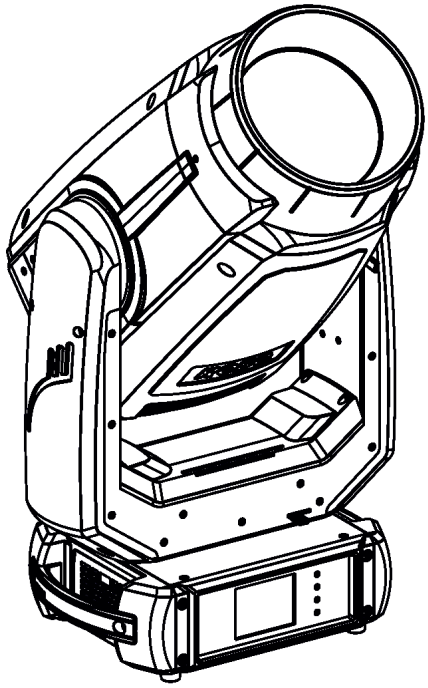
ROBIN LedPOINTE®



ROBE
Innovative
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QR code for user manual

USER MANUAL

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

Version 1.2

Robin LedPOINTE

Table of contents

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE POWERING OR INSTALLING YOUR ROBIN LedPOINTE !

Save it for future reference.

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 warning notes written 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 LedPOINTE was designed for indoor use and it is intended for professional application only. It is not for household use.

1. Safety instructions

DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT!

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.

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

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.

LED light emission. Risk of eye injury.
Do not look straight at the fixture´s LED source during operation. The intense light beam may damage your eyes. Sensitive persons may suffer an epileptic shock. Provide advance notice that strobe lighting is in use.

Do not view the light output with optical instruments or any device that may concentrate the beam.

If the fixture has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.

Avoid brute force when installing or operating the fixture.

This fixture was designed for indoor use only, do not expose this unit to rain or use near water.

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

Air vents and slots in the fixture´s head and base are provided for ventilation, to ensure reliable operation of the device and to protect it from overheating.

CAUTION! Risk group 2, RG-2

The cooling openings should never be covered with cloth or other materials, and never must be blocked.

This fixture should not be placed in a built-in installation unless proper ventilation is provided.

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

Always use a secondary safety wire when rigging this fixture.

Make sure that the area below the installation place is blocked when rigging, de-rigging or servicing the fixture.

The fixture becomes very hot during operation. Allow the fixture to cool approximately 20 minutes prior to manipulate with it.

Operate the fixture only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the fixture. Most damages are the result of unprofessional operation!

Please use the original packaging if the fixture is to be transported.

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

If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short-circuit, burns, electric shock, crash etc.

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

To avoid damage of the internal optical system of the fixture, never let the sunlight or other fixture lights directly to the front lens , even when the fixture is not working !

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*

* Wireless DMX version of the fixture only.

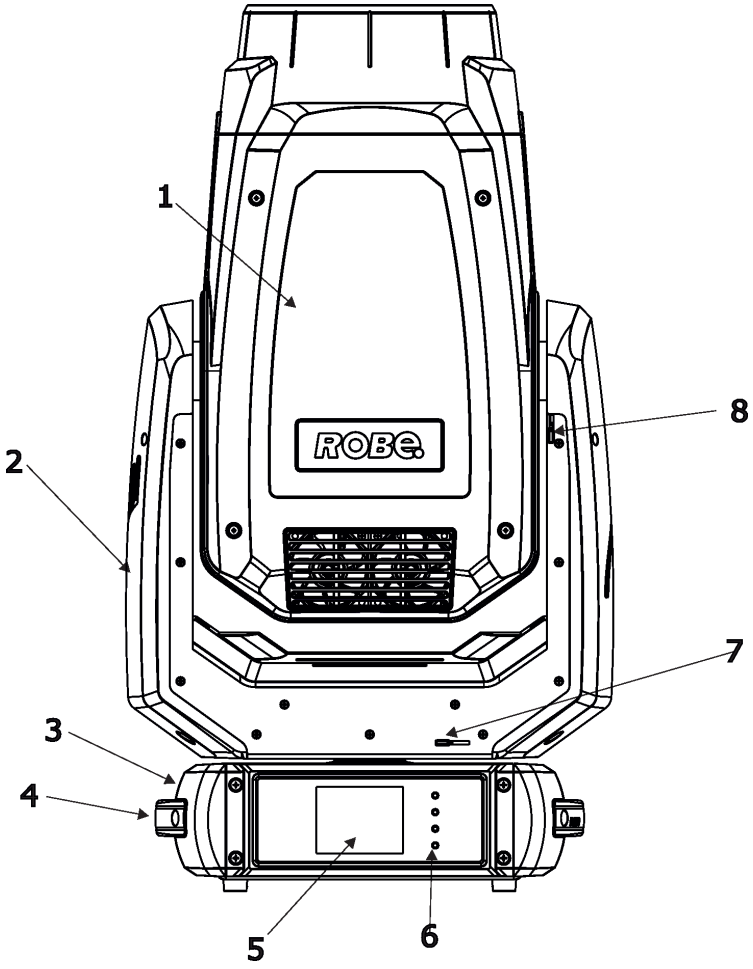
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Changes or modifications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

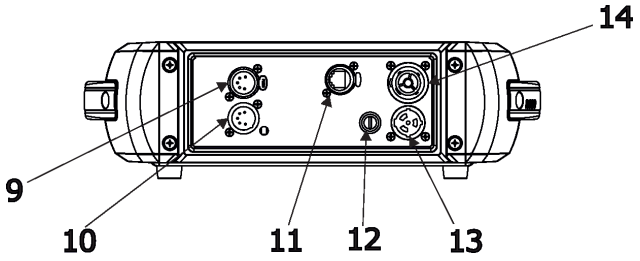
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate 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.

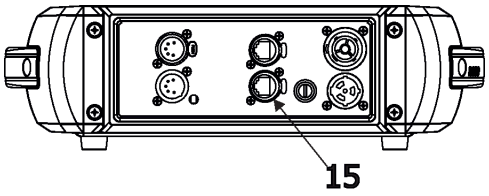
2. Fixture exterior view



Rear panel of the base



Rear panel of the base - EP version



1- Moving head
2 - Yoke
3 - Base
4 - Handle
5 - Touch screen
6 - Control buttons
7 - Pan lock
8 - Tilt lock
9 - DMX OUT (5-pin XLR)
10 - DMX IN (5-pin XLR)
11 - Ethernet IN (RJ 45)
12 - Fuse holder
13 - Mains IN (Neutrik powerCON TRUE1)
14 - Mains OUT(Neutrik powerCON TRUE1)
15 - Ethernet OUT (RJ 45) - EP version only

The head has to be locked for transportation - the pan lock latch (7) and the tilt lock latch (8) have to be in the locked positions. To unlock the head, move these latches to unlock positions before operating the fixture.

3. Installation

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

3.1 Connection to the mains

For protection from electric shock, the fixture must be earthed!

The Robin LedPOINTE is equipped with auto-switching power supply that automatically adjusts to any 50-60Hz AC power source from 100-240 Volts.

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.

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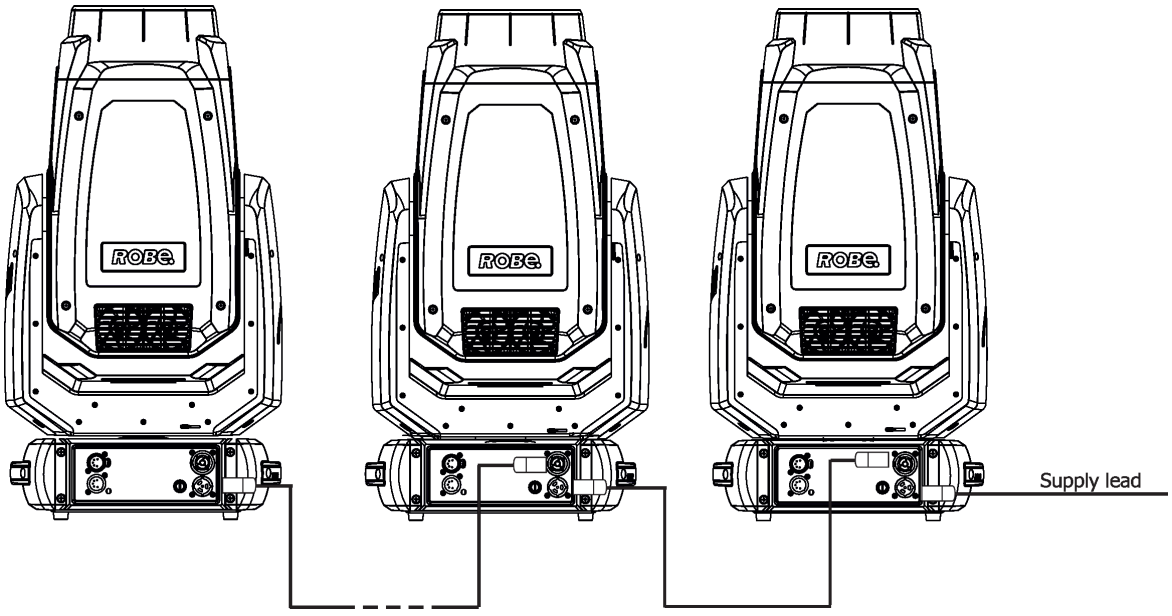
Core (EU)	Core (US)	Connection	Plug Terminal Marking
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	⏚

This device falls under class one and must be earthed (grounded)!

Design of the LedPOINTE allows you to connect several fixtures (8 fixtures at 230V/16A circuit breaker; 4 fixtures at 120V/16 A circuit breaker) to AC mains power in one interconnected daisy chain using power input and throughput connectors. Needed daisy chain cords are stated in the chapter "Technical specifications "

Do not overload the supply line and connecting leads.



3.2 Rigging the fixture

A structure intended for installation of the fixture (s) must safely hold weight of the fixture(s) placed on it. The structure has to be certificated to the purpose.

The fixture (fixtures) must be installed in accordance with national and local electrical and construction codes and regulations.

For overhead installation, the fixture must be always secured with a safety wire that can bear at least 10 times the weight of the fixture.

When rigging, de-rigging or servicing the fixture staying in the area below the installation place, on bridges, under high working places and other endangered areas is forbidden.

The operator has to make sure that safety-relating and machine-technical installations are approved by a skilled person once a year.

The fixture should be installed outside areas where persons may walk by or be seated.

IMPORTANT! OVERHEAD RIGGING REQUIRES EXTENSIVE EXPERIENCE, including (but not limited to) calculating working load limits, installation material being used, and periodic safety inspection of all installation materials and the fixture. If you lack these qualifications, do not attempt the installation yourself, but instead use a professional structural rigger. Improper installation can result in bodily injury or damage to property.
The fixture has to be installed out of the reach of people.

The fixture must never be fixed swinging freely in the room.

Caution: Fixture may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do not install the moving head!

Before rigging make sure that the installation area can hold a minimum point load of 10 times the fixture's weight.

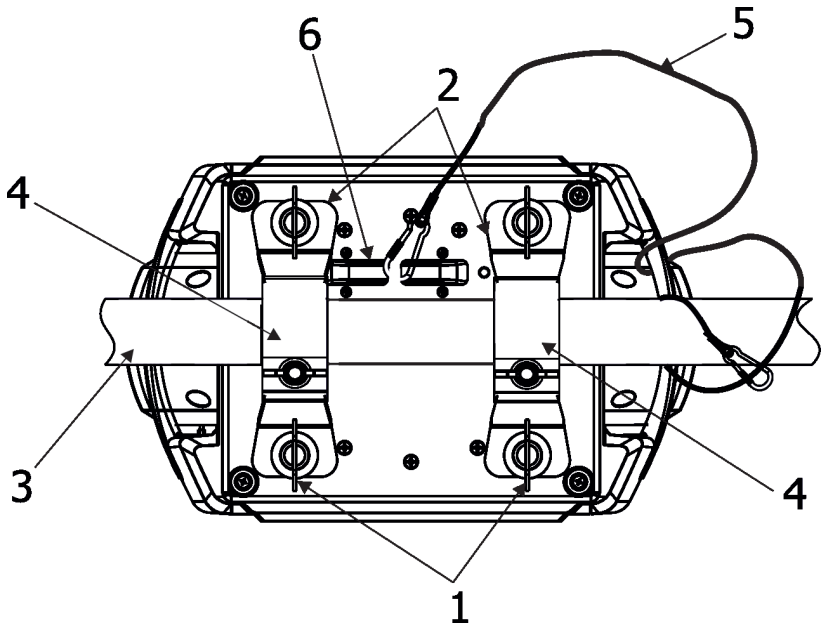
When installing the device, make sure there is no highly inflammable material (decoration articles, etc.) in a distance of min. 0.4 m.

CAUTION!
Use appropriate clamps to rig the fixture on the truss.
Make sure that the device is fixed properly! Ensure that the structure (truss) to which you are attaching the fixture is secure.

The fixture can be placed directly on the stage floor or rigged in any orientation on a truss without altering its operation characteristics .
For securing the fixture to the truss, install a safety wire which can hold at least 10 times the weight of the fixture.
Use only the safety wire with a snap hook with screw lock gate.

Truss installation

1. Bolt each clamp (1) to the omega holder (2) with M12 bolt and lock nut through the hole in the holder.
2. Fasten the omega holders to the bottom of the base by inserting both quick-lock fasteners (1) into the holes of the base and tighten fully clockwise.
3. Clamp the fixture on a truss (3) and tighten the rigging clamps.
4. Pull a safety wire (5) through the carrying handle and the truss (3) as shown on the picture above in a suitable position so that the maximum fall of the fixture will be 20 cm. Fasten a snap hook in the attachment point (6). Use only the safety wire with snap hooks with screw lock gates.



1-Quick-lock fastener
2-Omega holder
3-Trust
4-Clamp
5-Safety wire with snap hooks with screw lock gates
6-Attachment point

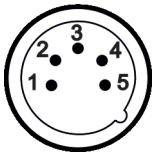
When installing fixtures side-by-side, avoid illuminating one fixture with another!

3.3 DMX-512 connection

The fixture is equipped with 5-pin XLR sockets for DMX input and output. Only use a shielded twisted-pair cable designed for RS-485 and 5-pin XLR plugs and connectors in order to connect the controller with the fixture or one fixture with another.

DMX output

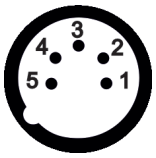
XLR socket (female)



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

DMX input

XLR socket (male)



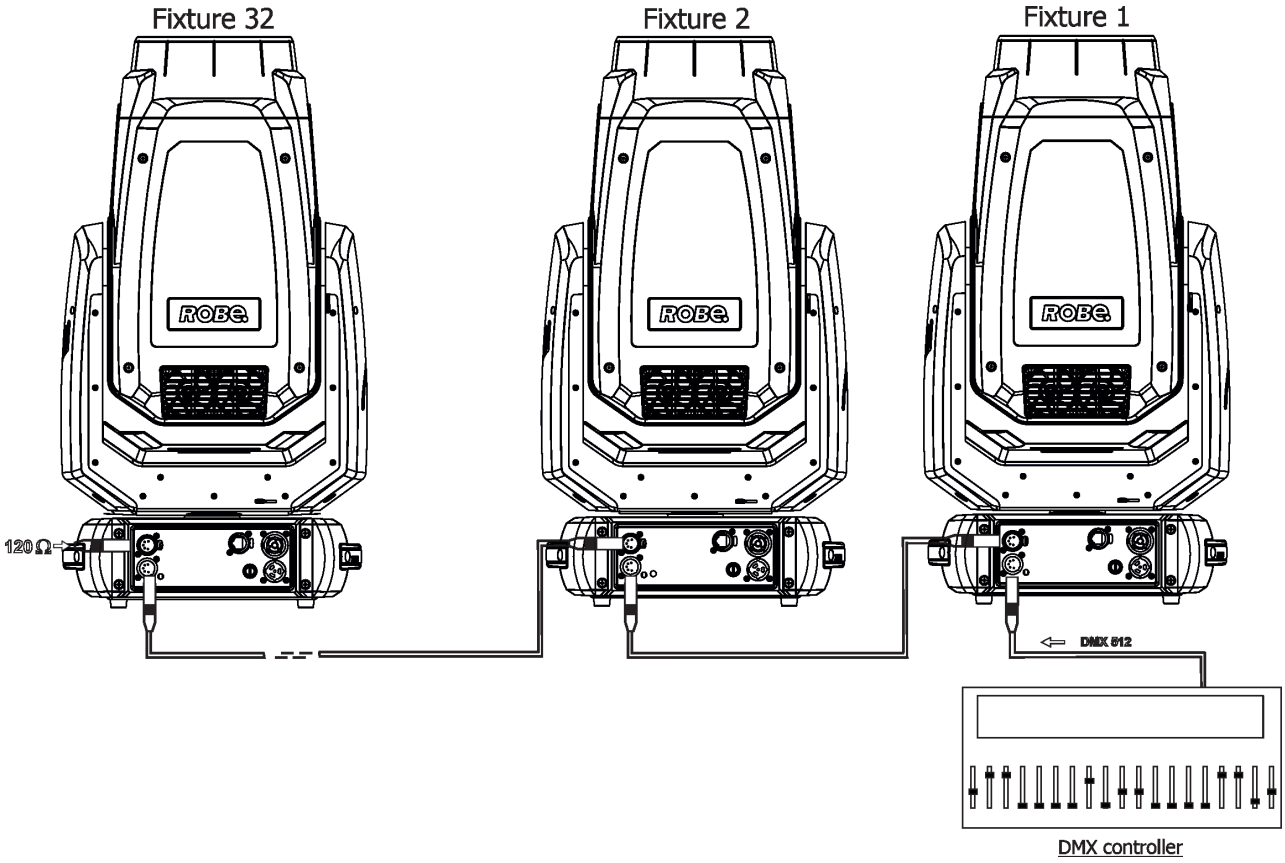
1 - Shield
2 - Signal (-)
3 - Signal (+)
4 - Not connected
5 - Not connected

If you are using the standard DMX controller, you can connect the DMX output of the controller directly with the DMX input of the first fixture in the DMX chain. If you wish to connect DMX controllers with other XLR output, you need to use adaptor cables.

