ENGLISH

Kanjo Wash RGB   V1

Ordercode: 45000

Table of contents

Warning

<div style="border:1px solid black">

⚠ **For your own safety, please read this user manual carefully before your initial start-up!** ⚠

</div>

Unpacking Instructions

Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Your shipment includes:

- Showtec Kanjo Wash RGB
- Mounting bracket with screws
- Schuko to IEC cable (length 1,5 m)
- User manual
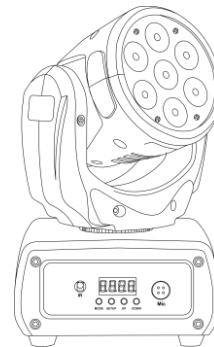
LED Expected Lifespan

LEDs gradually decline in brightness over time. HEAT is the dominant factor that leads to the acceleration of this decline. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal or singular optimum conditions. For this reason when all color LEDs are used at their fullest intensity, life of the LEDs is significantly reduced. If improving your lifespan expectancy is of a higher priority, place care in providing for lower operational temperatures. This may include climatic-environmental and the reduction of overall projection intensity.

<div style="border:1px solid black">

⚠ **CAUTION!**
Keep this device away from rain and moisture!
Unplug mains lead before opening the housing! ⚠

</div>

Safety Instructions

Every person involved with the installation, operation and maintenance of this device has to:
    be qualified
    follow the instructions of this manual

<div style="border:1px solid black">

⚡ **CAUTION! Be careful with your operations.**
With a dangerous voltage you can suffer
a dangerous electric shock when touching the wires! ⚡

</div>

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 lift the fixture by holding it at the projector-head, as the mechanics may be damaged.
- Never place any material over the lens.
- Never look directly into the light source.
- Never leave any cables lying around.
- Do not insert objects into air vents.
- 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 touch the device's housing bare-handed during its operation. Allow the fixture to cool for at least 5 minutes before handling.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Only use device indoor, avoid contact with water or other liquids.
- Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.
- 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 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 the lens is obviously damaged, it has to be replaced. So that its functions are not impaired, due to cracks or deep scratches.
- 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.
- For adult use only. Device must be installed out of the reach of children. Never leave the unit running unattended.
- Never attempt to bypass the thermostatic switch or fuses.
- For replacement use fuses of same type and rating only.
- The user is responsible for correct positioning and operating of the Kanjo Wash RGB. The manufacturer will not accept liability for damages caused by the misuse or incorrect installation of this device.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

CAUTION! Eyedamages!!!
Avoid looking directly into the lightsource!!!
(meant especially for epileptics)!!!

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 minimum distance between light-output and the illuminated surface must be more than 1 meter.
- The maximum ambient temperature ta = 40°C must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 40° C.
- 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, 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!

Procedure:

- If the Kanjo Wash RGB is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the Kanjo Wash RGB, with the mounting-bracket, to the trussing system.
- The Kanjo Wash RGB must never be fixed swinging freely in the room.
- The installation must always be secured with a safety attachment, e.g. an appropriate safety net or safety-cable.
- When rigging, derigging or servicing the projector, always make sure, that the area below the installation place is blocked and staying in the area is forbidden.
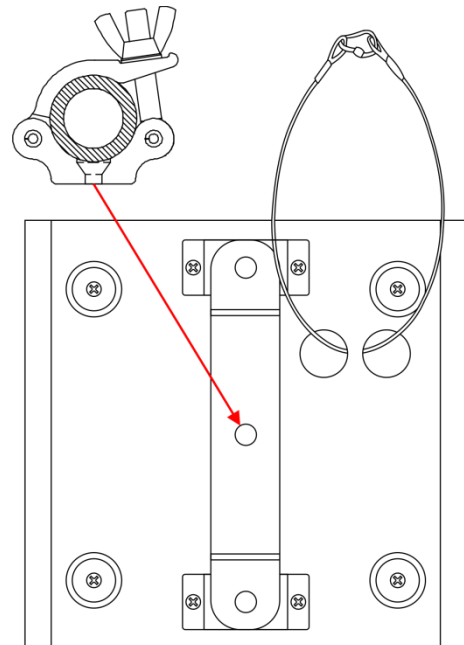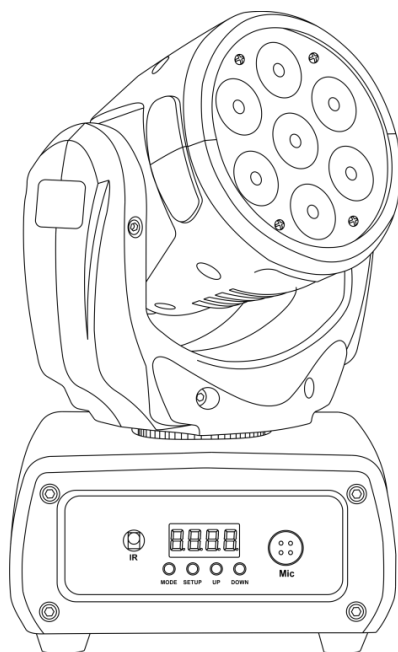
The Kanjo Wash RGB can be placed on a flat stage floor or mounted to any kind of truss by a clamp.

Improper installation can cause serious damage to people and property!

Connection with the mains

Connect the device to the mains with the power-plug.
Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	PHASE
N	BLUE	BLACK	SILVER	NEUTRAL
⏚	YELLOW/GREEN	GREEN	GREEN	PROTECTIVE GROUND

Make sure that the device is always connected properly to the earth!

Improper installation can cause serious damage to people and property!

⚠ Return Procedure ⚠

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail aftersales@highlite.nl and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:
01) Your name.
02) Your address.
03) Your phone number.
04) A brief description of the symptoms.

