Show tec ®

Maniac FX 7   V1

Order code: 41307

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Warning

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

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 to be damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that the fixture must be returned to the factory, it is important that the fixture will be returned in the original factory box and packing.

Your shipment includes:

- Showtec Maniac FX 7
- Pro-power to Schuko power cable (1,5 m)
- User manual
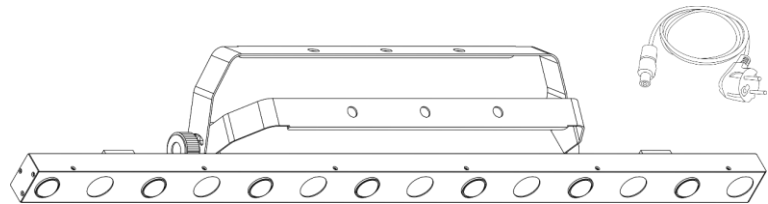
LED Expected Lifespan

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 the lifespan is of higher priority, place care in providing for lower operational temperatures. This may include climatic-environmental and the reduction of overall projection intensity.

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

Safety Instructions

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

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

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 modify, bend, mechanically strain, put pressure on, pull or heat up the power cord.
- Never strain the cable insert or the female part in the device. There must always be sufficient cable going to the device. Otherwise, the cable will be damaged, which can cause serious damage.
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never place any material over the LEDs.
- Never look directly into the light source.
- Never leave any cables lying around.
- Never use the device during thunderstorms, unplug the device immediately.
- Never leave various parts of the packaging (plastic bags, polystyrene foam, nails, etc.) within children's reach, as they are potential sources of danger.
- Do not insert objects into air vents.
- Do not open the device and do not modify the device.
- Do not connect this device to a dimmer pack.
- Do not switch the device on and off in short intervals, as this will reduce the device's life.
- Do not touch the device's housing bare-handed during its operation (housing becomes hot). Allow the device 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 the device indoors, avoid contact with water or other liquids.
- Only operate the device after having checked if 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 the case closed while operating.
- Always allow a free air space of at least 80 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 holding it 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.
- Make sure that the core diameter of extension cords and power cords is sufficient for the required power consumption of the device.
- If the LEDs are obviously damaged, they have to be replaced to prevent their function from being impaired, due to cracks or deep scratches.
- If the external cable is damaged, it has to be replaced by a qualified technician.
- If device was 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 the 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. The device must be installed beyond 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 device. 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.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

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> **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 bigger than 0,8 m.
- In order to eliminate wear and improve the device's lifespan, during periods of non-use, completely disconnect from power source via breaker or by unplugging.
- The maximum ambient temperature t_a = 40 °C must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 40 °C.
- If the 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 Maniac is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the Maniac with the mounting bracket to the trussing system.
- The Maniac 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 Maniac, always make sure, that the area below the installation place is blocked and staying in the area is forbidden.

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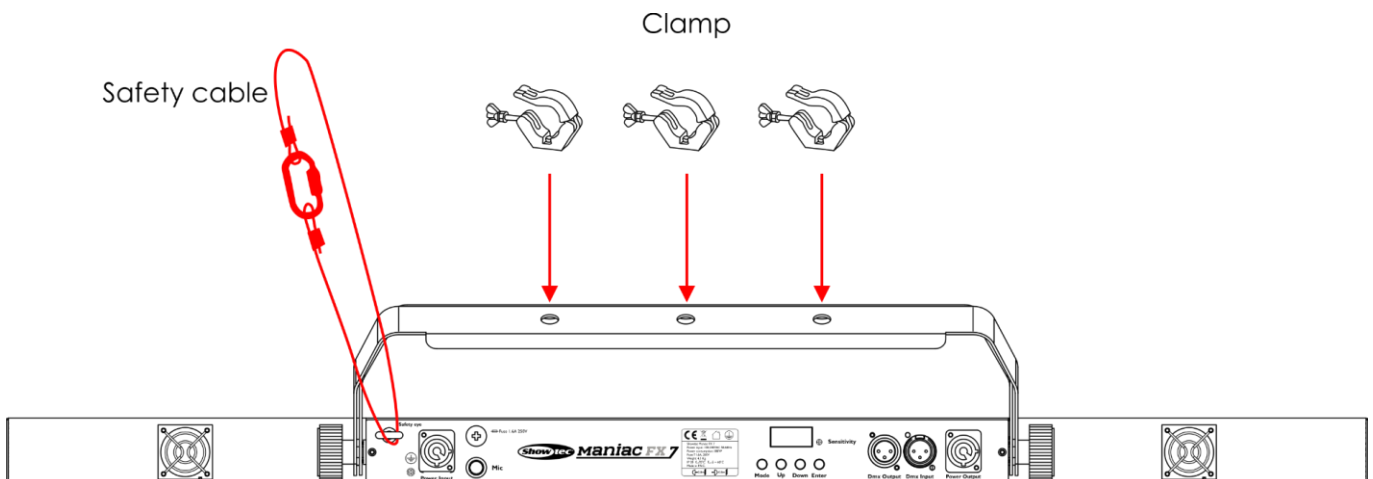
The Maniac FX 7 can be placed also on a flat stage floor. Open the two mounting brackets at 90° to assure that the fixture will be stable, and position it on the floor. Turn the bar at the desired angle and tighten the adjustment screws.
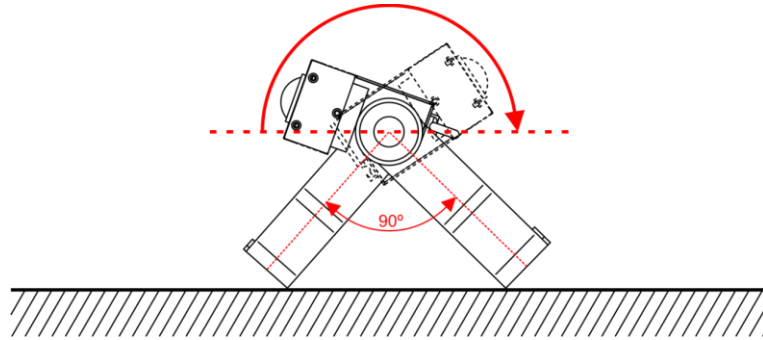
Improper installation can cause serious injuries and/or damage of property!