Building a serial DMX chain.

Connect the DMX output of the first fixture in the DMX 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 interconnected.

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 a (5-pin) XLR plug and plug it in the DMX output of the last fixture



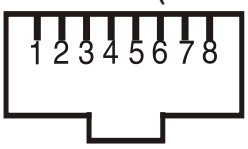
3.4 Ethernet connection

The fixtures on a data link are connected to the Ethernet with appropriate communication protocol (e.g. Art-Net). The control software running on your PC (or light console) has to support this communication protocol.
Art-Net communication protocol is a 10 Base T Ethernet protocol based on the TCP/IP.I ts purpose is to allow transfer of large amounts of DMX 512 data over a wide area using standard network technology.

The IP address is the Internet protocol address.The IP uniquely identifies any node (fixture) on a network.
The Universe is a single DMX 512 frame of 512 channels.

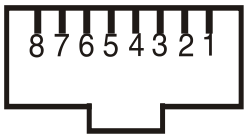
The Robin LedPOINTE is equipped with 8-pin RJ- 45 sockets for Ethernet connection. Use a network cable category 5 (with four “twisted” wire pairs) and standard RJ-45 plugs in order to connect the fixture to the network.

RJ-45 socket (front view):



1- TD+
2- TD-
3- RX+
4- Not connected
5- Not connected
6- RX-
7- Not connected
8- Not connected

RJ-45 plug (front view):



Patch cables that connect fixtures to the hubs or LAN sockets are wired 1:1,that is,pins with the same numbers are connected together:

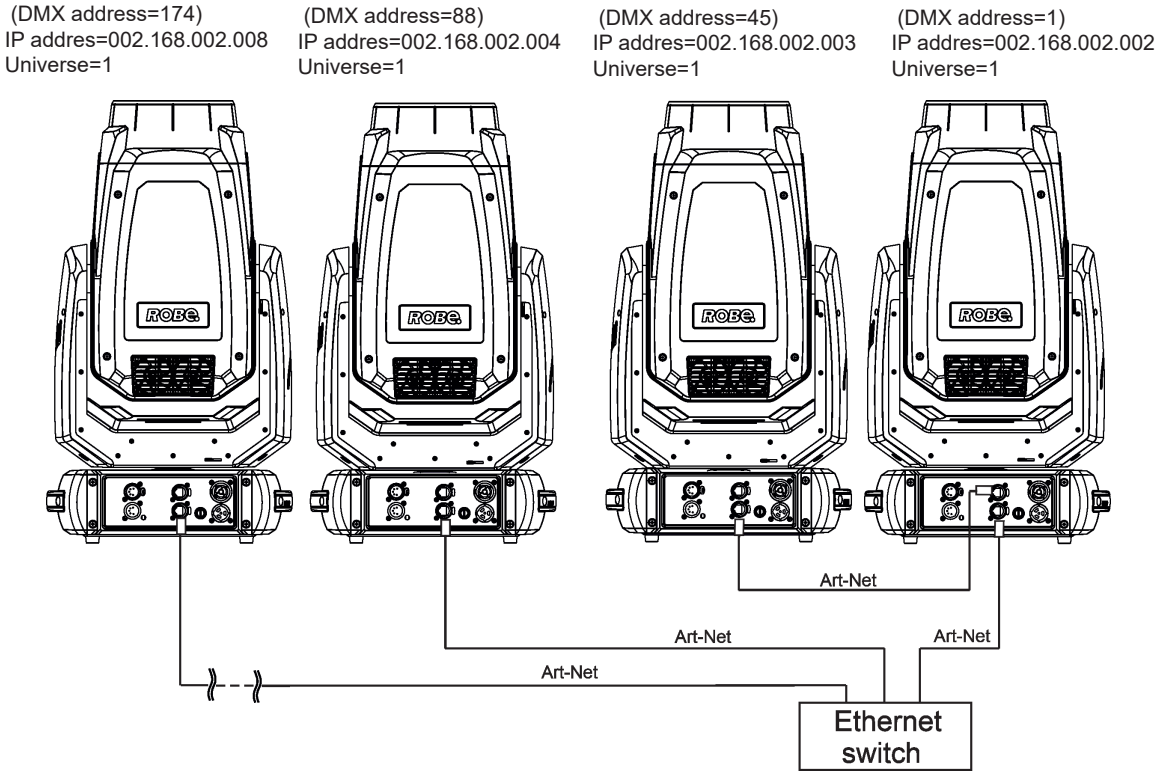
1-1 2-2 3-3 4-4 5-5 6-6 7-7 8-8

If only the fixture and the computer are to be interconnected,no hubs or other active components are needed. A cross-cable has to be used:

1-3 2-6 3-1 4-8 5-7 6-2 7-5 8-4

Connect the Ethernet inputs of all fixtures to the Ethernet network. Set their IP addresses and Net Masks Correct communication protocol (e.g. “ArtNet") has to be selected from the menu “Ethernet Mode” in the fixtures (Addressing-->Ethernet -->Ethernet Mode). Set Universe(s) according to communication protocol.

Example of connection (EP version):



An advised PC setting: IP address: 002.xxx.xxx.xxx (Different from fixtures IP addresses)
NET mask: 255.0.0.0

The EP version of the fixture is equipped with Ethernet Pass Through Switch which sustains Ethernet integrity, when the fixture has no power, it automatically maintains network connectivity.
If you use the Ethernet IN-OUT way for the Ethernet connection, max. 8 fixtures can be connected in the IN-OUT line.

3.5. Wireless DMX operation

The wireless DMX version of the fixture is equipped with the wireless DMX/RDM module which has full support for wireless communication protocols at entertainment market. The module is based on well known Lumen-Radio RF technology, with implemented wire interface for connection with Robe products. RF output for MCX interface antenna as standard output.

The item " Wireless " from the menu "DMX Input" allows you to activate receiving of wireless DMX (Personality--> DMX Input -->Wireless.). First two options from the "DMX Input" menu are stated in DMX chart as well (channel Power/Special functions , range of 10-13 DMX). If DMX input option is changed by DMX command, the change is permanently written into fixture´s memory.

DMX range of 10-13 switching fixture to the wired/wireless operation is active only during first 10 seconds after switching the fixture on.

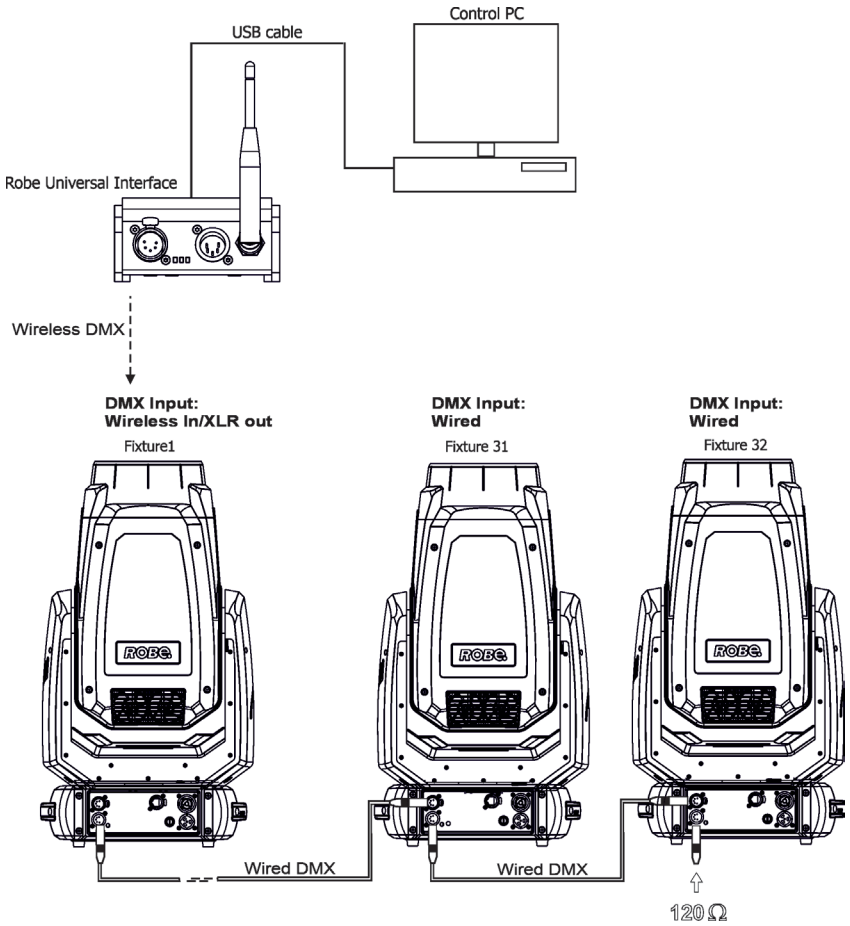
After switching the fixture on, the fixture checks both modes of receiving DMX in the following order:

1. For the first five seconds, the fixture receives DMX signal from the wired input. If the Power/Special functions channel is set at some DMX input option, the fixture will receive DMX value according to this option. If DMX input option is set to the wired input , this option is saved and checking procedure is finished. If DMX input option is not set, the fixture continues next 5 seconds in scanning wireless DMX signal-see point 2.

2. For the next 5 seconds the fixture receives wireless DMX signal and again detects if the Power/Special functions channel is set at some DMX input option, if not, the fixture will take option which is set in the fixture menu "DMX Input".

To link the fixture with DMX transmitter.
The fixture can be only linked with the transmitter by running the link procedure at DMX transmitter .
After linking, the level of DMX signal (0-100 %) is displayed in the menu item “Wireless State“ (tab Information -->Wireless State).
To unlink the fixture from DMX transmitter.
The fixture can be unlinked from transmitter via the menu item “ Unlink Wireless Adapter“ (tab Information--> Wireless State --> Unlink Wireless Adapter).

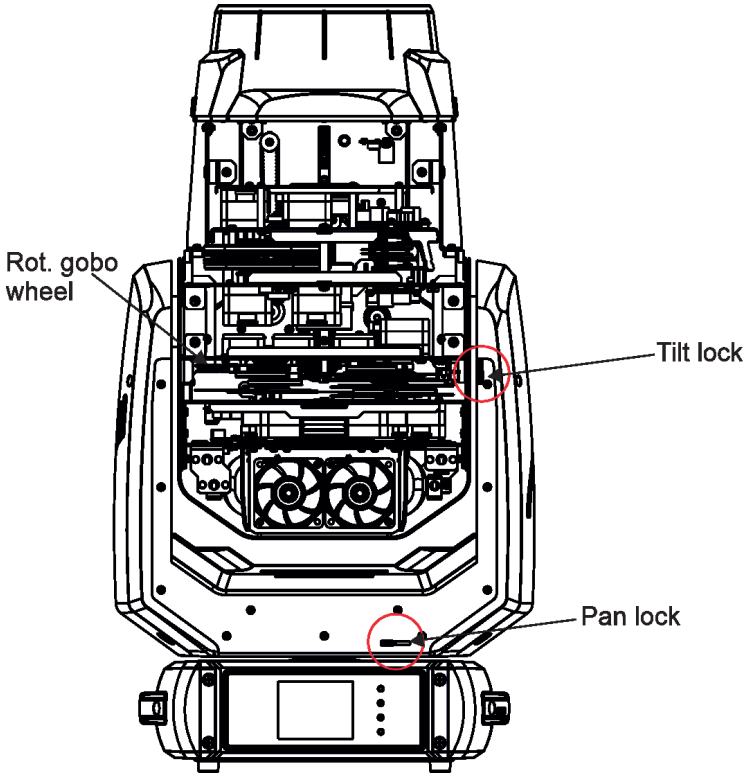
Example of connection:



3.6. Replacing rotating gobos

Disconnect the fixture from mains before gobo replacing.

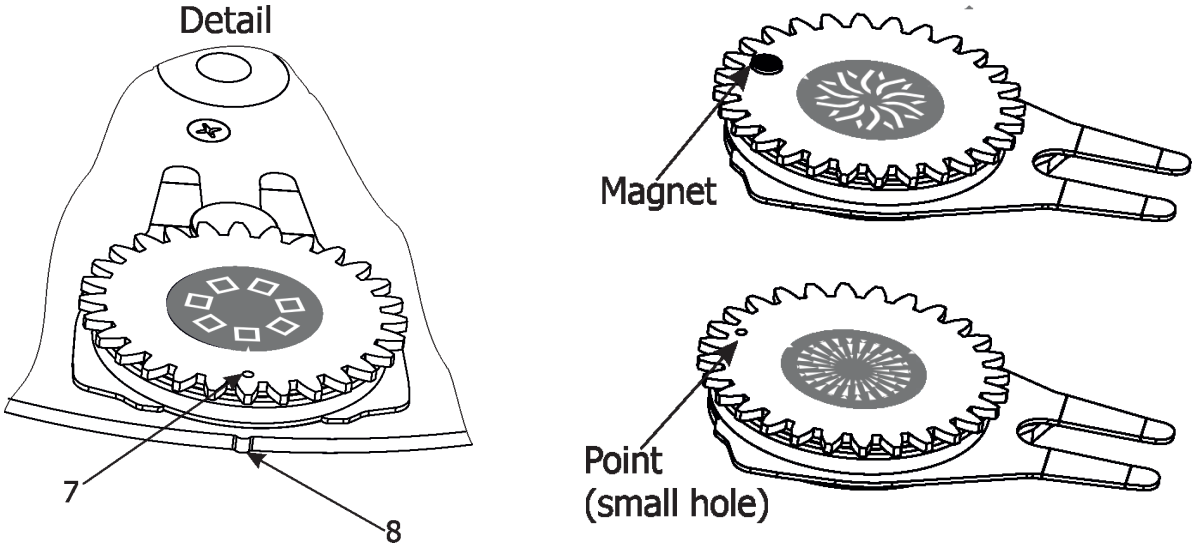
1. Disconnect the fixture from mains and allow it to cool approximately 20 minutes.
2. Remove the plastic cover of the head by loosening the 4 quarter-turn fasteners on the cover.
3. Connect the fixture to mains. Go to the tab "Service", select the menu "Adjust DMX values " and move the fixture head to the position which is suitable for changing rot. gobos.



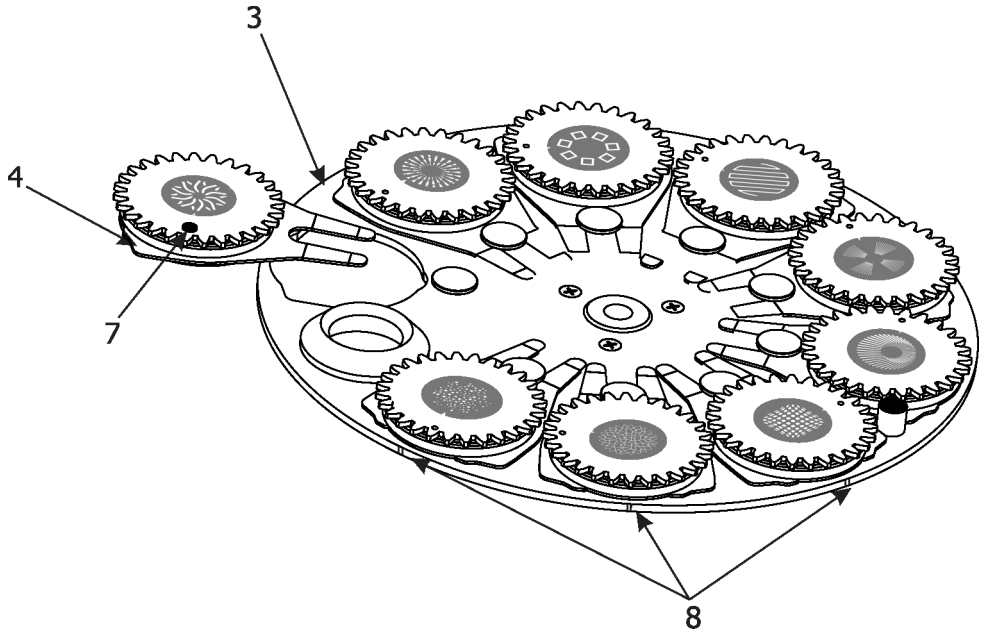
4. Escape from the menu "Adjust DMX values " and go to the menu " Rotating Gobos Change" in the same tab, select menu Gobo Carousel and enter the menu.

5. Select a gobo (G1-Mg, G2, G3, G4, G5, G6, G7,G8, G9) which you wish to replace. The selected gobo will move to the accessible position for its changing.
   Note: "G1-Mg" means the gobo holder with a magnet.

