

ENGLISH

/FX-SWITCHPACK®





DISCLAIMER

A WARNING

Read this manual carefully before installing and/or using this product. Failure to read the manual and to follow the printed instructions may lead to personal injury and/or damage to the product.

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TRADEMARKS

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LIABILITY

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Refer further to the General Conditions. These are available on request, free of charge.

Although considerable care has been taken to ensure a correct and suitably comprehensive description of all relevant components, the manual may nonetheless contain errors and inaccuracies.

Should you detect any errors or inaccuracies in the manual, we would be grateful if you would inform us. This helps us to further improve our documentation.

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FOREWORD

Congratulations! You have bought a great new product from MAGIC FX.

This manual contains all information required for the intended use of the equipment. Deviation from the described intended use can result in a hazardous situation and/or property damage.

This manual includes notes and warnings on safe operation of the equipment. These notes and warnings are accompanied by the following icons. Read them attentively!

▲ DANGER	Indicates a hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations.
▲ WARNING	Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
A CAUTION	Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.
NOTICE	Indicates information considered important, but not hazard-related (e.g. messages relating to property damage).

LANGUAGE

This document contains the original instructions in English. In case you require other languages please contact MAGIC FX.

REVISION TABLE

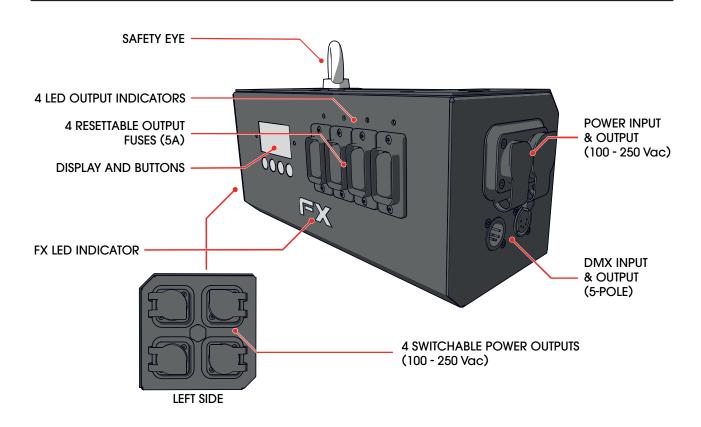
Document nr	Revision	Date	Description	Authored by	Checked by
PART01245	01-00	14-11-2017	Initail release	MBO	TVA

1 MEET THE MAGICFX® FX-SWITCHPACK!

The MAGICFX® FX-SWITCHPACK is a DMX switch system for safely switching on and off multiple electronic special effects machines.

The MAGICFX® FX-SWITCHPACK is designed with unique safety features, including a DMX safety channel which keeps all other channels disabled untill you set it to a specific value.

1.1 MAIN PARTS



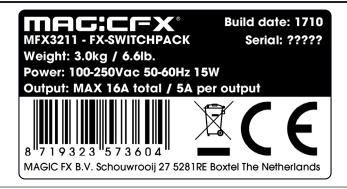
Main parts

1.2 TECHNICAL DATA

Product	Product Name	MAGICFX® FX-SWITCHPACK	
	Product Code	MFX3211	
	Product Type	Control Gear	
Main	Length (mm/in.)	140 / 5.5	
Dimensions	Width (mm/in.)	305 / 12	
	Height (mm/in.)	133 / 5.2	
Weight	Empty weight (kg/lb.)	2.9 / 6.4	
Package	Length (mm/in.)	400 / 15.7	
	Width (mm/in.)	260 / 10.2	
	Height (mm/in.)	250 / 9.8	
	Packaged weight (kg/lb.)	4.2 / 9.3	
Environment	Minimum Temperature (°C/°F)	-10 / 14	
	Maximum Temperature (°C/°F)	50 / 122	
Electrical	Voltage input (Vac)	100-250Vac	
	Voltage Frequency	50-60Hz	
	Power Consumption (Vac)	15W	
	Power Connector (Vac)	Neutrik® powerCON TRUE1 (in & out)	
	Power Output MAX (Vac)	5A per output with resettable output fuse (max. 16A in total)	
Controlling	Control Options	DMX	
	Control Protocols	DMX512-A (ANSI E1.11) / RDM (ANSI E1.20)	
	Control Connectors	Neutrik® 5 pole male/ female XLR	
Configuring	Configure Options	On Device & RDM	