Claims

The client has the obligation to check the delivered goods immediately upon delivery for any short-comings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.
It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.
Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless otherwise agreed in writing.
Complaints against us must be made known in writing or by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.
Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement of which the obligation is resulting.

Show tec®

Description of the device

Features

The Showtec Kanjo Wash RGB is a compact and powerfull LED moving head wash light.
- LED Quantity: 7 x 3-in-1 RGB 3W LEDs
- DMX Modes: 8, 14 Channels
- Beam angle: 25°
- User-selectable Pan & Tilt ranges, 540° / 360° / 180°/ 90°
- Reverse Pan / Tilt movement
- Colormixing: RGB
- Colour range: 16,7 million additive colors
- IP Rating: IP20
- Housing: Specially designed housing ensures an optimum heat dissipation during operation
- Input Voltage: 100-240 VAC, 60/50Hz
- Drive current: 350mA
- Power consumption: 43W max @FO (full output)
- DMX-control via standard DMX-controller
- On Board: LCD display for easy Set Up
- Control mode: Built-in Programs, Manual Mode, Master / Slave, DMX512
- Dimmer: 0-100%
- Strobe: 0-20Hz
- Housing: Black Metal & Flame-retardant plastic
- Power connector: Schuko to IEC
- Data connectors: 3-pin XLR male, 3-pin XLR female
- Cooling: Internal fans
- Working temperature: -10^{0}C~40^{0}C
- Fuse: T3A / 250V
- Dimensions: 169 x 156 x 270 mm (LxWxH)
- Weight: 2,52 kg
- Included: Schuko to IEC cable (length 1,5 m) and mounting bracket with screws
- Optional accessories (not included): remote control (44002)

Show tec®
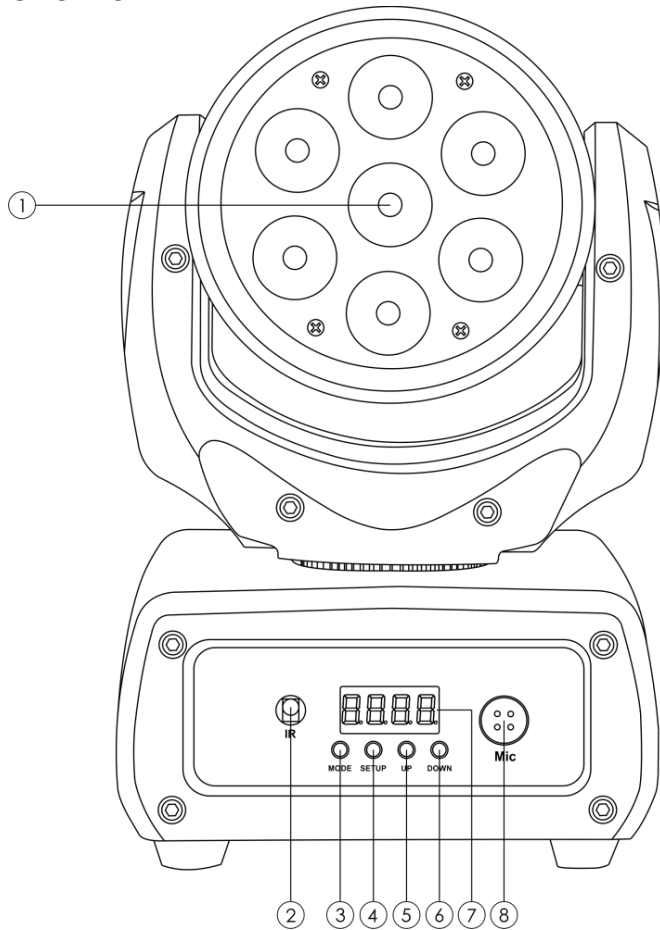
Overview

Fig. 01
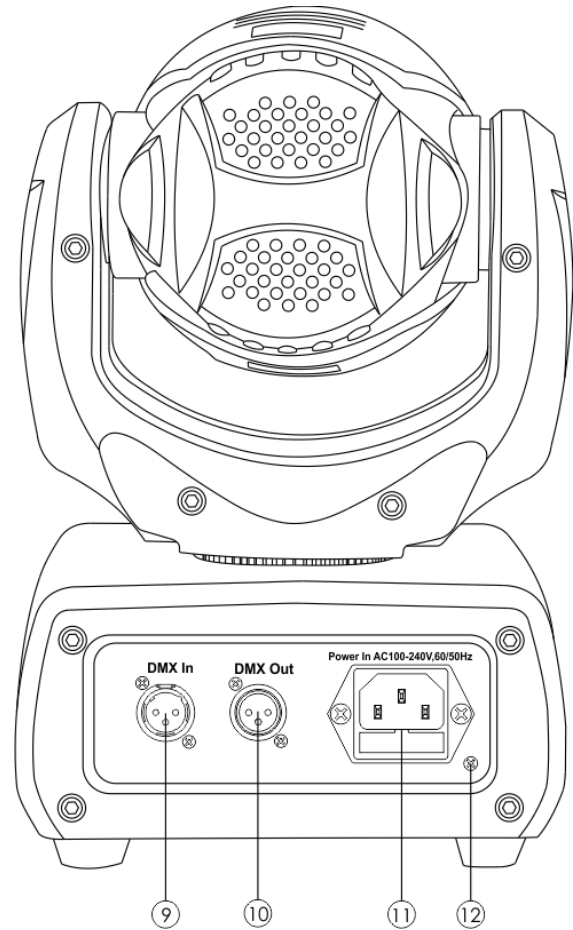
Fig. 02

01) 7 x 3-in-1 RGB 3W LEDs
02) IR sensor
03) Mode button
04) Setup button
05) Up button
06) Down button
07) LCD display
08) Built-in microphone
09) 3-pin DMX signal connector IN
10) 3-pin DMX signal connector OUT
11) IEC Power connector (IN), Fuse T3A / 250V
12) Ground / earth connection

NOTE: Knowledge of DMX is required to fully utilize this unit.