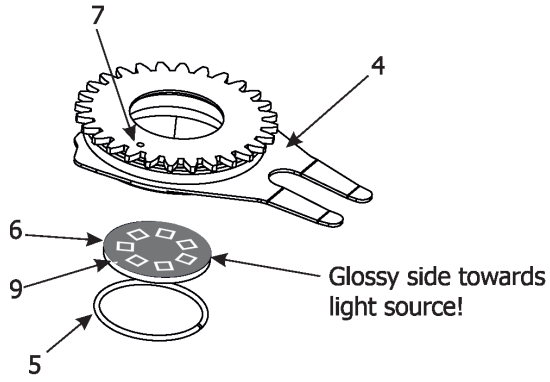
6. Check that the position point (7) on the gobo holder aims exactly to the toothlike projection (8) on the edge of the rotating gobo wheel. If not, go to the option "Gobo Offset" and adjust the position point (7) exactly opposite of the toothlike projection (8).
   Note: The magnet on the gobo holder substitutes the position point (7).
   Adjusted value in the "Gobo Offset" is valid for all gobos on the gobo carousel.

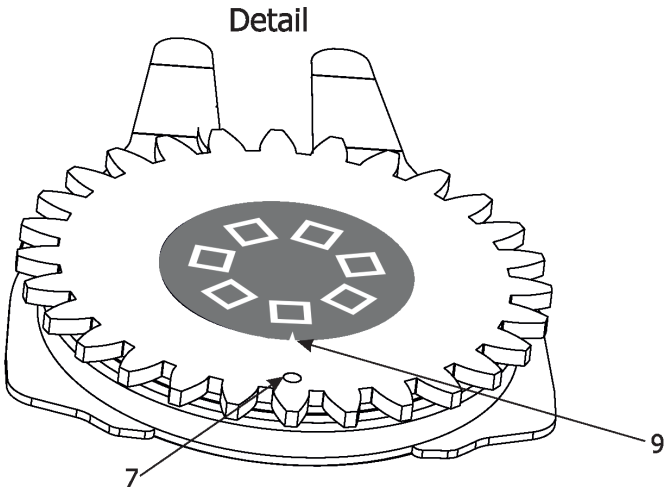


7. Gently pull the gobo holder (4) up from the rotation gobo wheel (3). Use suitable long-nose pliers for pulling the gobo holder from the rotating gobo wheel.



8. Carefully remove the spring lock (5) and the gobo (6) from the gobo holder (4) by pushing to the gobo from side of toothed wheel. Do not touch the glass gobo bare fingers - use a suitable gloves.
9. Insert the new gobo (glossy side towards the light source). The position point (9) on the gobo has to be oriented to the position point (7) on the gobo holder (4).
10. Insert the spring lock (5) to secure the gobo (6) in the gobo holder (4).





11. Insert the gobo holder (4) back into rotating gobo wheel (3) in this way, that its position point (7) has to aimed at a small toothlike projection (8) on the edge of the rotating gobo wheel. On gobo position with magnet, align the magnet with small toothlike mark (8).

Important! When inserting the gobo holder back to the rotating gobo wheel, one of the adjacent gobo has to be oriented according to the same rule, it means that its position point (7) has to aimed at the toothlike projection (8) on the edge of the rotating gobo wheel.

12. **After replacing desired gobos, connect the fixture to mains and light on changed gobo holders (or gobos) with max. intensity (shutter/dimmer=255 DMX) approximately 10 minutes per each changed gobo position to evaporate potential grease from gobo holders and gobos**.
During this procedure, the fixture head has to be in a horizontal position without top cover (side of fixture head without cover has to be up) and the gobo has to rotate.

Note: this step you can leave out if you use original gobo holders from the fixture and you sure that new glass gobos are clean.

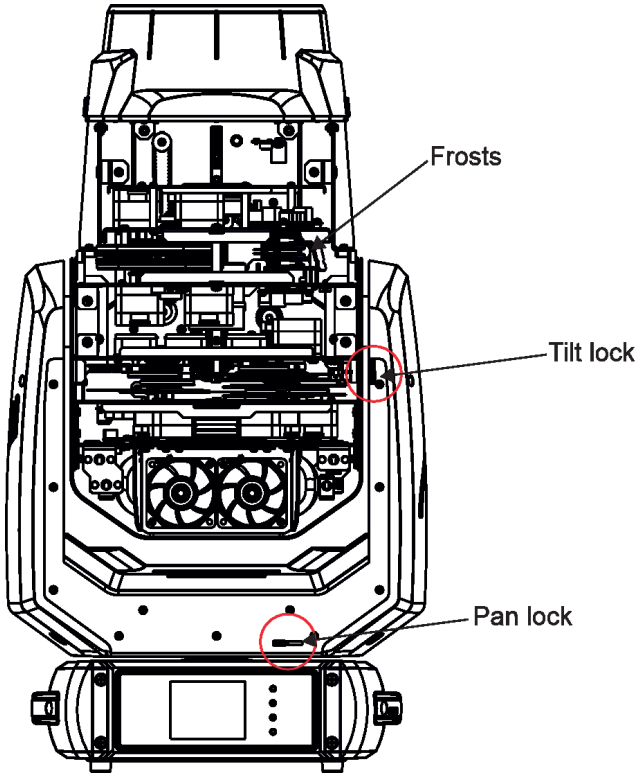
13. Place the head cover back on the head (do not forget to connect safety wire between chassis and the head cover) and secure it by means of four quarter-turn fasteners on the cover.

3.7 Replacing the frost filters

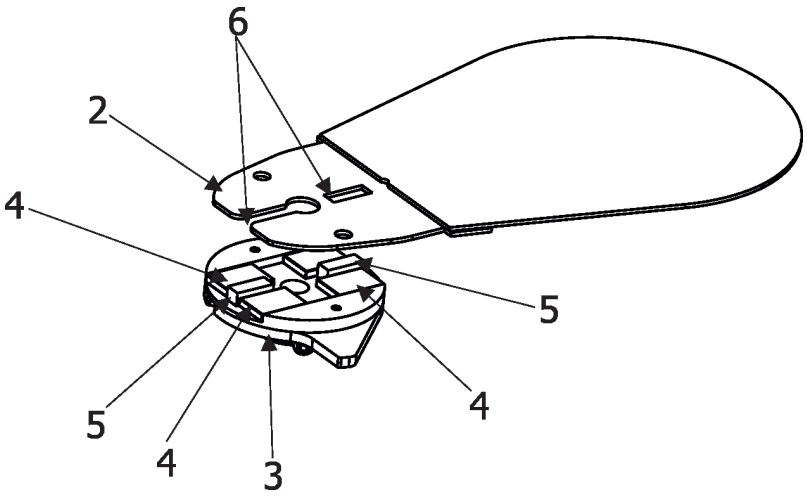
Unplug the fixture from mains before replacing the frost filters!

To replace the frost filter.

1. Disconnect the fixture from mains and allow it to cool approximately 20 minutes.
2. Remove plastic cover of the head by loosening the 4 quarter-turn fasteners on the cover to get access to the frost modules.



3. The holder (2) of the frost foil is fastened to the frost holder (3) by means of the four magnets (4). Grip the holder (2) and carefully tilt it out to break a force of magnets (4) on the frost holder (3).
4. Place a new frost module into the frost holder (3). Check, that both slots (6) snapped correctly into two protrusions (5) in the holder (3).
5. Place the head cover back on the fixture head and tighten the 4 quarter-turn fasteners on the cover. Do not forget to connect securing wire of the cover before placing the cover.



4. Remotely controllable functions

Colour wheel
The colour wheel with 13 dichroic filters rotates in both directions with variable speed which creates wide spectrum of colour effects.

CMY colour mixing system
The CMY color mixing system is based on graduated cyan, magenta, and yellow colour filters. A continuous range of colors may be achieved by varying the amount of each filter from 0 to 100%.

Rotating gobo wheel
The rotating gobo wheel includes 9 glass gobos rotating in both directions, indexable, replaceable "SLOT&LOCK" system.

Static gobo wheel
The static gobo wheel includes 7 metal gobos and four beam reducers. Gobo positioning and continual gobo positioning is available as well as a gobo-shake function.

Prism wheels
Two prism wheels offer 1 x 6-facet linear prism, 1 x 18-facet circular prism, 1x 8 facet circular prism and 1 x 6-facet linear multicoloured prism. All prisms can be rotated in both directions at different speeds.

Frost
The fixture is equipped with two separated frosts: light (1°) and medium (5°).

Focus/Zoom
Motorized focus allows you to focus beam from approx. 2 meters to infinity. Zoom range 1.8°- 44°.

Dimmer/Shutter
Imperceptible 18 bit dimming for ultra smooth fade to black.

Pan/Tilt
Pan movement 540° with continuous rotation control. Tilt movement: 270°. Built-in electronic motion stabilizer (EMS) which ensures precise position of the fixture´s head during its movement and reduces its swinging when the truss shakes.

5. Control menu map

Default settings=Bold print

Tab	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
Addressing	Settings	DMX Address	001-512			
		DMX Preset Channels				
		Ethernet Settings	Ethernet Mode	Disable		
				ArtNet		
				gMAI		
				gMA2		
				sACN		
			Ethernet To DMX	**Off**, On		
			IP Address/Net Mask	Default IP Address		
				Custom IP Address		
				Net Mask		
			ArtNet Universe	0-255		
			MANet settings	MANetI/II Universe	01-256	
				MANet Session ID	01-32	
			sACN Settings	sACN Universe	00001-32000	
			Ethernet as Backup	**Disable**		
				Enable		
Information	Fixture Times	Power On Time	Total Hours			
			Resetable Hours			
		Air Filters	Elapsed Time			
			Alert Period	10-300		
	Fixture Temperatures	LEDs Temperatures	Current			
			Maximum NonRes..			
			Maximum Res..			
		Driver Temperature	Current			
			Maximum NonRes..			
			Maximum Res..			
		Base Temperature	Current			
			Maximum NonRes.			
			Maximum Res.			
	DMX Values	Pan				
		:				
		Dimmer Fine				
	Wireless State	Signal Quality				
		Unlink Wireless Adapter				
	Power Channel state					
	Software Version	Display System				
		Module M				
		Module L				
		Module C				
		Module G				
		Module O				
		Module P2				
		Module P1				
		Module GR				
		Module FAN				
	SW HW Version	Module M				
		Module L				

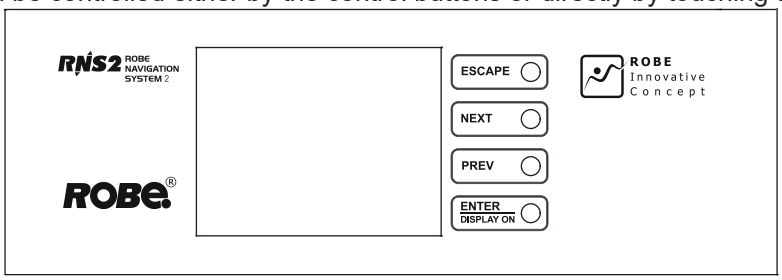
Tab	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
		Module C				
		Module G				
		Module O				
		Module P2				
		Module P1				
		Module GR				
		Module FAN				
	Product IDs	Mac Address				
		RDM UID				
		RDM Label				
	View Logs	Fixture Errors				
		Fixture States	Power On			
			Power Off			
		Fixture Position				
		Fixture Temperatures	LEDs B. 1Temperature			
			Base Temperature			
			LEDs B.2 Temperature			
Personality	DMX Preset Channels					
	DMX Input	**Wired**				
		Wireless				
		Wireless In/XLR Out				
	Pan/Tilt Settings	Pan Reverse	**Off**, On			
		Tilt Reverse	**Off**, On			
		Pan/Tilt Feedback	Off, **On**			
		Pan/Tilt mode	Time			
			Speed			
	Pan/Tilt EMS	Off**, On**				
	Follow Spot Mode	**Off**				
		Soft				
		Medium				
		Hard				
	Blackout Settings	Blackout During M.C.	**Off**, On			
		Blackout while:	Pan/Tilt moving	**Off**, On		
			Colour Wheel Moving	**Off**, On		
	Frequency Setup	300 Hz				
		600Hz				
		1200Hz				
		2400Hz				
		Frequency Adjust				
	Dimmer Curve	Linear				
		Square law				
		Super square law				
	Gobo Indexing	**Max. Speed &ShortCut**				
		Follow Speed & Direction				
		Max. Speed & Follow Dir.				
	Auto Parking Pos.	**Off**, On				
	Init Effect Positions	Pan	0-255			
		:				
		Dimmer Fine	0-255			
	Reset Init Effect Pos.					
	Screen Settings	Display Intensity	1-**10**			
		Screen Saver Delay	**Off**-10min.			
		Touchscreen Lock	**Off**-10min.			
		Display Orientation	Normal			

Tab	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			Inverted			
			Auto			
	Temperature Unit	**°C**,°F				
	Fan Settings	Fan mode	**Auto**			
			High			
			Quiet			
		Quiet - Blackout Fan Off	On, **Off**			
	Date & Time Settings					
	Focus Tracking	**Off,** On				
	Default Settings					
	Memory Tools	SD card	SD State			
			Mount SD			
			Unmount SD			
			Format SD			
	Password Protection	**Off,** On				
	Reset Web Password					
Manual Control	Reset Functions	Total System Reset				
		Pan/Tilt reset				
		Color Reset				
		Gobo Reset				
		Pan Reset				
		Tilt Reset				
		Zoom/Foc/Pri/Fro Reset				
	Manual Effect Control	Pan	0-255			
		:				
		Dimmer Fine	0-255			
Stand -Alone	Test Sequences	Dynamic Mode				
		Static Mode	Pan	0-255		
			Tilt	0-255		
			Zoom	0-255		
			Focus	0-255		
	Preset Playback	**None**				
		Test				
		Prog. 1				
		Prog. 2				
		Prog. 3				
	Play Program	Play Program 1				
		Play Program 2				
		Play Program 3				
	Edit Program	Edit Program 1	Start Step	1-100		
			End Step	1-100		
			Edit Program Steps	Step 1	Pan	0-255
				:	:	
				:	Dimmer Fine	0-255
				:	Step Time	0-25,5 sec.
				Step 100	Pan	0-255
					:	
					Dimmer Fine	0-255
					Step Time	0-25,5 sec.

Tab	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
Service	Adjust DMX Values	Pan	0-255			
		:				
		Dimmer Fine	0-255			
	Calibrations	Calibrate Effects	Pan	0-255		
			Tilt	0-255		
			Static Gobo	0-255		
			Rot. Gobo Wheel	0-255		
			R. Gobo Index 1	0-255		
			:	:		
			R. Gobo Index 9	0-255		
			Prism 1	0-255		
			Prism 1 Rot.1			
			Prism 2 Rot.2			
			Prism 2	0-255		
			Prism 2 Rot. 1	0-255		
			Prism 2 Rot. 2			
			Zoom	0-255		
			Focus 1	0-255		
			Focus 2	0-255		
			Frost 1 A	0-255		
			Frost 1 B	0-255		
			Frost 2 A	0-255		
			Frost 2 B	0-255		
			Colour Wheel	0-255		
			Cyan	0-255		
			Magenta	0-255		
			Yellow	0-255		
		Calibrate Pan/Tilt EMS				
		Load Default Calibrations				
	Rotating Gobos Change	Gobo Carousel 1	G1			
			G2			
			:			
			G9-MG			
			Gobo Offset	0-255		
	Update Software					

6. Control menu

The Robin LedPOINTE is equipped with the QVGA Robe touch screen with battery backup 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´s menu can be controlled either by the control buttons or directly by touching the icon.



Control buttons on the front panel

[ESCAPE] button used to leave the menu without saving changes.
[NEXT] , [PREV] buttons for moving between menu items and symbols, adjusting values.
[ENTER/Display On] button used to enter the selected menu (menu item) and to confirm adjusted value.
If the fixture is disconnected from mains, the button switches the touch screen on.

Icons used in the touch screen menu:

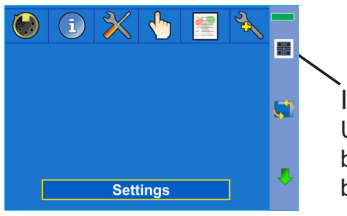
- [back arrow] used to move back to the previous screen (menu).
- [up arrow] used to move up on the previous page.
- [down arrow] used to move down on the next page.
- [confirm] used to save adjusted values, to leave menu or to perform desired action.
- [cancel] used to leave menu item without saving changes.
- [confirm+copy] used to save adjusted values and copy them to the next prog. step.
- [warning icon] used to indicate some error which has occurred in the fixture.
- [Ethernet] used to indicate Ethernet connected.
- [menu rotation] used to rotate menu 180 degrees from current orientation.
- [slider control] used to recall slider system for setting desired value.
- [keyboard control] used to recall keyboard system for setting desired value.
- [air filters cleaning] used to signal that cleaning period of the air filters elapsed.

After switching the fixture on, the touch screen shows the screen with the ROBE logo.

XP-type of LED engine used in the fixture.
-20% is a drop of max. light intensity set by the channel "Max. light intensity indication and setting".
Note: drop 0-5% is not signalized.

Battery indication

Touch any part of the screen or press the [ENTER/Display On] button to display the initial screen with the current stored DMX address.



Icon for QR codes
Use [NEXT] , [PREV] buttons for moving between QR codes

QR code for RDM UID of the fixture.