Technical data

1.3 PRODUCT IDENTIFICATION



Type plate

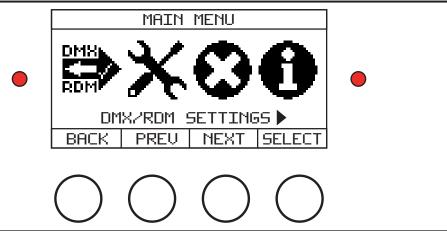
1.4 ACCESSORIES

Code	Product
MFX0311	Neutrik® powerCON TRUE1 - Male to Female - Link cable 10m
MFX0312	Neutrik® powerCON TRUE1 - Male to Female - Link cable 20m
MFX0322	Neutrik® powerCON TRUE1 - Male to Female - Link cable 0,5m
MFX0323	Neutrik® powerCON TRUE1 - Male to Female - Link cable 1,5m
MFX0324	Neutrik® powerCON TRUE1 - Male to Female - Link cable 3m
MFX0325	Neutrik® powerCON TRUE1 - Male to Female - Link cable 5m
MFX0326	Neutrik® powerCON TRUE1 - Male to Female - Link cable 15m
MFX0313	Schuko to Neutrik® powerCON TRUE1 - cable 1.5m
MFX3103	M10 twenty clamp for truss mounting

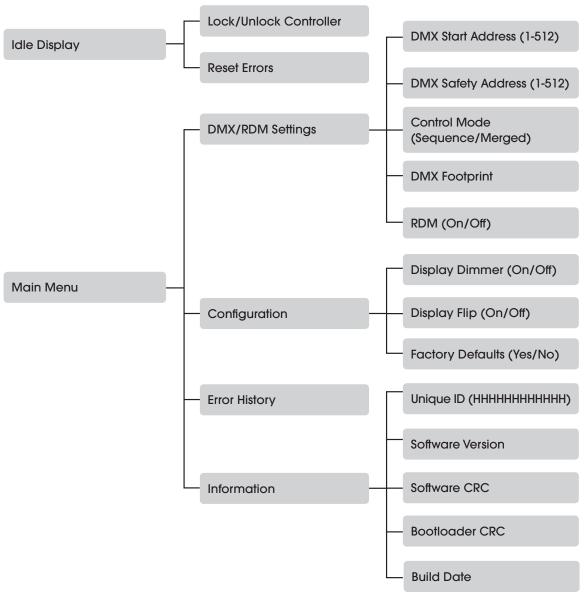
Accessories

1.5 **DISPLAY PANEL**

The display panel is located on the front of the MAGICFX® FX-SWITCHPACK. Check the following menu structure for all options in the menu. Use the buttons for navigation and selection. The left-hand LED blinks red when DMX is active. The right-hand LED blinks red when an error has occurred.



Display panel



Menu structure

1.6 MERGED MODE

In merged mode, the ouputs are controlled together as one.

In merged mode the MAGICFX® FX-SWITCHPACK works with 1 safety address and 1 operational address. The Safety address cannot be the same as one of the operational addresses.

Operating the addresses in merged mode results in the following:

DMX Address	DMX Value (Decimal)		Function
	0	99	Device disbaled
Safety address	100	155	Device enabled
	156	255	Device disabled
Charak and disease	0	199	All outputs disabled
Start address	200	255	All outputs enabled

Operation of the DMX addresses

NOTICE

Make sure the outputs are deactivated before activating the safety address. The safety address cannot be activated when one or more outputs are activated.

