs on or off, multiple selections can be made at the same time. For example, to switch all channels from off to on simply press buttons 1 & 8 simultaneously. Multiple selections may also be reversed, for example if channels 1, 3 & 5 are switched on and 2, 4, 6, 7 & 8 are off when the user presses buttons 1 & 8 simultaneously the wireless remote will switch 1, 3 & 5 off and switch on 2, 4, 6, 7 & 8.

Wireless receiver:

In Wireless Receive mode the power pack will be controlled by the wireless remote control. Use the "**FUNCTION**" button on the front panel of the power pack to select $r\,\square\square\square$ mode. Use the "**UP**" and "**DOWN**" buttons to select the required frequency band number. The LED dot under the "r" will flash when the frequency band on the power pack and the frequency band on the wireless remote are matched. In wireless receive mode the on/off buttons on the front panel of the power pack will be disabled.

Transmitter mode:

In Wireless Transmitter mode the power pack will act as the master unit with direct control of the output channels from the front panel of the power pack, the selection will then be replicated and transmitted via the wireless antenna to allow additional power packs to be used. Use the "**UP**" and "**DOWN**" buttons to select the required frequency band number, this must also be replicated on the corresponding power pack set to Wireless Receive mode.
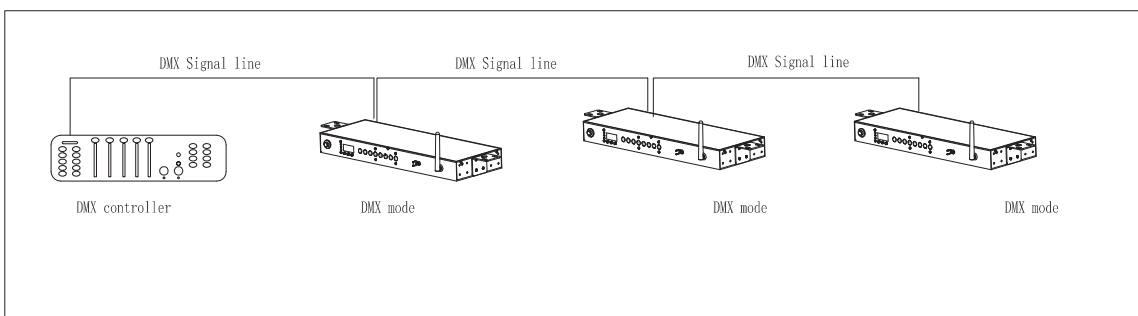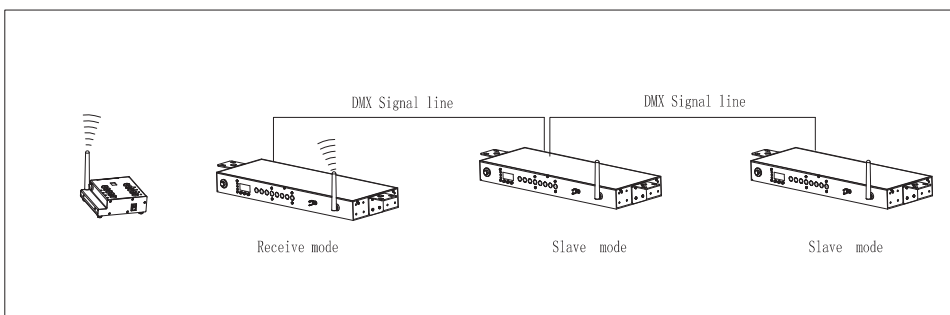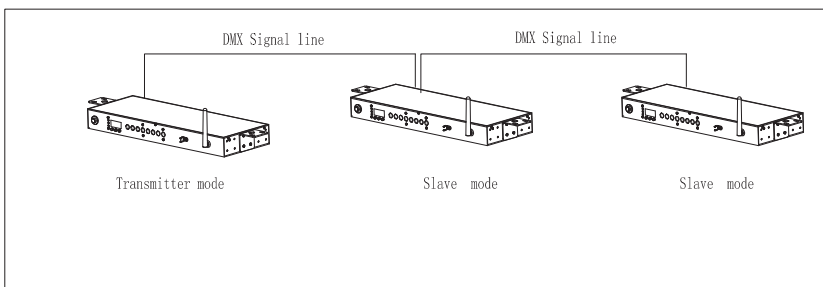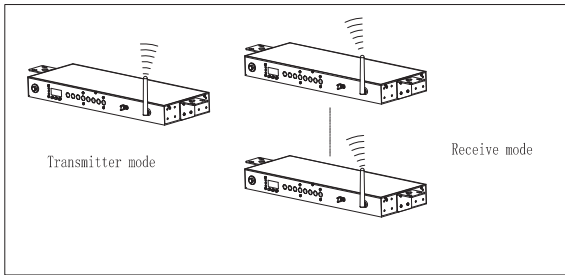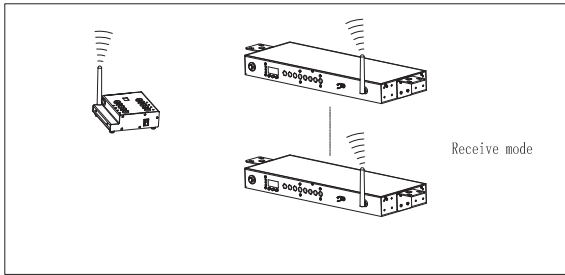
DMX mode:

DMX Mode allows the power pack to be controlled directly from any standard DMX console capable of controlling 9 DMX channels. Use the "**FUNCTION**" button to select DMX mode on the power pack (indicated by a green LED). Use the "**UP**" and "**DOWN**" buttons to select the required DMX address.