(picture for ilustration only)

Note: The green icon at the top right corner of the screen indicates the level of the display battery charging. If the whole icon is green, the battery is fully charged while the red icon indicates exhausted battery. The battery charges during fixture operation, its charging lasts cca 6 hours.
We recommend that the fixture should be in operation at least 7 hours per week to keep the battery fully charged. If you switch the fixture on and this screen will not appear till 1 minute, switch the fixture off and on again. If the screen lights, the battery is exhausted. In case the screen still does not light, the battery is faulty.
This is also indicated by an error message "Faulty battery" and if such an error message appears the battery should be replaced immediately. The lifetime of the battery is highly dependent on ambient temperature (and consequently on base temperature). If the maximum ambient temperatures (as recorded and displayed in menu: Information -> Fixture Temperatures -> Ambient Temperature -> Maximum NonRes.) are kept within the specified limits, the battery should last for at least two years. Shell the ambient temperatures exceed the specified maximum temperature, the lifetime of the batteries could be considerably shortened even up to just one year or less and also result in physical damage (battery leakage) or unreliable fixture functions.
Damage caused by batteries failed due to exceeded maximum ambient temperature cannot be claimed under warranty terms.

Touch the green arrow at the bottom right corner of the screen or press the [ENTER/Display On] button to enter the " Address" menu.
Each item (such as a Tab, menu item, text box, icon) may be selected from a screen by simply touching the item in the list or by pressing the [NEXT] or [PREV] buttons to scroll through list items. With each press, the next item is highlighted. Press [ENTER/Display On] to select the highlighted item.

Before first fixture operation, set current date and time in the menu "Date &Time Settings" (menu path: Personality--> Date &Time Settings).

6.1 Tab " Address"

DMX Address - Select the menu to set the DMX start address.

DMX Preset Channels - The menu item offers you overview of DMX channels used in the fixture.

Ethernet Settings* - The menu allows all needed settings for the Ethernet operation

Ethernet Mode

Disable - The option disables Ethernet operation.
Artnet - Fixture receives Artnet protocol
gMAI - Fixture receives MANet I protocol
gMA2 - Fixture receives MANet 2 protocol
sACN - Fixture receives sACN protocol

Ethernet To DMX - Fixture receives protocol from the Ethernet input and sends DMX data to its DMX output (fixture works as an "Ethernet/DMX converter", next fixture can be connected to its DMX output and you can build a standard DMX chain by connecting another fixtures. Only one fixture has to be connected to the Ethernet.

IP Address/Net Mask - Select this menu to set IP address. IP address is the Internet protocol address. The IP uniquely identifies any node (fixture) on a network.
There cannot be 2 fixtures with the same IP address on the network!

Default IP Address -Preset IP address, you can set up only first byte of IP address (2 or 10) e.g. **002**.019.052.086.

Custom IP Address - The option enables to set up all bytes of IP address.

Net Mask - The option enables to set up all bytes of Net Mask.

ArtNet Universe - Use this item to set a Universe (0-255). The Universe is a single DMX 512 frame of 512 channels.

MANet Settings - Use this menu to set parameters for MANet operation.

MANet Universe I/II - The value of this item can be set in range 1-256.

MANet Session ID - The value of this item can be set in range 1-32.

sACN Settings - Use this menu to set parameters for sACN operation.

sACN Universe - The value of this item can be set in range 1-32000.

6.2 Tab "Information"

Fixture Times - The menu provides readouts of fixture and LED module operation hours.

Power On Time - Select this menu to read the number of fixture operation hours.

Total Hours - The item shows the total number of the operation hours since the Robin LedPOINTE has been fabricated.

Resettable Hours - The item shows the number of the operation hours that the Robin LedPOINTE has been powered on since the counter was last reset.
In order to reset this counter to 0, touch the text box next to the item "Resettable Hours:"

Air Filter - Regular cleaning of the air filter in the fixture base is very important for the fixture´s life and performance.
Bild-up of dust, dirt and fog fluid residues reduces the fixture´s light output and cooling ability.
The two items of this menu help you to keep cleaning period of the air filter.

Alert period - Cleaning schedule for the fixture depends on the operating environment. It is therefore impossible to specify accurate cleaning interval. This item allows you to change the cleaning interval of the air filter. This "alert" value is 300 hours and it is set as default. Inspect the fixture within its 300 hours of operation to see whether cleaning is necessary. If cleaning is required, clean air filter and change the value in this menu on acceptable level. Min. level of alert period is 10 hours, max. is 300 hours.

Elapsed Time - The item allows you to read the time which remains to cleaning air filter. The time period is set in the menu mentioned above.
Expired time period is signalled by a warning icon on the display.
Clean the filter and reset this menu item (by touching the text box next to the item "Elapsed Time").

Fixture Temperatures - The menu is used to view temperatures of the fixture´s inside.

LED temperature - The menu shows temperature on the LEDs PCB in the light source

Current - A current temperature of the LEDs PCB.

Maximum NonRes. - A maximum temperature of the LEDs PCB since the fixture has been fabricated.

Maximum Res. - A maximum temperature of the LEDs PCB since the counter was last reset.
In order to reset some counter to 0, touch desired text box under item "Max.Res."

Driver Temperature - The menu shows temperature on the LEDs control PCB in the fixture head.

Current - A current temperature on the LEDs control PCB.

Maximum NonRes. - A maximum temperature on the LEDs control PCB since the fixture has been fabricated.

Maximum Res. - A maximum temperature on the LEDs control PCB since the counter was last reset.
In order to reset this counter to 0, touch the text box next to the item "Maximum Res.

Base Temperature - The menu shows temperature on the display PCB in the fixture base.
Current - A current temperature on the display PCB.
Maximum NonRes. - A maximum temperature on the display PCB since the fixture has been fabricated.
Maximum Res. - A maximum temperature on the display PCB since the counter was last reset.
In order to reset this counter to 0, touch the text box next to the item "Maximum Res."

DMX Values - The menu items allows you to read DMX values of each channel received by the fixture.

Wireless State - The menu serves for reading of the wireless operation status.
Unlink Wireless Adaptor - The item serves for unlinking the fixture from a DMX transmitter.
If the wireless module is not installed in the fixture, message" Wireless Module missing" will appear.

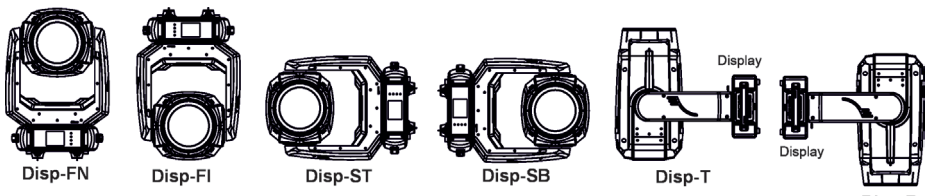
Power Channel State - Select this item to see current setting of the functions, which can be set by menu items in "Personality" as well as by DMX command at channel "Power/Special functions".

Software Version - Select this item to read software versions of fixture processors:
Display System - A display processor on the display board in the fixture base
Module M - a Pan/Tilt processor
Module L - a LEDs control processor
Module O - a focus/zoom/frost control processor
Module G - a rot. gobo/static gobo wheel control processor
Module C - a colour wheel and CMY control processor
Module P1 - a prism 1 control processor
Module P2 - a prism 2 control processor
Module FAN - fans control processor

SW HW Version - Select this item to read hardware versions of PCBs and their software versions.
Display System - A display processor on the display board in the fixture base
Module M - a Pan/Tilt processor
Module L - a LEDs control processor
Module O - a focus/zoom/frost control processor
Module G - a rot. gobo/static gobo wheel control processor
Module C - a colour wheel and CMY control processor
Module P1 - a prism 1 control processor
Module P2 - a prism 2 control processor
Module FAN - fans control processor

Product IDs - The menu is used to read the MAC Address ,RDM UID and RDM Label.

View Logs - Use this menu to read fixture´s data which have been recorded during fixture operation. This collected data allows easier troubleshooting.
Fixture Errors - Use this menu to read fixture errors which have occurred during fixture operation.
Fixture States - In the menu are recorded fixture states as power on and power off.
Fixture Positions - In the menu are recorded installation positions of the fixture:



Fixture Temperatures - In the menu are recorded temperatures which have exceeded defined levels.

Note: The log buffer can contain max. 8000 records. If the buffer is full, old data will be overwritten.

6.3 Tab "Personality"

DMX Preset Channels - The menu item offers you overview of DMX channels used in the fixture.

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 of the inbuilt wireless module.
Wireless In/XLR Out- the fixture receives wireless DMX and sends the signal to its wired DMX output. The fixture behaves as " Wireless/Wired" adapter.
The options "Wired" and "Wireless" are also stated in DMX chart (channel Power/Special functions).
Note. If the wireless module is not installed in the fixture, the following message will appear:
DMX Input Set to Wired
Wireless Module Missing
If the fixture is not connected to mains, the message "Not Available In Offline Mode" will appear after entering the menu DMX Input. To enter the menu, the fixture has to be connected to mains.

Pan/Tilt Settings - Use the menu set behaviour of both pan and tilt movements.
Pan Reverse - The item allows to invert pan movement.
Tilt Reverse - The item allows to invert tilt movement.
Pan/Tilt Feedback - The item allows to return the mowing head to the required pan/tilt position after changing the position by an external force if this option is set on.
Note. Be careful, the Pan/Tilt Feedback should be permanent On, the option Off is not suitable for standard operation and the head of the fixture can be damaged!
Pan/Tilt mode - Use this menu to set the mode of the pan/tilt movement
Time mode – The pan and tilt will move with different speeds and they will come at the same time to the end point of their tracks (pan and tilt use their optimal speeds). Time of the pan/tilt movement (25.5 sec. max.) is set by the channel "Pan/Tilt speed, Pan/Tilt time".
Speed Mode - Both Pan and tilt will move with the same speed as adjusted at the channel "Pan/Tilt speed, Pan/Tilt time".

Pan/Tilt EMS - Built-in electronic motion stabilizer ensures precise position of the fixture´s head during its movement and also reducing its swinging when the truss shakes.

Follow Spot Mode - If the function is activated, the pan/tilt motors perform on lower power and the head position can be controlled manually. You can choose from three levels of the pan/tilt "consistency": soft, medium and hard.
Note: reset of pan/tilt will not be executed if the fixture is in the Follow Spot Mode.

Blackout Settings - Use the menu if you need to close the light output under certain conditions which are described below
Blackout During MC - Blackout during movement correction. Set this option On if you wish to close light output during the time when the head goes to its correct position from which has been changed by an external force.
Active Blackouts - Use this menu if you wish to close the light output during effect changes.
Pan/Tilt Moving - The menu item enables to close light output while the pan/tilt DMX values are changing.
Colour Wheel Moving - The menu item enables to close light output while colour wheel is moving.

Frequency Setup - The function allows you to set the PWM (Pulse Width Modulation) output frequency of LEDs to 300Hz, 600Hz, 1200Hz or 2400Hz.
Frequency Adjust - The menu item allows you fine adjustment of the LED frequency around selected frequency.

Dimmer Curve - Use the menu to select desired dimmer curve: Linear, Square Law and Super Square Law.

Gobo Indexing - The following three options define transition from gobo rotation to gobo indexing.
Max. Speed & Shortcut - Gobo goes from its rotation to desired indexed position with max. speed and via shortest track.
Follow Speed & Direction - Gobo goes from its rotation to desired indexed position with current speed and keeps a direction of rotation.

Max. Speed & Follow Dir. - Gobo goes from its rotation to desired indexed position with max. speed and keeps a direction of rotation.

Auto Parking Pos. - Automatic parking position. When this option is enabled, the fixture will automatically move to the Parking position whenever it is powered on and a DMX signal is missing or all DMX values are 0. Once a DMX signal is present, the Parking position will be automatically disabled..
Parking position - fixture moves the pan and tilt to the position (including movement of zoom to the front part of the head) in which the head will always face down. Owing this position of the fixture head, there is not chance to burn internal parts of the head by the sun light.

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 received.

Reset Init Effect Pos. - Use the menu to set all effects to the default (factory) positions.

Screen Settings - Use this menu to change the touch screen settings.
Display Intensity - The item allows to control the intensity of the screen (1-min., 10-max.).
Screen saver Delay - The item allows you to keep the screen on or to turn it off automatically after 1-10 minutes after last touch (or pressing any button on the control panel).
Touchscreen Lock - The item allows you to lock the screen after last touch (or pressing any button on the control panel). The time delay can be set in range of 1-10 minutes. To unlock the screen, press the [ENTER/Display On] button.
Display Orientation - The menu allows to change display orientation.
Normal - Standard display orientation if the fixture is placed horizontally (e.g. on the ground).
Inverted - Inverted orientation (needed if the fixture is hanging on the truss).
Auto - The option activates a gravitation sensor for automatic screen orientation.
Note: **Auto** option is set as default. You change the display orientation by touching the icon on the display, an the option set in the "Display Orientation" menu is temporarily overridden.

Temperature unit - Use the menu item to change temperature unit from °C to °F.

Fan Settings - Use the menu to set fans operation mode.
Fan Mode - Use the menu to set the fixture fans to max. power mode (option "**High**") or to the auto-control mode (option "**Auto**"). The third option "**Quiet**" allows you to set desired fan noise. The light output of the fixture is reduced at low speeds of fans.
Quiet - Blackout Fan Off - The menu item allows you to stop all fans in the fixture (option "**On**") when its light output is closed (shutter in range of 0-31 DMX or dimmer in 0 DMX).

Date & Time Settings - Use this menu to set current date and time for the fixture log system (menu "View Logs"). Set this menu items before first fixture operation.

Focus Tracking - This feature provides automatic sharpness re-adjustment during zoom movement, after an initial sharpness has been set by the operator by setting the focus channel and enabling the FocusTracking. The Focus Tracking feature is done via automatic movement of focus element, taking into account several internal parameters, zoom position being one of them. To utilize the Focus Tracking, make sure to enable the Focus Tracking, set the Zoom to value 200 and adjust Focus to desired sharpness. Then, while keeping Focus value untouched, you can move the Zoom. Fixture will automatically keep the projection at the desired sharpness as much as possible. You can also re-adjust the Focus value over time if needed. When switching between static gobo wheel, rotating gobo wheel and an empty aperture, the Focus Tracking will adjust the internal parameters, therefore providing desired sharpness by adjusting the Focus might be required. If you use both Static gobo wheel and rotating gobo wheel without further adjusting the Focus value, rotating gobo wheel will be automatically used for Focus Tracking 's focusing.

Default Settings - The menu item allows to set all fixture parameters in this menu to the default (factory) values except items "DMX Input".

Memory Tools - the menu item SD card allows you to allows you to do operations with SD card.
SD card - Internal SD card in the fixture base.
SD State - The menu item shows state of internal SD cardl
Mount SD - The menu item allows you to mount internal SD card to the system.
Unmount SD - The menu item allows you to unmount internal SD card from the system.
Format SD - The menu item allows you format internal SD card. The card has to be mounted to the system before formated it.

Password Protection - allows to enter password in order to prevent unauthorized person from changing setting of the fixture. Password is set to 7623 and cannot be changed.

Reset Web Password - The menu item allows you to reset a password for access to the Robe Ethernet Access Portal (REAP), default password: 2479, user: robe.

6.4 Tab "Manual Control"

Reset Functions - The menu allows to reset the fixture either per function modules or all modules together.
- **Total Fixture Reset** - The item resets all function modules.
- **Pan/Tilt Reset** - The item resets pan and tilt.
- **Colour System Reset** - The item resets colour wheel and CMY system.
- **Gobo Reset** - The item resets static and rotating gobo wheels.
- **Zoom/Foc./Pri./Fro. Res.** - The item resets zoom, focus, prism and frost module.

Manual Effect control - Use the menu to control all fixture channels by means of the control panel.

6.5 Tab "Stand-alone"

Test Sequences -Use the menu to run a test/demo sequences without an external controller, which will show you some possibilities of using the Robin LedPOINTE.
- **Dynamic Mode** - This mode uses all Robin LedPOINTE functions including pan/tilt movement and therefore is good for a complete introduction of the fixture.
- **Static Mode** - This mode is suitable for projections on the wall, ceiling or ground without any pan/tilt movement. Adjust the pan, tilt, zoom and focus to desired positions and start test sequences by touching the green ▶ icon.

Preset Playback - This menu allows you to select the program which will be played in a loop after switching the fixture on (the option is commonly used in a stand-alone operation without an external controller).
- **None** - The option disables “Presetting playback” function.
- **Test** - The option starts the test sequences.
- **Prog. 1** - The option starts user program number 1.
- **Prog. 2** - The option starts user program number 2.
- **Prog. 3** - The option starts user program number 3.

Play program - Use the menu to run desired user program in a loop.
- **Play Program 1** - The option starts user program number 1.
- **Play Program 2** - The option starts user program number 2.
- **Play Program 3** - The option starts user program number 3.

Edit Program - Use the menu to create or to edit desired program. The Robin LedPOINTE offers 3 free programs, each up to 100 steps.
- **Edit Program 1** - The option allows to edit user program number.1.
- **Edit Program 2** - The option allows to edit user program number 2.
- **Edit Program 3** - The option allows to edit user program number 3

To edit program:
1. Select the item which you want to edit (“Edit Program 1” - “Edit Program 3”).
2. By means of the items "Start Step" and "End Step" set first and last step of the program
3. Select the item "Edit Program Steps".
4. Select the item "Step 1".
5 From the list of effects select desired effect and set its value. Browse throw the list by pressing the [up arrow]

and [down arrow] and set all desired effects.
An item "Step Time" (value of 0-25.5 sec.) is the time during which effects last in the current step
6. Save adjusted effects to the current step by the item ✔ .
If you stay on the item ✔ and simultaneously hold the ENTER button, the current program step will be copied to the next program step.
6. Repeat the steps 5 and 6 for next program steps.
7. After editing desired program steps, adjust the length of the program by means of the items "Start Step" and "End Step".