Installation

Remove all packing materials from the Kanjo Wash RGB. Check that all foam and plastic padding is removed. Connect all cables.
Do not supply power before the whole system is set up and connected properly.
Always disconnect from electric mains power supply before cleaning or servicing.
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.

Control Modes

There are 4 modes: Built-in Programs
Manual Mode
Master / Slave
DMX512 (8CH or 14CH)

One Kanjo Wash RGB (Built-in Programs)

01) Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
02) Always use a safety cable (ordercode 70140 / 70141).
03) Plug the end of the electric mains power cord into a proper electric power supply socket.
04) When the Kanjo Wash RGB is not connected by a DMX-cable, it functions as a stand-alone device.
05) Please see page 13 and 14 for more information.

One Kanjo Wash RGB (Manual Mode)

01) Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
02) Always use a safety cable (ordercode 70140 / 70141).
03) Plug the end of the electric mains power cord into a proper electric power supply socket.
04) When the Kanjo Wash RGB is not connected by a DMX-cable, it functions as a stand-alone device.
05) Please see page 14 for more information about the manual mode functions.

Multiple Kanjo moving heads (Master / Slave Control)

01) Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
02) Always use a safety cable (ordercode 70140 / 70141).
03) Plug the end of the electric mains power cord into a proper electric power supply socket.
04) Use a 3-pin XLR cable to connect the Kanjo Wash moving heads.
The pins: 01) Earth
02) Signal (-)
03) Signal (+)

05) Link the units as shown in (Fig.03). Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units. You can use the same functions on the master device as described on page 14. This means on the master device you can set your desired operation Mode and all slave devices will react the same as the master device.

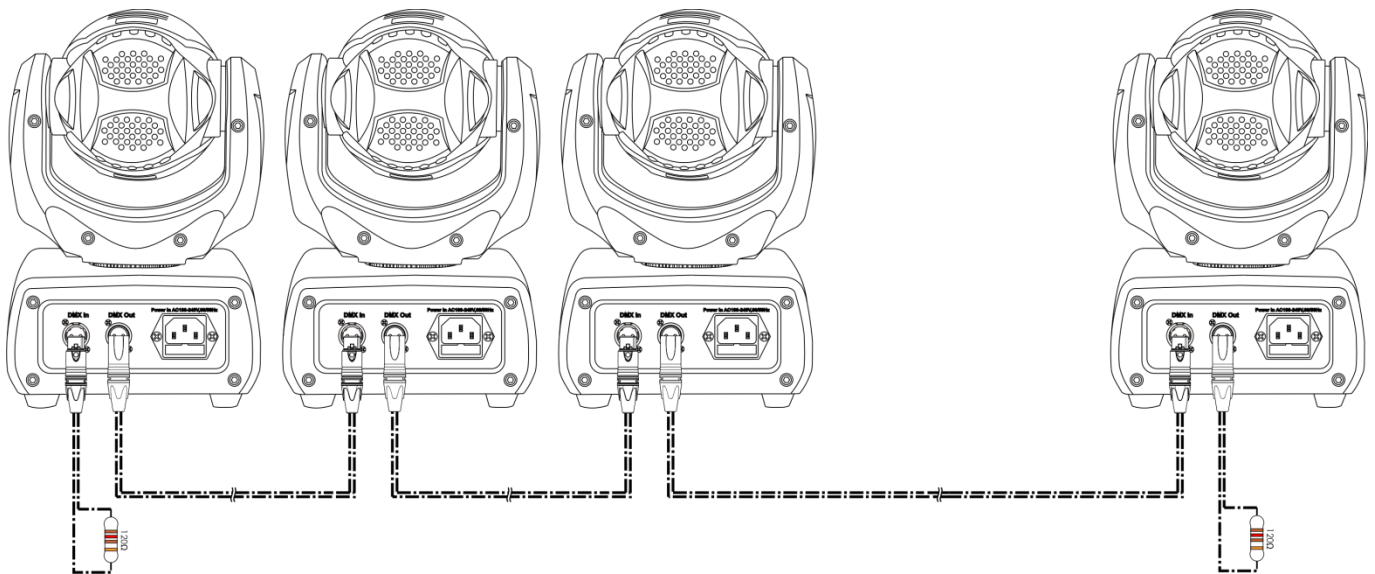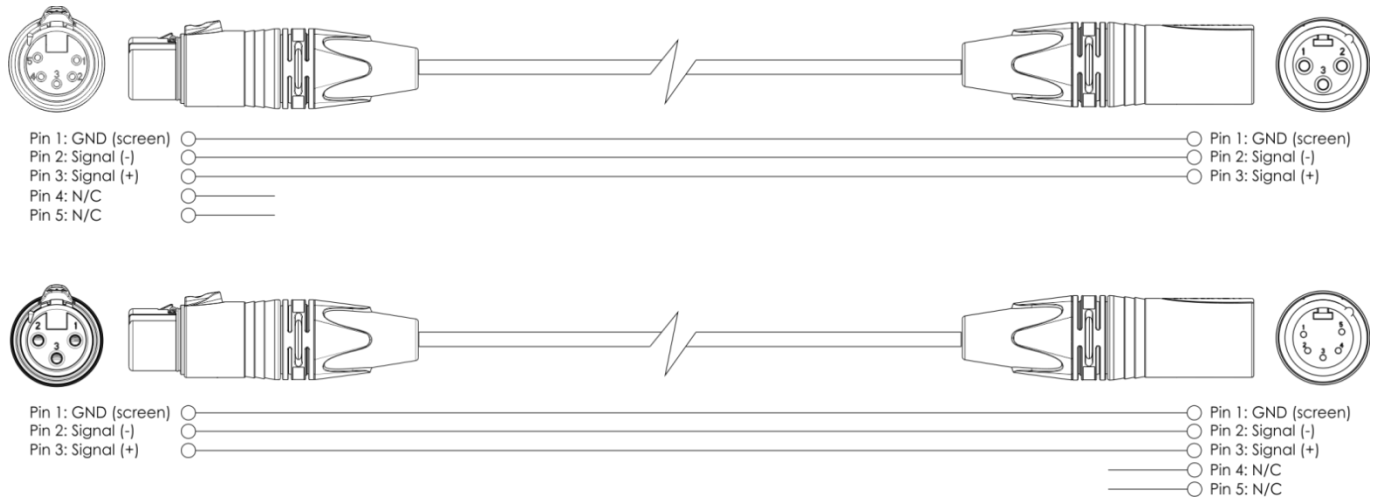### Multiple Kanjo moving heads (Master / Slave Set Up)

