

# F3173 X

## User Manual: FX BatmooZ





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# 1. FIRST STEPS

## INCLUDED IN DELIVERY:

- 1x FEIMEX FX BatmooZ LumenRadio / Wireless Solution
- 1x Charging cable consisting of Titanex cable, one end unansembled, the other with a Neutrik NAC3FX-W plug connection.
- 1x User manual

## INSPECTION/WARRANTY:

Please check that the delivery is complete and the state of the goods. If the packaging and/or parts of the delivery are damaged, please immediately inform your supplier. We recommend keeping the original packaging in case of returns.

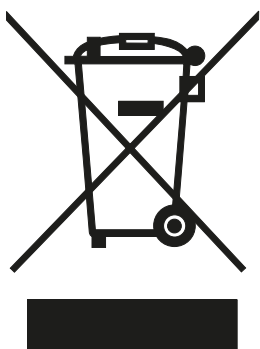
## POWER SUPPLY:

Mains voltage: AC 100-240V / 50-60 Hz

The appliance is equipped with an automatic switch-mode power supply. Please check, before initial operation, that the local mains voltage is within this range.

## BATTERY:

This product contains a lithium-ion-batterypack. Please dispose of the battery, at the end of its lifespan, in accordance with applicable laws to guard the environment.



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**Help guard the environment!** Ensure that your appliance is recycled at the end of its lifespan. Your supplier can help with further information about suitable centers for waste management in your vicinity.

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### SAFETY WARNINGS



**CAUTION!** Please read the following details conscientiously before initial operation of the appliance. They contain important information about handling and servicing of the appliance.

The following symbols are used to indicate important information for the product and in this user manual.



**CAUTION!**

Safety hazard. Risk of severe injury or death.



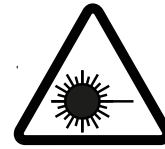
**CAUTION!**

Hazardous Voltage. Risk of lethal or severe electric shock.



**CAUTION!**

Fire hazard.



**CAUTION!**

LED light emission. Risk of eye injury.



**CAUTION!**

Refer to user manual.

- This appliance requires stage I protection measures and therefore must be earthed.
- The power supply must be set up and maintained by a qualified technician.
- Make sure that the working current isn't higher or lower than the prescribed values.
- Make sure that the cables aren't damaged and can not be damaged by sharp objects.
- The appliance must be switched off when not in use or before approval.
- The cable must be plugged in to the socket and unplugged by hand.
- Be careful when installing the appliance. To avoid electric shock, never ever touch exposed cables!
- Please only use high quality cable for operating the fixture.
- No warranty of any kind is given in the case of modifications to the appliance.
- The maximum surrounding temperature for operation of the appliance must not fall below -20° C and exceed 40° C.
- Never connect the appliance to a dimmer.
- To maintain the warranty of the FX BatmooZ, the following instructions must be observed when charging the appliance: The charging case must be detached from the mains supply whilst being removed from or inserted into the appliance. All appliances must be in the case and may not be removed from the FEIMEX charging case during the charging cycle. Otherwise you risk an overload of the charging board and therefor wilfull damage to the appliance. If this reference is disregarded, warranty and all other guarantee obligations of the manufacturer and where applicable, of the distribution partner, expire.

## 2. INTRODUCTION

### DESCRIPTION

- Voltage range (alternating current/AC): 100V to 240V at 50-60Hz
- Rated power: 95W
- LED-quantity: 4x10W 4-in-1 (RGBW)
- Beam angle: 8° – 40°
- Protection class: IP65-outdoor-version
- Product size: 240x191x286mm
- Weight: 6.0 kg

### Optics

- Motor-zoom: 8 – 40°
- Refresh rate: 600/1200/2400/4800

### Cooling

- Convection cooling

### Control

- Wireless DMX Multimode (2.4 GHz)
- Master, Slave
- XLR 5/3-polige DMX-standard sockets