Note.
If you have made some changes in the program steps and you are leaving the programming menu, the following notice will appear: " Program Was Modified"
" Press OK For Save"

✘ - leaves program menu without saving values

6.6 Tab "Service"

Adjust DMX Values - The menu allows you to set all effects to desired positions before fine calibration of the effects .
Calibrations - This menu enables fine calibration of fixture effects and download default calibration values.
Calibrate Effects - The menu allows the fine adjustment of effects.

Pan- a pan position fine adjustment (value range: 0-255)
Tilt - a tilt position fine adjustment (value range: 0-255)
Static Gobo - a static gobo wheel fine movement (value range: 0-255)
Rot. Gobo Wheel - a carousel of rotating gobos fine movement (value range: 0-255)
R. Gobo Index 1 - a fine movement of the rotating gobo 1 (value range: 0-255)
R. Gobo Index 2 - a fine movement of the rotating gobo 2 (value range: 0-255)
R. Gobo Index 3 - a fine movement of the rotating gobo 3 (value range: 0-255)
R. Gobo Index 4 - a fine movement of the rotating gobo 4 (value range: 0-255)
R. Gobo Index 5 - a fine movement of the rotating gobo 5 (value range: 0-255)
R. Gobo Index 6 - a fine movement of the rotating gobo 6 (value range: 0-255)
R. Gobo Index 7 - a fine movement of the rotating gobo 7 (value range: 0-255)
R. Gobo Index 8 - a fine movement of the rotating gobo 8 (value range: 0-255)
R. Gobo Index 9 - a fine movement of the rotating gobo 8 (value range: 0-255)
Prism 1 - a prism wheel 1 fine movement (value range: 0-255)
Prism 1 Rot 1 - fine rotation of prism 1 on prism wheel 1 (value range: 0-255)
Prism 1 Rot 2 - fine rotation of prism 2 on prism wheel 1 (value range: 0-255)
Prism 2 - a prism wheel 2 fine movement (value range: 0-255)
Prism 2 Rot 1 - fine rotation of prism 1 on prism wheel 2 (value range: 0-255)
Prism 2 Rot 2 - fine rotation of prism 2 on prism wheel 2 (value range: 0-255)
Zoom - a zoom module fine movement (value range: 0-255)
Focus 1 - a focus module position for rot gobo
Focus 2 - a focus module position for static gobo
Frost 1A - a frost 1 fine movement in relation to stop (value range: 0-255)
Frost 1B - a frost 1 fine position movement in relation to the optic axis (value range: 0-255)
Frost 2A - a frost 2 fine movement in relation to stop (value range: 0-255)
Frost 2B - a frost 2 fine position movement in relation to the optic axis (value range: 0-255)
Colour Wheel - a colour wheel fine movement (value range: 0-255)
Cyan - a cyan flag fine movement (value range: 0-255)
Magenta - a magenta flag fine movement (value range: 0-255)
Yellow - an yellow flag fine movement (value range: 0-255)

Calibration of the effects via the control board

1. Disconnect DMX controller from the fixture and enter the "Calibrate Effects" menu.
2. Use the [up arrow] and [down arrow] to find "Pan" and touch it to enter the fine effect adjustment screen.
3. Set desired value and save it by touching the [confirm].
4. Repeat steps 2 and 3 for next item.
5. After calibrating all effects, touch the [confirm] to save all adjusted values and reset the fixture.

Calibration protocol:

Effect	**Channel**
Pan	channel 40
Tilt	channel 41
Static gobo	channel 42
Rot. Gobo Wheel	channel 43
R. Gobo Index 1	channel 44
R. Gobo Index 2	channel 45
R. Gobo Index 3	channel 46
R. Gobo Index 4	channel 47
R. Gobo Index 5	channel 48
R. Gobo Index 6	channel 49
R. Gobo Index 7	channel 50
R. Gobo Index 8	channel 51
R. Cobo Index 9	channel 52
Prism 1	channel 53
Prism 1 Rot.1	channel 54
Prism 1 Rot. 2	channel 55
Prism 2	channel 56
Prism 2 Rot.1	channel 57
Prism 2 Rot. 2	channel 58
Zoom	channel 59
Focus 1	channel 60
Focus 2	channel 61
Frost 1A	channel 62
Frost 1B	channel 63
Frost 2A	channel 64
Frost 2B	channel 65
Colour wheel	channel 66
Cyan	channel 67
Magenta	channel 68
Yellow	channel 69

Calibrate Pan/Tilt EMS - This menu item allows calibration of the pan/tilt electronic motion stabilizer. Important: during this calibration any external force must not influence the fixture and the surface at which the fixture stands (or truss if the fixture hangs) has to be without movement, shake, strokes etc.

Load Default Calibrations - The item loads default (factory) calibration values.

Rotating Gobos Change - This menu makes changing of rotating gobos in the fixture easier.

Gobo Carousel 1 - The menu allows movement of rotating gobos on the gobo carousel to positions suitable for their changing.

G1 - a movement of the gobo 1 (gobo holder with magnet) to the changing position.

G2 - a movement of the gobo 2 to the changing position.

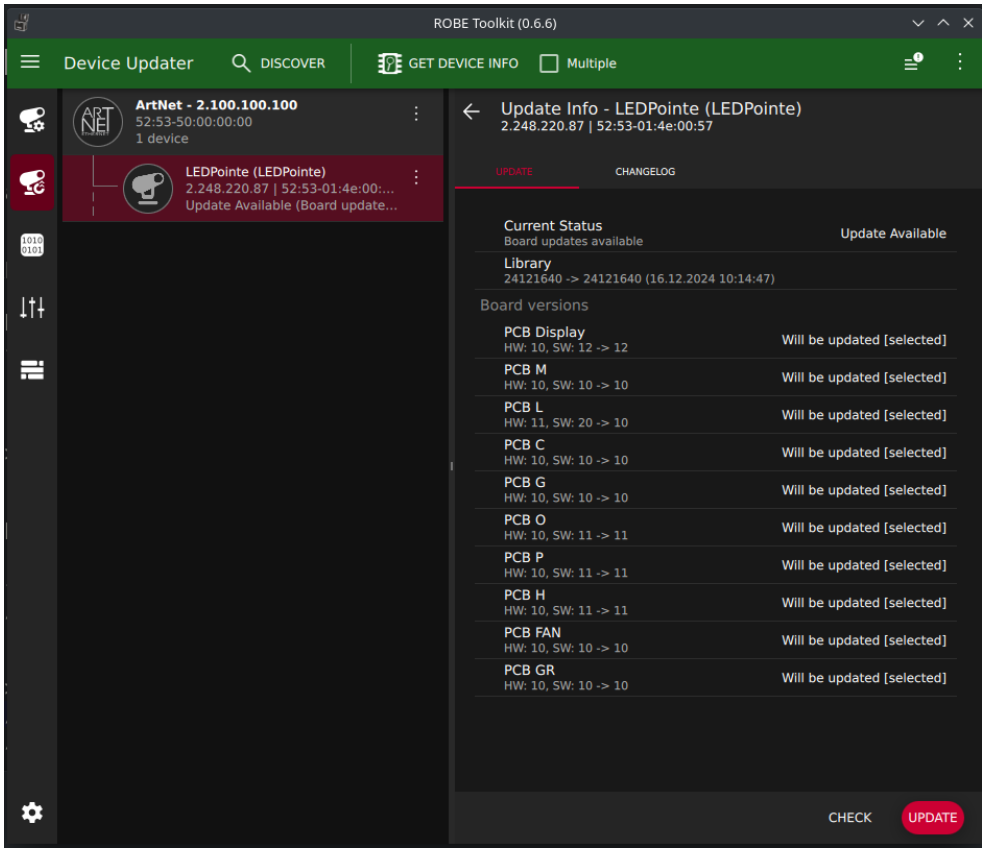
:

G9-MG - a movement of the gobo 9 to the changing position.

Gobo Offset -a gobo offset setting. The function allows fine swivelling of the gobo holder. The set value is valid for all gobos on the gobo carousel.

7. Software update

For software update of the fixture serves Robe Toolkit. The Robe Toolkit is a universal tool for Robe fixtures which includes Device Updater, Library Manager, Device Manager and simple DMX controller.
Please see the Toolkit user manual for more details about fixture update.
Software update of the LedPOINTE cannot be done by means of standard Robe Uploader software.



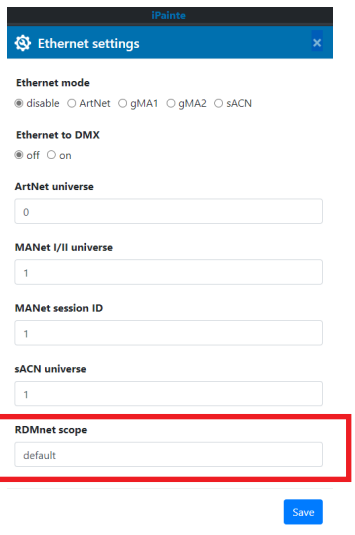
8. RDM

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 LedPOINTE 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			*
PARAMETER_DESCRIPTION			*
ROBE_DMX_INPUT		*	*
ROBE_WIRELESS_UNLINK		*	

RDM model ID for the Robin LedPOINTE is 0x014e.

If you need to set RDMnet scope, use the ROBE Ethernet Acces Portal (REAP) and menu Personality-->-->Ethernet Settings.



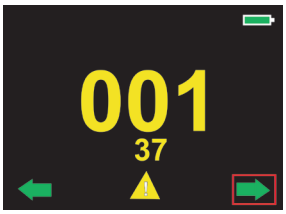
9. Robe Ethernet Access Portal (REAP)

The REAP allows you to display on your computer information about some fixture settings, operating conditions (e.g. temperature in the fixture) and error messages which were generated during fixture operation.
Your computer needs to be connected to the fixture(s) through the means of Ethernet wired network and a network switch.
The Ethernet network connection (Local LAN) typically needs to be set to 2.x.x.x address, assuming that no other computer on the network contains such an address while keeping all ROBE fixtures in default IP settings.

For more information about REAP options, computer and fixture settings please see the REAP user manual at https://www.robe.cz/res/downloads/user_manuals/User_manual_REAP.pdf

10. Error and information messages

Error in the fixture is signalled by the yellow warning icon at the bottom line of the screen:



Touch the warning icon to display error messages.

List of error and information messages:

Note: capital letter **X** in the following messages means order of the effect in the fixture (e.g. Prism 1 Error 1 Prism 2 Error 1, and so on).

Pan Error 1
Mechanical end of the pan track was not detected.

Pan Error 2
Pan sensor error.

Pan Error 3
Pan feedback error.

P/T Blackout Active
Light output from the fixture was closed. This blackout was enforced by the following effect: pan or tilt.

Pan Reset Active
Pan reset is in progress and has not been fished yet.

Tilt Error 1
Mechanical end of the tilt track was not detected.

Tilt Error 2
Tilt sensor error.

Tilt Error 3
Tilt feedback error.

Tilt Reset Active
Tilt reset is in progress and has not been fished yet.

P/T board EMS calibration needed
The EMS system is not calibrated. Run the item "Calibrate Pan/Tilt EMS" in the tab "Service"

Gyro board EMS calibration needed
The EMS system is not calibrated. Run the item "Calibrate Pan/Tilt EMS" in the tab "Service"

Cyan Error 1
Magnetic/optic sensor was not detected.

Cyan Error 2
Magnetic/optic sensor permanently detects cyan flag.

Cyan Blackout Active
Light output from the fixture was closed. This blackout was enforced by the following effect: cyan flag.

Cyan Reset Active
Cyan flag reset is in progress and has not been fished yet.

Magenta Error 1
Magnetic/optic sensor was not detected.

Magenta Error 2
Magnetic/optic sensor permanently detects magenta flag.

Magenta Blackout Active
Light output from the fixture was closed. This blackout was enforced by the following effect: magenta flag.

Magenta Reset Active
Magenta flag reset is in progress and has not been fished yet.

Yellow Error 1
Magnetic/optic sensor was not detected.

Yellow Error 2
Magnetic/optic sensor permanently detects yellow flag.

Yellow Blackout Active
Light output from the fixture was closed. This blackout was enforced by the following effect: yellow flag.

Yellow Reset Active
Yellow flag reset is in progress and has not been fished yet.

Colour Wheel X Error 1
Magnetic/optic sensor was not detected on the colour wheel X.

Colour Wheel X Error 2
Magnetic/optic sensor permanently detects colour wheel X.

CW X Blackout Active
Light output from the fixture was closed. This blackout was enforced by the following effect: colour wheel X.

CW X Reset Active
Colour wheel X reset is in progress and has not been fished yet.

Frost X Error 1
Impact to the mechanical end of the frost X track was not detected.

Frost X Error 4
Incorrect detection of a frost X track. Impact to a mechanical obstruction was detected within running of the frost.

Frost X Blackout Active
Light output from the fixture was closed. This blackout was enforced by the following effect: frost module X.

Frost X Reset Active
Frost module X reset is in progress and has not been fished yet.

Rot. Gobo Wheel X Err 1
Magnetic/optic sensor of gobo carousel X was not detected.

Rot. Gobo Wheel X Err 2
Magnetic/optic sensor permanently detects gobo carousel X.

RG Wheel X Blackout Active
Light output from the fixture was closed. This blackout was enforced by the following effect: gobo carousel X.

RG Wheel X Reset Active
Gobo carousel X reset is in progress and has not been fished yet.

Rot. Gobo X Err 1
Magnetic/optic sensor was not detected on the rotating gobo on the gobo carousel X.

Rot. Gobo X Err 2
Magnetic/optic sensor permanently detects rotating gobo on the gobo carousel X.

RG X Blackout Active
Light output from the fixture was closed. This blackout was enforced by the following effect: gobo with magnet on the gobo carousel X.

RG X Reset Active
Gobo reset on the gobo carousel X is in progress and has not been fished yet.

Static Gobo Err. 1
Magnetic/optic sensor was not detected.

Static Gobo Err. 2
Magnetic/optic sensor permanently detects static gobo wheel.

SG Blackout Active
Light output from the fixture was closed. This blackout was enforced by the following effect: static gobo wheel.

SG Reset Active
Static gobo wheel reset is in progress and has not been fished yet.

Zoom Error 1
Impact to the mechanical end of the zoom track was not detected.

Zoom Error 4
Incorrect detection of a zoom track. Impact to a mechanical obstruction was detected within running of the zoom.

F/Z Blackout Active
Light output from the fixture was closed. This blackout was enforced by the following effect: zoom or focus.

Zoom Reset Active
Zoom reset is in progress and has not been fished yet.

Focus Error 1
Impact to the mechanical end of the focus module track was not detected.

Focus Error 4
Incorrect detection of a focus track. Impact to a mechanical obstruction was detected within running of the focus module.

Focus Reset Active
Focus reset is in progress and has not been fished yet.

Prism X Wheel Error 1
Impact to the mechanical end of the prism module X track was not detected.

Prism X Wheel Error 4
Incorrect detection of a prism module X track. Impact to a mechanical obstruction was detected within running of the prism module X.

Prism Blackout Active
Light output from the fixture was closed. This blackout was enforced by prism module(s).

Prism X Wheel Reset Active
Prism module X reset is in progress and has not been fished yet.

Prism X Error 1
Magnetic/optic sensor was not detected at prism wheel X.

Prism X Error 2
Magnetic/optic sensor permanently detects prism wheel X

Prism X Reset Active
Prism wheel X reset is in progress and has not been fished yet.