Connection with the Mains
Connect the device to the mains with the power plug.
Always check if 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 and/or damage of property!

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⚠ 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.com 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 of the return. Be sure to properly pack fixture as 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 the 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 agreed otherwise 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 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.

Description of the Device

Features

The Showtec Maniac FX 7 is a two-in-one lighting fixture, featuring a wash with 7 x 7 W High Power pixel-controlled RGB LEDs with a 40° beam angle and a beam with 7 x 3 W Cold White LEDs with a sharp 2° beam angle.

- Pixel control
- Versatile rigging possibilities
- Power and data daisy chain
- Powerful beam effects
- Built-in programs
- Power supply: 100-240 V AC, 50/60 Hz
- Power consumption: 80 W max
- Light source: 7 x 3 W Cold white LEDs; 7 x 7 W High Power RGB LEDs
- Beam angle: wash LEDs   40°
                  beam LEDs   2°
- Dimmer: 0-100 %
- Strobe: 0-20 Hz
- IP rating: IP-20
- Control mode: auto, sound, manual, master/slave, DMX512
- DMX mode: 3, 4, 6, 10, 12 and 15 channels
- Display: 4-digits LED display
- Connections: pro power connectors (IN/OUT), 3-pin DMX connectors (IN/OUT)
- Housing: aluminum
- Color: black
- Cooling: cooling fans
- Fuse: T1,6 A/250 V
- Dimensions: 1006 x 185 x 50 mm (L x W x H) (including bracket)
- Weight: 3,66 kg

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

Front View
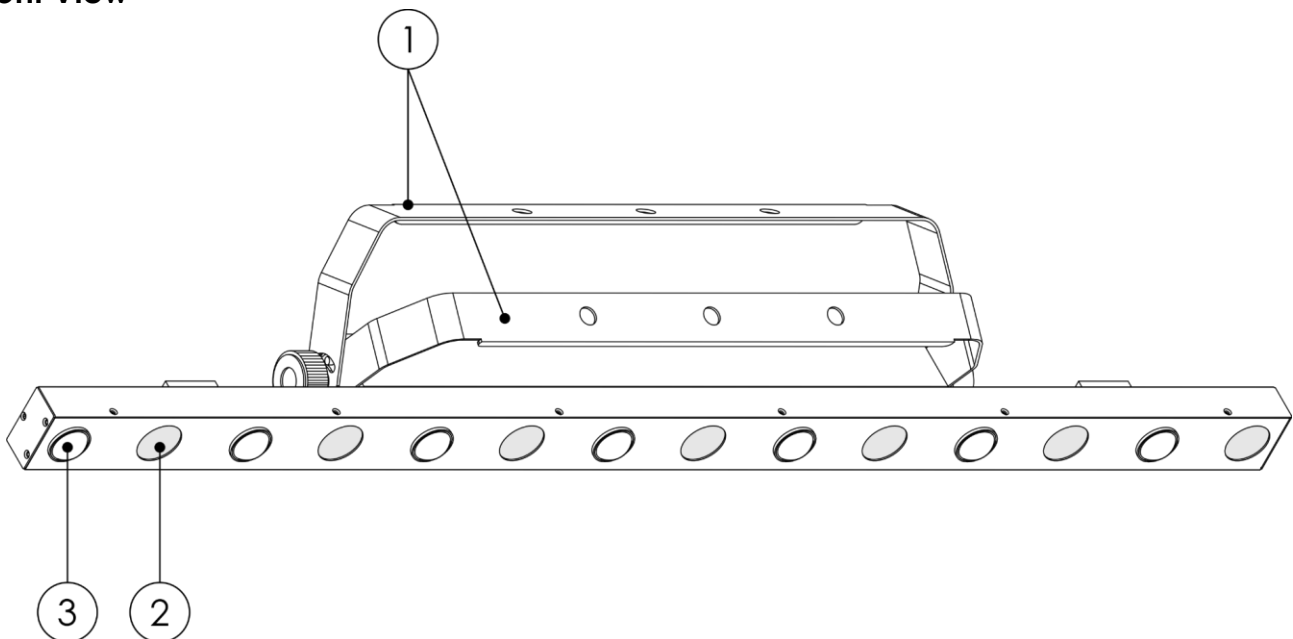
Fig. 01

01) 2 x Mounting brackets with adjustment screws
02) 7 x 7 W High Power RGB LEDs (Wash)
03) 7 x 3 W Cold White LEDs (Beam)