When you link multiple machines with DMX, we advise you to use the same Safety address for all machines.

▲ CAUTION

Always plug in a DMX Terminator into the DMX output of the final unit in the control sequence. Using a DMX Terminator improves signal reliability.

1.7 SEQUENCE MODE

In sequence mode, the ouputs are controlled individually.

In sequence mode the MAGICFX® FX-SWITCHPACK works with 1 safety address and 4 sequential addresses. The Safety address cannot be the same as one of the sequential addresses.

Operating the addresses in sequence mode results in the following:

DMX Address	DMX Value (Decimal)		Function
	0	99	Device disabled
Safety address	100	155	Device enabled
	156	255	Device disabled
Start address	0	199	Output 1 disabled
Sidif dddiess	200	255	Output 1 enabled
Start address + 1	0	199	Output 2 disabled
Sidif dddless + 1	200	255	Output 2 enabled
Start address + 2	0	199	Output 3 disabled
Sidif dddless + 2	200	255	Output 3 enabled
Start address + 3	0	199	Output 4 disabled
Jidii dddiess + 3	200	255	Output 4 enabled

Operation of the DMX addresses

NOTICE

Make sure the outputs are deactivated before activating the safety address. The safety address cannot be activated when one or more outputs are activated.

When you link multiple machines with DMX, we advise you to use the same Safety address for all machines.

▲ CAUTION

Always plug in a DMX Terminator into the DMX output of the final unit in the control sequence. Using a DMX Terminator improves signal reliability.

1.8 RDM CAPABILITY

Remote Device Management Protocol (RDM) is an enhancement of the DMX512 communication protocol. RDM can be used for configuration and status monitoring while DMX512 takes care of the default DMX controlling.

For RDM you will need a RDM compatible controller, cables and a RDM responder like the MAGICFX® FX-SWITCHPACK. You can activate or deactivate RDM in the menu, see Section 1.5.

The following RDM parameters are supported by the MAGICFX® FX-SWITCHPACK.

Parameter ID	Discovery	GET	SET
DISC_UNIQUE_BRANCH	X		
DISC_MUTE	Х		
DISC_UN_MUTE	X		
DEVICE_INFO		Χ	
SUPPORTED_PARAMETERS		Χ	
SOFTWARE_VERSION_LABEL		X	
DEVICE_MODEL_DESCRIPTION		Χ	
MANUFACTURER_LABEL		Χ	
SLOT_DESCRIPTION		Χ	
DMX_PERSONALITY_DESCRIPTION		Χ	
DMX_START_ADDRESS		X	Χ
IDENTIFY_DEVICE		Χ	Χ
DEVICE_LABEL		Χ	Χ
FACTORY_DEFAULTS		Χ	Χ
DMX_PERSONALITY		Х	X
DISPLAY_INVERT		X	X
RESET_DEVICE			Χ

RDM parameters

RDM parameters are subject of change due to software updates. Contact MAGIC FX for the latest information and updates.

2 SWITCH SAFELY!

The MAGICFX® FX-SWITCHPACK has been designed and constructed in such a manner that it can be used safely. This applies to the use, the circumstances and the regulations as described in this documentation. Reading this documentation and following the instructions are therefore necessary for everyone who is authorised to work with the MAGICFX® FX-SWITCHPACK.

The MAGICFX® FX-SWITCHPACK must be used in surroundings that preferably:

- Have a reasonably stable temperature of between -10 and 50°C.
- Have a relative humidity degree of no more than 75%.
- Are reasonably free of dust, corrosive gases and high concentrations of organic vapours.
- Are not situated in the vicinity of a source of vibration.

