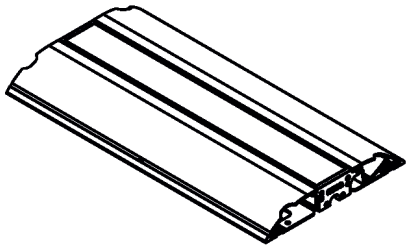
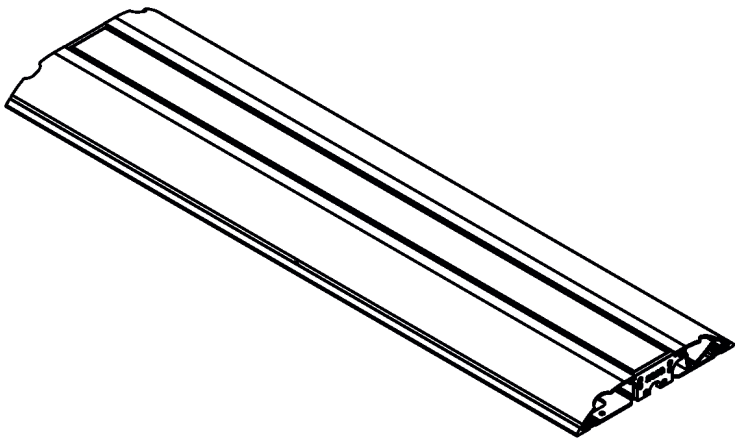
Footsie 1™



Footsie 2™



ROBE
Innovative
Technology

QR code for user manual

USER MANUAL

ROBE® lighting s.r.o. • Czech Republic • www.robe.cz

Version 1.0

Footsie1

Footsie 2

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FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOU INITIAL START - UP

This device has left our premises in absolutely perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warnings in this manual.

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.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

The Robin Footsie was designed for outdoor use and it is intended for professional application only. It is not for household use.

1. Safety instructions

CAUTION!
Disconnect the fixture from mains before removing any cover of the fixture. With a high voltage you can suffer a dangerous electric shock when touching alive wires and electrical parts under covers!

Make sure that the available voltage is not higher than stated on the rear panel of the fixture.
This fixture should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied, consult your authorized distributor or local power company.

Always disconnect the fixture from AC power before cleaning or servicing any part of the fixture.

The power plug has to be accessible after installing the fixture. Do not overload wall outlets and extension cords as this can result in fire or electric shock.

Make sure that the power cord is never crimped or damaged by sharp edges. Check the fixture and the power cord from time to time.

Refer servicing to qualified service personnel.

This fixture falls under protection class I. Therefore this fixture has to be connected to a mains socket outlet with a protective earthing connection.

Do not connect this fixture to a dimmer pack.

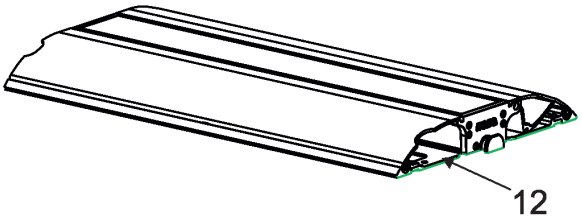
During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.

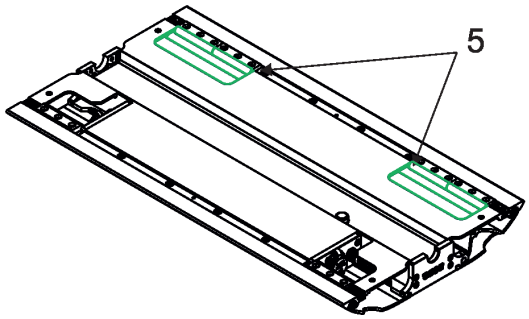
LED light emission. Risk of eye injury. Do not look into the beam at short distance of the of the product. Do not view the light output with optical instruments or any device that may concentrate the beam.
The light source contains blue LEDs.

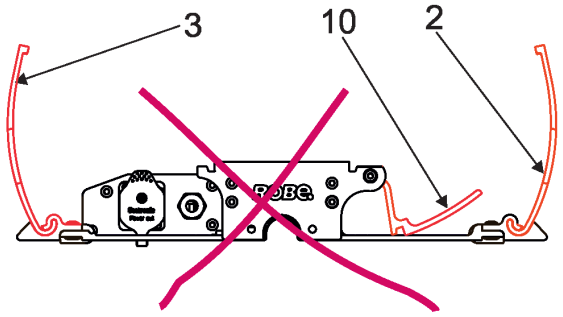
Handle the fixture only in a folded state without diffuser (11) by means of handles (5) or by bottom side of the base (12).

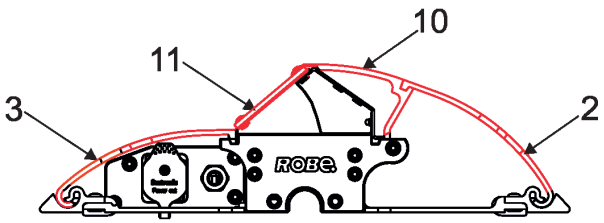
Never handle the fixture holding it by the display cover (3), rear cover (2), diffusion filter cover (10) or diffusion filter (11)!
Never handle the fixture in unfolded state!

Danger of injury of your fingers at incorrect handling with the fixture.









2. Operating determination

WARNING! This unit does not contain an ON/OFF switch. Always disconnect the power input cable from mains to completely remove power from unit when not in use or before cleaning or servicing the unit.

Avoid brute force when installing or operating the device.

When choosing the installation spot, please make sure that the device is not exposed to extreme heat or dust.

Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.

Do not block the lens array with any object when the fixture is under operation.

Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device.

The fixture housing never must be covered with cloth or other materials during its operation.

Please consider that unauthorized modifications on the device are forbidden due to safety reasons!

Potential foggy front lens array does not influence function of the fixture and does not subject to complaint.

Please use only an original ROBE packaging (paper box, loader case or foam shell) for transporting the device, otherwise potential damage of the device during its transport will not subject to warranty.

The fixture must not come into contact with sea water (salt water). Damages or corrosion issues resulting from salt water will void the manufacture warranty and will not be subject to any warranty claims or repairs.

The product (covers and cables) must not be exposed to a high frequency electromagnetic field higher than 3V/m.

Immunity of the equipment is designed according to the standard EN 55035 Electromagnetic compatibility of multimedia equipment - Immunity requirements

Emission of the equipment complies with the standard EN55032 Electromagnetic compatibility of multimedia equipment – Emission Requirements according to class B.

Contains FCC ID: 2A6PL-DMXRDMRW001
Contains IC: 29573-DMXRDMRW001

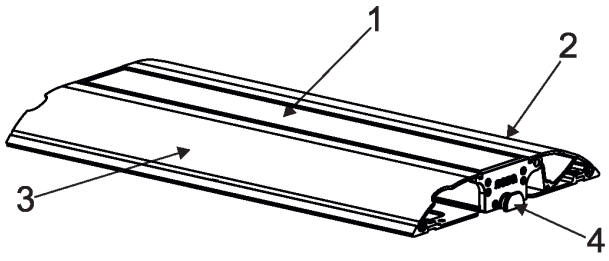
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

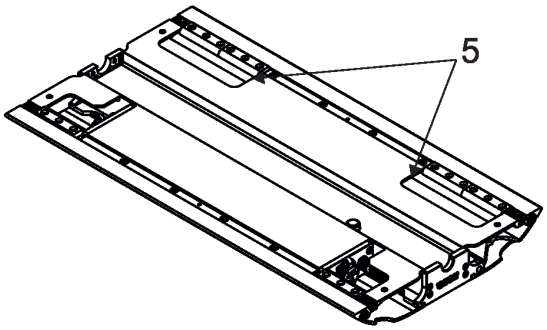
The [Device] wireless operation is safe and complies to RF Exposure requirements

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

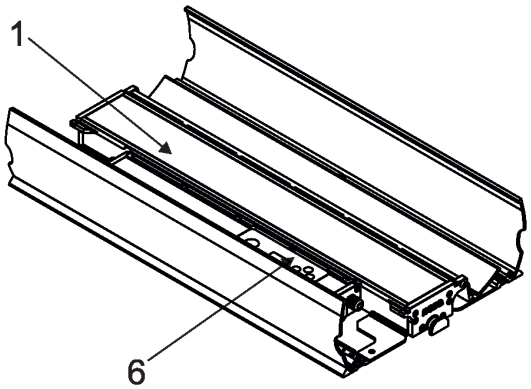
3. Fixture exterior view



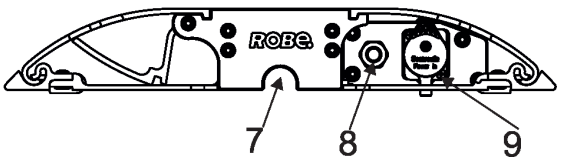
Top side - covers in closed position
1. Glass cover
2. Rear cover
3. Display cover
4. Connecting pin



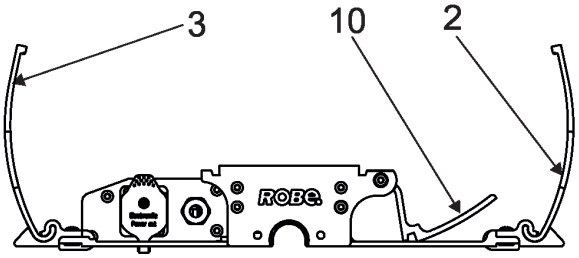
Bottom side - covers in closed position
5. Handles



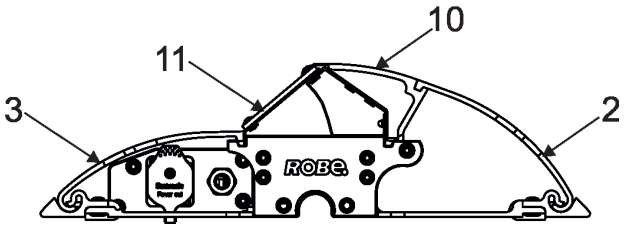
Top side - covers in open position
1. Glass cover
6. Control panel with display and control buttons



Top side - covers in closed position
7. Connecting aperture
8. DMX connection
9. Power (Neutrik TrueOne)



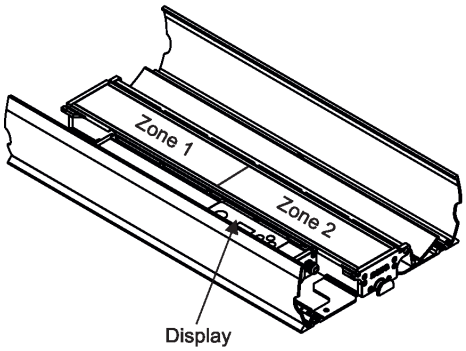
Top side - covers in open position
2. Rear cover
3. Display cover
10. Diffusion filter support cover



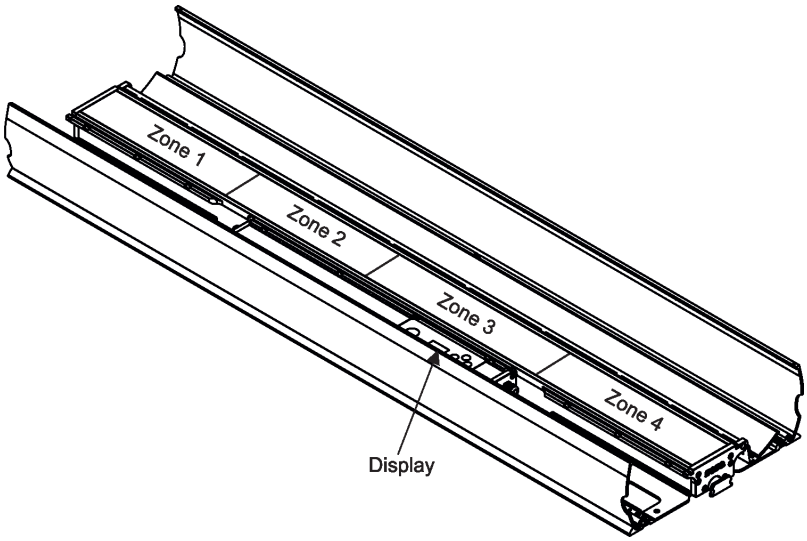
Top side - diffuser in open position
2. Rear cover
3. Display cover
10. Diffusion filter support cover
11. Diffusion filter

Zone positions

Footsie 1



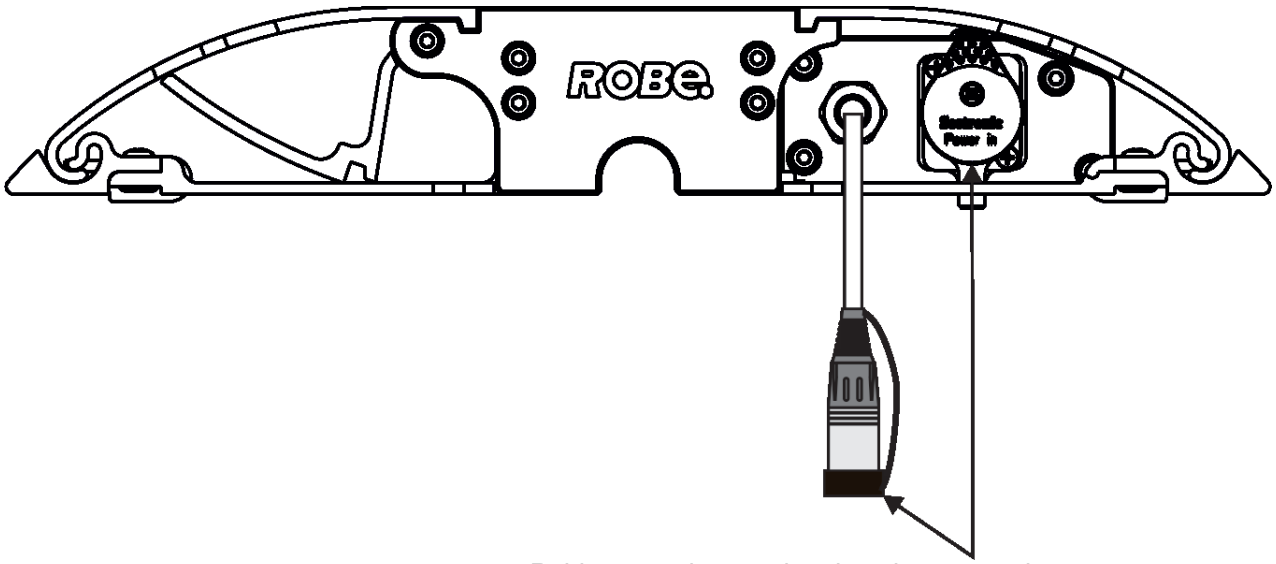
Footsie 2



4. Installation

Fixtures must be installed by a qualified electrician in accordance with all national and local electrical and construction codes and regulations.