Back View
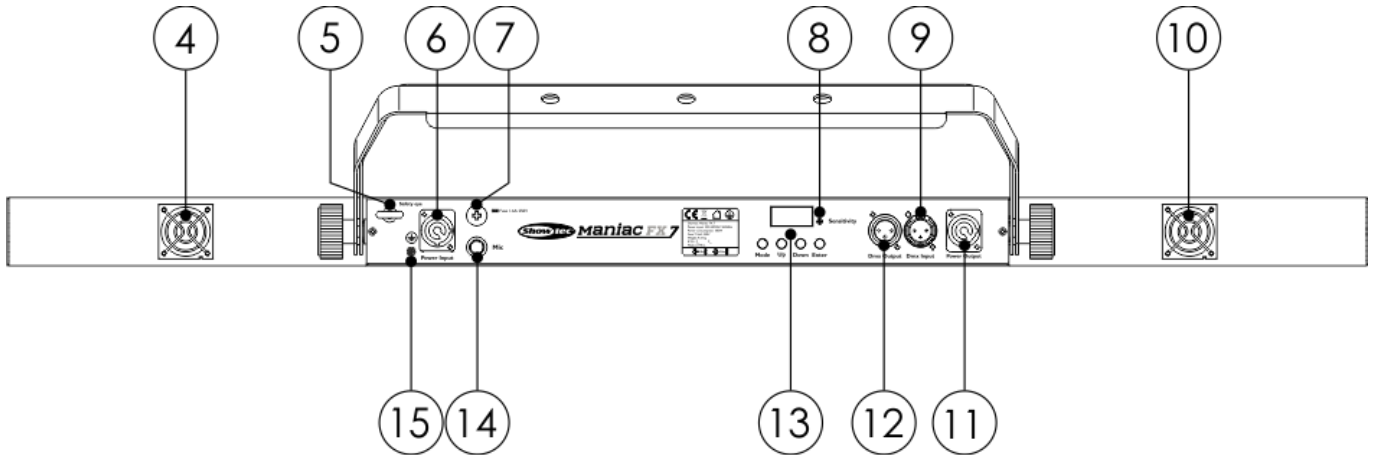
Fig. 02

04) Cooling fan
05) Safety eye
06) Pro power connector 100-240 V IN (Blue)
07) Fuse T1,6 A/250 V
08) Sensitivity control
09) 3-pin DMX connector IN
10) Cooling fan
11) Pro power connector 100-240 V OUT (Gray)
12) 3-pin DMX connector OUT
13) Control panel: LED display + control buttons
14) Microphone
15) Ground connection

Installation

Remove all packing materials from the Maniac FX 7. Check if 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.

Setup 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 120 V specification product on 230 V power, or vice versa.

Control Modes

There are 6 control modes:
- Auto
- Built-in programs
- Manual
- Sound-controlled
- Master/Slave
- DMX-512 (3CH, 4CH, 6CH, 10CH, 12CH and 15CH)

One Maniac (Auto, Built-in programs, Sound-controlled and Manual)
01) Fasten the effect light onto firm trussing or mount it on flat surface. Leave at least 0,8 meter on all sides for air circulation.
02) Always use a safety cable (order code 70140 / 70141).
03) Plug the end of the electric mains power cord into a proper electric power supply socket.
04) When the Maniac is not connected with a DMX cable, it functions as a stand-alone device.
05) Turn on the music. If the device is set to sound control, then the Maniac FX 7 will react to the beat of the music.
06) Please see pages 14-15 for more information about the Built-in programs, Sound-controlled and Manual mode.

Multiple Maniac fixtures (Master/Slave control)
01) Fasten the effect light onto firm trussing or mount it on flat surface. Leave at least 0,8 meter on all sides for air circulation.
02) Always use a safety cable (order code 70140 / 70141).
03) Plug the end of the electric mains power cord into a proper electric power supply socket.
04) Use a 3-pin DMX cable to connect the Maniac FX 7 and other devices.
   Pins:
   1. Earth
   2. Signal (-)
   3. 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 rest of the units. Refer to 5. Slave Mode Settings and 6. System Settings on page 16 to set up the master and the slave devices. You can set the desired operation mode on the master device and all slave devices will react the same as the master device. Please see pages 14-15 for more information about the Built-in programs, Sound-controlled and Manual mode.
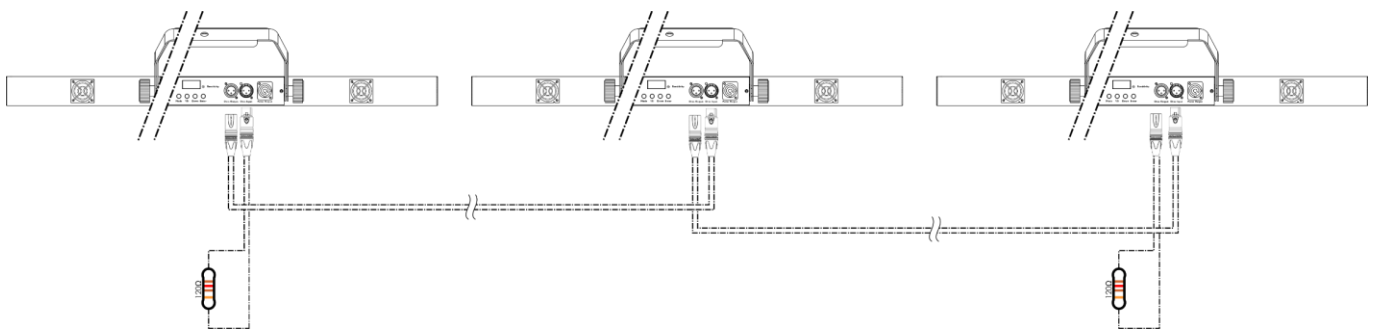

Fig. 03

Multiple Maniac fixtures (DMX512 Mode)