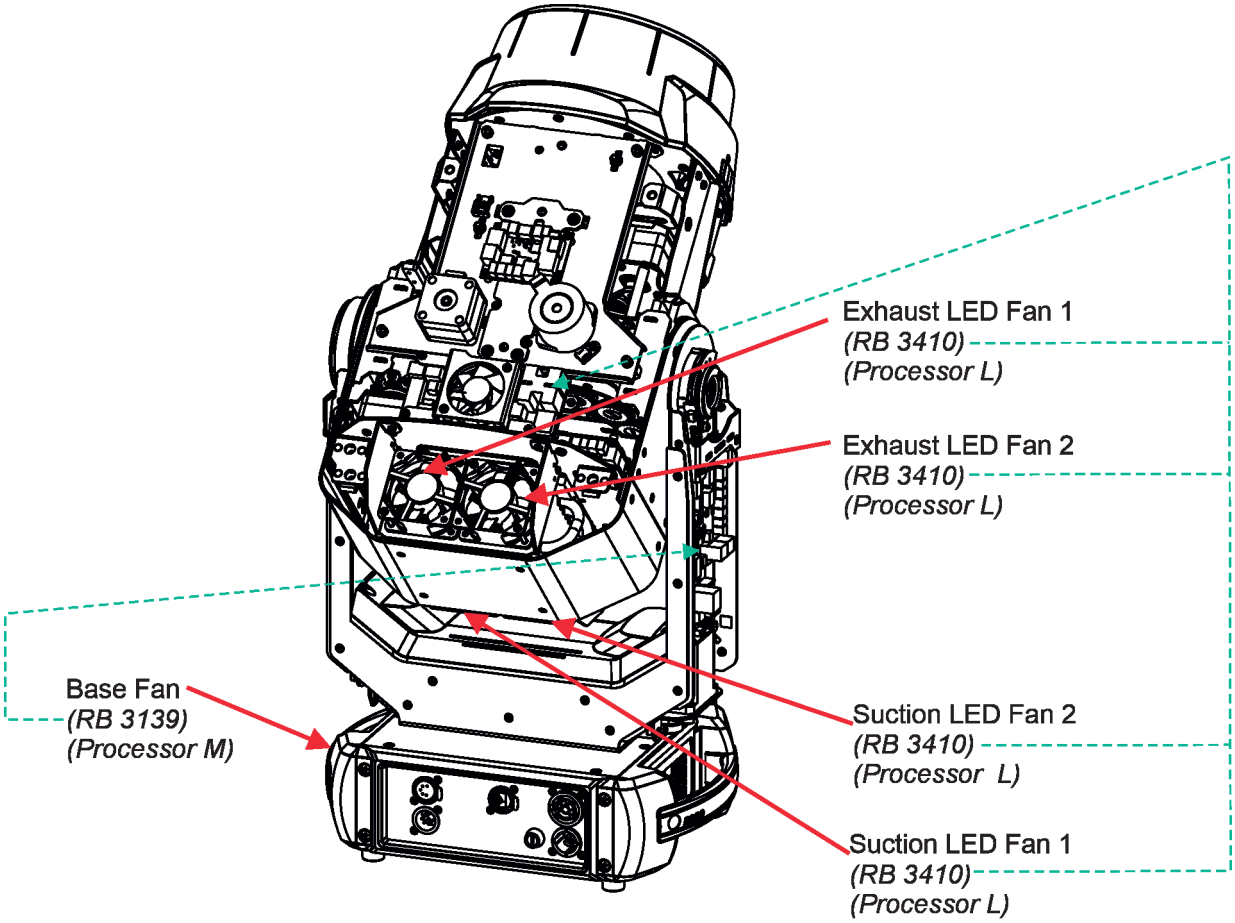
PROC X COMM ERR (e.g. PROC 2 COMM ERR)
Internal communication error - some PCB in the fixture is faulty.

MT sensor com Err
Motion and temperature sensor (LIS2DTW12) does not communicate with a control processor.

Recharge The battery
The battery on the display board needs to be charged. Let the fixture on for cca 6 hrs.

Battery Faulty. Replace it.
The battery on the display board is exhausted and should be replaced immediately.

Positions of fans (and their control PCBs)



11. Technical Specifications

Electrical

Power supply: electronic auto-ranging
Input voltage range: 100-240V, 50-60Hz
Fuse: T 6.3A/250V ~
Max. power consumption: 400 W (power factor 0.98)
Max. inrush current: 40A peak @ 240VAC, cold start
Mains output: max. 12A

Optic

Light source: TE™ 280W XP White LED Engine:
Colour temperature: 6700K
Fixture total lumen output: 10 200 lm (goniophotometer)
CRI 70
Typical lumen maintenance: L70/B50 @ 50.000 hours
Light source warranty: 4 years or 20.000 hours

Colour wheel

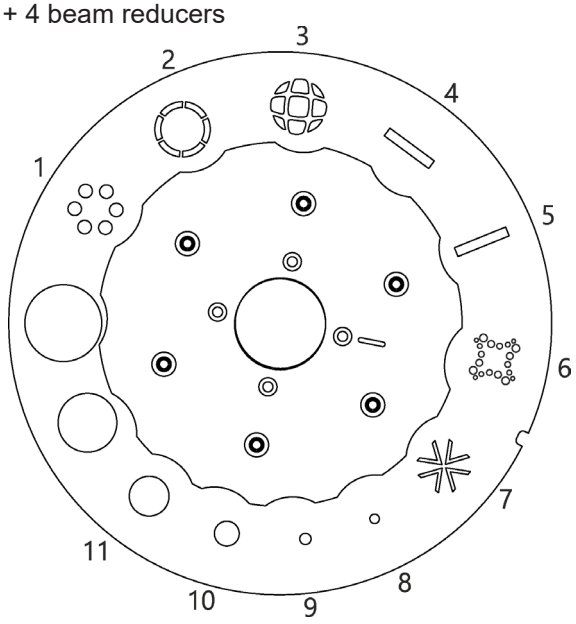
13 dichroic filters + open

CMY colour mixing

Smooth CMY colour mixing system

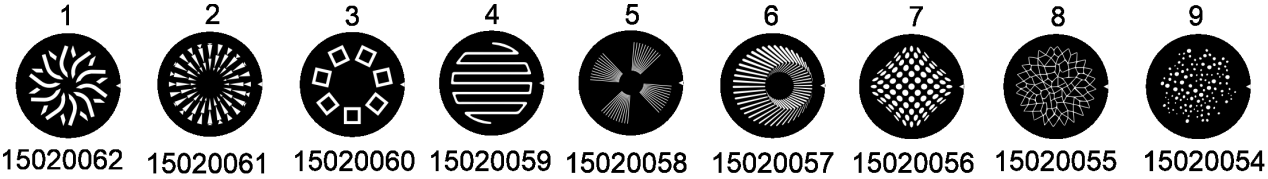
Static gobo wheel

7 metal gobos + 4 beam reducers



Rotating gobo wheel

9 glass gobos can be indexed and rotated in both directions at different speeds
Gobo wheel continuous rotation
Glass gobos: outside diameter= $15.8^{+0,15}$ mm, image diameter=12.5 mm, thickness=1.1-1.5 mm, high temperature borofloat or better glass
"Slot&lock" system for easy replacement of gobos



Prism wheel 1

1- Rotating 18-facet circular prism with continuous rotation in both directions
1- Rotating 6-facet linear prism with continuous rotation in both directions

Prism wheel 2

1- Rotating 6-facet linear multicoloured prism with continuous rotation in both directions
2- Rotating 8-facet 12° circular prism with continuous rotation in both directions

Frost filter

Two frost filters 1° and 5.°

Zoom

Motorized zoom 1.8°- 44°

Focus

Motorized focus allows to focus beam from approx. 2 meters to infinity.

Strobe

Strobe effect with variable speed (0.3 - 20Hz)

Dimmer

Smooth dimmer from 0 - 100 %

Pan/Tilt

Pan movement range 540°, continuous roration
Tilt movement range 270°
16 bit movement resolution
Automatic Pan/Tilt position correction
Pan/Tilt electronic motion stabilizer
Remotely controllable speed of pan/tilt

Control

Graphic touch screen for fixture setting and addressing
Gravitation sensor for auto screen positioning
Battery backup of the touch screen
Readout fixture usage, receiving DMX values, temperatures, etc
Built-in analyzer for easy fault finding, error messages
Silent fans cooling,
Supported protocols: USITT DMX 512, RDM, RDMnet, ArtNet, MA Net, MA Net2, sACN
1 DMX mode (39 control channels)

Wireless DMX/RDM module type RW 001 (only wireless DMX version of the fixture)

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

Max. number of fixtures in Ethernet IN/Out line

8

Connection

DMX data in/out: Locking 5-pin XLR
Ethernet In: RJ 45
Ethernet In/Out: 2 x RJ 45 (Robin LedPOINTE EP only)
Power IN: Neutrik powerCON TRUE1
Power OUT: Neutrik powerCON TRUE1

Rigging

Mounting points: 2 pairs of 1/4-turn locks
Mounting horizontally or vertically via two Omega holders

Temperatures

Maximum ambient temperature : 45° C
Maximum housing temperature : 70° C

Distances

Min. distance from flammable surfaces: 1 m
Min. distance to lit object: 5 m

Total heat dissipation

max. 1020 BTU/h (calculated)

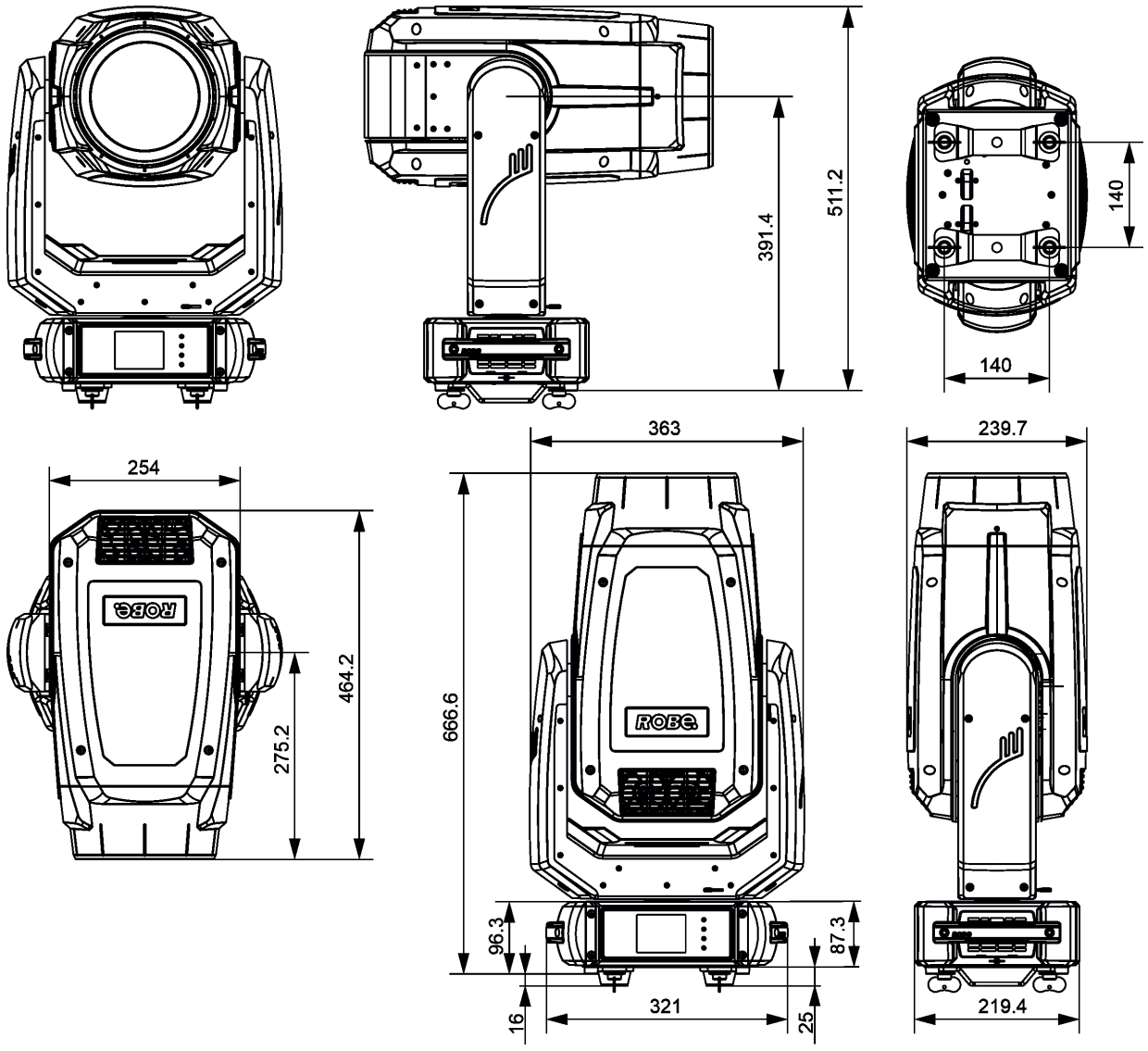
Protection factor

IP20

Weight

19.6kg (43.2 lbs)

Dimensions (mm)



Accessories

1 x Omega adapter CL-regular 2 pcs in box (P/N 10980033)
1 x Power cord including powerCON TRUE1 In connector
1 x User manual

Optional accessories

LedPointe TE™ 280W XP LED Engine (P/N 14080104)
Frost 0.5° (exchange) assembled (P/N10980690)
Frost 1° (exchange) assembled (P/N 10980691)
Frost 3.5° (exchange) assembled (P/N 10980758)
Frost 10° (exchange) assembled (P/N 10980693)
Frost 20° (exchange) assembled (P/N10980694)
Frost 30° (exchange) assembled (P/N 10980695)
Doughty Trigger Clamp (P/N 17030386)
Safety wire 36 kg (P/N 99011963)
Upgrade kit CRMX Universal 260 (P/N 99030100)

12. Maintenance and cleaning

DANGER !
Disconnect from the mains before starting any maintenance work

Never use alcohol or solvents for cleaning the front lens and covers of the fixture

It is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not build up on or within the fixture. Otherwise, the fixture‘s light output will be significantly reduced. Regular cleaning will not only ensure the maximum light output, but will also allow the fixture to function reliably throughout its life.
A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!

Front lens may require weekly cleaning as smoke-fluid tends to building up residues, reducing the light output very quickly. The cooling fans should be cleaned according to the situation (at least annually).
The interior of the head and base should be cleaned at least annually using a vacuum-cleaner.

Periodically clean the air filter placed in the fixture base. This air filter is placed under a grille, which is fastened by means of two magnets.
Use a vacuum cleaner, compressed air or you can wash them and put back dry.
After replacing the air filter, reset the elapsed time counter in the tab "Information" (Information--->Air Filters---> Elapsed Time).

More complicated maintenance and service operations are only to be carried out by authorized distributors.

12.1 Replacing the fuse

Before replacing the fuse, unplug mains lead!

1. Remove the fuse holder on the rear panel of the base with a fitting screwdriver from the housing (anti-clockwise).
2. Remove the old fuse from the fuse holder.
3. Install the new fuse in the fuse holder (only the same type and rating).
4. Replace the fuse holder in the housing and fix it.

12.2 Checking plastic parts of the fixture

The plastic parts of the fixture should be checked for damages and beginning cracks at least every two months. If hint of a crack is found on some plastic part, do not use the fixture until the damaged part will be replaced. Cracks or another damages of the plastic parts can be caused by the fixture transportation or manipulation and also aging process may influence plastic materials.
This checking is necessary for both fixed installations and preparing fixtures for renting. Any free moving parts inside of the fixture or any cracked plastic not sitting properly in place need to be immediately replaced.

12.3 Disposing of the product

To preserve the environment please dispose or recycle this product at the end of its life according to the local regulations and codes.

13. ChangeLog

This section summarizes changes in the user manual.

Version of the manual	Date of issue	Description of changes
1.1	30/04/2025	Tab Stand-alone added
1.2	23/09/2025	Led module renamed to XP

September 23, 2025

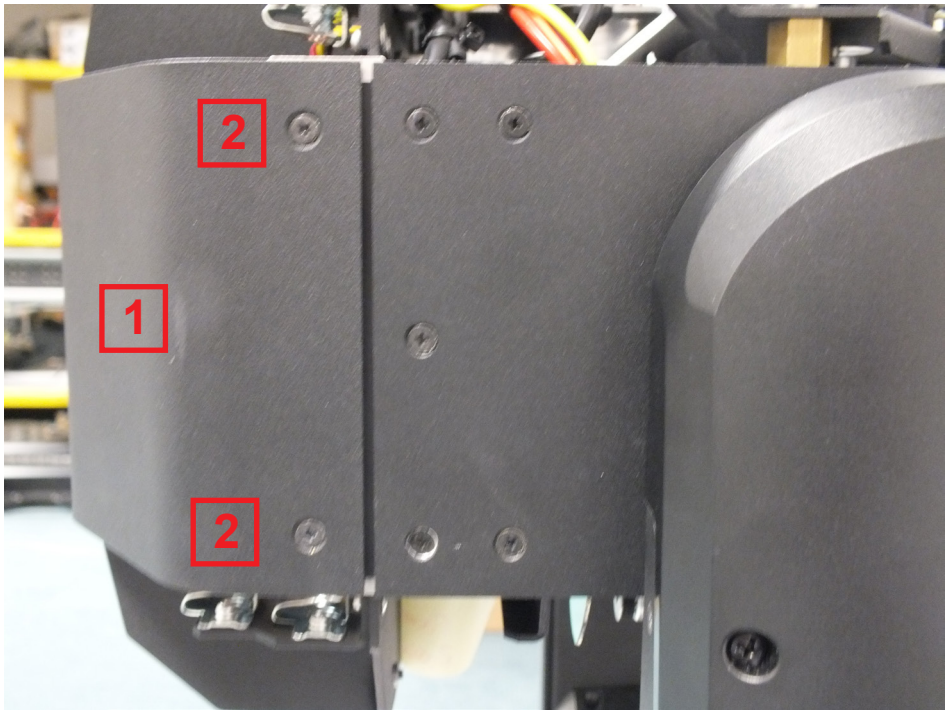
Made in ROBE Lighting s.r.o., Palackého 416, 757 01 Valašské Meziříčí, Czech Republic

14. Appendix

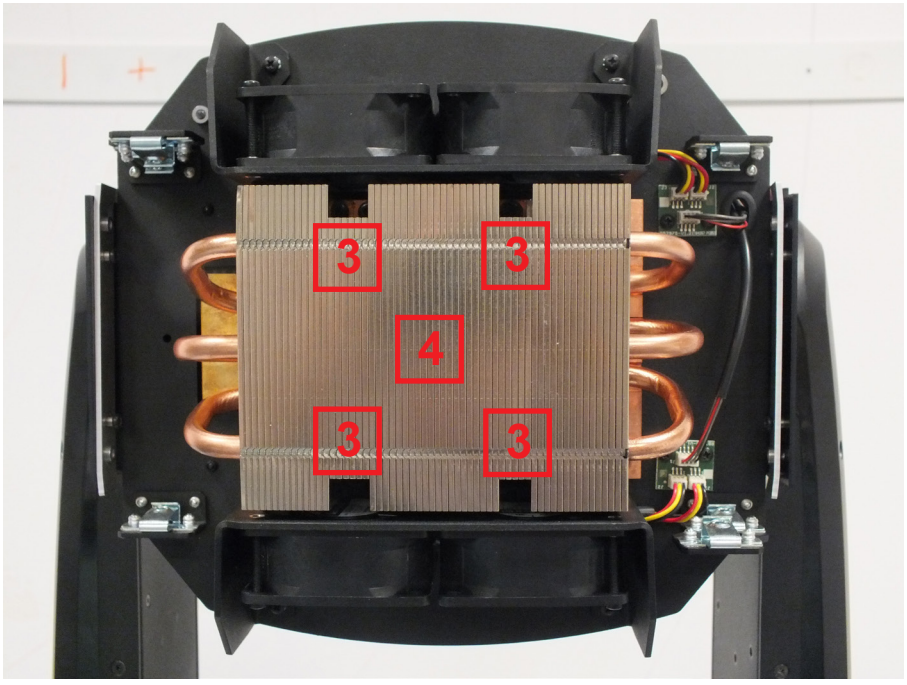
14.1Changing the LED light source

The Robin LedPOINTE allows you to change the LED light source and this way keep a high performance of the fixture.