The Footsie´s power connectors and DMX connectors are dust and water protected according to IP 65 by mating with related cable connectors.
They cannot stay disconnected outdoor.
All unused power connectors and DMX connectors have to be sealed by the rubber caps.
Visually check connectors on accidental water leaks before connecting related cable connectors.
If some water will appear in connectors, do not connect cable connectors, especially power!



Rubber caps have to be placed on unused connectors.

4.1 Connection to the mains

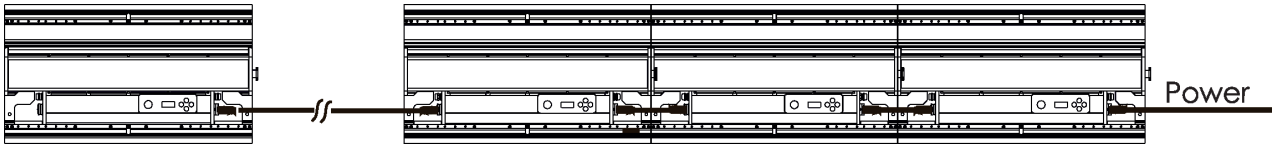
For protection from electric shock, the fixture must be earthed!
The fixture has to be connected to an electric outlet which is equipped with a residual-current device (residual-current circuit breaker)!

The Footsie is equipped with auto-switching power supply that automatically adjusts to any 50-60Hz AC power source from 100-240 Volts.
The IP65 rated power cable is an optional accessories. If you need to install a power plug on the power cable to allow connection to power outlets, install a grounding-type (earthed) plug, following the plug manufacturer's instructions. If you have any doubts about proper installation, consult a qualified electrician.
The cores in the power cable are coloured according to the following table.

Core (EU)	Core (US)	Connection	Plug Terminal Marking
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	⏚

This device falls under class one and must be earthed (grounded)!
Ensure all connections and the power plug on the cable are properly sealed.

Design of the Footsie allows you to connect several fixtures to AC mains power in one interconnected daisy chain using power input and throughput connectors. Needed daisy chain cables are stated in the chapter “Technical specifications “



The max. number of connected fixtures depends on the AC mains power voltage:

Footsie 1

CE:	US:
60 fixtures at power supply= 230V	44 fixtures at power supply= 230V
54 fixtures at power supply= 208V	40 fixtures at power supply= 208V
31 fixtures at power supply= 120V	23 fixtures at power supply= 120V

Footsie 2

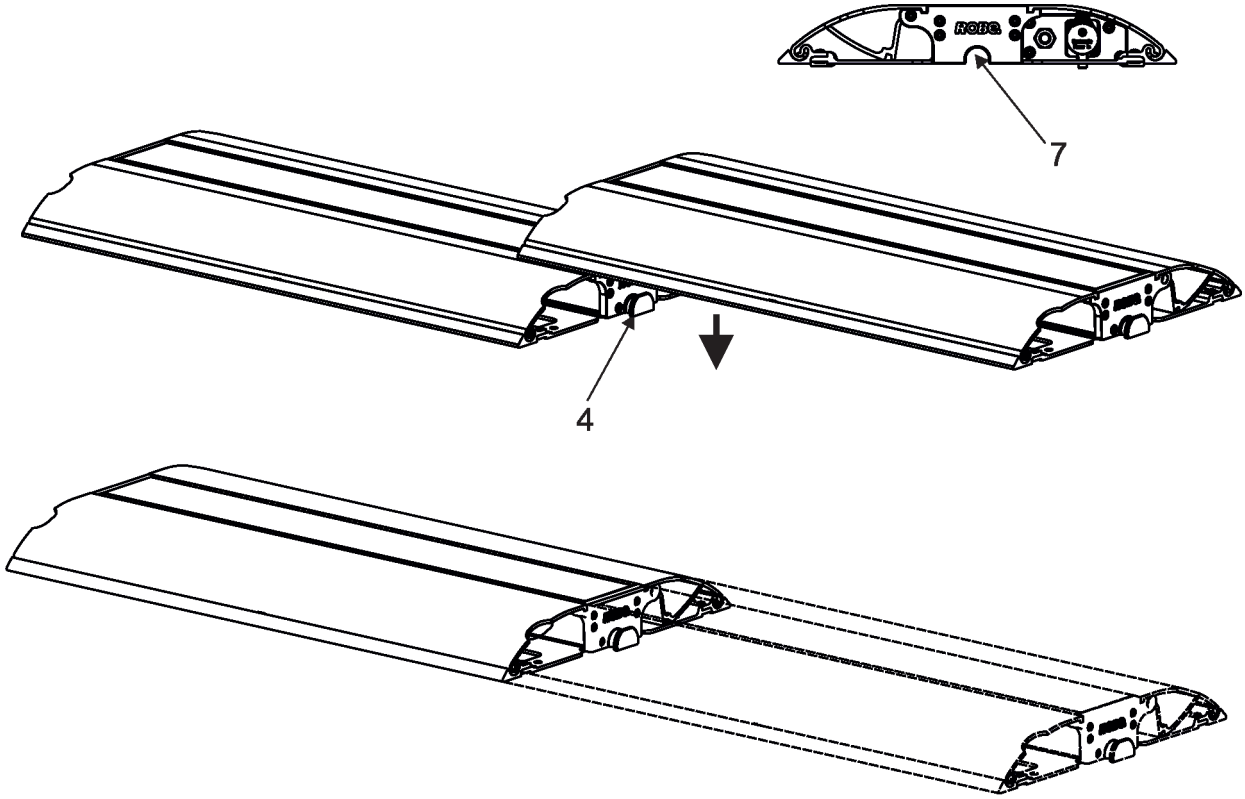
CE:	US:
31 fixtures at power supply= 230V	23 fixtures at power supply= 230V
28 fixtures at power supply= 208V	21 fixtures at power supply= 208V
15 fixtures at power supply= 120V	11 fixtures at power supply= 120V

Real numbers of fixtures may differ from values stated above as you have to take into account the length of supply cables, circuit breaker etc. at projecting the fixtures installation Do not overload the supply line and connecting leads.

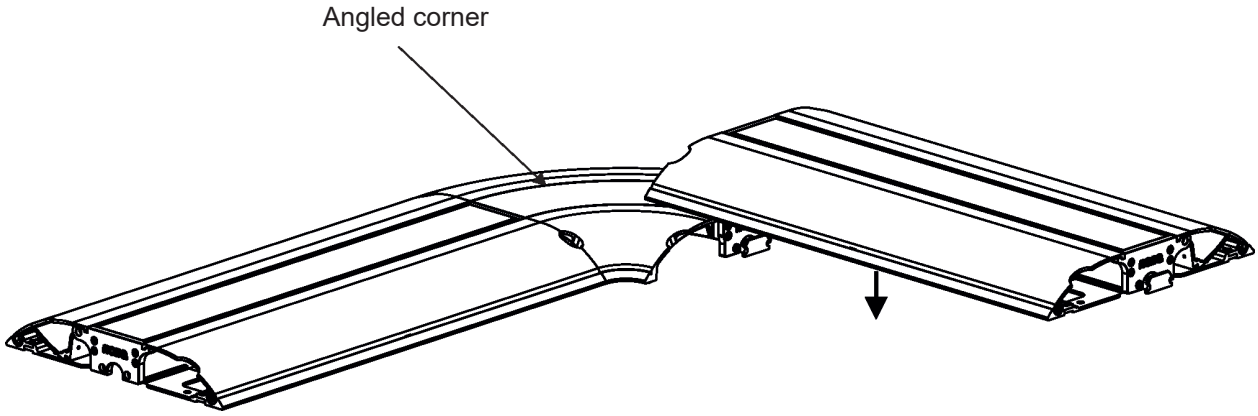
Wiring and connection work must be carried out by qualified staff!

4.2 Connecting Footsies

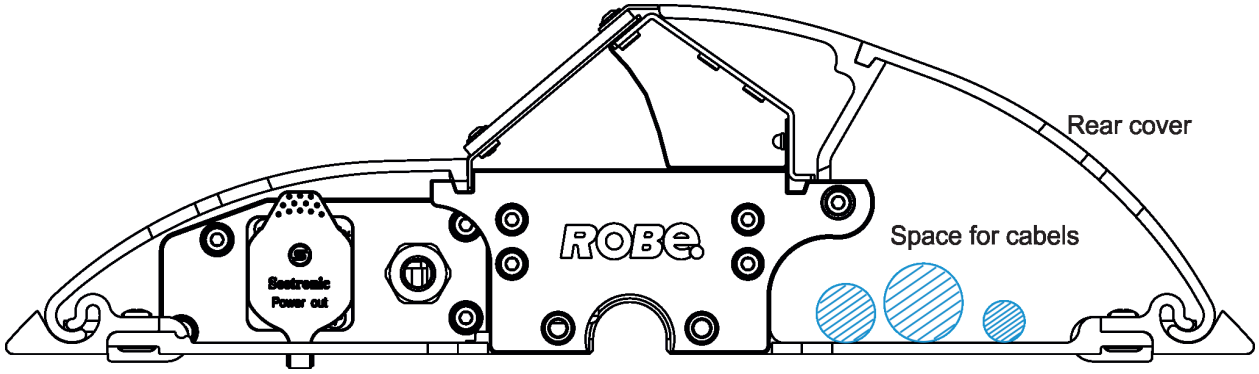
Fixtures on stage can be seamlessly aligned by the locking mechanism which creates connecting pin (4) and connecting aperture (7) on sides of the Footsies.



The line of connected Footsies can be bended by means of angled corners 30°, 60° and 90°. The locking mechanism creates connecting pin and connecting aperture on sides of angled corners.

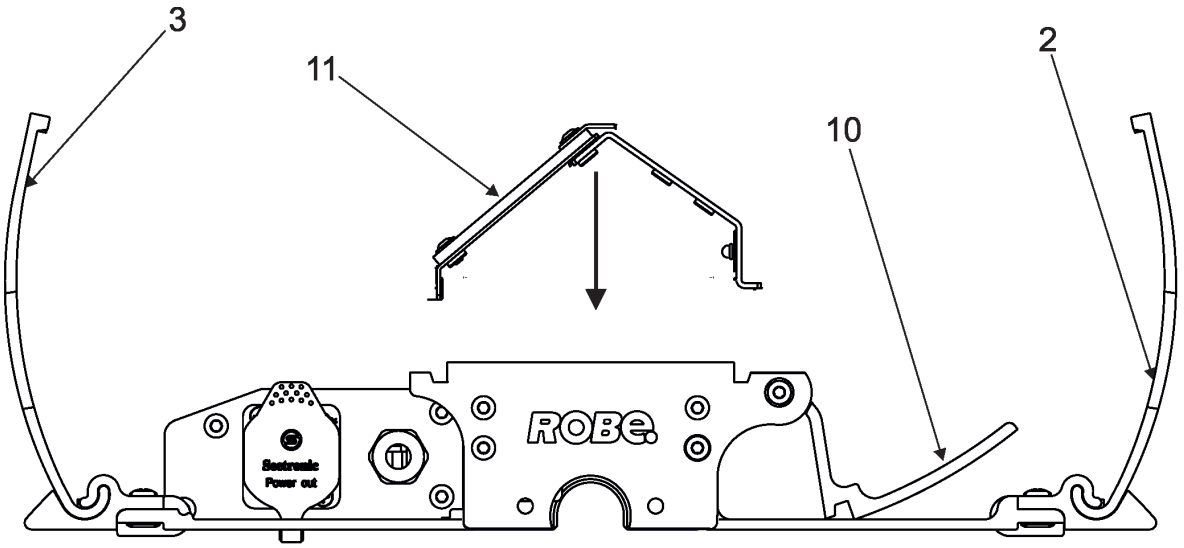


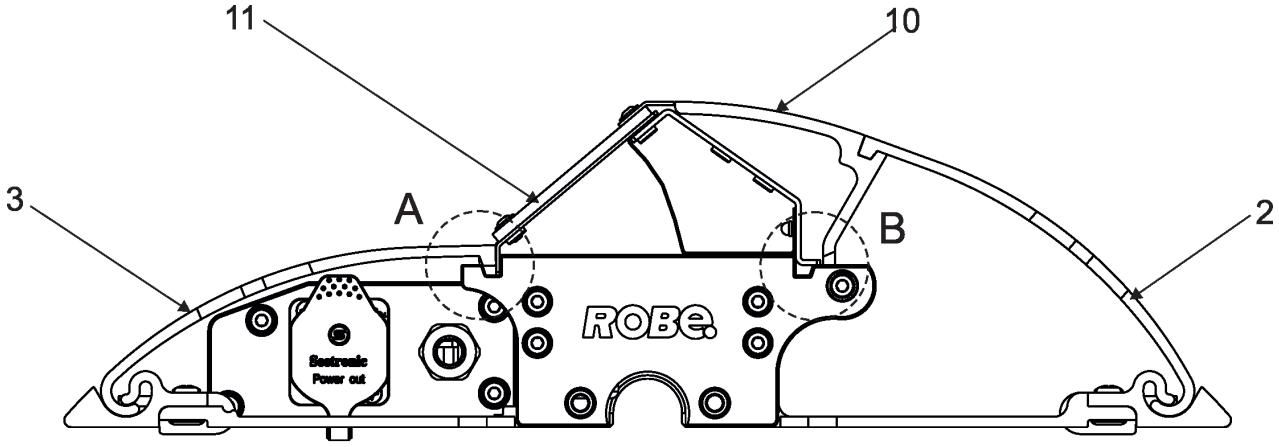
The space under rear cover of the Footsie can be used for placement of cables.