01) Fasten the effect light onto firm trussing or mount it on flat surface. Leave at least 0,8 meter on all sides for air circulation.
02) Always use a safety cable (order code 70140 / 70141).
03) Use a 3-pin DMX cable to connect the Maniac 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
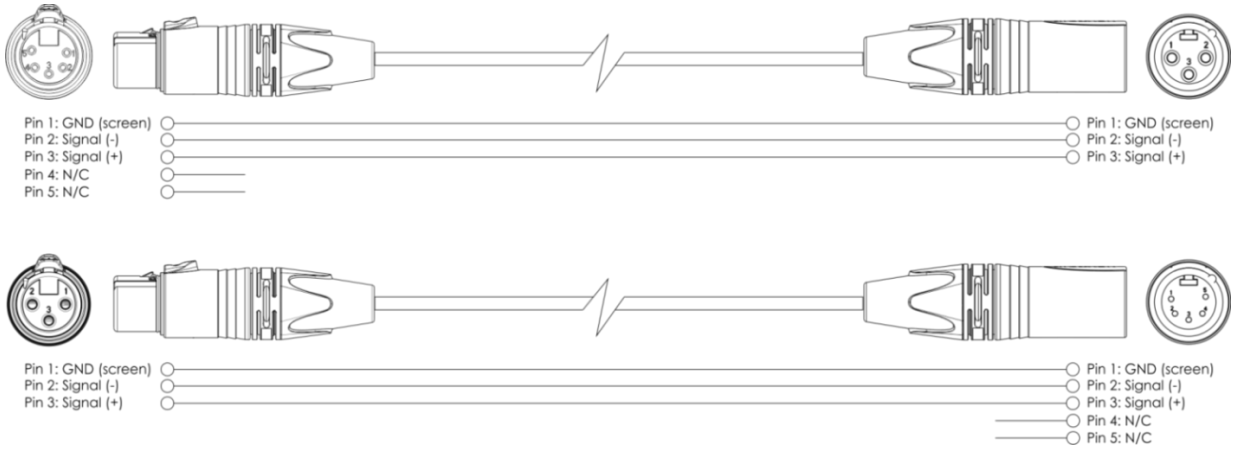
04) Link the units as shown in Fig. 04, Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the rest of the units.
05) Supply electric power: Plug electric mains power cords into each unit's pro power socket, then plug the other 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.

Fig. 04

Note: Link all cables before connecting electric power!

Fixture Linking

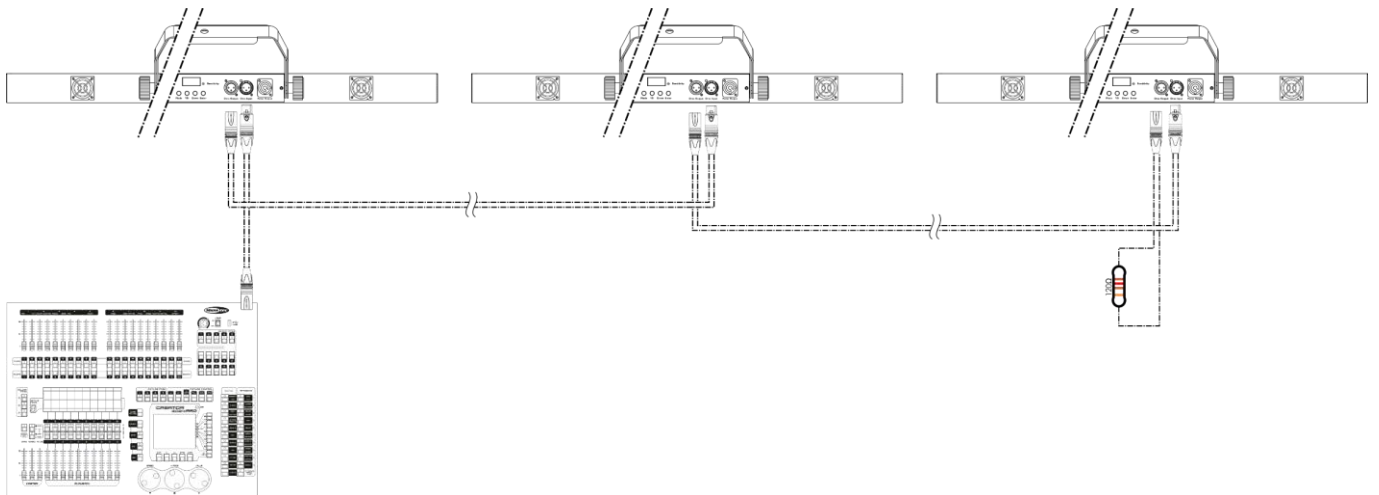You will need a serial data link to run light shows of one or more fixtures using a DMX-512 controller or to run synchronized shows on two or more fixtures set to a master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of 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 on a DMX data link: 30 fixtures
Maximum recommended number of fixtures on a power link @100V: 10 fixtures
Maximum recommended number of fixtures on a power link @240V: 24 fixtures

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 DMX Data Cables
- DAP Audio 110 Ohm cable with digital signal transmission. **Order code** FL0975 (0,75 m), FL09150 (1,5 m), FL093 (3 m), FL096 (6 m), FL0910 (10 m), FL0915 (15 m), FL0920 (20 m).
- DAP Audio data cable FL08 DMX/AES-EBU, XLR/M 5-pin > XLR/F 5-pin. **Order code** FL08150 (1,5 m), FL083 (3 m), FL086 (6 m), FL0810 (10 m), FL0820 (20 m).
- DAP Audio DMX adapter: 5-pin > 3-pin. **Order code** FLA29.
- DAP Audio DMX adapter: 3-pin > 5-pin. **Order code** FLA30.
- DAP Audio DMX Terminator 3-pin. **Order code** FLA42.
- DAP Audio DMX Terminator 5-pin. **Order code** FLA43.