DMX channel allocation:

Channel	Value	Function
CH1	000-127	CH1 OFF
	128-255	CH1 ON
CH2	000-127	CH2 OFF
	128-255	CH2 ON
CH3	000-127	CH3 OFF
	128-255	CH3 ON
CH4	000-127	CH4 OFF
	128-255	CH4 ON
CH5	000-127	CH5 OFF
	128-255	CH5 ON
CH6	000-127	CH6 OFF
	128-255	CH6 ON
CH7	000-127	CH7 OFF
	128-255	CH7 ON
CH8	000-127	CH8 OFF
	128-255	CH8 ON
CH9	000-127	CH1-8 OFF
	128-255	CH1-8 ON

Slave mode:

Slave mode allows power packs to be connected via DMX cable to other power packs, increasing the number of light effects switched on/off. Press the "**FUNCTION**" button until the display shows *5000* then use the "**UP**" and "**DOWN**" buttons to select the required frequency band. The master unit must be selected to either "Wireless Receiver" or "Wireless Transmitter" mode. When Slave mode is active the blue Receiver LED and green DMX LED will both illuminate. The LED indicators will flash to indicate correct DMX signal is being received.

Receive mode

Transmitter mode · Receive mode

DMX Signal line · DMX Signal line

Transmitter mode · Slave mode · Slave mode

DMX Signal line · DMX Signal line

Receive mode · Slave mode · Slave mode

DMX Signal line · DMX Signal line · DMX Signal line

DMX controller · DMX mode · DMX mode · DMX mode

Setting the DMX address:

The DMX mode enables the use of a universal DMX controller. Each fixture requires a "start address" from 1- 512. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that occupies or uses 7 channels of DMX and was addressed to start on DMX channel 100, would read data from channels: 100,101,102,103,104,105 and 106. Choose a start address so that the channels used do not overlap. E.g. the next unit in the chain starts at 107.

DMX 512:

DMX (Digital Multiplex) is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions form the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA "IN" and DATA "OUT" XLR terminals located on all DMX fixtures (most controllers only have a data "out" terminal).

DMX linking:

DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned to a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

DATA cable (DMX cable) requirements (for DMX operation):

This fixture can be controlled via DMX-512 protocol. The DMX address is set on the back of the unit. Your unit and your DMX controller require a standard 3-pin XLR connector for data input/output, see image below.

Further DMX cables can be purchased from all good sound and lighting suppliers or Pro Light Concepts dealers.
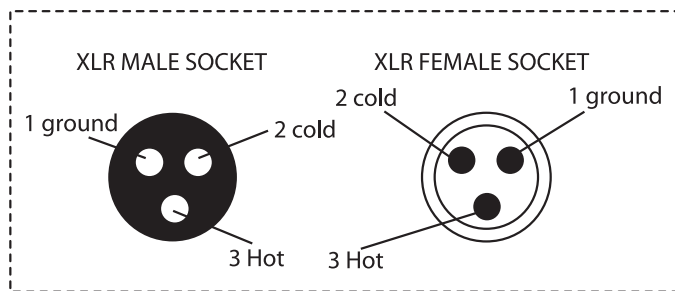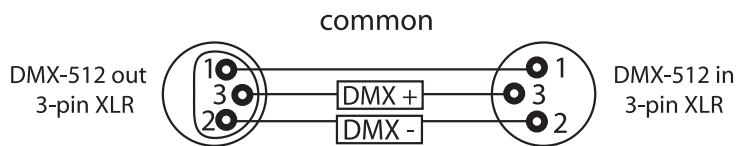
Please quote:

    CABL10 – 2m
    CABL11 – 5m
    CABL12 – 10m

Also remember that DMX cable must be daisy chained and cannot be split.

Notice:

Be sure to follow the diagrams below when making your own cables. Do not connect the cables shield conductor to the ground lug or allow the shield conductor to come in contact with the XLRs outer casing. Grounding the shield could cause a short circuit and erratic behaviour.

XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Negative
Pin 3 = Postive

Special note:

Line termination:

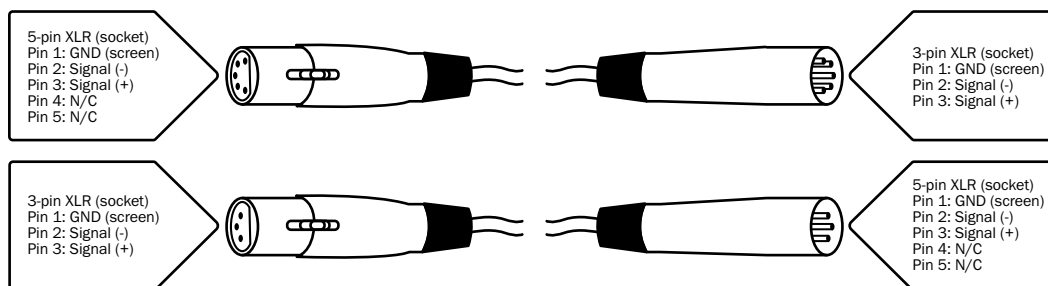When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

Using a cable terminator will decrease the possibilities of erratic behaviour.
(3-pin - Order ref: CABL9O, 5-pin - Order ref: CABL89)

Termination reduces signal transmission problems and interferance. it is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4 W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

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. The diagram below details the correct cable conversion.

Correct Disposal of this Product
(Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed of with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.