Fig. 03

Multiple Kanjo moving heads (DMX Control)

01) Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
02) Always use a safety cable (ordercode 70140 / 70141).
03) Plug the end of the electric mains power cord into a proper electric power supply socket.
04) Use a 3-pin XLR cable to connect the Kanjo Wash RGB and other devices.


```
Pin 1: GND (screen)                                          Pin 1: GND (screen)
Pin 2: Signal (-)                                            Pin 2: Signal (-)
Pin 3: Signal (+)                                            Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C
```



```
Pin 1: GND (screen)                                          Pin 1: GND (screen)
Pin 2: Signal (-)                                            Pin 2: Signal (-)
Pin 3: Signal (+)                                            Pin 3: Signal (+)
                                                             Pin 4: N/C
                                                             Pin 5: N/C
```

05) Link the units as shown in (Fig.04), Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units.
06) Supply electric power: Plug electric mains power cords into each unit's IEC socket, then plug the other end of the mains power cord into proper electric power supply sockets, starting with the first unit. Do not supply power before the whole system is set up and connected properly.
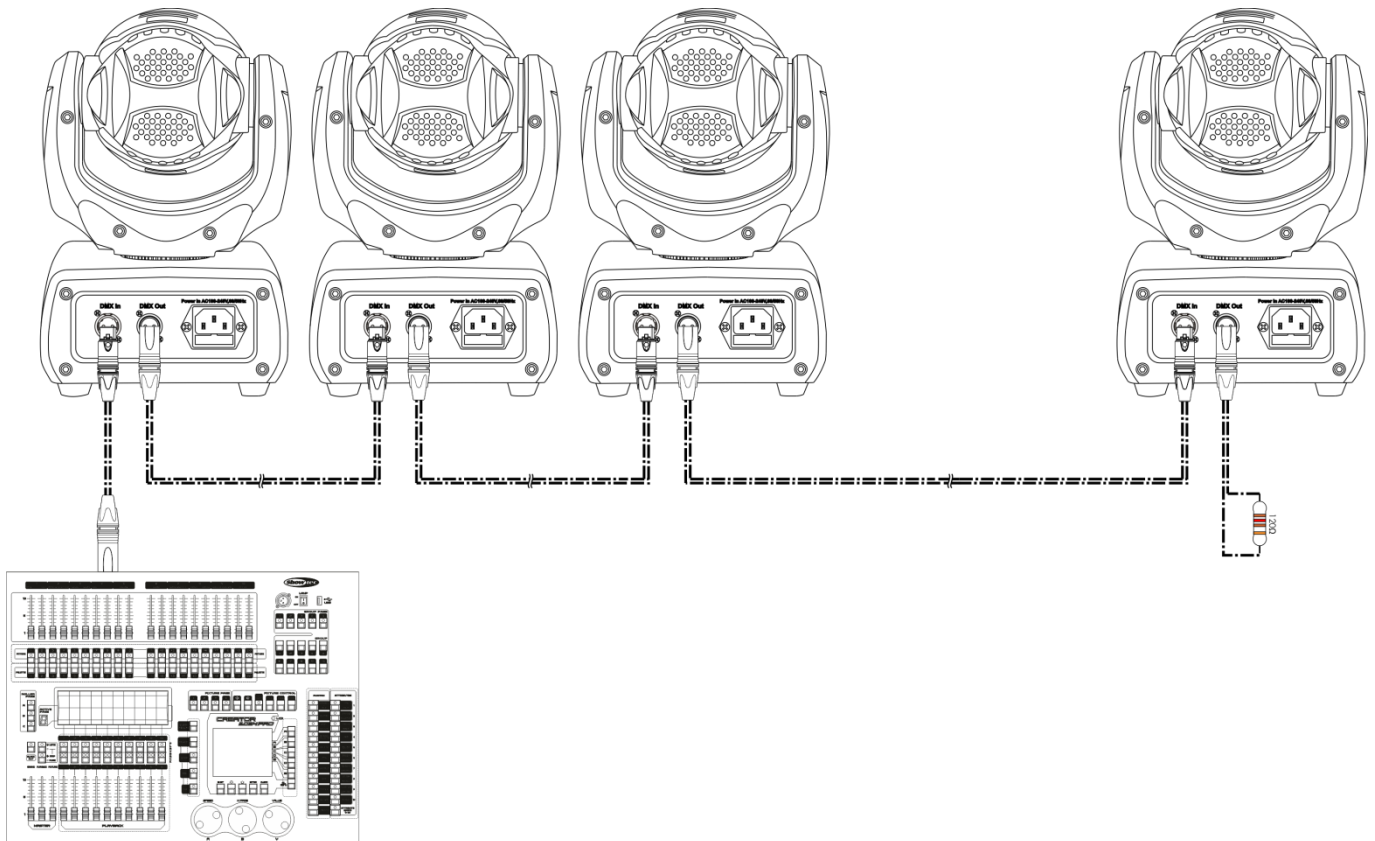
Multiple Kanjo moving heads (DMX Set Up)

Fig. 04

Fixture Linking

You will need a serial data link to run light shows of one or more fixtures using a DMX-512 controller or to run synchronized shows on two or more fixtures set to a master / slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

Important: Fixtures on a serial data link must be daisy chained in one single line. To comply with the EIA-485 standard no more than 30 devices should be connected on one data link. Connecting more than 30 fixtures on one serial data link without the use of a DMX optically isolated splitter may result in deterioration of the digital DMX signal.