The Maniac FX 7 can be operated with controller or without controller in stand-alone mode.
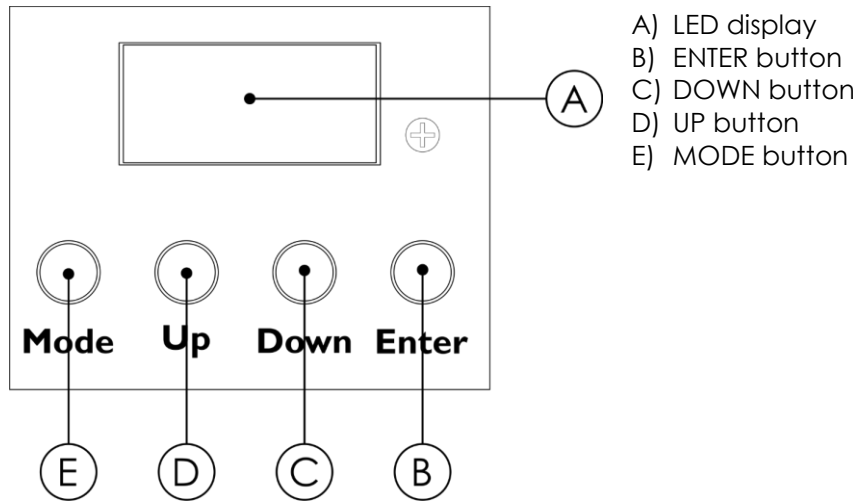
Control Panel

A) LED display
B) ENTER button
C) DOWN button
D) UP button
E) MODE button

Fig. 05

DMX Control Mode
The fixtures are individually addressed on a data-link and connected to the controller.
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 back side of the device allows you to assign the DMX fixture address, which is the first channel from which the Maniac will respond to the controller. Please note when you use the controller, the unit has **15** channels. When using multiple Maniac fixtures, make sure you set the DMX addresses right. Therefore, the DMX address of the first Maniac should be **1 (001)**; the DMX address of the second Maniac should be **1+15=16 (016)**; the DMX address of the third Maniac should be **16+15=31 (031)**, etc. Make sure that you do not have any overlapping channels in order to control each Maniac correctly. If two or more fixtures are addressed similarly, they will work similarly.

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

Note: It is necessary to insert a 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

Upon start-up the display will show the current version of the firmware `U 100`. After 2 seconds the display will show the current operation mode or the current DMX address, if the device is connected to a DMX controller: `d001`.

- Use the **MODE button** to navigate through the Main Menu, to exit the current menu and/or to return to the Main Menu.
- Use the **UP/DOWN buttons** to navigate through the submenus or to increase/decrease numeric values.
- Use the **ENTER button** to open the desired menu or to set the currently selected value.

The Main Menu has the following options:

`Aut`   Auto mode

`Sou`   Sound-controlled mode

`MAn`   Manual settings

`dMX`   DMX settings

`SLA`   Slave mode settings

`SYS`   System settings

1. Auto Mode

In this menu you can start one of the built-in programs.

01) Press the **MODE** button to navigate through the Main Menu until the display shows `Aut`.
02) Press the **ENTER** button to open the menu.
03) Press the **UP/DOWN** buttons to select one of the 4 types of built-in programs:

`-Aut`   Auto program (Wash/Beam/Strobe)

`-M.H`   Built-in mix programs (Wash/Beam)

`-bEA`   Built-in Beam programs

`-CoL`   Built-in Wash programs

04) Press the **ENTER** button to confirm the selection and to open the submenu with the built-in programs.

Note: Pressing the **ENTER** button, after you have selected the `-Aut`, will activate the Auto program and the display will show `Auto`. To adjust the speed, see steps 6-7 below.

05) Press the **UP/DOWN** buttons to select one of the built-in programs:

`-M.H` ENTER→ `LM01` UP/DOWN `LM16`   16 built-in mix programs (Wash/Beam)

`-bEA` ENTER→ `Lb01` UP/DOWN `Lb07`   7 built-in Beam programs

`-CoL` ENTER→ `LC01` UP/DOWN `LC10`   10 built-in Wash programs

06) Press the **ENTER** button to set the speed of the selected built-in program.
07) Press the **UP/DOWN** buttons to adjust the speed between `S.01` UP/DOWN `S.99`, from slow to fast.
08) Press the **ENTER** button to confirm the speed setting and to activate the program.

2. Sound-controlled Mode
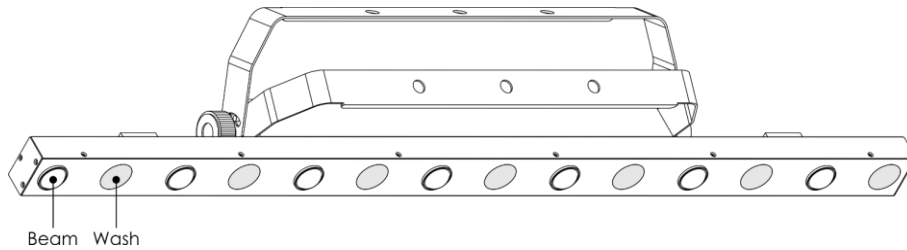
In this menu you can activate the sound control.

01) Press the **MODE** button to navigate through the Main Menu until the display shows `Sou`.
02) Press the **ENTER** button to open the menu.
03) Press the **UP/DOWN** buttons to select one of the 4 types of sound-controlled programs:

`-Sou` Random program (Wash/Beam/Strobe)

`-bEA` Sound-controlled Beam program

`-CoL` Sound-controlled Wash program

`-M,H` Sound-controlled mix program (Wash/Beam)

04) Press the **ENTER** button to confirm the selection.
05) Turn on the music to activate the selected sound-controlled program.

3. Manual Settings

In this menu you can manually adjust the intensity of the light output and the frequency of the strobe flash for both the Wash and the Beam.