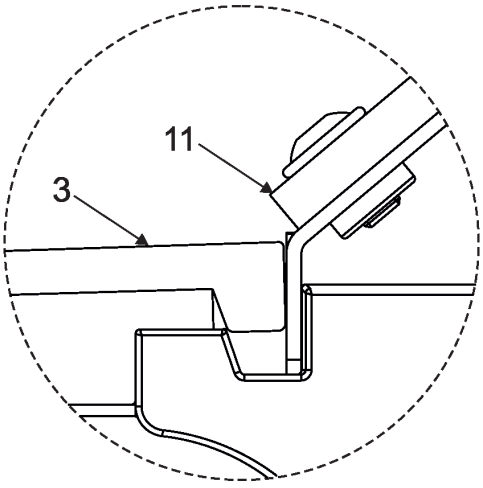
4.3 Diffusion filter installation

1. Disconnect Footsie from mains.
2. Open all covers (2), (3) and (10).
3. Place the diffusion filter (11) on the Footsie.
4. Close the diffusion filter support cover (10).
5. Close the rest of covers (2) and (3).

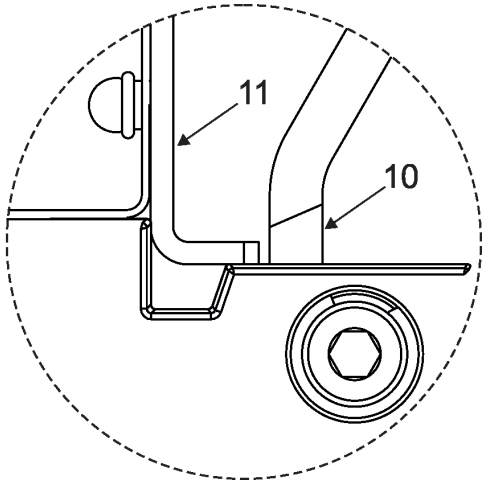




Detail A



Detail B



5. DMX operation

The fixture is equipped with 5-pin XLR connectors for DMX input and output.
Use a shielded twisted-pair cable designed for RS-485 and 5-pin XLR connectors in order to connect the controller with the fixture.
To keep declared IP rating the fixture, all used XLR connectors and cables have to meet IP 65 rating.

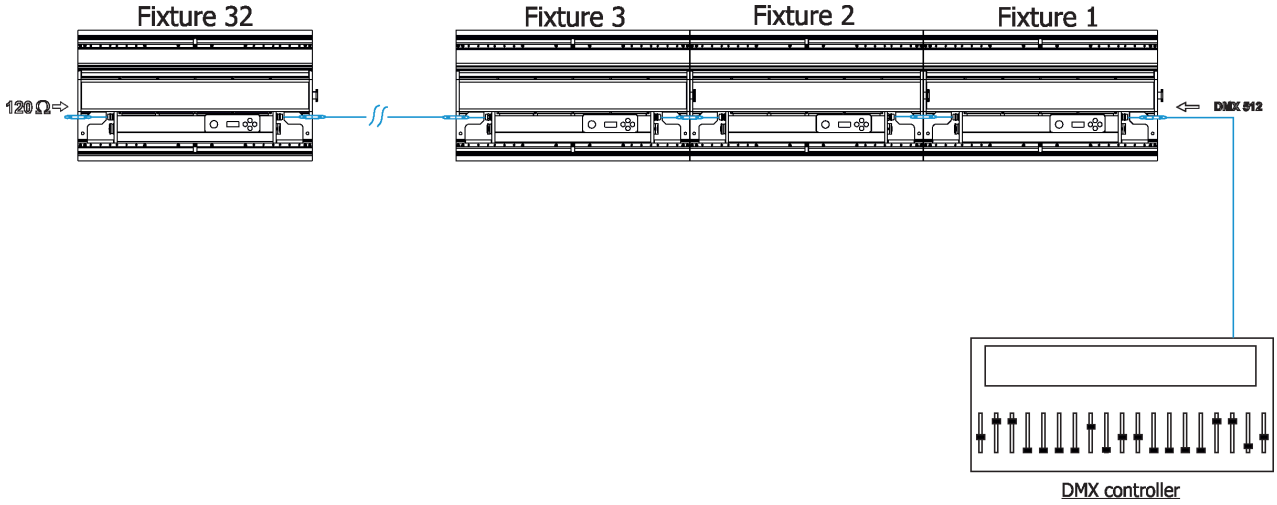
DMX - output
XLR sockets (rear view):

1 - Shield
2 - Signal (-)
3 - Signal (+)
4 - Not connected
5 - Not connected

DMX - input
XLR plugs (rear view):

1 - Shield
2 - Signal (-)
3 - Signal (+)
4 - Not connected
5 - Not connected

Building a serial DMX daisy chain:
Connect the DMX output of the first fixture in the DMX daisy chain with the DMX input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected. Up to 32 fixtures can be connected in one DMX daisy chain.
Caution: At the last fixture, the DMX cable has to be terminated with a terminator. Solder a 120 Ω resistor between Signal (–) and Signal (+) into 5-pin XLR plug and plug it into DMX output of the last fixture.



6. Control menu map

Default settings=Bold print

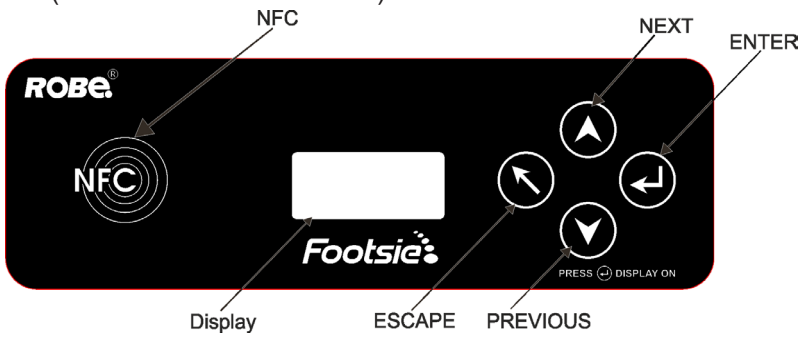
Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7
DMXA	Set DMXA	001-512				
Info	Times	PO Time	Total			
			Reset			
		LOTi	R LOT.			
			G LOT.			
			B LOT.			
			W LOT.			
	DMX Val	Powr	0-255			
		:				
		Dimm F	0-255			
	Temps	Base Tmp	Current			
			Highest			
			High Res.			
		LB Tmp	Current			
			Highest			
			High Res.			
		LED 1 Tmp	Current			
			Highest			
			High Res.			
		LED 2 Tmp	Current			
			Highest			
			High Res.			
		LED 3 Tmp*	Current			
			Highest			
			High Res.			
		LED 4 Tmp*	Current			
			Highest			
			High Res.			
	RDM UID	RDM U. 1				
		:				
		RDM U. 6				
	SW Ver	IC-M				
		IC-ME				
		IC-L1				
		IC-L2				
		IC-L3				
Pers	DMX In	**Wired**				
		Wireless				
		Wrle Out				
	Display	Turn				
		On/Off T	On, **Off**			
		Contrast	0-100%			
		Backlight	0-100%			
	Tungsten	**Off**				
		750 W				
		1000 W				
		1200 W				
		2000 W				
		2500 W				
	White P	**On**, Off				

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7
	Dimmer C	**Square**, Linear				
	LED Freq	300				
		600				
		1200				
		2400				
		High				
	LED Fadj	-126,-05..00..05, 126				
	Temp Uni	**°C**, °F				
	I Ef Pos	Powr	0-255			
		:				
		Dim F	0-255			
		Store				
	Res WPas	**No**, Yes				
	Defaults					
Manual	Pan	0-255				
	:					
	Dimm F	0-255				
Test Prg						
St Alone	Auto Run	**Off**				
		Test				
		Prog 1				
		Prog 2				
		Prog 3				
	Pr Play	Test Prg				
		Prog 1				
		Prog 2				
		Prog 3				
	Pr Edit	Prog 1	Step 1	Pwr		
		Prog 2	:	:		
		Prog 3	Step 40	F.Tim	0-25.5	
				S.Tim	0-25.5	
				COPY		
				Prg End	1-40	
Reset						
Special	RDM Low					
	RDM Hight					
	Wireless	Stat				
		Unlink				
	Adjust	DMX Val	Powr	0-255		
			:			
			Dimm F	0-255		
		Calib	Cal Col	Red C	R X, RY, RI, RT	
				Gre C	G X, GY, GI, GT	
				Blu C	B X, BY, BI, BT	
				Whi C	W X, WY, WI, WT	
				Store		
			Cal Load			
	Sw Upd	On, **Off**				

* Footsie 2 only

7. Control menu

The Robin Footsie is equipped with a 2-row LCD display which allows you to set the fixture´s behaviour according to your needs, obtain information on its operation, control all range of effects and program it in stand-alone mode.
The fixture supports NFC (Near-Field Communication).

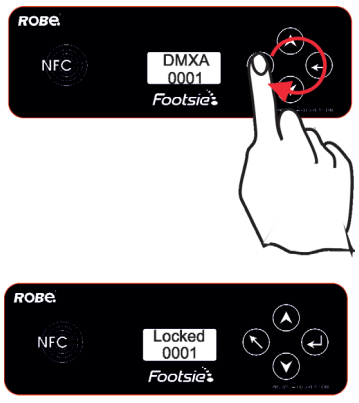


NFC interface, display and control buttons on the front panel
[ESCAPE] button used to leave the menu without saving changes.
[NEXT] , [PREVIOUS] buttons for moving between menu items and symbols, adjusting values.
[ENTER] button used to enter the selected menu (menu item) and to confirm adjusted value.

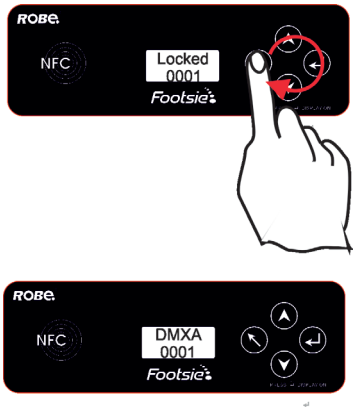
After switching the fixture on, display shows current DMX address.

Locking/unlocking the screen

To lock the screen, display the screen with DMX address, touch the [ESCAPE] button and slide your finger clockwise in a circular track of 360° across buttons [ESCAPE] --> [NEXT] --> [ENTER] -->[PREV]--> [ESCAPE].
The sign "Locked" will appear on the screen. If this sign will not appear, repeat finger sliding again with a different speed.



To unlock the screen, touch the [ESCAPE] button and slide your finger clockwise in a circular track of 360° across buttons [ESCAPE] --> [NEXT] --> [ENTER] -->[PREV]--> [ESCAPE].
The sign "Locked" will disappear from the screen. If this sign still remains on the screen, repeat finger sliding again with a different speed.



7.1 DMXA (Addressing)

Set DMXA (DMX Address) - use this menu item to set the DMX start address of the fixture, which is defined as the first channel from which the ROBIN Footsie will respond to the controller.
If you set, for example, the address 23, the ROBIN Footsie 2 WW will use channels 23 - 35for control.
Please, be sure that you do not have any overlapping channels in order to control each ROBIN Footsie correctly and independently from any other fixture on the DMX data link.
If there is no data received at the DMX input, the display will start to flash "0001" with actually stored DMX address.

7.2 Info (Fixture information)

Times - the menu item allows you to get information about fixture times.

PO Time (Power On Time) - Select the menu to read the number of fixture operation hours.

Total - the item shows the total number of the operation hours since the ROBIN Footsie has been fabricated.

Reset - the item shows the number of operation hours that the ROBIN Footsie has been powered on since the counter was last reset.
In order to reset this counter to 0, press and hold both [NEXT] and [PREV] buttons and the [Enter] button at the same time.

LOTi (LEDs On Time) - Select the menu item to read the number of operation hours of individual LEDs (Red, Green, Blue, White).

R LOT. - Red LEDs on time.
G LOT. - Green LEDs on time.
B LOT. - Blue LEDs on time.
W LOT. - White LEDs on time.

DMX Val. (DMX readout) - The menu is used to read DMX values of each channel received by the fixture.

Temps - The menu allows you to read temperatures inside of the fixture.

LB Tmp (LEDs Board Temperature) - the menu shows temperatures on the LEDs control PCB.

Current - a current temperature of the LEDs control PCB.
Highest - a maximum temperature of the LEDs control PCB since the fixture has been fabricated.
High Res (High Resettable) - a maximum temperature of the LEDs control PCB since the counter was last reset.
In order to reset this counter, press and hold both [NEXT] and [PREV] buttons and the [Enter] button at the same time.

Base Tmp (Base temperature) - the menu shows temperatures in the fixture base (on the display PCB).

Current - a current temperature in the fixture base.
Highest - a maximum temperature in the fixture base since the fixture has been fabricated.
High Res (High Resetable) - a maximum temperature in the fixture base since the counter was last reset.
In order to reset this counter, press and hold both [NEXT] and [PREV] buttons and the [Enter] button at the same time.

LED 1 Tmp (LEDs PCB 1 Temperature) - the menu shows temperatures on the LEDs PCB 1.

Current - a current temperature of the LEDs PCB 1.
Highest - a maximum temperature of the LEDs PCB 1 since the fixture has been fabricated.
High Res (High Resettable) - a maximum temperature of the LEDs PCB 1 since the counter was last reset.
In order to reset this counter, press and hold both [NEXT] and [PREV] buttons and the [Enter] button at the same time.

LED 2 Tmp (LEDs PCB 2 Temperature) - the menu shows temperatures on the LEDs PCB 2.