Maximum recommended DMX data link distance: 100 meters
Maximum recommended number of Kanjo Wash RGBs on a DMX data link: 30 fixtures
Maximum recommended number of Kanjo Wash RGBs on a Power link: 15 fixtures @110V
Maximum recommended number of Kanjo Wash RGBs on a Power link: 30 fixtures @240V

Data Cabling

To link fixtures together you must obtain data cables. You can purchase DAP Audio certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

DAP Audio Certified DMX Data Cables
- DAP Audio cable for allround use. bal. XLR/M 3 p. > XLR/F 3 p.
  Ordercode FL01150 (1,5m.), FL013 (3m.), FL016 (6m.), FL0110 (10m.), FL0115 (15m.), FL0120 (20m.).
- DAP Audio cable for the demanding user with exceptional audio-qualities and connector made by Neutrik®. Ordercode FL71150 (1,5m.), FL713 (3m.), FL716 (6m.), FL7110 (10m.).

The Kanjo Wash RGB can be operated with a controller in control mode or without the controller in stand-alone mode.

Control Panel
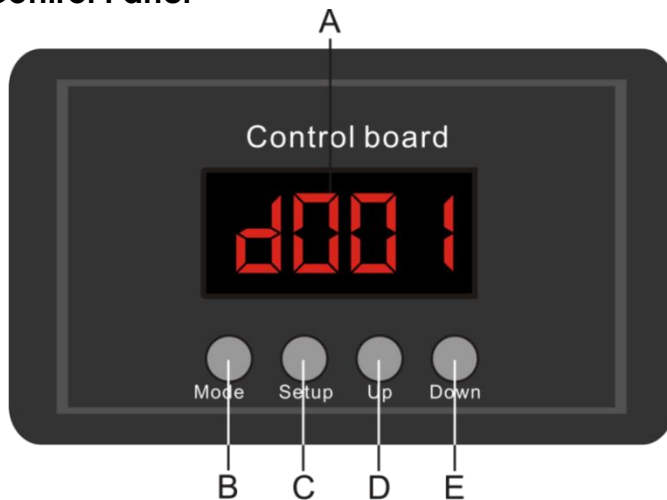
A) LCD Display
B) Mode button
C) Setup Button
D) Up Button
E) Down Button

Fig. 05

DMX Control Mode

The fixtures are individually addressed `d001` Up/Down `d512` on a data-link and connected to the controller. When a DMX signal is present, a LED on the display will blink.
The fixtures respond to the DMX signal from the controller. (When you select the DMX address and save it, the controller will display the saved DMX address the next time.)

DMX Addressing

The control panel on the front side of the base allows you to assign the DMX fixture address, which is the first channel from which the Kanjo Wash RGB will respond to the controller.
Please note when you use the controller, the unit has **14** channels.
When using multiple Kanjo Wash RGBs make sure you set the DMX addresses right.
Therefore, the DMX address of the first Kanjo Wash RGB should be **1(001)**; the DMX address of the second Kanjo Wash RGB should be **1+14=15 (015**); the DMX address of the third Kanjo Wash RGB should be **15+14=29 (029)**, etc.
Please, be sure that you don't have any overlapping channels in order to control each Kanjo Wash RGB correctly.
If two or more Kanjo Wash RGBs are addressed similarly, they will work similarly.

Controlling:

After having addressed all Kanjo Wash RGB fixtures, you may now start operating these via your lighting controller.
Note: After switching on, the Kanjo Wash RGB will automatically detect whether DMX 512 data is received or not. If there is no data received at the DMX-input, the LED on the display will not blink.
The problem may be:
- The XLR cable from the controller is not connected with the input of the Kanjo Wash RGB.
- The controller is switched off or defective, the cable or connector is detective, or the signal wires are swapped in the input connector.

Note: It's necessary to insert a XLR termination plug (with 120 Ohm) in the last fixture in order to ensure proper transmission on the DMX data link.