Beam Wash

01) Press the **MODE** button to navigate through the Main Menu until the display shows `MAn`.
02) Press the **ENTER** button to confirm the selection. The display shows `MAnu`.
03) Press repeatedly the **ENTER** button to navigate through the following 5 options:

`H000` UP/DOWN `H255` Dimmer intensity of the Beam LEDs, from low to high (0-255)

`S001` UP/DOWN `S.100` Strobe flash rate of the Beam LEDs
- 001-098   from low to high frequency
- 099   full light output, no strobe
- 100   sound-controlled strobe

`r000` UP/DOWN `r255` Dimmer intensity of the Wash LEDs, RED from low to high (0-255)

`G000` UP/DOWN `G.255` Dimmer intensity of the Wash LEDs, GREEN from low to high (0-255)

`b000` UP/DOWN `b.255` Dimmer intensity of the Wash LEDs, BLUE from low to high (0-255)

`F001` UP/DOWN `F.100` Strobe flash rate of the Wash LEDs
- 001-098   from low to high frequency
- 099   full light output, no strobe
- 100   sound-controlled strobe

04) Press the **UP/DOWN** buttons to select the values.

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4. DMX Settings

In this menu you can set the device's DMX address and select the DMX channel mode.

01) Press the **MODE** button to navigate through the Main Menu until the display shows `dnH`.
02) Press the **ENTER** button to confirm the selection. The display shows the DMX starting address of the device `d001`.
03) Press the **ENTER** button open the submenu where you can choose the DMX channel modes.
04) Press the **UP/DOWN buttons** to navigate through the following 6 options:

`3Ch`	3-channel mode	DMX addressing range	`001`	UP/DOWN	`510.`
`4Ch`	4-channel mode	DMX addressing range	`001`	UP/DOWN	`509.`
`6Ch`	6-channel mode	DMX addressing range	`001`	UP/DOWN	`507.`
`10Ch`	10-channel mode	DMX addressing range	`001`	UP/DOWN	`503.`
`12Ch`	12-channel mode	DMX addressing range	`001`	UP/DOWN	`501.`
`15Ch`	15-channel mode	DMX addressing range	`001`	UP/DOWN	`498.`

05) Press the **ENTER** button to confirm the selected channel mode.
06) Press the **UP/DOWN** buttons to set the DMX address of the device. Refer to the DMX addressing range per channel mode for the possible values.
07) Press the **ENTER** button to confirm the setting. The display will show the address of the fixture `d001`.
Note: If you do not press the **ENTER** button, the selected DMX address will be set automatically after 10 seconds, if no other button on the control panel is pressed.

5. Slave Mode Settings

In this menu you can set the device as slave.

01) Press the **MODE** button to navigate through the Main Menu until the display shows `SLA`.
02) Press the **ENTER** button to confirm. The menu will show `SLAU` and the display will be blinking. The device is now operating in Slave Mode. It means that it will react the same as the master device.

6. System Settings

In this menu you can set the device as master and restore the factory defaults.

01) Press the **MODE** button to navigate through the Main Menu until the display shows `SyS`.
02) Press the **ENTER** button to open the submenu.
03) Press the **UP/DOWN** buttons to select one of the following 2 options:

`n-En`	Master mode settings
`rSEt`	Factory defaults restore

04) Press the **ENTER** button to confirm the selection.
- When in the submenu `n-En`, press the **UP/DOWN** buttons to choose between the following 2 options:

`on`	Master mode on, the device will perform as a master
`oFF`	Master mode off

Press the **ENTER** button to confirm your choice.
- When in the submenu `rSEt`, press the **ENTER** button to confirm the reset of the device to factory defaults. The display will show the current version of the firmware for 3 seconds: `U 100`. The device will return to the built-in Auto program and the display will show `Auto`.

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DMX Channels

3 Channels

Channel 1

0-9	Blackout
10-39	Auto mode Beam and Wash
40-69	Auto mode Beam
70-99	Auto mode Wash
100-129	Auto mode Mix
130-159	Sound-controlled mode Beam and Wash
160-189	Sound-controlled mode Beam
190-219	Sound-controlled mode Wash
220-255	Sound-controlled mode Mix

Channel 2 – Built-in programs Beam and Wash ⚠ CH1 must be set between 10-39 ⚠

0-14	Program 1
15-29	Program 2
30-44	Program 3
45-59	Program 4
60-74	Program 5
75-89	Program 6
90-104	Program 7
105-119	Program 8
120-134	Program 9
135-164	Program 10
165-179	Program 11
180-194	Program 12
195-209	Program 13
210-224	Program 14
225-239	Program 15
240-255	Program 16

Channel 2 – Built-in programs Beam LEDs ⚠ CH1 must be set between 40-69 ⚠

0-39	Program 1
40-79	Program 2
80-119	Program 3
120-159	Program 4
160-199	Program 5
200-239	Program 6
240-255	Program 7

Channel 2 – Built-in programs Wash LEDs ⚠ CH1 must be set between 70-99 ⚠

0-24	Program 1
25-49	Program 2
50-74	Program 3
75-99	Program 4
100-124	Program 5
125-149	Program 6
150-174	Program 7
175-199	Program 8
200-224	Program 9
225-255	Program 10

Channel 2 – Auto mode Mix ⚠ **if CH1 is set between 100-129** ⚠

0-255	No function

Channel 3 – Speed Auto mode ⚠ **CH1 must be set between 10-129** ⚠

0-255	Gradual speed adjustment, from slow to fast

Channel 3 – Speed built-in programs ⚠ **CH1 must be set between 10-129 and CH2 must be open** ⚠

0-255	Gradual speed adjustment, from slow to fast

4 Channels

Channel 1 – Dimmer Beam LEDs

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 2 – Dimmer Wash LEDs – Red

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 3 – Dimmer Wash LEDs – Green

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 4 – Dimmer Wash LEDs – Blue

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

6 Channels

Channel 1 – Dimmer Beam LEDs

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 2 – Beam strobe ⚠ **CH1 must be open** ⚠