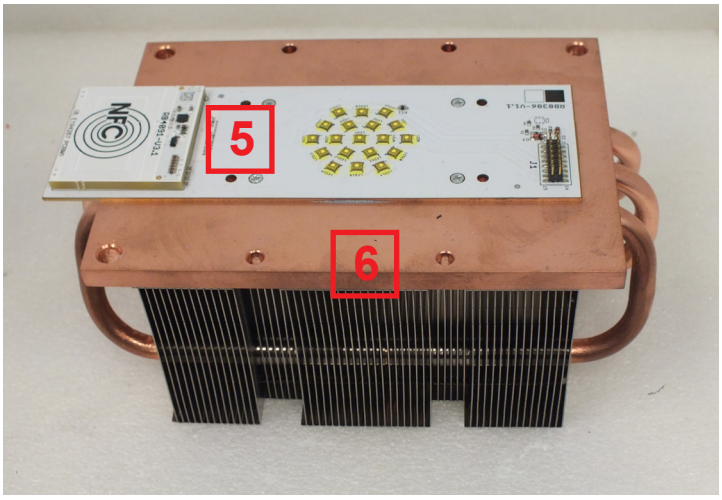
To change the LED light source.
1. Disconnect the fixture from mains and allow it to cool about 30 minutes.
2. Remove both head covers of the fixture and lock the head in a horizontal position.
3. Remove the rear cover (1) of the head by unscrewing the two screws M3x8 (2) with star washers on each side of the head.



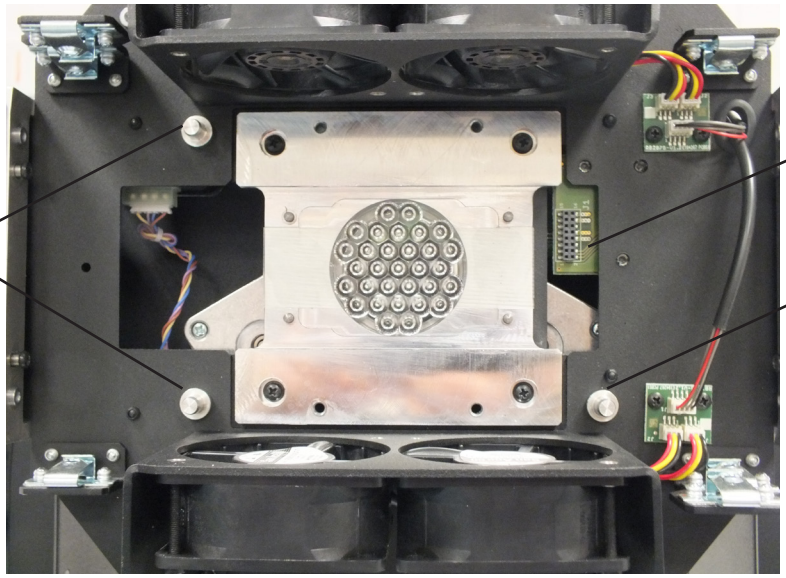
4. Unscrew the four socket cap screws M4x14 (3) with washers and carefully remove the LED module (4) from the head chassis.



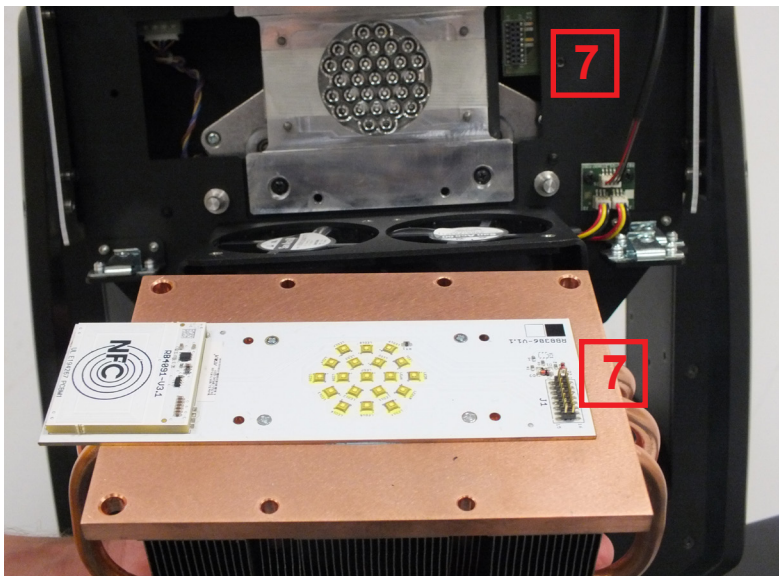
The LED module consists of the LED PCB (5) and the heatsink (6).



View of the head chassis without LED module



5. Screw the new LED module to the head by means of the he four socket cap screws M4x14 (3) with washers. LED connectors (7) have to be opposite each other



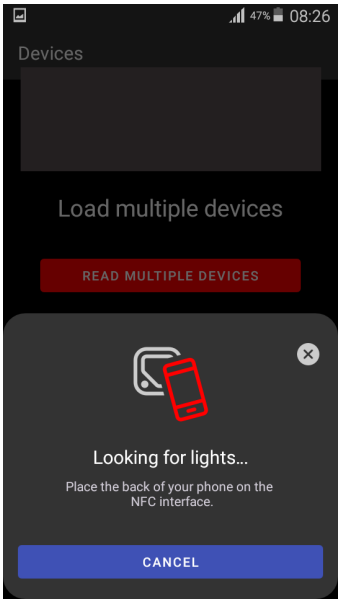
6. Screw the rear cover (1) back to the head by means of the four screws M3x8 (2) with star washers.
7. Fasten the head covers back on the head and check their attachment including securing wires.

14.2. Obtaining information about the LED light source by mobile phone

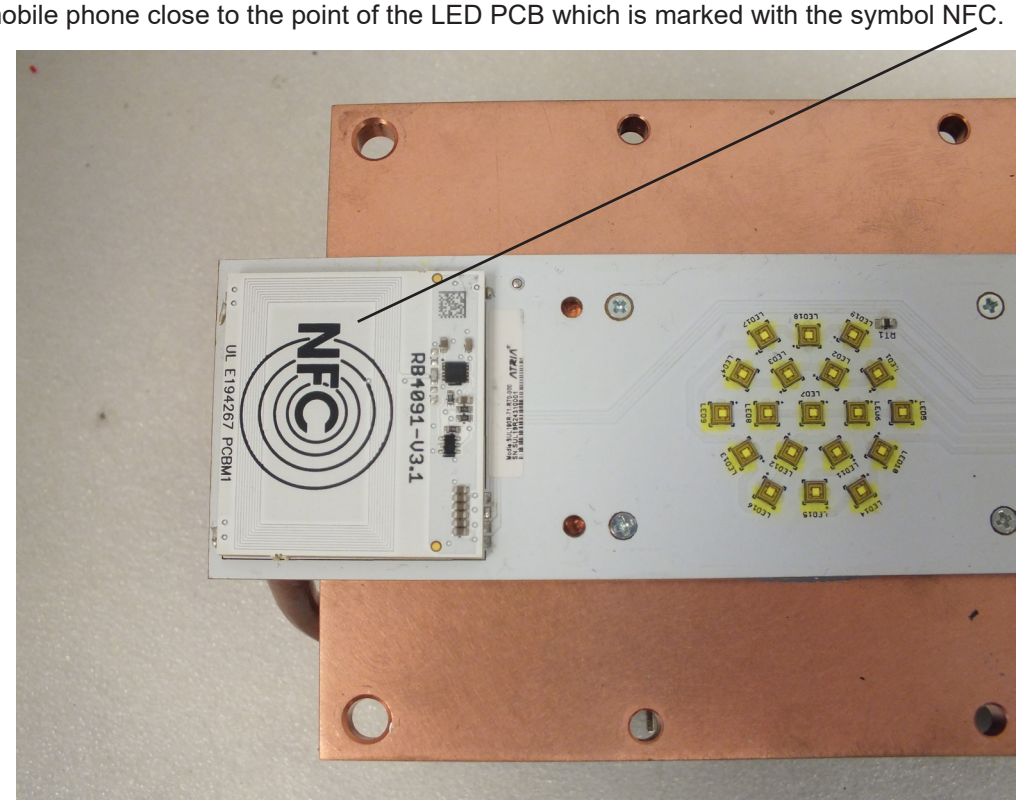
You can read information about the LED light source by means of the mobile application ROBE COM. The LED light source has to be outside of the fixture.

Download and install the application ROBE COM from Google Play (for Android 7.1 and higher) or App Store (for iOS 15.0 and higher) to your mobile phone. Your mobile phone has to support NFC (Near-Field Communication).

After installing the ROBE COM, run the application by touching the icon .
The following screen will appear:



Hold the mobile phone close to the point of the LED PCB which is marked with the symbol NFC.



If NFC connection is OK, the following screens will appear.

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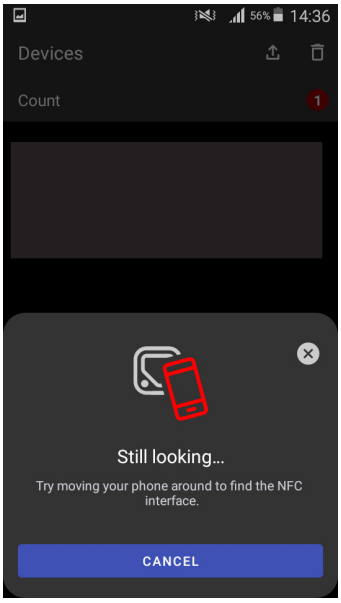
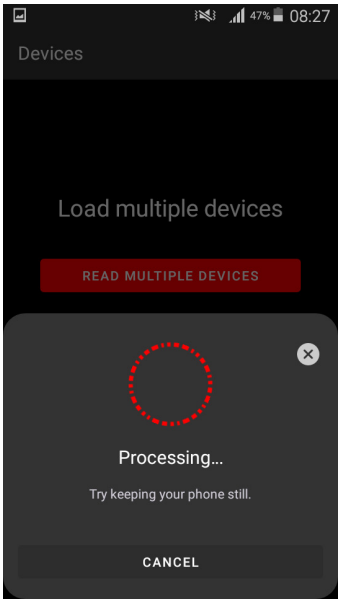
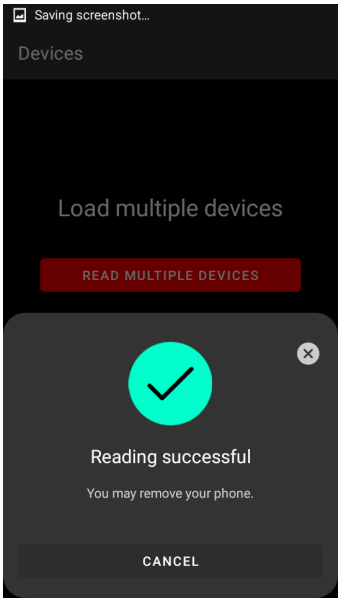
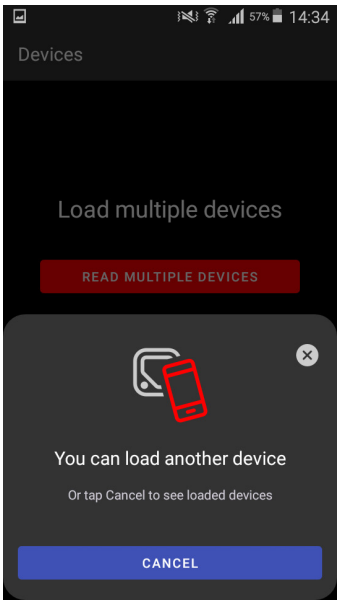


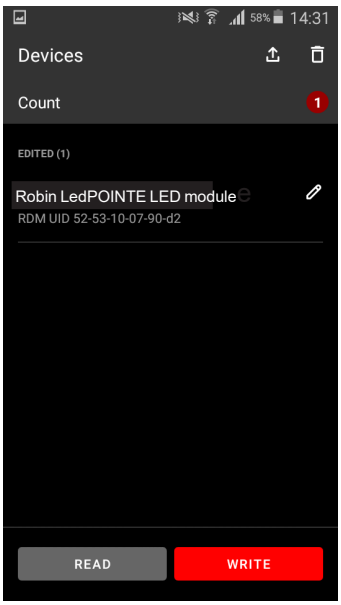


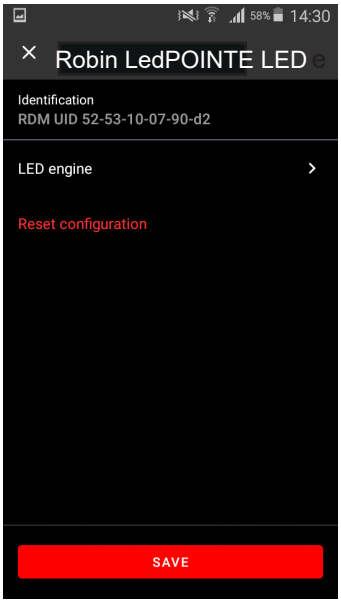


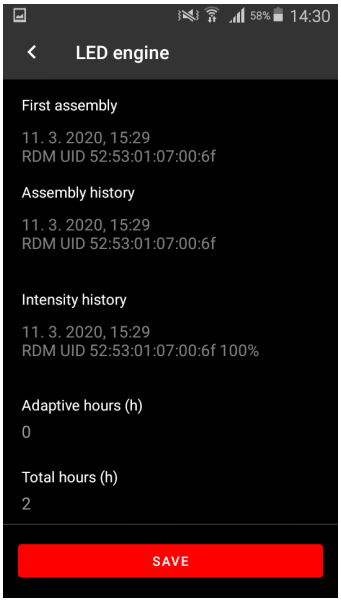
When the following screen will appear, touch the button CANCEL.



Touch the found LED module ("Robin Led LED module") and than touch "LED engine" to read information about found LED module.







ROBIN ledPOINTE® - DMX protocol			
Version 1.4			
Channel	**DMX Value**	**Function**	**Type of control**
1		**Pan**	
	0 - 255	Pan movement by 540° (128=default)	proportional
2		**Pan Fine**	
	0 - 255	Fine control of pan movement (0=default)	proportional
3		**Tilt**	
	0 - 255	Tilt movement by 270° (128=default)	proportional
4		**Tilt fine**	
	0-255	Fine control of tilt movement (0=default)	proportional
5		**Pan control**	
	0	Pan range 540°, shortcut Off (0=default)	step
	1	Pan range 360°, shortcut On	step
	2-127	No function (Pan range 540°, shortcut Off)	
	128-189	Continuous rotation fast -> slow , Forwards	proportional
	190-193	Stop rotation	step
	194-255	Continuous rotation slow -> fast , Backwards	proportional
6		**Pan/Tilt speed , Pan/Tilt time**	
	0	Standard mode (0=default)	step
	1	Max. Speed Mode	step
		Pan/Tilt speed mode	
	2 - 255	Speed from max. to min.	proportional
		Pan/Tilt time mode	
	2 - 255	Time from 0.2 s to 25.5 sec.	proportional
7		**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 37 must be at range: 0-31 DMX). Corresponding menu items are temporarily overriden.	
	10-11	DMX input: Wired DMX *	step
	12-13	DMX input: Wireless DMX *	step
		* function is active only 10 seconds after switching the fixture on	
	14-19	Reserved	
	20-21	Display On	step
	22-23	Display Off	step
	24-27	Reserved	
	28-29	Dimmer curve: Square law	step
	30-31	Dimmer curve: Linear	step
	32-33	Fans mode: Auto	step
	34-35	Fans mode: High	step
	36-37	Quiet mode: Fans On at blackout	step
	38-39	Quiet mode: Fans Off at blackout	step
	40-41	Pan/Tilt speed mode	step
	42-43	Pan/Tilt time mode	step
	44-45	Blackout while pan/tilt moving	step
	46-47	Disabled blackout while pan/tilt moving	step
	48-49	Blackout while colour wheel moving	step

Channel	DMX Value	Function	Type of control
	50-51	Disabled blackout while colour wheel moving	step
	52-53	Blackout while gobo wheels moving: On	step
	54-55	Disabled blackout while gobo wheels moving: Off	step
	56-57	Focus Tracking: On	step
	58-59	Focus Tracking: Off	step
	60-61	Parking position: On	step
	62-63	Parking position: Off	step
	64-65	Blackout while prism wheel 1 (wheel 2) moving	step
	66-67	Disabled blackout while prism wheel 1 (wheel 2) moving	step
	68-129	Reserved	
		To activate following functions, stop in DMX value for at least 3 seconds.	
	130-131	Total fixture reset (including pan/tilt)	step
	132-133	Pan/Tilt reset	step
	134-135	Colour wheels reset	step
	136-137	Gobo wheels reset	step
	138-139	Zoom/Focus/prisms/frost reset	step
	140-219	Reserved	
		The following three commands define way of transition from gobo rotation to gobo indexing:	
	220-221	Gobo indexing: Maximum speed and shortcut	step
	222-223	Goboindexing: Follow speed and direction	step
	224-225	Gobo indexing: Maximum speed and follow direction	step
	226-233	Reserved	
		The following RoboSpot related commands are only applicable when the RoboSpot is connected:	
	234-235	RoboSpot enabled	step
	236-237	RoboSpot disabled - except handle faders and pan/tilt	step
	238-239	RoboSpot fully disabled	step
	240	Disabled "Quiet mode"	step
	241-255	Quiet mode - fan noise control from min. to max.	proportional
8		**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 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).	
9		**LED frequency fine adjusting**	
		Factory display menu setting: 600Hz	
		Select desired PWM output frequency of LEDs on the channel above.	