Current - a current temperature of the LEDs PCB 2.
Highest - a maximum temperature of the LEDs PCB 2 since the fixture has been fabricated.
High Res (High Resettable) - a maximum temperature of the LEDs PCB 2 since the counter was last reset.
In order to reset this counter, press and hold both [NEXT] and [PREV] buttons and the [Enter] button at the same time.

LED 3 Tmp (LEDs PCB 3 Temperature*) - the menu shows temperatures on the LEDs PCB 3.

Current - a current temperature of the LEDs PCB 3.

Highest - a maximum temperature of the LEDs PCB 3 since the fixture has been fabricated.

High Res (High Resettable) - a maximum temperature of the LEDs PCB 3 since the counter was last reset.

In order to reset this counter, press and hold both [NEXT] and [PREV] buttons and the [Enter] button at the same time.

LED 4 Tmp (LEDs PCB 4 Temperature*) - the menu shows temperatures on the LEDs PCB 4.

Current - a current temperature of the LEDs PCB 4.

Highest - a maximum temperature of the LEDs PCB 4 since the fixture has been fabricated.

High Res (High Resettable) - a maximum temperature of the LEDs PCB 4 since the counter was last reset.

In order to reset this counter, press and hold both [NEXT] and [PREV] buttons and the [Enter] button at the same time.

* Footsie 2 only.

RDM UID - the menu allows you to read RDM UID of the fixture.

Sw Ver (**Software versions) -** Select this item to read the software version of the fixture processors.

IC-M - Display processor

IC-ME - EEprom

IC-L1 - LED control processor 1.

IC-L2 - LED control processor 2.

IC-L3 - LED control processor 3.

7.3 Pers (Personality)

DMX In (**DMX input)** - use the menu to select mode of DMX signal receiving.

Wired - DMX signal is received by means of the standard DMX cable.

Wireless - DMX signal is received by means on inbuilt wireless DMX module.

Wrle Out - the fixture receives wireless DMX and sends the signal to its wired DMX output. The fixture behaves as " Wireless/Wired" adapter.

Display (Display adjusting) - this menu allows you to adjust the display behaviour.

Turn - the function turns the display by 180°.

On/Off T - the function allows you to keep the display permanent on or turn it off two minutes after last pressing any button on the control panel.

Contrast- use the function to adjust contrast of the display (0-100%).

Backlight- use this function to adjust back-light of the display (0-100%).

Tungsten (Tungsten simulation) - the function simulates behaviour of a halogen lamp during dimming at calibrated whites 2700K-4200K. You can select from various lamp wattage simulation: 750W, 1000W, 1200W, 2000W, 2500W.

White P (White Point 8000K) - if the function is on, the CTC channel allows you to set desired white in range of 8000K-2700K (0 DMX=8000K, 255 DMX=2700K). Necessary condition is, that RGBW channels have to be full or set at the same DMX values, e.g. 150.
If this function is off, the range of whites is not uniform and may be different for each fixture.

Dimmer C (Dimmer curve) - use the menu to select desired dimmer curve.

Linear - a linear curve.

Square - a square law curve.

LED Freq. (LEDs frequency selection) - the function allows you to set the PWM (Pulse Width Modulation) output frequency of LEDs to Standard or High. You can select from the following values:

300 Hz
600 Hz
1200 Hz
2400 Hz
High

LED Fadj (LEDs frequency fine adjustment) - The function allows you to change the selected PWM output frequency of LEDs in 126 levels up and down around the selected frequency in the menu “LED Freq”.

-126...-001 - Frequence levels 1-126 under selected frequency.
000 - Selected frequency
001...126 - Frequence levels 1-126 above selected frequency.

Temp. Uni. (Temperature unit) - use the menu item to change temperature unit from °C to °F.

I. Ef. Pos. (Init effect positions) - use the menu to set all effects to the desired positions at which they will stay after switching the fixture on without DMX signal connected.

Defaults - The menu item allows you to set all fixture parameters to the default (factory) values.

7.4 Manual (Manual Control)

Use the menu to control all fixture channels by means of control buttons.

7.5 Test Prg (Test program)

Use this menu to run a special demo-test sequences without an external controller, which will show you some possibilities of using ROBIN Footsie.

7.6 St Alone (Stand-alone)

Auto Run (Presetting playback) - the function allows you to select the program which will be played in the stand-alone mode after switching the fixture on. Selected program will be played continuously in a loop.

Off - the option disables „Auto Run” function.
Test - the option will start built-in test program.
Prog 1 - the option will start user-created program 1
Prog 2 - the option will start user-created program 2
Prog 3 - the option will start user-created program 3

Pr. Play (**Playing program)** - use the menu to run a user-created program in a loop.

Test Prg - the option runs built-in test program.
Prog 1 - the option runs user-created program 1
Prog 2 - the option runs user-created program 2
Prog 3 - the option runs user-created program 3

Select the program you wish and press [ENTER]. The selected program will start running. By Pressing [ENTER] again, program pauses its running.

Pr. Edit (**Editing program)** - select this menu to edit or create the program. The ROBIN Footsie has one built-in program and three user-editable programs up to 40 steps each. Each program step has a step time - during which effects last in the current step and a fade time- during which effects move to new positions.

To edit program:

1. Touch [NEXT] or [PREVIOUS] button to select the menu "Edit" and touch [ENTER].
2. Touch [NEXT] or [PREVIOUS] button to select the desired program step and touch [ENTER] button.
3. Touch [NEXT] or [PREVIOUS] button to select the desired item and touch [ENTER] button. Now you can edit DMX value (0-255) for selected item by touching [NEXT] or [PREVIOUS] buttons:

Prg End.	a total number of the program steps (value 1-40). This value you should be set before starting of programming (e.g. if you want to create program with the 10 steps, set Prg End=10).
Powr	power/special functions
L Fre	LEDs frequency
L Fr S	LEDs frequency fine adjusting
Virt C	a virtual colour wheel
Red	a red colour coarse
Red F	a red colour fine
Green	a green colour coarse

Green F	a green colour fine
Blue	a blue colour coarse
Blue F	a blue colour fine
White	a white colour
White F	a white colour fine
Warm	a warm white colour*
Warm F	a warm white colour fine*
Cool	a cool white colour*
Cool F	a cool white colour fine*
BPL	Blue position LEDs intensity
CTC	a colour temperature correction
C Mix C	a colour mix control
C Mix Z	a colour mix control of zones
Zoom	a zoom function
Zoom F	a zoom function fine
Stro	a strobe/shutter function
Dimm	a dimmer function coarse
Dim F	a dimmer function fine
F.Tim	a fade time (0-25.5 sec)
S.Tim	a step time (0-25.5 sec)
COPY	copying the current prog. step to the next prog. step

* TW version only

4. Press [ENTER] button to confirm adjusted value .
5. Press [ESCAPE] button, select next prog. step, press [ENTER] button and repeat steps 3 - 5).

7.7 Reset

This option enables the ROBIN Footsie to index all effects and return to their standard positions.

7.8 Special (Special functions)

RDM Low - the menu item shows the first part of the RDM identification code.

RDM High - the menu item shows the second part of the RDM identification code.

Wireless (Wireless DMX information) - the menu allows you to read some information about Wireless DMX operation

Stat (Wireless status) - Use the menu to read wireless DMX status.

Unlink - use this item to unlink fixture from wireless DMX transmitter .

Adjust (Adjustment) - the menu allows you fine adjustment of effects.

DMX Val. (DMX values) - use the menu to set DMX values of fixture´s channels.

Calib (Calibration) - calibration of effects.

Cal. Col. (Calibration of Colours) - the menu serves for calibration of colours in the factory. User should not change settings in this menu.

Cal. Load - the item loads default (factory) calibration values.

Sw Upd (Software update) - the menu item allows you to update software in the fixture via either serial or USB port of PC.

The following items are required in order to update software:

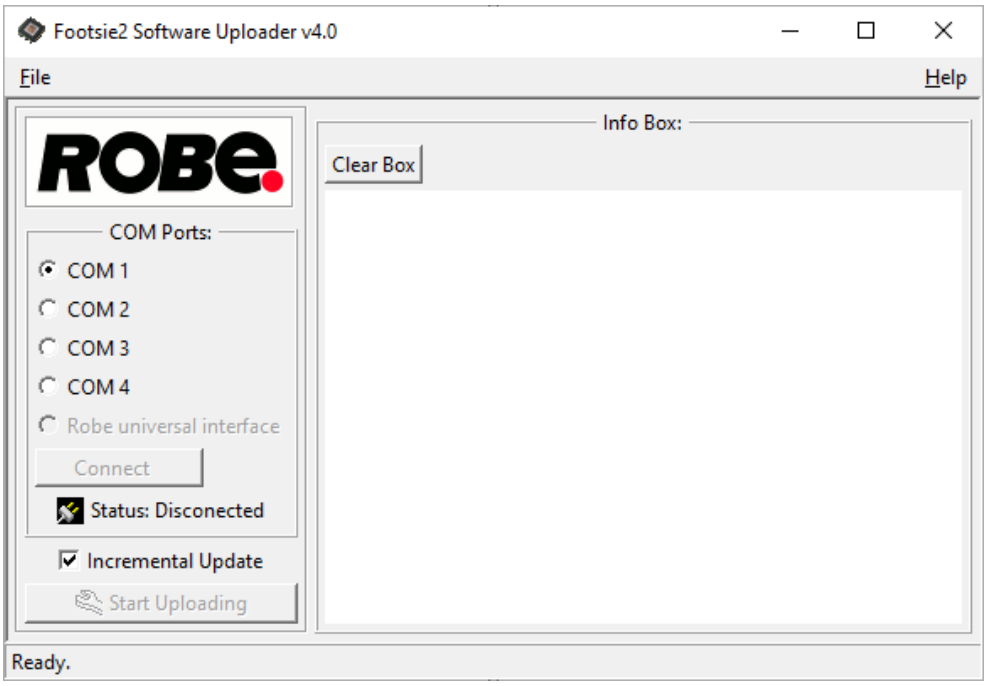
- PC running Windows or Linux or macOS
- DSU file
- Flash cable RS232/DMX, P/N13050624 (if you want to use a serial port of PC)
- Robe Universal Interface or Robe Universal interface WTX (if you want to use an USB port of PC)

To update software in the fixture:

1. DSU file is available from Robe web site at WWW.robe.cz.
   File with extension zip is intended for Windows (used and tested from XP to W10 on 32/64bit systems).
   File with extension tbz is intended for Linux (used and tested on Debian and Ubuntu 32/64bit).

File with extension dmg is intended for macOS (used and tested on OSX up to Sierra) XQuartz required, install it from https://www.xquartz.org/.
Save the download file to a folder on your computer.
In case that you use windows, extract files in the zip file (e.g. DSU_Footsie_18041738.zip)

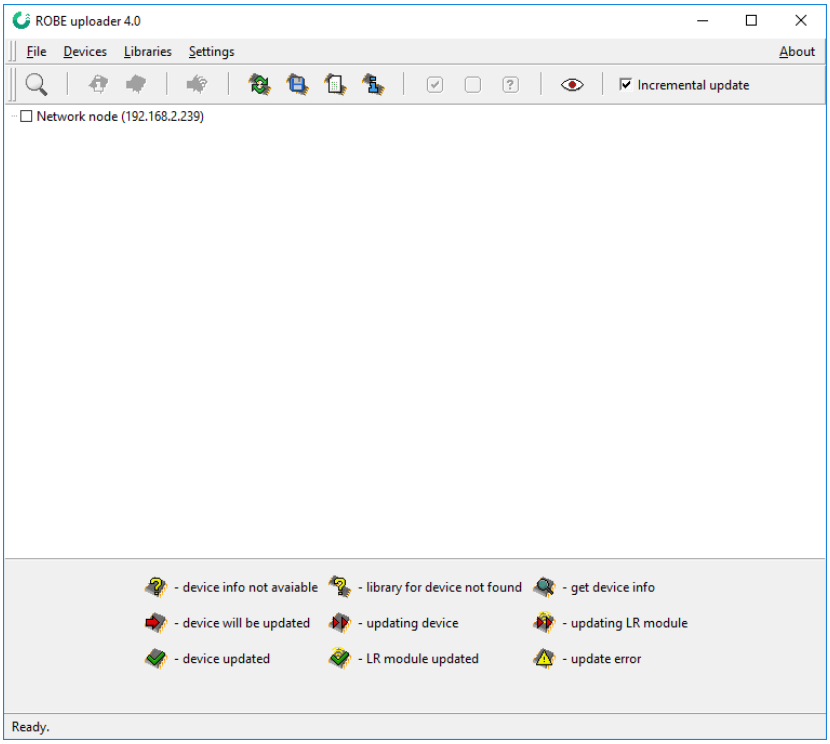
2. Disconnect the fixture from DMX controller.
3. If you use the flash cable RS232/DMX, connect a serial port of your computer with DMX input of the fixture by means of the cable.
   If you use the Robe Universal Interface, connect a USB port of your computer with the Robe Universal Interface by means of the USB cable and DMX input of the fixture with the DMX output of the Robe Universal Interface via a DMX cable.
4. Switch the fixture to the update mode (Special --> SW Upd).
   Note: If you do not want to continue in the software update, you have to switch off and on the fixture to escape from the updating mode.
   We recommend to cancel all running programs on your computer before starting the software update.
5. Double-click the software uploader file (e.g. DSU_Footsie_18041738.exe) in the extracted files. The Software Uploader program will start running.



6. Select correct "COM " number if you use a Flash cable RS232/DMX or select "Robe Universal Interface 1 " if you use the Robe Universal Interface/Robe Universal Interface WTX and then click on the "Connect" button.
7. If the connection is OK, click the “Start Uploading" button to start software uploading. It will take several minutes to perform software update.
   If the option "Incremental Update" is not checked, all processors will be updated (including processors with the same software version).
   If you wish to update only processors with new version of software, check the “Incremental Update box“.
   Avoid interrupting the process. Update status is being displayed in the "Info Box" window.
   When the update is finished, the line with the text “Fixture is successfully updated“ will appear in this window.

In case upload process is interrupted (e.g. power loss), the fixture stays in “Updating mode” and you will have to repeat the software update again.