Menu Overview
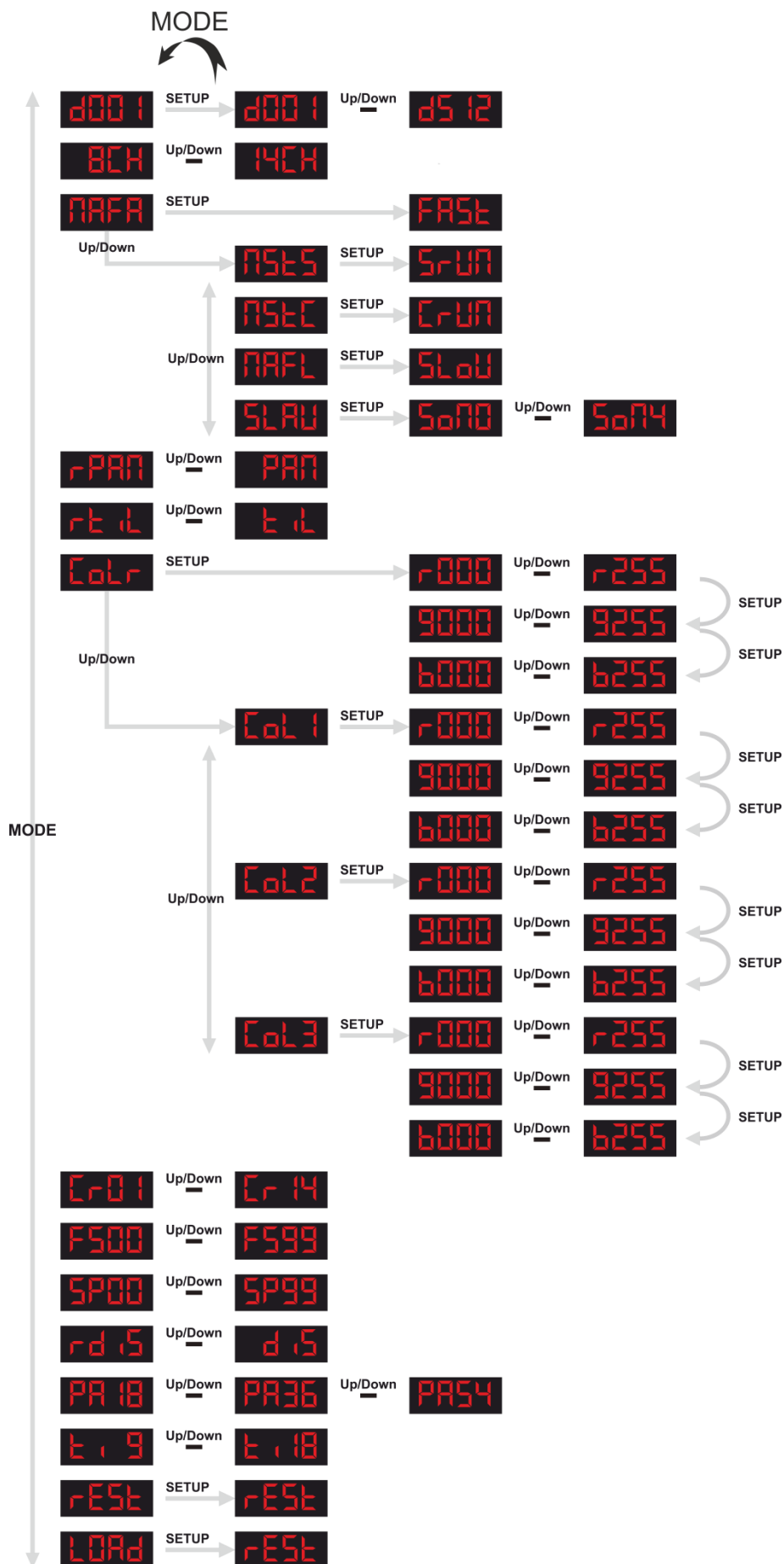
Main Menu Options

`d001`	DMX address
`8CH`	DMX channel (8CH or 14CH)
`MAFA`	Built-in Programs Slow/Fast/Sound-control/Slave
`rPAM`	Pan/Reverse Pan
`rtiL`	Tilt/Reverse Tilt
`CoLr`	Manual color
`Cr01`	Static color
`FS00`	Strobe
`SP00`	Speed
`rdiS`	Display/Reverse Display
`PA18`	Pan 180⁰, 360⁰, 540⁰
`ti9`	Tilt 90⁰, 180⁰
`rESt`	Reset
`LOAd`	Load factory default setting

1. DMX Address
When a DMX signal is present, a LED on the display will blink.
With this menu you can set the DMX address.

01) Press the **MODE** button on the device, until the display shows `d001`.
   You can choose 512 different DMX addresses.

02) When the display shows: `d001`, then press **SETUP.**

03) Use the Up / Down buttons to select the required address from `d001` Up/Down `d512`.

2. DMX Channel
With this menu you can set the DMX channel.

01) Press the **MODE** button on the device, until the display shows `8CH`.
02) Use the Up / Down buttons to select the required DMX channel.
   The Kanjo Wash RGB has 2 different DMX modes, `8CH` and `14CH`.

3. Built-in Programs
With this menu you can you can set the built-in programs.

01) Press the **MODE** button on the device, until the display shows `MAFA`.
02) Use the Up / Down buttons to select the required program.

`MAFA`
`MStS`
`MStC`   The Kanjo Wash RGB has 5 different built-in programs.
`MAFL`
`SLAU`

3.1 Built-in Program Fast
01) When the display shows: `MAFA`, then press **SETUP**. The display will show: `FASt`.
   The device is now in a fast built-in program mode.

3.2 Sound-controlled Mode
01) When the display shows: `MStS`, then press **SETUP**. The display will show: `SrUM`.
   The device is now sound-controlled and will react to the music.

3.3 Color Run Mode

01) When the display shows: `ASEC` , then press **SETUP**. The display will show: `CrUN` .
The device is now color run mode.

3.4 Built-in Program Slow

01) When the display shows: `AAFL` , then press **SETUP**. The display will show: `SLoU` .
The device is now in a slow built-in program mode.

3.5 Slave Mode

01) When the display shows: `SLAU` , then press **SETUP**. The display will show: `SoAD` .
02) Use the Up / Down buttons to select the required slave mode from `SoAD` ─Up/Down `SoA4` .
When the display shows: `SoAD` , the device will react the same as its master.
When the display shows: `SoA1` , the device is in 1/4 position of the master.
When the display shows: `SoA2` , the device is in 2/4 position of the master.
When the display shows: `SoA3` , the device is in 3/4 position of the master.
When the display shows: `SoA4` , the device is in opposite position of the master.

4. Pan movement Mode

01) Press the **MODE** button on the device, until the display shows `PAN` .
When the display shows: `PAN` , the device is in normal pan mode.
02) When you press Up/Down. The display will show: `rPAN` . The pan function is reversed.

5. Tilt movement Mode

01) Press the **MODE** button on the device, until the display shows `tiL` .
When the display shows: `tiL` , the device is in normal tilt mode.
02) When you press Up/Down. The display will show: `rtiL` . The tilt function is reversed.

6. Manual Mode

With this menu you can you can manually set a desired color.