2.1 GENERAL SAFETY RULES

- Only authorised persons may carry out work with the MAGICFX® FX-SWITCHPACK.
- Do not use the MAGICFX® FX-SWITCHPACK if there are people or animals in the direct output of the connected machines.
- Make sure that children, unauthorised people and animals do not obtain access to the MAGICFX® FX-SWITCHPACK.
- Make sure there are no freestanding objects or objects that can be damaged by the connected machines within the output distance.
- Do not remove any safeguards, safety caps and safety symbols.
- All required safety devices must be in good condition and function properly.
- Ensure sufficient lighting of the surroundings.
- Keep the workplace clean.
- Refer to the manual(s) of the connected machine(s) for safety instructions concerning the
 use of those machines.

2.2 RIGGING

Please follow the national and/or international guidelines for safe rigging and trussing.

2.3 CONNECTING FX-MACHINES

The voltage and frequency connected to the power input of the FX-SWITCHPACK are also the voltage and frequency of the switchable power outputs. With a maximum electric current per switchable output (see Chapter 1.2 Technical Data), a deviant input voltage or frequency may cause connected FX-machines to not work properly. The switchable output cannot deliver the power the FX-machine might require.

2.4 PRECAUTIONS FOR OPERATION

▲ WARNING	Using a damaged controller can lead to serious injury and property damage. Always inspect the controller thoroughly before operation.
▲ WARNING	Unauthorized operation of the switchpack can lead to death, serious injury or property damage. Never leave the switchpack unattended when the machine is ready for use.

3 LET'S SWITCH!

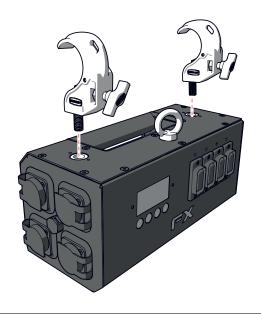
3.1 INSTALL THE MAGICFX® FX-SWITCHPACK

Place the MAGICFX® FX-SWITCHPACK in a suitable area. This may either be on a stable surface or on a truss.

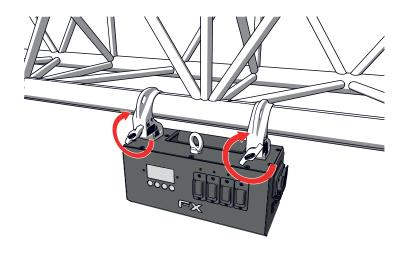
To mount the MAGICFX® FX-SWITCHPACK on a truss follow the instructuons below:

1 Screw two clamps into the holes.

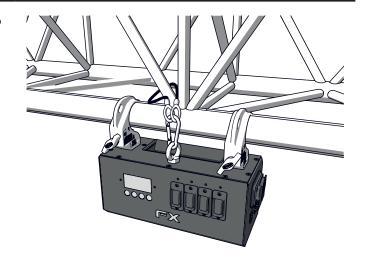
Use two M10 twenty clamps for truss mounting (product code MFX3103).



2 Mount the clamps firmly on a truss.



3 Secure the MAGICFX® SWITCHPACK onto the truss with use of the safety eye.

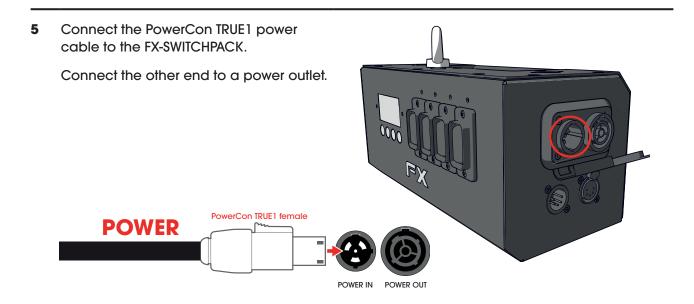


4 Inspect if the MAGICFX® FX-SWITCHPACK is mounted firmly and secured correctly.

3.2 CONNECT THE MAGICFX® FX-SWITCHPACK

▲ CAUTION

Do not connect FX-machines to the switchable power output(s) when the output cannot deliver sufficient power to the FX-machine. See Chapter 2.