Another way, how to update software in the fixtures (especially large installation of fixtures) is to use the ROBE Uploader. It is a software for automatized software update of Robe fixtures. It takes advantage of RDM support).
For more information please see https://www.robe.cz/robe-uploader/.



8. RDM

This fixture supports RDM operation. RDM (Remote Device Management) is a bi-directional communications protocol for use in DMX512 control systems, it is the new open standard for DMX512 device configuration and status monitoring.
The RDM protocol allows data packets to be inserted into a DMX512 data stream without adversely affecting existing non-RDM equipment. By using a special „Start Code," and by complying with the timing specifications for DMX512, the RDM protocol allows a console or dedicated RDM controller to send commands to and receive messages from specific moving lights.
RDM allows explicit commands to be sent to a device and responses to be received from it.
The list of commands for Robin Footsie is the following.

Parameter ID	Discovery command	SET command	GET command
DISC_UNIQUE_BRANCH	*		
DISC_MUTE	*		
DISC_UN_MUTE	*		
DEVICE_INFO			*
SUPPORTED_PARAMETERS			*
SOFTWARE_VERSION_LABEL			*
DMX_START_ADDRESS		*	*
IDENTIFY_DEVICE		*	*
DEVICE_MODEL_DESCRIPTION			*
MANUFACTURER_LABEL			*
DEVICE_LABEL		*	*
SENSOR_DEFINITION			*
SENSOR_VALUE			*
DISPLAY_INVERT		*	*
DISPLAY_LEVEL		*	*

PAN_INVERT		*	*
TILT_INVERT		*	*
DEVICE_RESET		*	
DMX_PERSONALITY		*	*
DMX_PERSONALITY_DESCRIPTION			*
STATUS_MESSAGES			*
STATUS_ID_DESCRIPTION			*
DEVICE_HOURS [2]			*
ROBE_DMX_INPUT		*	*
ROBE_WIRELESS_UNLINK		*	

[2]...Commands relative resetable values

RDM model IDs for the Robin Footsies:

Footsie 1 RGBW: 0x0139
Footsie 1 TW: 0x013b
Footsie 2 RGBW: 0x013a
Footsie 2 TW: 0x013c

9. NFC

The fixture supports NFC. Using the mobile phone application ROBE COM you can read and set the Robin Footsie parameters (DMX address, display, white point...etc.), get information about temperatures, operation hours, RDM identification etc.

The NFC point is situated on the front panel of the fixture.

Download and install the ROBE COM from Google Play (for Android 5.0 and higher) or App Store (for iOS 12.0 and higher) to your mobile phone. Your mobile phone has to support NFC (Near-Field Communication).
Hold the mobile phone on the side of the fixture base, if NFC connection is OK, discovered fixture will appear on the screen, after touching the fixture name the following the following menu items will appear:

DMX/RDM settings
Colour settings
Display settings
Standalone settings
Other settings
Software versions
Device hours
Device temperatures

Touch desired menu item to enter its submenu.

10. Error and information messages

Red Shrt
The message informs you that short circuit has occurred in the red LEDs circuit on the LEDs PCB.

Green Shrt
The message informs you that short circuit has occurred in the green LEDs circuit on the LEDs PCB.

Blue Shrt
The message informs you that short circuit has occurred in the blue LEDs circuit on the LEDs PCB.

White Shrt
The message informs you that short circuit has occurred in the white LEDs circuit on the LEDs PCB.

Red Unp
The message informs you that red LEDs circuit has been interrupted on the LEDs PCB.

Green Unp
The message informs you that green LEDs circuit has been interrupted on the LEDs PCB.

Blue Unp
The message informs you that blue LEDs circuit has been interrupted on the LEDs PCB.

White Unp
The message informs you that white LEDs circuit has been interrupted on the LEDs PCB.

11. Technical Specifications

Electrical

Power supply: electronic auto-ranging
Input voltage range: 100-240V, 50-60Hz
Max. power consumption:
- Footsie 1: 45W max. (power factor 0.96)
- Footsie 2: 85W:max. (power factor 0.96)

Optic

Light source:
- Footsie 1: 24 x RGBW or WW or TW LED single chips
- Footsie 2: 48 x RGBW or WW or TW LED single chips

CRI:
- WW version: 90+
- TW version: 70+
- RGBW version: 70+

Optional diffusers: medium or wide frost filters
LED life expectancy: min. 50.000 hours
Typical lumen maintenance: L70/B50 @ 50.000 hours

Colour mixing mode

RGBW or CMY (RGBW version only)

Virtual colour wheel (RGBW version)

66 preset colours
CTC in range of 2700K-8000K
Rainbow effect with in both directions with variable speed

Number of individually controllable zones

Footsie 1: 2
Footsie 1: 4

Beam angle

Footsie 1: asymmetrical field angle 55° x 50°
Footsie 2: asymmetrical field angle 55° x 50°

Strobe

Strobe effect with variable speed (0.3 - 20Hz)

Dimmer

Smooth dimmer from 0 - 100 %

Control

2-row display and four touch buttons for fixture setting and addressing
NFC app controller
Readout fixture and LED module usage, receiving DMX values, temperatures, etc
Built-in analyzer for easy fault finding, error messages
Built-in demo sequences
Individual zone control
Stand-alone operation
3 user editable programs, each up to 40 steps
Supported protocols: USITT DMX 512, RDM
Support of RDM (Remote Device Management)
DMX control channels:1
- Footsie 1: 28 (RGBW), 16 (TW), 11 (WW)
- Footsie 2: 36 (RGBW), 20 (TW), 13 (WW)

Wireless DMX/RDM module (type RW 001)

Supported protocols: full RDM support, CRMX , W-DMX™ G2, G3,G4 and G4S
Operational frequency range: 2402-2480 MHz
Output power: 100 mW
Receiver sensitivity (0.1% BER): -93 dBm
Crystal Clock Frequency : 16.0 MHz
Contains FCC ID: 2A6PL-DMXRDMRW001
Contains IC: 29573-DMXRDMRW001

Connection

DMX data IN/OUT: IP65 Locking 5-pin XLR connectors on cables
AC power IN/OUT: IP65 Neutrik powerCON TRUE1

Temperatures

Maximum ambient temperature: +45° C
Minimum ambient temperature:-20°C
Maximum housing temperature: +50° C

Minimum distances

Min. distance from flammable surfaces: 0.1 m
Min. distance to lighted object: 0.2 m

Cooling system

Convection

Total heat dissipation

Footsie 1: 115 BTU/hr (calculated)
Footsie 2: 218 BTU/hr (calculated)

Ingress protection

IP65

IK Rating

IK06 (without diffuser)

Included items

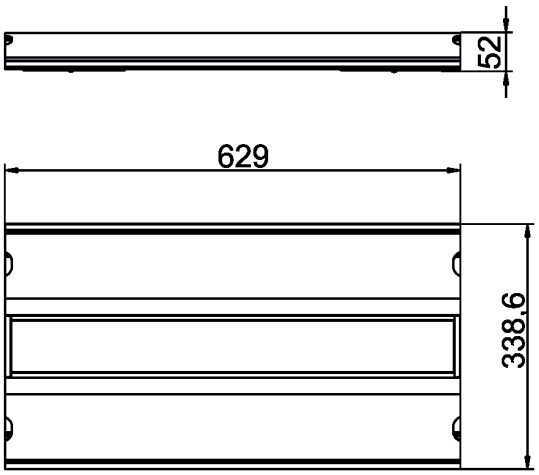
1 x power cable (IP65 rating)
1 x user manual

Weight

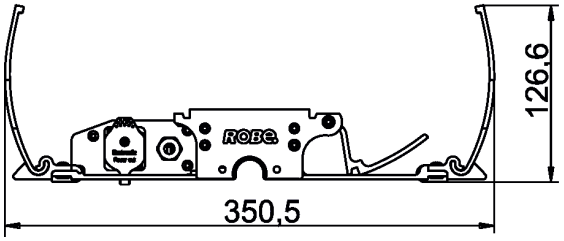
Footsie 1: 9.4 kg (20.7 lbs), 10.6 (23.4 lbs) with diffuser
Footsie 2: 17.1 kg (37.7 lbs), 19.7 kg (43.4 lbs) with diffuser

Dimensions (mm)

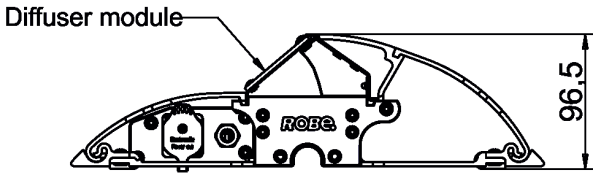
Footsie 1



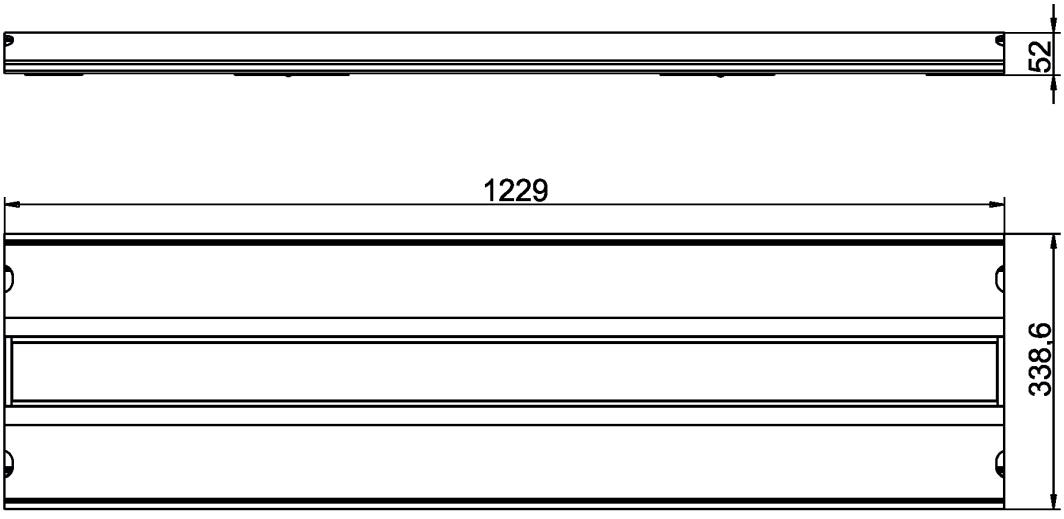
Top covers in open position



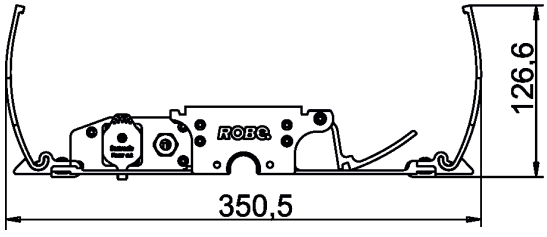
Fixture with diffuser



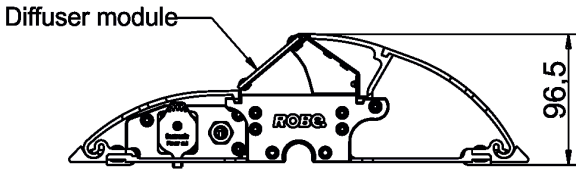
Footsie 2



Top covers in open position



Fixture with diffuser



Accessories

1 x Jumper Cable

Optional accessories

Angled corner 15° Footsie1/2 (P/N 10980827)
Angled corner 30° Footsie1/2 (P/N 10980828)
Angled corner 60° Footsie1/2 (P/N 10980829)
Angled corner 90° Footsie1/2 (P/N 10980830)
End cap Footsie1/2 (P/N 10980831)
Diffusion filter medium for Footsie 1: (P/N 10980820)
Diffusion filter wide for Footsie 1: (P/N 10980822)
Diffusion filter medium for Footsie 2: (P/N 10980821)
Diffusion filter wide for Footsie 2: (P/N 10980823)

May 25, 2023

Made in CZECH REPUBLIC by ROBE LIGHTING s.r.o. Palackeho 416/20 CZ 75701 Valasske Mezirici

Robin Footsie™1 RGBW - DMX protocol

Version: 1.2 Mode 1-Standard 16-bit

Mode/Total channels **1/28**	**DMX Value**	**Function**	**Type of control**
1		**Power/Special functions**	
	0 - 9	Reserved (0=default)	
		To activate following functions, stop in DMX value for at least 3 s and shutter must be closed at least 3 sec. („Shutter,Strobe" channel 18 must be at range: 0-31 DMX). Corresponding menu items are temporarily overriden.	
	10-14	DMX input: Wired DMX *	step
	15-19	DMX input: Wireless DMX *	step
		* function is active only 10 seconds after switching the fixture on	
	20-24	RGBW colour mixing mode	step
	25-29	CMY colour mixing mode	step
	30-34	White point 8000K On	step
	35-39	White point 8000K Off	step
	40-59	Reserved	
	60-64	Dimmer curve - square law	step
	65-69	Dimmer curve - linear	step
	70-79	Reserved	
	80-84	Blue positional light On	step
	85-89	Blue positional light Off	step
	90-129	Reserved	
		To activate following functions, stop in DMX value for at least 3 seconds. Corresponding menu items are temporarily overriden.	
	130-169	Reserved	
		Tungsten effect simulation for whites 2700K-4200K	
	170-171	Tungsten effect simulation (750W) On	step
	172-173	Tungsten effect simulation (1000W) On	step
	174-175	Tungsten effect simulation (1200W) On	step
	176-177	Tungsten effect simulation (2000W) On	step
	178-179	Tungsten effect simulation (2500W) On	step
	180-181	Tungsten effect simulation Off	step
	182-255	Reserved	
2		**LED frequency selection**	
		Factory display menu setting: 600Hz	
		Select PWM output frequency of LEDs. Selected PWM frequency can be fine adjusted in 127 steps up/down around selected PWM frequency on the channel below. Corresponding menu item (Frequency Setup) is temporarily overridden.	
	0-4	PWM frequency from Display menu (fixture utilizes PWM	step
		frequency set in the display menu item Frequency Setup).	
	5-9	300 Hz	step
	10-14	600 Hz (10=default)	step
	15-19	1200 Hz	step
	20-24	2400 Hz	step
	25-29	High	step
	30-255	Reserved (fixture utilizes PWM frequency set in the display menu item	
		Frequency Setup).	
3		**LED frequency fine adjusting**	