0-2	No strobe
3-249	Strobe flash rate, from low to high frequency (0-20 Hz)
250-255	Sound-controlled strobe

Channel 3 – Dimmer Wash LEDs – Red

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 4 – Dimmer Wash LEDs – Green

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 5 – Dimmer Wash LEDs – Blue

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 6 – Wash strobe ⚠ **CH3, 4 and/or 5 must be open** ⚠

0-2	No strobe
3-249	Strobe flash rate, from low to high frequency (0-20 Hz)
250-255	Sound-controlled strobe

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Order of the Beam LEDs in 10-, 12- and 15-channel DMX mode:
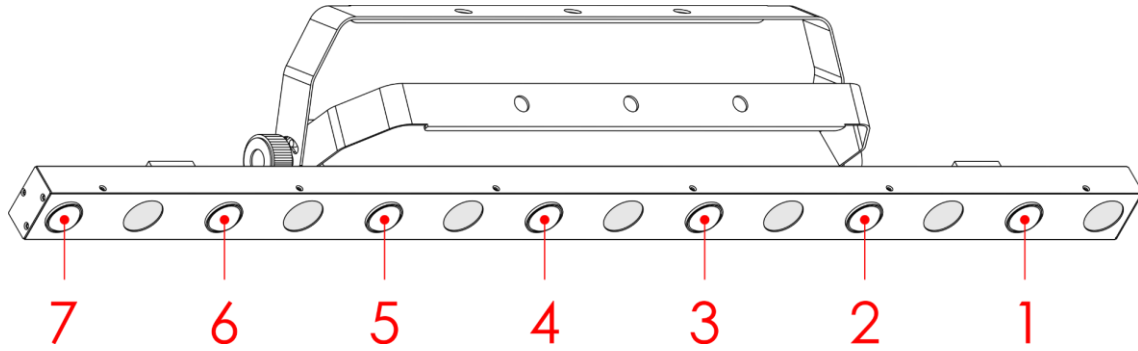
10 Channels

Channel 1 – Beam 1
0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 2 – Beam 2
0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 3 – Beam 3
0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 4 – Beam 4
0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 5 – Beam 5
0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 6 – Beam 6
0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 7 – Beam 7
0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 8 – Dimmer Wash LEDs – Red
0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 9 – Dimmer Wash LEDs – Green
0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 10 – Dimmer Wash LEDs – Blue
0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

12 Channels

Channel 1 – Beam 1 ⚠ CH8 must be open ⚠

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 2 – Beam 2 ⚠ CH8 must be open ⚠

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 3 – Beam 3 ⚠ CH8 must be open ⚠

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 4 – Beam 4 ⚠ CH8 must be open ⚠

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 5 – Beam 5 ⚠ CH8 must be open ⚠

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 6 – Beam 6 ⚠ CH8 must be open ⚠

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 7 – Beam 7 ⚠ CH8 must be open ⚠

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 8 – Beam LEDs

0-127	Master dimmer intensity (0-100 %)
128-249	Strobe flash rate, from low to high frequency (0-20 Hz)
250-255	Sound-controlled strobe

Channel 9 – Dimmer Wash LEDs – Red ⚠ CH12 must be open ⚠

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 10 – Dimmer Wash LEDs – Green ⚠ CH12 must be open ⚠

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 11 – Dimmer Wash LEDs – Blue ⚠ CH12 must be open ⚠

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 12 – Wash LEDs

0-127	Master dimmer intensity (0-100 %)
128-249	Strobe flash rate, from low to high frequency (0-20 Hz)
250-255	Sound-controlled strobe

15 Channels

Channel 1 – Beam 1 ⚠ CH8 must be open ⚠

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 2 – Beam 2 ⚠ CH8 must be open ⚠

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 3 – Beam 3 ⚠ CH8 must be open ⚠

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 4 – Beam 4 ⚠ CH8 must be open ⚠

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 5 – Beam 5 ⚠ CH8 must be open ⚠

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 6 – Beam 6 ⚠ CH8 must be open ⚠

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 7 – Beam 7 ⚠ CH8 must be open ⚠

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 8 – Beam LEDs

0-127	Master dimmer intensity (0-100 %)
128-249	Strobe flash rate, from low to high frequency (0-20 Hz)
250-255	Sound-controlled strobe

Channel 9 – Dimmer Wash LEDs – Red ⚠ CH12 must be open ⚠

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 10 – Dimmer Wash LEDs – Green ⚠ CH12 must be open ⚠

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 11 – Dimmer Wash LEDs – Blue ⚠ CH12 must be open ⚠

0-255	Gradual adjustment of the brightness, from low to high intensity (0-100 %)

Channel 12 – Wash LEDs

0-127	Master dimmer intensity (0-100 %)
128-249	Strobe flash rate, from low to high frequency (0-20 Hz)
250-255	Sound-controlled strobe

Channel 13 ⚠ CH1 – CH12 must be closed ⚠

0-9	Blackout
10-39	Auto mode Beam and Wash
40-69	Auto mode Beam
70-99	Auto mode Wash
100-129	Auto mode Mix
130-159	Sound-controlled mode Beam and Wash
160-189	Sound-controlled mode Beam
190-219	Sound-controlled mode Wash
220-255	Sound-controlled mode Mix

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Channel 14 – Built-in programs Beam and Wash ⚠ CH13 must be set between 10-39 ⚠

0-14	Program 1
15-29	Program 2
30-44	Program 3
45-59	Program 4
60-74	Program 5
75-89	Program 6
90-104	Program 7
105-119	Program 8
120-134	Program 9
135-164	Program 10
165-179	Program 11
180-194	Program 12
195-209	Program 13
210-224	Program 14
225-239	Program 15
240-255	Program 16