01) Press the **MODE** button on the device, until the display shows `CoLr` .
02) Use the Up / Down buttons to select the required mode.

`CoLr`
`CoL1`   The Kanjo Wash RGB has 4 different manual modes.
`CoL2`
`CoL3`

03) Press the **SETUP** button to open the selected mode.
04) You can use the **SETUP** button to scroll through the 3 color options (see next page).

`r000` ─Up/Down `r255`   Set the value of the red LEDs (000-255).
`9000` ─Up/Down `9255`   Set the value of the green LEDs (000-255).
`b000` ─Up/Down `b255`   Set the value of the blue LEDs (000-255).

05) Use the Up / Down buttons to change the values.
You can combine Red, Green, and Blue to create an infinite range of colors (000-255).

7. Static Color

01) Press the **MODE** button on the device, until the display shows `Cr01`.

02) Use the Up / Down buttons to select the required color from `Cr01` Up/Down `Cr14`.

8. Strobe

01) Press the **MODE** button on the device, until the display shows `FS00`.

02) Use the Up / Down buttons to select the required strobe frequency from `FS00` Up/Down `FS99`.

9. Speed

01) Press the **MODE** button on the device, until the display shows `SP00`.

02) Use the Up / Down buttons to select the required speed from `SP00` Up/Down `SP99`.

10. Display Mode

01) Press the **MODE** button on the device, until the display shows `diS`.

When the display shows: `diS`, the device is in normal display mode.

02) When you press Up/Down. The display will show: `rdiS`. The display is reversed.

11. Pan Mode

01) Press the **MODE** button on the device, until the display shows `PA18`.

02) Use the Up / Down buttons to select the required pan mode, `PA18`, `PA36` or `PA54`.

When the display shows: `PA18`, the pan is 180°.

When the display shows: `PA36`, the pan is 360°.

When the display shows: `PA54`, the pan is 540°.

12. Tilt Mode

01) Press the **MODE** button on the device, until the display shows `ti9`.

02) Use the Up / Down buttons to select the required tilt mode, `ti9` or `ti18`.

When the display shows: `ti9`, the tilt is 90°.

When the display shows: `ti18`, the tilt is 180°.

13. Reset

01) Press the **MODE** button on the device, until the display shows `rESt`.

02) When the display shows: `rESt`, then press **SETUP**. The display will show: `rESt`.
The device will reset its position.

14. Default Settings

01) Press the **MODE** button on the device, until the display shows `LOAd`.

02) When the display shows: `LOAd`, then press **SETUP**. The display will show: `rESt`.
The device will return to its factory default settings.

Showtec®

DMX Channels

8 Channels

Channel 1 – Horizontal movement (Pan)
Push the slider up, in order to move head horizontally (PAN).
Gradual head adjustment from one end of the slider to the other (0-255, 128-center).
The head can be turned by 540° and stopped at any position you wish.

Channel 2 – Vertical movement (Tilt)
Push the slider, up in order to move head vertically (TILT).
Gradual head adjustment from one end of the slider to the other (0-255, 128-center).
The head can be turned by 180° and stopped at any position you wish.

Channel 3 – Dimmer (CH5, CH6 or CH7 must be set between 001-255 ⚠)

0-255	From black to brightest

Channel 4 – Strobe (CH3 must be set between 001-255 ⚠)

0-255	Strobe effect, from slow to fast (0-20Hz)

Channel 5 – Red Dimmer intensity (CH3 must be set between 001-255 ⚠)

0-255	Red from 0 – 100%

Channel 6 – Green Dimmer intensity (CH3 must be set between 001-255 ⚠)

0-255	Green from 0 – 100%

Channel 7 – Blue Dimmer intensity (CH3 must be set between 001-255 ⚠)

0-255	Blue from 0 – 100%

Channel 8 – Pan / Tilt speed

0-255	From Max Speed (0) to Min. Speed (255)

14 Channels

Channel 1 – Horizontal movement (Pan)
Push the slider up, in order to move head horizontally (PAN).
Gradual head adjustment from one end of the slider to the other (0-255, 128-center).
The head can be turned by 540° and stopped at any position you wish.

Channel 2 – Pan fine 16 bit

Channel 3 – Vertical movement (Tilt)
Push the slider, up in order to move head vertically (TILT).
Gradual head adjustment from one end of the slider to the other (0-255, 128-center).
The head can be turned by 180° and stopped at any position you wish.

Channel 4 – Tilt fine 16 bit

Channel 5 – Pan / Tilt speed

0-255	From Max Speed (0) to Min. Speed (255)

Channel 6 – Dimmer (CH8, CH9, CH10 or CH11 must be set between 001-255 ⚠)

0-255	From black to brightest

Channel 7 – Strobe (CH6 must be set between 001-255 ⚠️)

0-255	Strobe effect, from slow to fast (0-20Hz)

Channel 8 – Red Dimmer intensity (CH6 must be set between 001-255 ⚠️)

0-255	Red from 0 – 100%

Channel 9 – Green Dimmer intensity (CH6 must be set between 001-255 ⚠️)

0-255	Green from 0 – 100%

Channel 10 – Blue Dimmer intensity (CH6 must be set between 001-255 ⚠️)

0-255	Blue from 0 – 100%

Channel 11- Preset Colors (CH6 must be set between 001-255 ⚠️)

0	No Function
1-13	Cyan
14-26	Purple
27-39	Purple / Red
40-52	Orange
53-65	White
66-78	Bright pink
79-91	Bright green
92-104	Bright blue
105-117	Yellow
118-130	Warm white
131-143	Red
144-156	Green
157-169	Blue
170-182	Amber
183-195	White
196-223	Seven color gradient
224-237	Seven color change
238-255	Seven color jump

Channel 12 – Speed (CH6 must be set between 001-255 and CH11 must be set between 196-255 ⚠️)