Mode/Total channels **1/28**	**DMX Value**	**Function**	**Type of control**
		Factory display menu setting: 600Hz	
		Select desired PWM output frequency of LEDs on the channel above .	
	0-1	Selected LED Frequency	step
	2	LED Frequency (step -126)	step
	3	LED Frequency (step -125)	step
	4	LED Frequency (step -124)	step
	:		
	125	LED Frequency (step -3)	step
	126	LED Frequency (step -2)	step
	127	LED Frequency (step -1)	step
	128	Selected LED Frequency (128=default)	step
	129	LED Frequency (step +1)	step
	130	LED Frequency (step +2)	step
	131	LED Frequency (step +3)	step
	:		
	252	LED Frequency (step +124)	step
	253	LED Frequency (step +125)	step
	254	LED Frequency (step +126)	step
	255	Selected LED Frequency	step
4		**Virtual colour wheel -all zones**	
	0	No function (0=default)	step
	1-2	Filter 4 (Medium Bastard Amber)	step
	3-4	Filter 25 (Sunset Red)	step
	5-6	Filter 19 (Fire)	step
	7-8	Filter 26 (Bright Red)	step
	9-10	Filter 58 (Lavender)	step
	11-12	Filter 68 (Sky Blue)	step
	13-14	Filter 36 (Medium Pink)	step
	15-16	Filter 89 (Moss Green)	step
	17-18	Filter 88 (Lime Green)	step
	19-20	Filter 90 (Dark Yellow Green)	step
	21-22	Filter 49 (Medium Purple)	step
	23-24	Filter 52 (Light Lavender)	step
	25-26	Filter 102 (Light Amber)	step
	27-28	Filter 103 (Straw)	step
	29-30	Filter 140 (Summer Blue)	step
	31-32	Filter 124 (Dark Green)	step
	33-34	Filter 106 (Primary Red)	step
	35-36	Filter 111 (Dark Pink)	step
	37-38	Filter 115 (Peacock Blue)	step
	39-40	Filter 126 (Mauve)	step
	41-42	Filter 117 (Steel Blue)	step
	43-44	Filter 118 (Light Blue)	step
	45-46	Filter 122 (Fern Green)	step
	47-48	Filter 182 (Light Red)	step
	49-50	Filter 121 (Filter Green)	step
	51-52	Filter 128 (Bright Pink)	step
	53-54	Filter 131 (Marine Blue)	step
	55-56	Filter 132 (Medium Blue)	step

Mode/Total channels **1/28**	**DMX Value**	**Function**	**Type of control**
	57-58	Filter 134 (Golden Amber)	step
	59-60	Filter 135 (Deep Golden Amber)	step
	61-62	Filter 136 (Pale Lavender)	step
	63-64	Filter 137 (Special Lavender)	step
	65-66	Filter 138 (Pale Green)	step
	67-68	Filter 798 (Chrysalis Pink)	step
	69-70	Filter 141 (Bright Blue)	step
	71-72	Filter 147 (Apricot)	step
	73-74	Filter 148 (Bright Rose)	step
	75-76	Filter 152 (Pale Gold)	step
	77-78	Filter 154 (Pale Rose)	step
	79-80	Filter 157 (Pink)	step
	81-82	Filter 143 (Pale Navy Blue)	step
	83-84	Filter 162 (Bastard Amber)	step
	85-86	Filter 164 (Flame Red)	step
	87-88	Filter 165 (Daylight Blue)	step
	89-90	Filter 169 (Lilac Tint)	step
	91-92	Filter 170 (Deep Lavender)	step
	93-94	Filter 172 (Lagoon Blue)	step
	95-96	Filter 194 (Surprise Pink)	step
	97-98	Filter 180 (Dark Lavender)	step
	99-100	Filter 181 (Congo Blue)	step
	101-102	Filter 197 (Alice Blue)	step
	103-104	Filter 201 (Full C.T. Blue)	step
	105-106	Filter 202 (Half C.T. Blue)	step
	107-108	Filter 203 (Quarter C.T. Blue)	step
	109-110	Filter 204 (Full C.T. Orange)	step
	111-112	Filter 219 (Fluorescent Green)	step
	113-114	Filter 206 (Quarter C.T. Orange)	step
	115-116	Filter 247 (Filter Minus Green)	step
	117-118	Filter 248 (Half Minus Green)	step
	119-120	Filter 281 (Three Quarter C.T. Blue)	step
	121-122	Filter 285 (Three Quarter C.T. Orange)	step
	123-124	Filter 352 (Glacier Blue)	step
	125-126	Filter 353 (Lighter Blue)	step
	127-128	Filter 507 (Madge)	step
	129-130	Filter 778 (Millennium Gold)	step
	131-132	Filter 793 (Vanity Fair)	step
	133-235	Raw DMX	proportional
	236-245	Rainbow effect (with fade time) from slow-> fast	proportional
	246-255	Rainbow effect (without fade time) from slow-> fast	proportional
5		**Red/Cyan (8 bit)* - all zones**	
	0 - 255	Colour saturation control coarse 0-100% (255=default)	proportional
6		**Red/Cyan (16bit)* - all zones**	
	0 - 255	Colour saturation control fine (255=default)	proportional
7		**Green/Magenta (8 bit)* - all zones**	
	0 - 255	Colour saturation control coarse 0-100% (255=default)	proportional
8		**Green/Magenta (16bit)*- all zones**	
	0 - 255	Colour saturation control fine (255=default)	proportional

Mode/Total channels **1/28**	**DMX Value**	**Function**	**Type of control**
9		**Blue/Yellow (8 bit)*- all zones**	
	0 - 255	Colour saturation control coarse 0-100% (255=default)	proportional
10		**Blue/ Yellow (16bit)* - all zones**	
	0 - 255	Colour saturation control fine (255=default)	proportional
11		**White (8 bit)* - all zones**	
		If RGBW mode is selected:	
	0-255	Colour saturation control coarse 0-100% (255=default)	proportional
		If CMY mode is selected:	
	0 - 255	No function	
12		**White (16 bit)* - all zones**	
	0 - 255	Colour saturation control fine (255=default)	proportional
13		**CTO (all zones)**	
		If function "White Point 8000K" is On:	
	0-255	Col. temperature correction from 8000K to 2700K -for whites only	proportional
		(0=8000K, 64=5600K, 128=4200K, 192=3200K, 255=2700K)	
		To get colour temperatures stated above, RGBW channels have to be set at the same value e.g. 255DMX (0=default)	
		If function "White Point 8000K" is Off:	
	0-255	*Colour temperature correction for from cool white to 2700K*	proportional
14		**Green correction - all zones**	
	0	Uncorrected white	step
	1-127	Minus green --> uncorrected white	proportional
	128	Uncorrected white (128=default)	step
	129-255	Uncorrected white --> Plus green	proportional
15		**Colour Mix control**	
		Defines relation between Virtual Colour wheel and Colour channels	
		"Virtual" = Virtual Colour Wheel	
		"Colour mix" = Colour channels (CMY/RGBW/CTO)	
	0-9	"Virtual " has priority over "Colour mix" (0=default)	
	10-19	Maximum mode (highest values have priority)	step
	20-29	Minimum mode (lowest values have priority)	step
	30-39	Multiply mode (multiply "Virtual" and "Colour mix")	step
	40-49	Addition mode ("Virtual" + "Colour mix")	step
	50-59	Subtraction mode ("Virtual" – "Colour mix")	step
	60-69	Inverted Subtraction mode ("Colour mix"-"Virtual")	step
	70-79	White Point Off (CTO+Green Cor.+Virtual Colour Wheel deactivated)	step
	80-128	Reserved	
	129	Crossfade "Virtual" only	step
	130-254	Crossfade between "Virtual" and "Colour mix"	proportional
	255	Crossfade "Colour mix" only	step
16		**Colour Mix control zones**	
		The channel defines relation between Virtual colour wheel + Colour channels and zones	
		"Global" = Global Colours (RGBW/CMY colours, Virtual Colour Wheel, CTO)	
		"Pixel" = Zone Colours (RGBW individual zones)	
	0-9	Global colours (Global has priority)	step
	10-19	Maximum mode (highest values have priority)	step
	20-29	Minimum mode (lowest values have priority)	step
	30-39	Multiply mode (multiply Global and Pixel)	step
	40-49	Addition mode (Global + Pixel) (45=default)	step

Mode/Total channels **1/28**	**DMX Value**	**Function**	**Type of control**
	50-59	Subtraction mode (Global – Pixel)	step
	60-69	Inverted Subtraction mode (Pixel – Global)	step
	70-127	Raw DMX	proportional
	128	Global colours only (Global has priority)	step
	129-254	Crossfade (crossfade between Global and Pixel)	proportional
	255	Zone colours ("Pixel" has priority)	step
17		**Blue positional light**	
	0 - 128	Blue LED intensity 0-100% (128=default)	proportional
	129 - 150	Blue LED pulsing from slow to fast	proportional
	151- 255	Reserved	
18		**Shutter/ strobe -all zones**	
	0 - 31	Shutter closed	step
	32 - 63	Shutter open (32=default)	step
	64 - 95	Strobe-effect from slow to fast	proportional
	96 - 127	Shutter open	step
	128 - 143	Opening pulse in sequences from slow to fast	proportional
	144 - 159	Closing pulse in sequences from fast to slow	proportional
	160 - 191	Shutter open	step
	192 - 223	Random strobe-effect from slow to fast	proportional
	224 - 255	Shutter open	step
19		**Dimmer intensity (8 bit) - all zones**	
	0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
20		**Dimmer intensity fine (16 bit) - all zones**	
	0 - 255	Fine dimming (0=default)	proportional
21		**Red zone 1**	
	0-255	Red LEDs saturation control 0-100% (0=default)	proportional
22		**Green zone 1**	
	0-255	Green LEDs saturation control 0-100% (0=default)	proportional
23		**Blue zone 1**	
	0-255	Blue LEDs saturation control 0-100% (0=default)	proportional
24		**White zone 1**	
	0-255	White LEDs saturation control 0-100% (0=default)	proportional
25		**Red zone 2**	
	0-255	Red LEDs saturation control 0-100% (0=default)	proportional
26		**Green zone 2**	
	0-255	Green LEDs saturation control 0-100% (0=default)	proportional
27		**Blue zone 2**	
	0-255	Blue LEDs saturation control 0-100% (0=default)	proportional
28		**White zone 2**	
	0-255	White LEDs saturation control 0-100% (0=default)	proportional

*Select RGBW or CMY mixing mode on channel "Power/Special functions" .

Robin Footsie™1 Tunable White - DMX protocol

Version: 1.1 Mode 1-Standard 16-bit

Mode/Total channels **1/16**	**DMX Value**	**Function**	**Type of control**
1		**Power/Special functions**	
	0 - 9	Reserved (0=default)	
		To activate following functions, stop in DMX value for at least 3 s and shutter must be closed at least 3 sec. („Shutter,Strobe" channel 10 must be at range: 0-31 DMX). Corresponding menu items are temporarily overriden.	
	10-14	DMX input: Wired DMX *	step
	15-19	DMX input: Wireless DMX *	step
		* function is active only 10 seconds after switching the fixture on	
	20-59	Reserved	
	60-64	Dimmer curve - square law	step
	65-69	Dimmer curve - linear	step
	70-79	Reserved	
	80-84	Blue positional light On	step
	85-89	Blue positional light Off	step
	90-255	Reserved	
2		**LED frequency selection**	
		Factory display menu setting: 600Hz	
		Select PWM output frequency of LEDs. Selected PWM frequency can be fine adjusted in 127 steps up/down around selected PWM frequency on the channel below. Corresponding menu item (Frequency Setup) is temporarily overridden.	
	0-4	PWM frequency from Display menu (fixture utilizes PWM	step
		frequency set in the display menu item Frequency Setup).	
	5-9	300 Hz	step
	10-14	600 Hz (10=default)	step
	15-19	1200 Hz	step
	20-24	2400 Hz	step
	25-29	High	step
	30-255	Reserved (fixture utilizes PWM frequency set in the display menu item	
		Frequency Setup).	
3		**LED frequency fine adjusting**	
		Factory display menu setting: 600Hz	
		Select desired PWM output frequency of LEDs on the channel above.	
	0-1	Selected LED Frequency	step
	2	LED Frequency (step -126)	step
	3	LED Frequency (step -125)	step
	4	LED Frequency (step -124)	step
	:		
	125	LED Frequency (step -3)	step
	126	LED Frequency (step -2)	step
	127	LED Frequency (step -1)	step
	128	Selected LED Frequency (128=default)	step
	129	LED Frequency (step +1)	step
	130	LED Frequency (step +2)	step
	131	LED Frequency (step +3)	step
	:		