### User-interface

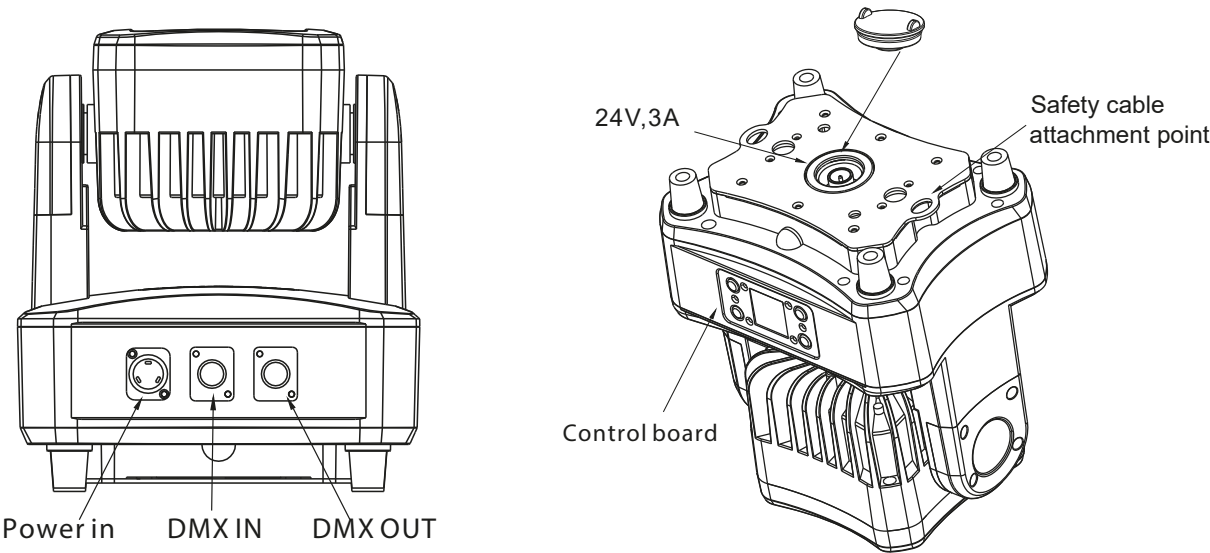
- 1,5" colour-display
- four membrane keys

### Battery

- Runtime at full load: 8h
- Colour-change: 15h
- Fast charging function in the case: 7h
- Normal charging function with PowerCon: 9h
- More than 1.000 discharge- & charge-cycles
- Measurements: 140x93x68 mm
- Standard current: 18,5 V
- Standard capacity: 15,4 Ah
- Rated power: 284,9 Wh
- Li-ion-battery
- No memory-effect
- No acid leakage