Channel 14 – Built-in programs Beam LEDs ⚠ CH13 must be set between 40-69 ⚠

0-39	Program 1
40-79	Program 2
80-119	Program 3
120-159	Program 4
160-199	Program 5
200-239	Program 6
240-255	Program 7

Channel 14 – Built-in programs Wash LEDs ⚠ CH13 must be set between 70-99 ⚠

0-24	Program 1
25-49	Program 2
50-74	Program 3
75-99	Program 4
100-124	Program 5
125-149	Program 6
150-174	Program 7
175-199	Program 8
200-224	Program 9
225-255	Program 10

Channel 14 – Auto mode Mix ⚠ if CH13 is set between 100-129 ⚠

0-255	No function

Channel 15 – Speed Auto mode ⚠ CH13 must be set between 10-129 ⚠

0-255	Gradual speed adjustment, from slow to fast

Channel 15 – Speed built-in programs ⚠CH13 must be set between 10-129 and CH14 must be open⚠

0-255	Gradual speed adjustment, from slow to fast

Maintenance

The operator has to make sure that safety-related 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-related 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.

The Showtec Maniac FX 7 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. Do not immerse in liquid. Wipe lens clean with glass cleaner and a soft cloth. Do not use alcohol or solvents.
The front lens will require weekly cleaning, as smoke-fluid tends to build up residues, reducing the light output very quickly.
Keep connections clean. Disconnect electric power, and then wipe the DMX connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

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 to replace the fuse.
01) Unplug the unit from electric power source.
02) Insert a screwdriver into the slot of the fuse cover. Turn the fuse holder counterclockwise. The fuse holder 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, follow the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out the following steps.
If the light effect does not operate properly, refer servicing to a technician.
Suspect three potential problem areas as the power supply, the LEDs, or the primary fuse.
01) Power supply. Check that the unit is plugged into an appropriate power supply.
02) The LEDs. Return the Maniac to your Showtec dealer.
03) The primary fuse. Replace the fuse. See page 23 for replacing the fuse.
04) If all of the above appears to be in order, switch the unit on again.
05) If you are unable to determine the cause of the problem, do not open the Maniac, as this may damage the unit and the warranty will become void.
06) Return the device to your Showtec dealer.

No Response to DMX

Suspect the DMX cable or connectors, a controller malfunction, a light effect DMX card malfunction.
01) Check the DMX settings. 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 yes, take the DMX cable and the light effect to a qualified technician.

Problem	Probable cause(s)	Solution
One or more fixtures do not function at all	No power to the fixture	• Check if power is switched on and cables are plugged in
	Primary fuse blown	• Replace fuse
Fixtures reset correctly, but all respond erratically or not at all to the controller	The controller is not connected	• Connect controller
	3-pin DMX OUT of the controller does not match DMX IN 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 the DMX OUT connector of the last fixture on the link
	Incorrect addressing of the fixtures	• Check address settings
	One of the fixtures is defective and disturbs data transmission on the link	• Bypass one fixture at a time until normal operation is restored: unplug both connectors and connect them directly together • Have the defective fixture serviced by a qualified technician
	3-pin DMX 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 LEDs cut out intermittently	Fixture is too hot	• Allow the fixture to cool down • Clean the fans • Make sure the cooling fans are not blocked • Turn up the air conditioning
	LEDs are damaged	• Disconnect the fixture and return it to your dealer
	The power supply settings do not match local AC voltage and frequency	• Disconnect fixture. Check settings and correct if necessary

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Product Specifications

Model:	Showtec Maniac FX 7
Input Voltage:	100-240 V AC, 50/60 Hz
Power Consumption:	80 W max
Fuse:	T1,6 A/250 V
Dimensions:	1006 x 185 x 50 mm (L x W x H) (including bracket)
Weight:	3,66 kg
Operating and Programming:	
Signal pin OUT:	Pin 1 (earth), pin 2 (-), pin 3 (+)
DMX mode:	3, 4, 6, 10, 12 and 15 channels
Signal input:	3-pin DMX IN
Signal output:	3-pin DMX OUT
Electro-mechanical properties:	
Light source:	7 x 3 W Cold white LEDs
	7 x 7 W High Power RGB LEDs
Beam Angle:	Wash LEDs 40°
	Beam LEDs 2°
Dimmer:	0-100 %
Strobe:	0-20 Hz
Cooling:	Cooling fans
Display:	4-digits LED display
Housing:	Aluminum
Color:	Black
IP rating:	IP-20
Control:	Auto, sound, manual, master/slave, DMX-512
Connections:	Pro power connectors (IN/OUT), 3-pin DMX connectors (IN/OUT)
Max. ambient temperature t_a:	40 °C
Max. housing temperature t_B:	80 °C
Minimum distance:	
Minimum distance from surfaces:	0,8 m
Minimum distance to lighted object:	0,8 m

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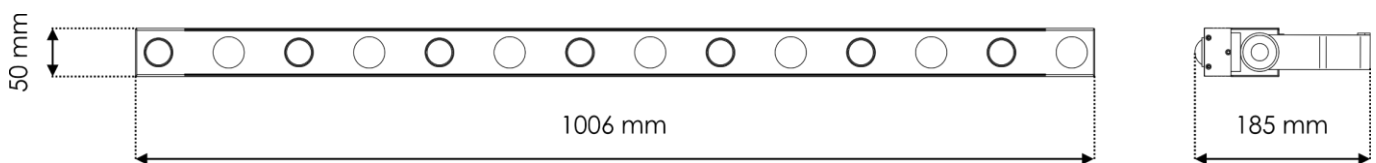
Design and product specifications are subject to change without prior notice.

Notes