Mode/Total channels **1/16**	**DMX Value**	**Function**	**Type of control**
	252	LED Frequency (step +124)	step
	253	LED Frequency (step +125)	step
	254	LED Frequency (step +126)	step
	255	Selected LED Frequency	step
4		**Virtual colour wheel -all pixels**	
	0	No function (0=default)	step
	1-2	White 3200K	step
	3-4	White 3800K	step
	5-6	White 4200K	step
	7-8	White 4600K	step
	9-10	White 5000K	step
	11-12	White 5600K	step
	13-14	White 6300K	step
	15-16	White 6500K	step
	17-255	Warm white --> Cool white	proportional
5		**Warm white (8 bit) - all zones**	
	0 - 255	Colour saturation control coarse 0-100% (255=default)	proportional
6		**Warm white (16bit) - all zones**	
	0 - 255	Colour saturation control fine (255=default)	proportional
7		**Cool white (8 bit) - all zones**	
	0 - 255	Colour saturation control coarse 0-100% (255=default)	proportional
8		**Cool white (16bit)- all zones**	
	0 - 255	Colour saturation control fine (255=default)	proportional
9		**Blue positional light**	
	0 - 128	Blue LED intensity 0-100% (128=default)	proportional
	129 - 150	Blue LED pulsing from slow to fast	proportional
	151- 255	Reserved	
10		**Shutter/ strobe -all zones**	
	0 - 31	Shutter closed	step
	32 - 63	Shutter open (32=default)	step
	64 - 95	Strobe-effect from slow to fast	proportional
	96 - 127	Shutter open	step
	128 - 143	Opening pulse in sequences from slow to fast	proportional
	144 - 159	Closing pulse in sequences from fast to slow	proportional
	160 - 191	Shutter open	step
	192 - 223	Random strobe-effect from slow to fast	proportional
	224 - 255	Shutter open	step
11		**Dimmer intensity (8 bit) - all zones**	
	0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
12		**Dimmer intensity - fine (16 bit) - all zones**	
	0 - 255	Fine dimming (0=default)	proportional
13		**Warm white zone 1**	
	0-255	LEDs saturation control 0-100% (0=default)	proportional
14		**Cool white zone 1**	
	0-255	LEDs saturation control 0-100% (0=default)	proportional
15		**Warm white zone 2**	
	0-255	LEDs saturation control 0-100% (0=default)	proportional
16		**Cool white zone 2**	
	0-255	LEDs saturation control 0-100% (0=default)	proportional

Mode/Total channels **1/16**	**DMX Value**	**Function**	**Type of control**
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Robin Footsie™1 Warm White - DMX protocol

Version: 1.2 Mode 1-Standard 16-bit

Mode/Total channels **1/11**	**DMX Value**	**Function**	**Type of control**
1		**Power/Special functions**	
	0 - 9	Reserved (0=default)	
		To activate following functions, stop in DMX value for at least 3 s and shutter must be closed at least 3 sec. („Shutter,Strobe" channel 7 must be at range: 0-31 DMX). Corresponding menu items are temporarily overriden.	
	10-14	DMX input: Wired DMX *	step
	15-19	DMX input: Wireless DMX *	step
		* function is active only 10 seconds after switching the fixture on	
	20-59	Reserved	
	60-64	Dimmer curve - square law	step
	65-69	Dimmer curve - linear	step
	70-79	Reserved	
	80-84	Blue positional light On	step
	85-89	Blue positional light Off	step
	90-255	Reserved	
2		**LED frequency selection**	
		Factory display menu setting: 600Hz	
		Select PWM output frequency of LEDs. Selected PWM frequency can be fine adjusted in 127 steps up/down around selected PWM frequency on the channel below. Corresponding menu item (Frequency Setup) is temporarily overridden.	
	0-4	PWM frequency from Display menu (fixture utilizes PWM	step
		frequency set in the display menu item Frequency Setup).	
	5-9	300 Hz	step
	10-14	600 Hz (10=default)	step
	15-19	1200 Hz	step
	20-24	2400 Hz	step
	25-29	High	step
	30-255	Reserved (fixture utilizes PWM frequency set in the display menu item	
		Frequency Setup).	
3		**LED frequency fine adjusting**	
		Factory display menu setting: 600Hz	
		Select desired PWM output frequency of LEDs on the channel above.	
	0-1	Selected LED Frequency	step
	2	LED Frequency (step -126)	step
	3	LED Frequency (step -125)	step
	4	LED Frequency (step -124)	step
	:		
	125	LED Frequency (step -3)	step
	126	LED Frequency (step -2)	step
	127	LED Frequency (step -1)	step
	128	Selected LED Frequency (128=default)	step
	129	LED Frequency (step +1)	step
	130	LED Frequency (step +2)	step
	131	LED Frequency (step +3)	step
	:		

Mode/Total channels **1/11**	**DMX Value**	**Function**	**Type of control**
	252	LED Frequency (step +124)	step
	253	LED Frequency (step +125)	step
	254	LED Frequency (step +126)	step
	255	Selected LED Frequency	step
4		**Warm white (8 bit) - all zones**	
	0 - 255	Colour saturation control coarse 0-100% (255=default)	proportional
5		**Warm white (16bit) - all zones**	
	0 - 255	Colour saturation control fine (255=default)	proportional
6		**Blue positional light**	
	0 - 128	Blue LED intensity 0-100% (128=default)	proportional
	129 - 150	Blue LED pulsing from slow to fast	proportional
	151- 255	Reserved	
7		**Shutter/ strobe -all zones**	
	0 - 31	Shutter closed	step
	32 - 63	Shutter open (32=default)	step
	64 - 95	Strobe-effect from slow to fast	proportional
	96 - 127	Shutter open	step
	128 - 143	Opening pulse in sequences from slow to fast	proportional
	144 - 159	Closing pulse in sequences from fast to slow	proportional
	160 - 191	Shutter open	step
	192 - 223	Random strobe-effect from slow to fast	proportional
	224 - 255	Shutter open	step
8		**Dimmer intensity (8 bit) - all zones**	
	0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
9		**Dimmer intensity - fine (16 bit) - all zones**	
	0 - 255	Fine dimming (0=default)	proportional
10		**Warm white zone 1**	
	0-255	LEDs saturation control 0-100% (0=default)	proportional
11		**Warm white zone 2**	
	0-255	LEDs saturation control 0-100% (0=default)	proportional

Robin Footsie™2 RGBW - DMX protocol

Version: 1.2 Mode 1-Standard 16-bit

Mode/Total channels **1/**36	**DMX Value**	**Function**	**Type of control**
1		**Power/Special functions**	
	0 - 9	Reserved (0=default)	
		To activate following functions, stop in DMX value for at least 3 s and shutter must be closed at least 3 sec. („Shutter,Strobe" channel 18 must be at range: 0-31 DMX). Corresponding menu items are temporarily overriden.	
	10-14	DMX input: Wired DMX *	step
	15-19	DMX input: Wireless DMX *	step
		* function is active only 10 seconds after switching the fixture on	
	20-24	RGBW colour mixing mode	step
	25-29	CMY colour mixing mode	step
	30-34	White point 8000K On	step
	35-39	White point 8000K Off	step
	40-59	Reserved	
	60-64	Dimmer curve - square law	step
	65-69	Dimmer curve - linear	step
	70-79	Reserved	
	80-84	Blue positional light On	step
	85-89	Blue positional light Off	step
	90-129	Reserved	
		To activate following functions, stop in DMX value for at least 3 seconds. Corresponding menu items are temporarily overriden.	
	130-169	Reserved	
		Tungsten effect simulation for whites 2700K-4200K	
	170-171	Tungsten effect simulation (750W) On	step
	172-173	Tungsten effect simulation (1000W) On	step
	174-175	Tungsten effect simulation (1200W) On	step
	176-177	Tungsten effect simulation (2000W) On	step
	178-179	Tungsten effect simulation (2500W) On	step
	180-181	Tungsten effect simulation Off	step
	182-255	Reserved	
2		**LED frequency selection**	
		Factory display menu setting: 600Hz	
		Select PWM output frequency of LEDs. Selected PWM frequency can be fine adjusted in 127 steps up/down around selected PWM frequency on the channel below. Corresponding menu item (Frequency Setup) is temporarily overridden.	
	0-4	PWM frequency from Display menu (fixture utilizes PWM	step
		frequency set in the display menu item Frequency Setup).	
	5-9	300 Hz	step
	10-14	600 Hz (10=default)	step
	15-19	1200 Hz	step
	20-24	2400 Hz	step
	25-29	High	step
	30-255	Reserved (fixture utilizes PWM frequency set in the display menu item	
		Frequency Setup).	
3		**LED frequency fine adjusting**	

Mode/Total channels **1/**36	**DMX Value**	**Function**	**Type of control**
		Factory display menu setting: 600Hz	
		Select desired PWM output frequency of LEDs on the channel above .	
	0-1	Selected LED Frequency	step
	2	LED Frequency (step -126)	step
	3	LED Frequency (step -125)	step
	4	LED Frequency (step -124)	step
	:		
	125	LED Frequency (step -3)	step
	126	LED Frequency (step -2)	step
	127	LED Frequency (step -1)	step
	128	Selected LED Frequency (128=default)	step
	129	LED Frequency (step +1)	step
	130	LED Frequency (step +2)	step
	131	LED Frequency (step +3)	step
	:		
	252	LED Frequency (step +124)	step
	253	LED Frequency (step +125)	step
	254	LED Frequency (step +126)	step
	255	Selected LED Frequency	step
4		**Virtual colour wheel -all zones**	
	0	No function (0=default)	step
	1-2	Filter 4 (Medium Bastard Amber)	step
	3-4	Filter 25 (Sunset Red)	step
	5-6	Filter 19 (Fire)	step
	7-8	Filter 26 (Bright Red)	step
	9-10	Filter 58 (Lavender)	step
	11-12	Filter 68 (Sky Blue)	step
	13-14	Filter 36 (Medium Pink)	step
	15-16	Filter 89 (Moss Green)	step
	17-18	Filter 88 (Lime Green)	step
	19-20	Filter 90 (Dark Yellow Green)	step
	21-22	Filter 49 (Medium Purple)	step
	23-24	Filter 52 (Light Lavender)	step
	25-26	Filter 102 (Light Amber)	step
	27-28	Filter 103 (Straw)	step
	29-30	Filter 140 (Summer Blue)	step
	31-32	Filter 124 (Dark Green)	step
	33-34	Filter 106 (Primary Red)	step
	35-36	Filter 111 (Dark Pink)	step
	37-38	Filter 115 (Peacock Blue)	step
	39-40	Filter 126 (Mauve)	step
	41-42	Filter 117 (Steel Blue)	step
	43-44	Filter 118 (Light Blue)	step
	45-46	Filter 122 (Fern Green)	step
	47-48	Filter 182 (Light Red)	step
	49-50	Filter 121 (Filter Green)	step
	51-52	Filter 128 (Bright Pink)	step
	53-54	Filter 131 (Marine Blue)	step
	55-56	Filter 132 (Medium Blue)	step

Mode/Total channels **1/**36	**DMX Value**	**Function**	**Type of control**
	57-58	Filter 134 (Golden Amber)	step
	59-60	Filter 135 (Deep Golden Amber)	step
	61-62	Filter 136 (Pale Lavender)	step
	63-64	Filter 137 (Special Lavender)	step
	65-66	Filter 138 (Pale Green)	step
	67-68	Filter 798 (Chrysalis Pink)	step
	69-70	Filter 141 (Bright Blue)	step
	71-72	Filter 147 (Apricot)	step
	73-74	Filter 148 (Bright Rose)	step
	75-76	Filter 152 (Pale Gold)	step
	77-78	Filter 154 (Pale Rose)	step
	79-80	Filter 157 (Pink)	step
	81-82	Filter 143 (Pale Navy Blue)	step
	83-84	Filter 162 (Bastard Amber)	step
	85-86	Filter 164 (Flame Red)	step
	87-88	Filter 165 (Daylight Blue)	step
	89-90	Filter 169 (Lilac Tint)	step
	91-92	Filter 170 (Deep Lavender)	step
	93-94	Filter 172 (Lagoon Blue)	step
	95-96	Filter 194 (Surprise Pink)	step
	97-98	Filter 180 (Dark Lavender)	step
	99-100	Filter 181 (Congo Blue)	step
	101-102	Filter 197 (Alice Blue)	step
	103-104	Filter 201 (Full C.T. Blue)	step
	105-106	Filter 202 (Half C.T. Blue)	step
	107-108	Filter 203 (Quarter C.T. Blue)	step
	109-110	Filter 204 (Full C.T. Orange)	step
	111-112	Filter 219 (Fluorescent Green)	step
	113-114	Filter 206 (Quarter C.T. Orange)	step
	115-116	Filter 247 (Filter Minus Green)	step
	117-118	Filter 248 (Half Minus Green)	step
	119-120	Filter 281 (Three Quarter C.T. Blue)	step
	121-122	Filter 285 (Three Quarter C.T. Orange)	step
	123-124	Filter 352 (Glacier Blue)	step
	125-126	Filter 353 (Lighter Blue)	step
	127-128	Filter 507 (Madge)	step
	129-130	Filter 778 (Millennium Gold)	step
	131-132	Filter 793 (Vanity Fair)	step
	133-235	Raw DMX	proportional
	236-245	Rainbow effect (with fade time) from slow-> fast	proportional
	246-255	Rainbow effect (without fade time) from slow-> fast	proportional
5		**Red/Cyan (8 bit)* - all zones**	
	0 - 255	Colour saturation control coarse 0-100% (255=default)	proportional
6		**Red/Cyan (16bit)* - all zones**	
	0 - 255	Colour saturation control fine (255=default)	proportional
7		**Green/Magenta (8 bit)* - all zones**	
	0 - 255	Colour saturation control coarse 0-100% (255=default)	proportional
8		**Green/Magenta (16bit)*- all zones**	
	0 - 255	Colour saturation control fine (255=default)	proportional