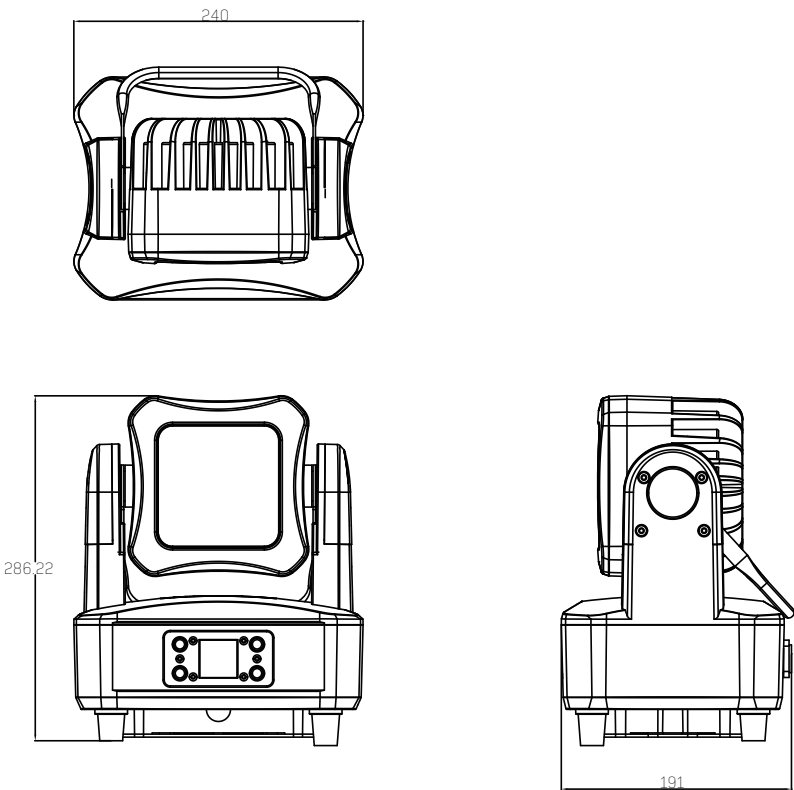


PRODUCT OVERVIEW



Power-in = voltage input | DMX-in = DMX-input | DMX-out = DMX-output  
control board = control panel

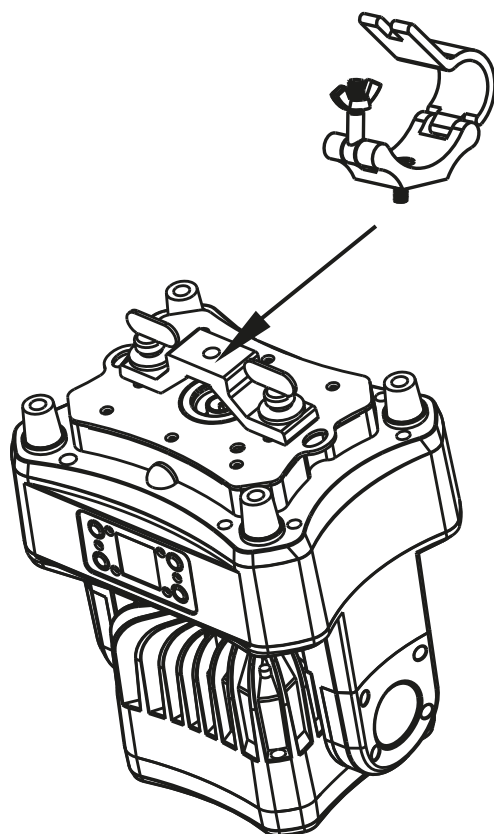
MEASUREMENTS



### 3. INSTALLATION

#### INSTALLATION-REQUIREMENTS

- This product can be suspended or stood.
- For mounting in truss (suspending or standing), special clamps (trigger-clamps, half-couplers, etc.) are necessary. These clamps are not included in delivery and must be acquired independently.
- No flammable objects may be placed within a half meter radius of the appliance.
- To avoid damage to the appliance, mounting and installation of the appliance should be handled by a qualified professional.
- Regard safety requirements according to BGV C1.
- Make sure you use a steady platform for installation- and maintenance work. In the case of suspending (flown) installations or maintenance of such, no further persons may be under the appliance.





### CONTROL-PANEL-FUNCTIONS

The DMX-address can be assigned with the onboard-control panel and the graphic display. It is also possible to configure individual fixtures, set control-modes and run utility programs. See the onboard control menus on the following page for a complete list of menus and commands.



Knob	Function
MODE	Exit the current menu or the current function.
ENTER	Select the menu currently shown or define the currently selected value in the selected function.
UP	Navigates up in the menu list and increases the numeric value when you are within a function.
DOWN	Navigates down in the menu list and decreases the numeric value when you are within a function.

## 4. INSTRUCTIONS

### BATTERY

- In continuous operation at full load (RGBW): 8 hours.
- In continuous operation and colour-changing: 15 hours.
- fast charging function in the case: 7 hours.
- Charging function using PowerCon: 9 hours
- Charging process over the appliance: The battery symbol on the display blinks.
- Charging process in the case:  
Red = charging process in progress  
Green = charging process completed  
Blinking = charging process defect
- If the battery value is 0% operation is not possible. A charge capacity of at least 15% is required.