Connect the female connector of a 5-pole DMX cable to the DMX input on the FX-SWITCHPACK.

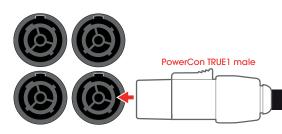
Connect the other end to your DMX controller.

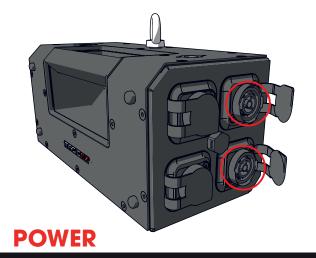
5-pole female

- 7 Make sure the resettable output fuses are in position '1'.
- **8** Check the LED output indicators to see if the outputs are activated.

If not: Connect the male connector of the PowerCon TRUE1 link cable(s) to your FX-machine(s).

Connect the other end(s) to the switched output(s) on the FX-SWITCHPACK.





9 Use the display and buttons to set the machine into SEQUENCE or MERGED mode and to assign DMX addresses, see chapter 1.

▲ CAUTION

Always plug in a DMX Terminator into the DMX output. Using a DMX Terminator improves signal reliability.

3.3 SWITCH WITH DMX

- 1. Before switching, refer to the manual(s) of your connected FX-machine(s) for safety instructions.
- 2. Make sure all outputs are deactivated.
- 3. Activate the Safety address. The FX LED indicator on the FX-SWITCHPACK lights up.
- 4. When it's time to switch, activate the necessary operational channel(s), see Chapter 1.
- 5. When you are done with switching, deactivate the operational addresses.
- 6. Deactivate the Safety address.

3.4 CLEAN UP

- 1. Make sure the Safety address is deactivated.
- 2. First disconnect the power cable from the FX-SWITCHPACK. Then disconnect the link cables and the DMX cable.
- 3. Remove the machine.

4 MAINTENANCE

To achieve the maximum service life of the MAGICFX® FX-SWITCHPACK you must regularly clean the MAGICFX® FX-SWITCHPACK and test if it is functioning correctly.

Contact MAGIC FX if the MAGICFX® FX-SWITCHPACK is not functioning correctly.

▲ DANGER

Do not replace parts yourself; always consult MAGIC FX if necessary.

5 TROUBLESHOOTING

Always contact MAGIC FX if any malfunctions or errors occur that cannot be solved with the instructions as described in this manual.

6 CORRECT DISPOSAL



This symbol on the product and / or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling, please take this product to designated collection points where it will be accepted free of charge.

Alternatively, in some countries you may be able to return your products to your local retailer upon purchase of an equivalent new product.

Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling.

Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with your national legislation.

EC DECLARATION OF CONFORMITY 7

According to Annex III A Low Voltage Directive 2014/35/EU

MAGIC FX B.V. declares as manufacturer and composer of the technical construction file that the product with the following specifications:

Name machine : FX-SWITCHPACK

Type : MFX3211

: 100-250Vac 50-60Hz Voltage

Serial number : on product Year of construction : on product

Is in conformity with the minimal safety regulations as stated in the following directive(s):

• EMC (2014/30/EC) ElectroMagnetic Compatibility

RoHS (2011/65/EU) Restriction of the use of certain Hazardous Substances

• WEEE (2012/19/EU) Waste Electrical & Electronic Equipment

The following harmonized standards were applied:

NEN-EN-ISO 12100:2010, Safety of machinery - General principles for design - Risk assessment and risk reduction.

 NEN-EN-IEC 60204:2010, Safety of machinery - Electrical equipment of machines - Part 1: General requirements.

A Line of the last of the last

NEN-EN-IEC 61000-6-3:2007/A1:2011, Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments.

☐ Original declaration of conformity

☑ Translation of the original declaration of conformity

Name manufacturer : MAGIC FX BV

: Schouwrooij 27, 5281 RE BOXTEL Address

: The Netherlands Country

CEO : B. Veroude Date : 6-10-2017

Signature



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