Mode/Total channels **1/**36	**DMX Value**	**Function**	**Type of control**
9		**Blue/Yellow (8 bit)*- all zones**	
	0 - 255	Colour saturation control coarse 0-100% (255=default)	proportional
10		**Blue/ Yellow (16bit)* - all zones**	
	0 - 255	Colour saturation control fine (255=default)	proportional
11		**White (8 bit)* - all zones**	
		If RGBW mode is selected:	
	0-255	Colour saturation control coarse 0-100% (255=default)	proportional
		If CMY mode is selected:	
	0 - 255	No function	
12		**White (16 bit)* - all zones**	
	0 - 255	Colour saturation control fine (255=default)	proportional
13		**CTO (all zones)**	
		If function "White Point 8000K" is On:	
	0-255	Col. temperature correction from 8000K to 2700K -for whites only	proportional
		(0=8000K, 64=5600K, 128=4200K, 192=3200K, 255=2700K)	
		To get colour temperatures stated above, RGBW channels have to be set at the same value e.g. 255DMX (0=default)	
		If function "White Point 8000K" is Off:	
	0-255	*Colour temperature correction for from cool white to 2700K*	proportional
14		**Green correction - all zones**	
	0	Uncorrected white	step
	1-127	Minus green --> uncorrected white	proportional
	128	Uncorrected white (128=default)	step
	129-255	Uncorrected white --> Plus green	proportional
15		**Colour Mix control**	
		Defines relation between Virtual Colour wheel and Colour channels	
		"Virtual" = Virtual Colour Wheel	
		"Colour mix" = Colour channels (CMY/RGBW/CTO)	
	0-9	"Virtual " has priority over "Colour mix" (0=default)	
	10-19	Maximum mode (highest values have priority)	step
	20-29	Minimum mode (lowest values have priority)	step
	30-39	Multiply mode (multiply "Virtual" and "Colour mix")	step
	40-49	Addition mode ("Virtual" + "Colour mix")	step
	50-59	Subtraction mode ("Virtual" – "Colour mix")	step
	60-69	Inverted Subtraction mode ("Colour mix"-"Virtual")	step
	70-79	White Point Off (CTO+Green Cor.+Virtual Colour Wheel deactivated)	step
	80-128	Reserved	
	129	Crossfade "Virtual" only	step
	130-254	Crossfade between "Virtual" and "Colour mix"	proportional
	255	Crossfade "Colour mix" only	step
16		**Colour Mix control zones**	
		The channel defines relation between Virtual colour wheel + Colour channels and zones	
		"Global" = Global Colours (RGBW/CMY colours, Virtual Colour Wheel, CTO)	
		"Pixel" = Zone Colours (RGBW individual zones)	
	0-9	Global colours (Global has priority)	step
	10-19	Maximum mode (highest values have priority)	step
	20-29	Minimum mode (lowest values have priority)	step
	30-39	Multiply mode (multiply Global and Pixel)	step
	40-49	Addition mode (Global + Pixel) (45=default)	step

Mode/Total channels **1/**36	**DMX Value**	**Function**	**Type of control**
	50-59	Subtraction mode (Global – Pixel)	step
	60-69	Inverted Subtraction mode (Pixel – Global)	step
	70-127	Raw DMX	proportional
	128	Global colours only (Global has priority)	step
	129-254	Crossfade (crossfade between Global and Pixel)	proportional
	255	Zone colours ("Pixel" has priority)	step
17		**Blue positional light**	
	0 - 128	Blue LED intensity 0-100% (128=default)	proportional
	129 - 150	Blue LED pulsing from slow to fast	proportional
	151- 255	Reserved	
18		**Shutter/ strobe -all zones**	
	0 - 31	Shutter closed	step
	32 - 63	Shutter open (32=default)	step
	64 - 95	Strobe-effect from slow to fast	proportional
	96 - 127	Shutter open	step
	128 - 143	Opening pulse in sequences from slow to fast	proportional
	144 - 159	Closing pulse in sequences from fast to slow	proportional
	160 - 191	Shutter open	step
	192 - 223	Random strobe-effect from slow to fast	proportional
	224 - 255	Shutter open	step
19		**Dimmer intensity (8 bit) - all zones**	
	0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
20		**Dimmer intensity fine (16 bit) - all zones**	
	0 - 255	Fine dimming (0=default)	proportional
21		**Red zone 1**	
	0-255	Red LEDs saturation control 0-100% (0=default)	proportional
22		**Green zone 1**	
	0-255	Green LEDs saturation control 0-100% (0=default)	proportional
23		**Blue zone 1**	
	0-255	Blue LEDs saturation control 0-100% (0=default)	proportional
24		**White zone 1**	
	0-255	White LEDs saturation control 0-100% (0=default)	proportional
25		**Red zone 2**	
	0-255	Red LEDs saturation control 0-100% (0=default)	proportional
26		**Green zone 2**	
	0-255	Green LEDs saturation control 0-100% (0=default)	proportional
27		**Blue zone 2**	
	0-255	Blue LEDs saturation control 0-100% (0=default)	proportional
28		**White zone 2**	
	0-255	White LEDs saturation control 0-100% (0=default)	proportional
29		**Red zone 3**	
	0-255	Red LED saturation control 0-100% (0=default)	proportional
30		**Green zone 3**	
	0-255	Green LEDs saturation control 0-100% (0=default)	proportional
31		**Blue zone 3**	
	0-255	Blue LEDs saturation control 0-100% (0=default)	proportional
32		**White zone 3**	
	0-255	White LEDs saturation control 0-100% (0=default)	proportional
33		**Red zone 4**	

Mode/Total channels **1/**36	**DMX Value**	**Function**	**Type of control**
	0-255	Red LEDs saturation control 0-100% (0=default)	proportional
34		**Green zone 4**	
	0-255	Green LEDs saturation control 0-100% (0=default)	proportional
35		**Blue zone 4**	
	0-255	Blue LEDs saturation control 0-100% (0=default)	proportional
36		**White zone 4**	
	0-255	White LEDs saturation control 0-100% (0=default)	proportional
*Select RGBW or CMY mixing mode on channel "Power/Special functions" .			
All Specifications subject to change without notice			

Robin Footsie™2 Tunable White - DMX protocol

Version: 1.1 Mode 1-Standard 16-bit

Mode/Total channels **1/**20	**DMX Value**	**Function**	**Type of control**
1		**Power/Special functions**	
	0 - 9	Reserved (0=default)	
		To activate following functions, stop in DMX value for at least 3 s and shutter must be closed at least 3 sec. („Shutter,Strobe" channel 10 must be at range: 0-31 DMX). Corresponding menu items are temporarily overriden.	
	10-14	DMX input: Wired DMX *	step
	15-19	DMX input: Wireless DMX *	step
		* function is active only 10 seconds after switching the fixture on	
	20-59	Reserved	
	60-64	Dimmer curve - square law	step
	65-69	Dimmer curve - linear	step
	70-79	Reserved	
	80-84	Blue positional light On	step
	85-89	Blue positional light Off	step
	90-255	Reserved	
2		**LED frequency selection**	
		Factory display menu setting: 600Hz	
		Select PWM output frequency of LEDs. Selected PWM frequency can be fine adjusted in 127 steps up/down around selected PWM frequency on the channel below. Corresponding menu item (Frequency Setup) is temporarily overridden.	
	0-4	PWM frequency from Display menu (fixture utilizes PWM	step
		frequency set in the display menu item Frequency Setup).	
	5-9	300 Hz	step
	10-14	600 Hz (10=default)	step
	15-19	1200 Hz	step
	20-24	2400 Hz	step
	25-29	High	step
	30-255	Reserved (fixture utilizes PWM frequency set in the display menu item	
		Frequency Setup).	
3		**LED frequency fine adjusting**	
		Factory display menu setting: 600Hz	
		Select desired PWM output frequency of LEDs on the channel above.	
	0-1	Selected LED Frequency	step
	2	LED Frequency (step -126)	step
	3	LED Frequency (step -125)	step
	4	LED Frequency (step -124)	step
	:		
	125	LED Frequency (step -3)	step
	126	LED Frequency (step -2)	step
	127	LED Frequency (step -1)	step
	128	Selected LED Frequency (128=default)	step
	129	LED Frequency (step +1)	step
	130	LED Frequency (step +2)	step
	131	LED Frequency (step +3)	step
	:		

Mode/Total channels **1/**20	**DMX Value**	**Function**	**Type of control**
	252	LED Frequency (step +124)	step
	253	LED Frequency (step +125)	step
	254	LED Frequency (step +126)	step
	255	Selected LED Frequency	step
4		**Virtual colour wheel -all pixels**	
	0	No function (0=default)	step
	1-2	White 3200K	step
	3-4	White 3800K	step
	5-6	White 4200K	step
	7-8	White 4600K	step
	9-10	White 5000K	step
	11-12	White 5600K	step
	13-14	White 6300K	step
	15-16	White 6500K	step
	17-255	Warm white --> Cool white	proportional
5		**Warm white (8 bit) - all zones**	
	0 - 255	Colour saturation control coarse 0-100% (255=default)	proportional
6		**Warm white (16bit) - all zones**	
	0 - 255	Colour saturation control fine (255=default)	proportional
7		**Cool white (8 bit) - all zones**	
	0 - 255	Colour saturation control coarse 0-100% (255=default)	proportional
8		**Cool white (16bit)- all zones**	
	0 - 255	Colour saturation control fine (255=default)	proportional
9		**Blue positional light**	
	0 - 128	Blue LED intensity 0-100% (128=default)	proportional
	129 - 150	Blue LED pulsing from slow to fast	proportional
	151- 255	Reserved	
10		**Shutter/ strobe -all zones**	
	0 - 31	Shutter closed	step
	32 - 63	Shutter open (32=default)	step
	64 - 95	Strobe-effect from slow to fast	proportional
	96 - 127	Shutter open	step
	128 - 143	Opening pulse in sequences from slow to fast	proportional
	144 - 159	Closing pulse in sequences from fast to slow	proportional
	160 - 191	Shutter open	step
	192 - 223	Random strobe-effect from slow to fast	proportional
	224 - 255	Shutter open	step
11		**Dimmer intensity (8 bit) - all zones**	
	0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
12		**Dimmer intensity - fine (16 bit) - all zones**	
	0 - 255	Fine dimming (0=default)	proportional
13		**Warm white zone 1**	
	0-255	LEDs saturation control 0-100% (0=default)	proportional
14		**Cool white zone 1**	
	0-255	LEDs saturation control 0-100% (0=default)	proportional
15		**Warm white zone 2**	
	0-255	LEDs saturation control 0-100% (0=default)	proportional
16		**Cool white zone 2**	
	0-255	LEDs saturation control 0-100% (0=default)	proportional

Mode/Total channels **1/**20	**DMX Value**	**Function**	**Type of control**
17		**Warm white zone 3**	
	0-255	LEDs saturation control 0-100% (0=default)	proportional
18		**Cool white zone 3**	
	0-255	LEDs saturation control 0-100% (0=default)	proportional
19		**Warm white zone 4**	
	0-255	LEDs saturation control 0-100% (0=default)	proportional
20		**Cool white zone 4**	
	0-255	LEDs saturation control 0-100% (0=default)	proportional
All Specifications subject to change without notice			

Robin Footsie™2 Warm White - DMX protocol

Version: 1.2 Mode 1-Standard 16-bit

Mode/Total channels **1/13**	**DMX Value**	**Function**	**Type of control**
1		**Power/Special functions**	
	0 - 9	Reserved (0=default)	
		To activate following functions, stop in DMX value for at least 3 s and shutter must be closed at least 3 sec. („Shutter,Strobe" channel 7 must be at range: 0-31 DMX). Corresponding menu items are temporarily overriden.	
	10-14	DMX input: Wired DMX *	step
	15-19	DMX input: Wireless DMX *	step
		* function is active only 10 seconds after switching the fixture on	
	20-59	Reserved	
	60-64	Dimmer curve - square law	step
	65-69	Dimmer curve - linear	step
	70-79	Reserved	
	80-84	Blue positional light On	step
	85-89	Blue positional light Off	step
	90-255	Reserved	
2		**LED frequency selection**	
		Factory display menu setting: 600Hz	
		Select PWM output frequency of LEDs. Selected PWM frequency can be fine adjusted in 127 steps up/down around selected PWM frequency on the channel below. Corresponding menu item (Frequency Setup) is temporarily overridden.	
	0-4	PWM frequency from Display menu (fixture utilizes PWM	step
		frequency set in the display menu item Frequency Setup).	
	5-9	300 Hz	step
	10-14	600 Hz (10=default)	step
	15-19	1200 Hz	step
	20-24	2400 Hz	step
	25-29	High	step
	30-255	Reserved (fixture utilizes PWM frequency set in the display menu item	
		Frequency Setup).	
3		**LED frequency fine adjusting**	
		Factory display menu setting: 600Hz	
		Select desired PWM output frequency of LEDs on the channel above.	
	0-1	Selected LED Frequency	step
	2	LED Frequency (step -126)	step
	3	LED Frequency (step -125)	step
	4	LED Frequency (step -124)	step
	:		
	125	LED Frequency (step -3)	step
	126	LED Frequency (step -2)	step
	127	LED Frequency (step -1)	step
	128	Selected LED Frequency (128=default)	step
	129	LED Frequency (step +1)	step
	130	LED Frequency (step +2)	step
	131	LED Frequency (step +3)	step
	:		

Mode/Total channels **1/13**	**DMX Value**	**Function**	**Type of control**
	252	LED Frequency (step +124)	step
	253	LED Frequency (step +125)	step
	254	LED Frequency (step +126)	step
	255	Selected LED Frequency	step
4		**Warm white (8 bit) - all zones**	
	0 - 255	Colour saturation control coarse 0-100% (255=default)	proportional
5		**Warm white (16bit) - all zones**	
	0 - 255	Colour saturation control fine (255=default)	proportional
6		**Blue positional light**	
	0 - 128	Blue LED intensity 0-100% (128=default)	proportional
	129 - 150	Blue LED pulsing from slow to fast	proportional
	151- 255	Reserved	
7		**Shutter/ strobe -all zones**	
	0 - 31	Shutter closed	step
	32 - 63	Shutter open (32=default)	step
	64 - 95	Strobe-effect from slow to fast	proportional
	96 - 127	Shutter open	step
	128 - 143	Opening pulse in sequences from slow to fast	proportional
	144 - 159	Closing pulse in sequences from fast to slow	proportional
	160 - 191	Shutter open	step
	192 - 223	Random strobe-effect from slow to fast	proportional
	224 - 255	Shutter open	step
8		**Dimmer intensity (8 bit) - all zones**	
	0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
9		**Dimmer intensity - fine (16 bit) - all zones**	
	0 - 255	Fine dimming (0=default)	proportional
10		**Warm white zone 1**	
	0-255	LEDs saturation control 0-100% (0=default)	proportional
11		**Warm white zone 2**	
	0-255	LEDs saturation control 0-100% (0=default)	proportional
12		**Warm white zone 3**	
	0-255	LEDs saturation control 0-100% (0=default)	proportional
13		**Warm white zone 4**	
	0-255	LEDs saturation control 0-100% (0=default)	proportional