### MENU FOLDER

MAIN FUNCTION	SECONDARY FUNCTION	SELECTION AREA	DESCRIPTION
DMX ADDRESS		000~512	Defines the DMX start address.
CONTROL MODE	ADVANCED	12CH	12 channels
	BASIS	06CH	6 channels
	NORMAL	09CH	9 channels
static color	Dimmer	000~100	Dimmer
	Red	000~100	The user can combine the colours red, green, blue and white to create an individual colour.
	Green	000~100	
	Blue	000~100	
	White	000~100	
	Zoom	000~100	Zoom
	Strobe	SP(0-20)	Select a strobe frequency (0~20Hz)
Auto	Auto (1~8)		Auto-programs
	Custom		Custom-programs

## 4. INSTRUCTIONS

MAIN FUNCTION	SECONDARY FUNCTION		SELECTION AREA	DESCRIPTION
PERSON-ALITY	Battery		ON~OFF	Battery indicator on/off
	Temperature		ON~OFF	Temperature display on/off
	Color Calibration		ON~OFF	Colour calibration mode on/off
	Dimmer Speed		Fast	Fast dimming, unrestricted speed
			Smooth	Smooth dimming, restricted speed
	WDMX		ON~OFF	Activates/deactivates wireless
			RESET	Reset the wireless-setting
	Key lock	without password	Null	Without password
		with password	Password	Define keyword
			Modify	Change keyword
			Cancel	Delete keyword
language		English/Chinese	Select language	
Refresh rate		600/1200/2400/4000	Select the refresh rate	
Scene Editor	SCENE		000~255	select scene
	COLOR		R(0~100)	Red
			G(0~100)	Green
			B (0~100)	Blue
			W (0~100)	White
			S (0~20)	Select the strobe frequency (0~20Hz)
	Fade		F (0~255)	step-duration
	Time		T (0~255)	Transition-time from the last step to the current step.
	Zoom		Z (0~100)	Wide - narrow
	Use		ON~OFF	activates or deactivates

## 4. INSTRUCTIONS

MAIN FUNCTION	SECONDARY FUNCTION	SELECTION AREA	DESCRIPTION
Information	Usage time	Total hours	Display of hours of use
	Introduction		Reset the hours of use
Factory settings	RESTORED		Resets all settings back to the factory settings.

### SETTINGS

#### 1. DMX 512-control mode – Setting the DMX-start address

- 1.1. Access the functions of the control panel by repeatedly pressing [MENU] until the selection menu is shown.
- 1.2. Navigate with [UP/DOWN], to the required menu, DMX ADDRESS is shown, confirm with [ENTER].
- 1.3. Navigate with [UP/DOWN] until the required DMX-address is shown.
- 1.4. Press [MENU] to return to menu.

#### 2. CONTROL MODE – Selecting a MODE

- 2.1. Access the functions of the control panel by repeatedly pressing [MENU], until the main menu is shown.
- 2.2. Navigate with [UP/DOWN], until the desired menu CONTROL MODE is shown. Confirm by pressing [ENTER].
- 2.3. Navigate with [UP/DOWN] till the required mode is shown.
- 2.4. Press [ENTER] to confirm the selected mode.
- 2.5. Save the process by returning to the menu with [MENU].

### 3. Auto-program – Selecting and creating an auto-program

- 3.1. Access the functions of the control panel by repeatedly pressing [MODE] to show the selection menu.
- 3.2. Navigate with [UP/DOWN] until the required menu SCENEEDITOR is shown. confirm with [ENTER].
- 3.3. Select the required colour, fade, time, zoom and whether the scene should be used or not with [UP/DOWN], then confirm with [ENTER]. Increase or decrease the VALUE of the selected colour, fades, time or zooms by navigating between 000 and 100 with [UP/DOWN]. Return to the previous selection with [MENU].
- 3.4. Repeat the process until all scenes have been created.
- 3.5. Activate the auto-program by accessing the higher level menu of functions of the control panels and select the menu item auto with [UP/DOWN].
- 3.6. Set these to CUSTOM with [UP/DOWN] to start the program created.
- 3.7. Save the process by returning to the menu with [MENU].

### 4. Fixed-colour – Creating a fixed-colour

- 4.1. Access the functions of the control panel by repeatedly pressing [MENU] until the selection menu is shown.
- 4.2. Navigate with [UP/DOWN], till the required menu STATIC COLOR is shown. Confirm with [ENTER].
- 4.3. Select the required VALUE of the dimmers, the colours, fade, the zoom-range and the strobe-frequency with [UP/DOWN], then confirm with [ENTER]. Increase or decrease the VALUE of the selected parameters by choosing between 000 and 100 with [UP/DOWN].