0-255	From slow to fast

Channel 13 – Built-in Programs

0-2	No Function
3-101	Program 01 (fast)
102-152	Program 02 (gradient and jump)
153-203	Program 03 (slow)
204-255	Program 04 (sound-controlled)

Channel 14 – Factory reset

0-254	No Function
255	Reset to factory settings

Maintenance

The Showtec Kanjo Wash RGB requires almost no maintenance. However, you should keep the unit clean. Otherwise, the fixture's light-output will be significantly reduced. Disconnect the mains power supply and then wipe the cover with a damp cloth. Wipe the front glass panel clean with glass cleaner and a soft cloth. Do not use alcohol or solvents. The front glass panel will require weekly cleaning, as smoke-fluid tends to build up residues, reducing the light-output very quickly. Do not immerse in liquid. Keep connections clean. Disconnect electric power, and then wipe the DMX and audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

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

Replacing the Fuse

Power surges, short-circuit or inappropriate electrical power supply may cause a fuse to burn out. If the fuse burns out, the product will not function whatsoever. If this happens, follow the directions below.
01) Unplug the unit from electric power source.
02) Insert a screwdriver into the slot in the fuse cover. Gently pry up the fuse cover. The fuse will come out.
03) Remove the used fuse. If brown or unclear, it is burned out.
04) Insert the replacement fuse into the holder where the old fuse was. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.

Troubleshooting

No Light

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.
If the light effect does not operate properly, refer servicing to a technician.
Response: Suspect three potential problem areas as: the power supply, the LED, the fuse.
01) Power supply. Check that the unit is plugged into an appropriate power supply.
02) The LEDs. Return the Kanjo Wash RGB to your Showtec dealer.
03) The fuse. See page 18 for replacing the fuse.
04) If all of the above appears to be O.K., plug the unit in again.
05) If you are unable to determine the cause of the problem, do not open the Kanjo Wash RGB, as this may damage the unit and the warranty will become void.
06) Return the device to your Showtec dealer.

No Response to DMX

Response: Suspect the DMX cable or connectors, a controller malfunction, a light effect DMX card malfunction.
01) Check the DMX setting. Make sure that DMX addresses are correct.
02) Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
03) 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.

Problem	Probable cause(s)	Remedy
One or more fixtures are completely dead.	No power to the fixture.	● Check that power is switched on and cables are plugged in.
	Internal fuse blown.	● Return the device to your Showtec dealer
Fixtures reset correctly, but all respond erratically or not at all to the controller.	The controller is not connected.	● Connect controller.
	3-pin XLR Out of the controller does not match XLR Out of the first fixture on the link (i.e. signal is reversed).	● Install a phase reversing cable between the controller and the first fixture on the link.
Fixtures reset correctly, but some respond erratically or not at all to the controller.	Poor data quality	● Check data quality. If much lower than 100 percent, the problem may be a bad data link connection, poor quality or broken cables, missing termination plug, or a defective fixture disturbing the link.
	Bad data link connection	● Inspect connections and cables. Correct poor connections. Repair or replace damaged cables.
	Data link not terminated with 120 Ohm termination plug.	● Insert termination plug in output jack of the last fixture on the link.
	Incorrect addressing of the fixtures.	● Check address setting.
	One of the fixtures is defective and disturbs data transmission on the link.	● Bypass one fixture at a time until normal operation is regained: unplug both connectors and connect them directly together. ● Have the defective fixture serviced by a qualified technician.
	3-pin XLR Out on the fixtures does not match (pins 2 and 3 reversed).	● Install a phase-reversing cable between the fixtures or swap pin 2 and 3 in the fixture, that behaves erratically.
No light or lamp cuts out intermittently	Fixture is too hot.	● Allow fixture to cool. ● Turn up the air conditioning .
	LEDs damaged	● Disconnect fixture and return to your dealer.
	The power supply settings do not match local AC voltage and frequency.	● Disconnect fixture. Check settings and correct if necessary.

Show tec®

Product Specification

Model:	Showtec Kanjo Wash RGB
Input Voltage:	100-240 VAC, 60/50Hz
Drive current:	350mA
Power consumption:	43W max @FO (full output)
DMX linking:	30pcs
Fuse:	T3A / 250V
Dimensions:	169 x 156 x 270 mm (LxWxH)
Weight:	2,52 kg
Operating and Programming:	
Signal pin OUT:	Pin 1 (earth), pin 2 (-), pin 3 (+)
DMX Mode:	8, 14 Channels
Signal input:	3-pin XLR male
Signal output:	3-pin XLR female
Electro-mechanical effects:	
LED Quantity:	7 x 3-in-1 RGB 3W LEDs
Colormixing:	RGB
Colour range:	16,7 million additive colors
Beam angle:	25°
Pan & Tilt range	540° / 360° / 180°./ 90° (user-selectable)
Dimmer: 0-100%	0-100%
Strobe: 0-20Hz	0-20Hz
Lightoutput:	High Power
IP Rating:	IP20
Housing:	Specially designed housing ensures an optimum heat dissipation during operation
DMX-control:	via standard DMX-controller
On Board:	LCD display for easy Set Up
Control:	Built-in Programs, Manual mode Master / Slave, DMX512
Housing:	Black Metal & Flame-retardant plastic
Connections:	Dedicated Schuko to IEC & Data connector
Cooling:	Internal fans
Working temperature:	-10⁰C~40⁰C
Included:	Schuko to IEC cable (length 1,5 m) and mounting bracket with screws
Optional assesories (not included):	Remote control(44002)
Max. ambient temperature t_a: 40°C	Max. housing temperature t_B: 80°C
Minimum distance:	
Minimum distance from flammable surfaces:	0,5 m
Minimum distance to lighted object:	1 m

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

CE

Dimensions

156 mm

270 mm

169 mm

Show tec®

Notes

22

Show tec®