## 4. INSTRUCTIONS

### 5. Dimmer-speed – Setting the dimmer-speed

{PERSONALITY} ♦ {Dimmer Speed} ♦ {NORMAL} / {SMOOTH} ♦ {ENTER}

- 5.1. Access the functions of the control panels by repeatedly pressing [MENU] until the selection menu is shown.
- 5.2. Navigate with [UP/DOWN] until the required menu PERSONALITY is shown, confirm with [ENTER].
- 5.3. Navigate with [UP/DOWN] between den menu items until dimmer SPEED is shown and confirm with [ENTER].
- 5.4. Select between NORMAL / SMOOTH and confirm your choice with [ENTER].
- 5.5. Save the process by returning to the menu with [MENU].

### 6. KEY LOCK– Locking the fixtures

- 6.1. Access the functions of the control panel by repeatedly pressing [MENU] until the selection-menu is shown.
- 6.2. Navigate with [UP/DOWN] until the required menu PERSONALITY is shown,confirm with [ENTER].
- 6.3. Navigate with [UP/DOWN] until the menu item KEYLOCK is shown and confirm with [ENTER].
- 6.4. Chose password to create a password and confirm your selection with [ENTER].
- 6.5. Press [ENTER] to access the field for defining a password and chose the required password, then confirm with [ENTER].
- 6.6. To change the password, repeat steps 6.1. to 6.3.
- 6.7. Select the menu item CANCEL.
- 6.8. Enter your present password and confirm with [ENTER].



## 4. INSTRUCTIONS

### DMX-512 CHANNEL-VALUES

ADV	BAS	NOR	Value	Description
1		1		<b>Electronic shutter-effect</b>
			000~019	Shutter closed
			020~024	Shutter open
			025~064	Strobe 1 (fast - slow)
			065~069	Shutter open
			070~084	Strobe 2: opening impulse (fast - slow)
			085~089	Shutter open
			090~104	Strobe 3: opening impulse (fast - slow)
			105~109	Shutter open
			110~124	Strobe 4: random strobe (fast - slow)
			125~129	Shutter open
			130~144	Strobe 5: random opening impulse (fast - slow)
			145~149	Shutter open
			150~164	Strobe 6: random closing impulse (schnell - langsam)
			165~169	Shutter open
			170~184	Strobe 7: burst-impulse (fast - slow)
			185~189	Shutter open
			190~204	Strobe 8: random burst-impulse (fast - slow)
			205~209	Shutter open
			210~224	Strobe 9: sinus (fast - slow)
			225~229	Shutter open
			230~244	Strobe 10: sinus-impulse (fast - slow)
			245~255	Shutter open
2		2	000~255	Dimmer (0-100%)
3	1	3	000~255	Zoom (0-100%)

## 4. INSTRUCTIONS

ADV	BAS	NOR	Value	Description
4	2	4	000~009	No function
			010~014	Reset the entire fixture (1)
			015~089	No function
			090~094	calibrated colour-outputMODE, colour-matching = ON (2)
			095~099	No function
			100~104	Raw colour outputMODE colour-matching = OFF (2)
			105~109	No function
			110~114	Fast dimming, unrestricted adjustments to speed (2)
			115~119	No function
			120~124	fine dimming, slightly restricted adjustments to speed (2)
			125~129	No function
			130~134	600Hz refresh rate
			135~139	1200Hz refresh rate
			140~144	2400Hz refresh rate
			145~149	4000Hz refresh rate
			150~154	No function
			155~159	WDMX – ON (2)
			160~164	No function
			165~169	WDMX – OFF (2)
			170~174	No function
			175~179	WDMX – RESET (2)
			180~189	No function
			190~249	Disregard electrical quantities to show the output.
			250~255	Illuminated display
				1 - The value must be held for 3 seconds to be activated. 2 - Menustop interference through switching on/off. The value must be held for 3 seconds to be activated.
5			000~009	No function.
			010~255	Colour-spectrum-effect.
6	3	5	000~255	Red (0-100%)
7	4	6	000~255	Green (0-100%)
8	5	7	000~255	Blue (0-100%)
9	6	8	000~255	White (0-100%)
10		9	000~009	No function, colour-temperature (2500K – 10000K)
11			010~255	No function, AUTO (0-8)
12				AUTO SPEED

### SERVICE / SETTINGS

Problem(s)	Possible solution(s)
One or more LEDs don't light up	Clean the appliance regularly to avoid such faults. This appliance is convection cooled, which means that the surface must be kept clean and clear of foreign objects to make adequate cooling possible.
	An LED may be defective which leads to an open circuit. Therefore, all LEDs of a single module fail. This does not mean all LEDs are damaged. The circuit is switched in line.
	<b>Important!</b> In the case of a LED failing, you can request a replacement LED-PCB directly from your dealer.
The fuse switches off/ the fuse blows	Check the total load of the voltage circuit.
	Check whether an internal or external short circuit has occurred in the cabling.
The appliance has no power	Check the mains supply.
	<b>Important!</b> If the automatic switching transformer fails, the appliance can be sent in for repair. A replacement part can be requested from your dealer.
The appliance doesn't react to DMX.	Check the entries on the control panel for correct addressing.
	Check the DMX-cable.
	Check the polarity settings on the controller.
	Check the cable connections.
	Call a technician.
	<b>Important!</b> If the PCB-display fails, a replacement can be requested directly from your dealer.

## 5. APPENDIX

Problem(s)	Possible solution(s)
Signal loss	Only use DMX-cable.
	Install an end-plug with 120 ohm capacity.
	<b>Important!</b> Keep DMX-cables away from power cables and black light.
Controller doesn't function or doesn't function properly	Make sure the connection to the appliance is in order.
	This appliance must be operated in the correct mode to have CONTACT with the COLOR-CON Controller. The correct MODE on the integrated control panel is "SLAVE".
StandAlone	The appliance has built-in automatic programs that may possibly be set off by one of the main circuit boards of the control board.

# FX BatmooZ



## Optical system

Beam angle	8° to 40°
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## LED-light sources

LEDs	4x red, 4x green, 4x blue, 4x white
Colours	16,7 million (R, G, B) 0 - 100 % saturation adjustable
Colour mixing	RGBW

## Temperature ranges

Operating temperature	- 20° C ~ + 40° C
Cooling	convection-cooled

## Control & programming

Protocol	DMX512 & W-DMX
Strobo	0 - 20 Hz
DMX-Channels	6, 9, 12 for advanced or basic controlling

## Specifications

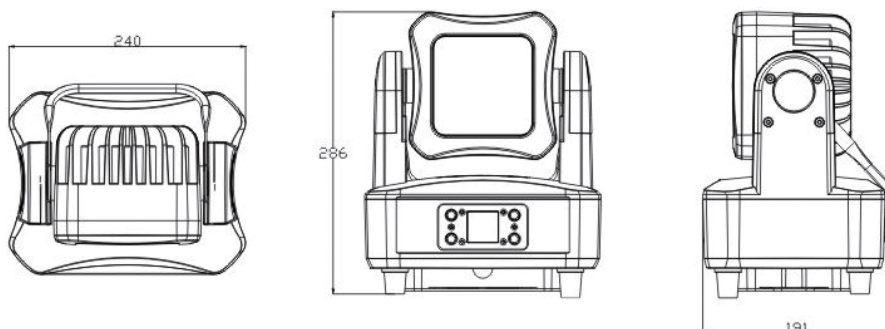
Mains voltage	100V ~ 240V
Power consumption	50W
DMX512-connection	XLR 3-pol input/output

## Housing

Material	injection-moulded aluminum and plastic
Colour	black or white (requires high quantity)
Protection class	IP65

## Dimensions / weight

Dimensions (L x W x H)	240 x 191 x 286 mm
Weight	6 kg (incl. battery)



## CONTACT

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**DMX**  
**512**



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