Channel	DMX Value	Function	Type of control
	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
10		**Max. light intensity indication and setting**	
	0-10	No function (0=default)	
	11-20	Indication of drop of max. light intensity	step
		A drop of max. light intensity of the fixture (compared to its original intensity) is indicated by a corresponding colour output: *0-5%, (WHITE /new LED module/)* *6-10% (RED)* *11-15% (GREEN)* *16-20% (BLUE)* *21-25% (CYAN)* *26-30% (MAGENTA)* *31-35% (YELLOW)* *36-40% (ORANGE)* *Pan/tilt is set at 128 DMX (50%), Dimmer is open at 255 DMX (100%).*	
		To set a drop of max. light intensity (compared to original light intensity), stay at DMX value for at least 3 sec. and shutter must be closed at least 3 sec. (Channel 36 „Shutter/ Strobe" must be at range: 0-31 DMX). Corresponding menu items are permanently overwritten.	
	21-30	Set drop by 6-10% (RED)	step
	31-40	Set drop by 11-15% (GREEN)	step
	41-50	Drop by 16-20% (BLUE)	step
	51-60	Set drop by 21-25% (CYAN)	step
	61-70	Set drop by 26-30% (MAGENTA)	step
	71-80	Set drop by 31-35% (YELLOW)	step
	81-90	Set drop by 36-40% (ORANGE)	step
	91-100	Original intensity (WHITE)	step
	101-255	Reserved	
11		**Colour wheel**	
		Continual positioning	

Channel	DMX Value	Function	Type of control
	0	Open/white	proportional
	9	Deep Red	proportional
	18	Deep Blue	proportional
	27	Yellow	proportional
	37	Light green	proportional
	46	Magenta	proportional
	55	Lavender	proportional
	64	Pink	proportional
	73	Dark green	proportional
	82	CTO 2700K	proportional
	91	Blue	proportional
	101	Orange	proportional
	110	CTO 3200K	proportional
	119	UV (Kongo blue)	proportional
	128-129	White	step
		Positioning	
	130-134	Deep Red	step
	135-138	Deep Blue	step
	139-143	Yellow	step
	144-147	Light green	step
	148-152	Magenta	step
	153-157	Lavender	step
	158-161	Pink	step
	162-166	Dark green	step
	167-171	CTO 2700K	step
	172-176	Blue	step
	177-180	Orange	step
	181-185	CTO 3200K	step
	186-189	UV (Kongo blue)	step
	190 - 215	Forwards rainbow effect from fast to slow	proportional
	216 - 217	No rotation	step
	218 - 243	Backwards rainbow effect from slow to fast	proportional
	244 - 249	Random colour selection by audio control	step
		(Set microphone sensitivity in menu „Personality")	
	250 - 255	Auto random colour selection from fast to slow	proportional
12		**Colour wheel - fine positioning**	
	0 - 255	Fine positioning (0=default)	proportional
13		**Cyan**	
	0 - 255	Cyan from min. saturation --> full cyan (0=default)	proportional
14		**Magenta**	
	0 - 255	Magenta from min. saturation --> full magenta (0=default)	proportional
15		**Yellow**	
	0 - 255	Yellow from min. saturation --> full yellow (0=default)	proportional
16		**Virtual CTO**	
	0-255	Colour temperature change from 6700K --> 2700K (0=default)	proportional
17		**Green correction**	
	0	Uncorrected white	step
	1-127	Minus green --> uncorrected white	proportional

Channel	DMX Value	Function	Type of control
	128	Uncorrected white (128=default)	step
	129-255	Uncorrected white --> Plus green	proportional
18		**Virtual colour wheel**	
	0	No function (0=default)	step
	1-2	Filter 4 (Medium Bastard Amber)	step
	3-4	Filter 10 (Medium Yellow)	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 71 (Tokyo Blue)	step
	15-16	Filter 79 (Just Blue)	step
	17-18	Filter 88 (Lime Green)	step
	19-20	Filter 90 (Dark Yellow Green)	step
	21-22	Filter 100 (Spring Yellow)	step
	23-24	Filter 101 (Yellow)	step
	25-26	Filter 102 (Light Amber)	step
	27-28	Filter 103 (Straw)	step
	29-30	Filter 104 (Deep Amber)	step
	31-32	Filter 105 (Orange)	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 116 (Medium Blue-Green)	step
	41-42	Filter 117 (Steel Blue)	step
	43-44	Filter 118 (Light Blue)	step
	45-46	Filter 119 (Dark Blue)	step
	47-48	Filter 120 (Deep Blue)	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
	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 139 (Primary Green)	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 158 (Deep Orange)	step
	83-84	Filter 162 (Bastard Amber)	step
	85-86	Filter 164 (Flame Red)	step
	87-88	Filter 165 (Daylight Blue)	step

Channel	DMX Value	Function	Type of control
	89-90	Filter 169 (Lilac Tint)	step
	91-92	Filter 170 (Deep Lavender)	step
	93-94	Filter 172 (Lagoon Blue)	step
	95-96	Filter 179 (Chrome Orange)	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 205 (Half C.T. Orange)	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 715 (Cabana Blue)	step
	129-130	Filter 778 (Millennium Gold)	step
	131-132	Filter 793 (Vanity Fair)	step
	133-255	Reserved	
19		**CMY and Colour wheel time**	
	0	Function is off (0=default)	step
	1 - 255	Time of CMY and Colour wheel movement (0.1sec-->25.5sec.)	proportional
20		**Zoom/Focus/Frost/Prism time**	
	0	Function is off (0=default)	step
	1 - 255	Time of zoom, focus and frost movement (0.1 sec-->25.5 sec.)	proportional
	1-50	Time of prism movement (0.1 sec-->5 sec.)	proportional
21		**Static gobo wheel**	
	0-1	Open/hole (0=default)	step
		Positioning	
	2-8	Gobo 1	step
	9-15	Gobo 2	step
	16-22	Gobo 3	step
	23-29	Gobo 4	step
	30-36	Gobo 5	step
	37-43	Gobo 6	step
	44-50	Gobo 7	step
	51-57	Beam reducer 1	step
	58-64	Beam reducer 2	step
	65-71	Beam reducer 3	step
	72-78	Beam reducer 4	step
		Shaking gobos from slow to fast	
	79-89	Gobo 1	proportional
	90-100	Gobo 2	proportional
	101-111	Gobo 3	proportional

Channel	DMX Value	Function	Type of control
	112-122	Gobo 4	proportional
	123-133	Gobo 5	proportional
	134-144	Gobo 6	proportional
	145-155	Gobo 7	proportional
	156-166	Beam reducer 1	proportional
	167-177	Beam reducer 2	proportional
	178-188	Beam reducer 3	proportional
	189-199	Beam reducer 4	proportional
	200-201	Open/hole	step
	202 - 222	Forwards gobo wheel rotation from fast to slow	proportional
	223 - 243	Backwards gobo wheel rotation from slow to fast	proportional
	244 - 249	Reserved	step
	250 - 255	Auto random gobo selection from fast to slow	proportional
22		**Rotating gobo wheel**	
		Index - set indexing on channel 24	
	0-4	Open/Hole (0=default)	step
	5-7	Gobo 1	step
	8-10	Gobo 2	step
	11-13	Gobo 3	step
	14-16	Gobo 4	step
	17-19	Gobo 5	step
	20-22	Gobo 6	step
	23-25	Gobo 7	step
	26-28	Gobo 8	step
	29-31	Gobo 9	step
		Rotation - set rotation on channel 24	
	32-34	Gobo 1	step
	35-37	Gobo 2	step
	38-40	Gobo 3	step
	41-43	Gobo 4	step
	44-46	Gobo 5	step
	47-49	Gobo 6	step
	50-52	Gobo 7	step
	53-55	Gobo 8	step
	56-59	Gobo 9	step
		Continual positioning	
		Index - set indexing on channel 24	
	60	Open/hole	proportional
	67	Gobo 1	proportional
	74	Gobo 2	proportional
	81	Gobo 3	proportional
	88	Gobo 4	proportional
	95	Gobo 5	proportional
	102	Gobo 6	proportional
	109	Gobo 7	proportional
	116	Gobo 8	proportional
	123	Gobo 9	proportional
	130	Open/hole	proportional

Channel	DMX Value	Function	Type of control
		Continual positioning	
		Rotation - set rotation on channel 24	
	131	Open/hole	proportional
	138	Gobo 1	proportional
	145	Gobo 2	proportional
	152	Gobo 3	proportional
	159	Gobo 4	proportional
	166	Gobo 5	proportional
	173	Gobo 6	proportional
	180	Gobo 7	proportional
	187	Gobo 8	proportional
	194	Gobo 9	proportional
	201	Open/hole	proportional
	202 - 222	Forwards gobo wheel rotation from fast to slow	proportional
	223 - 243	Backwards gobo wheel rotation from slow to fast	proportional
	244 - 249	Reserved	
	250-255	Auto random gobo selection from fast to slow	proportional
23		**Rotating gobo wheel - fine positioning**	
	0 - 255	Fine positioning (0=default)	proportional
24		**Rot. Gobo indexing/rotation**	
		Gobo indexing **-** *set position on channel 22*	
	0 - 255	Gobo indexing (128=default)	proportional
		Gobo rotation **-** *set position on channel 22*	
	0	No rotation	step
	1 - 127	Gobo rotation from fast to slow - CW (clockwise)	proportional
	128	No rotation (128=default)	step
	129 - 255	Gobo rotation from slow to fast - CCW (counterclockwise)	proportional
25		**Rot. Gobo indexing/rotation - fine**	
	0-255	Fine indexing/rotation (0=default)	proportional
26		**Prism wheel 1**	
		Note: prism wheel 1 and frost cannot be be inserted into light beam at the same time	
	0-3	Open position/hole (0=default)	step
		Index **-** *set indexing on channel 27*	
	4-7	Prism 1- 18-facet circular	step
	8-11	Prism 2 - 6-facet linear	step
		Rotation **-** *set rotation on channel 27*	
	12-15	Prism 1- 18-facet circular	step
	16-19	Prism 2 - 6-facet linear	step
	20-255	Reserved	
27		**Prism wheel 1 indexing/rotation**	
		Prism indexing **-** *set position on channel 26*	
	0 - 255	Prism indexing	proportional
		Prism rotation **-** *set position on channel 26*	
	0	No rotation	step
	1 - 127	Prism rotation from fast to slow - CW (clockwise)**	proportional
	128	No rotation (128=default)	step
	129-255	Prism rotation from slow to fast - CCW (counterclockwise)**	proportional

Channel	DMX Value	Function	Type of control
28		**Prism wheel 2**	
		Note: prism wheel 2 and frost cannot be be inserted into light beam at the same time	
	0-3	Open position/hole (0=default)	step
		Index - *set indexing on channel 29*	
	4-7	Prism 1 - 6-facet linear multicoloured	step
	8-11	Prism 2 - 8-facet 12° circular	step
		Rotation - *set rotation on channel 29*	
	12-15	Prism 1 - 6-facet linear multicoloured	step
	16-19	Prism 2 - 8-facet 12° circular	step
	20-255	Reserved	
29		**Prism wheel 2 indexing/rotation**	
		Prism indexing *- set position on channel 28*	
	0 - 255	Prism indexing	proportional
		Prism rotation *- set position on channel 28*	
	0	No rotation	step
	1 - 127	Prism rotation from fast to slow - CW (clockwise)**	proportional
	128	No rotation (128=default)	step
	129-255	Prism rotation from slow to fast - CCW (counterclockwise)**	proportional
30		**SpektraBeam (Beam effects)**	
		When SpektraBeam is used, the following channels are not active: Prism Wheel 1, Prism Wheel 2, Prism Wheel 1 rot., Prism Wheel 2 rot., Static gobo, Rot. Gobo gobo, Rot. Gobo Rotation (for Effects 13,14,15 only: Cyan, Magenta, Yellow)	
		All effects were done at max. zoom (0 DMX)	
	0 - 3	Open position/hole (0=default)	step
		Index - *set indexing on channel 31*	
	4-5	Effect 1	step
	6-7	Effect 2	step
	8-9	Effect 3	step
	10-11	Effect 4	step
	12-13	Effect 5	step
	14-15	Effect 6	step
	16-17	Effect 7	step
	18-19	Effect 8	step
	20-21	Effect 9	step
	22-23	Effect 10	step
	24-25	Effect 11	step
	26-27	Effect 12	step
		Effects 13, 14, 15 block Cyan, Magenta and Yellow channels	
	28-29	Effect 13	step
	30-31	Effect 14	step
	32-33	Effect 15	step
		Rotation - *set rotation on channel 31*	
	34-35	Effect 1	step
	36-37	Effect 2	step
	38-39	Effect 3	step
	40-41	Effect 4	step
	42-43	Effect 5	step

Channel	DMX Value	Function	Type of control
	44-45	Effect 6	step
	46-47	Effect 7	step
	48-49	Effect 8	step
	50-51	Effect 9	step
	52-53	Effect 10	step
	54-55	Effect 11	step
	56-57	Effect 12	step
		Effects 13, 14, 15 block Cyan, Magenta and Yellow channels	
	58-59	Effect 13	step
	60-61	Effect 14	step
	62-63	Effect 15	step
	64-255	Reserved	
31		**SpektraBeam rotation and indexing**	
		When SpektraBeam is used, the following channels are not active: Prism Wheel 1, Prism Wheel 2, Prism Wheel 1 rot., Prism Wheel 2 rot., Static gobo, Rot. Gobo gobo, Rot. Gobo Rotation (for Effects 13,14,15 only: Cyan, Magenta, Yellow)	
		SpektraBeam effect indexing *- set position on channel 30*	
	0 - 255	SpektraBeam effect indexing	proportional
		SpektraBeam effect rotation *- set position on channel 30*	
	0	No rotation	step
	1 - 127	SpektraBeam effect rotation from fast to slow - CW (clockwise)**	proportional
	128	No rotation (128=default)	step
	129-255	SpektraBeam effect rotation from slow to fast - CCW (counterclockwise)**	proportional
32		**Frost**	
		Note: prism 1or 2 and frost cannot be be inserted into light beam at the same time	
	0	Open (0=default)	step
		(Frost cannot stay in intermediate position, it will auto-move to full/open position).	
		Light Frost	
	1-50	Light Frost from 0% to 100%	proportional
	51-53	100% Light Frost	step
	54-63	Pulse closing from slow to fast	proportional
	64-73	Pulse opening from fast to slow	proportional
	74-83	Ramping from fast to slow	proportional
	84-86	Open	step
		Medium Frost	
	87-136	Medium Frost from 0% to 100%	proportional
	137-139	100% Medium Frost	step
	140-149	Pulse closing from slow to fast	proportional
	150-159	Pulse opening from fast to slow	proportional
	160-169	Ramping from fast to slow	proportional
	170-172	Open	step
		Combined Frost	
	173-222	Medium Frost from 0% to 100% (Light Frost inserted)	proportional
	223-225	100% Medium Frost (Light Frost inserted)	step
	226-235	Pulse closing from slow to fast	proportional
	236-245	Pulse opening from fast to slow	proportional

Channel	DMX Value	Function	Type of control
	246-255	Ramping from fast to slow	proportional
33		**Zoom**	
	0 - 255	Zoom from max. to min.beam angle (128=default)	proportional
34		**Zoom - fine**	
	0-255	Fine zooming (0=default)	proportional
35		**Focus**	
	0 - 255	Continuous adjustment from far to near (128=default)	proportional
36		**Focus - fine**	
	0- 255	Fine focusing (0=default)	proportional
37		**Shutter/ strobe**	
	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	proportional
	192 - 223	Random strobe-effect from slow to fast	proportional
	224 - 255	Shutter open	step
38		**Dimmer intensity**	
	0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
39		**Dimmer intensity - fine**	
	0 - 255	Fine dimming (0=default)	proportional

** CW and CCW rotation is determined from the perspective of the fixture's mounting point, looking along the projected beam’s directon

All Specifications subject to change without notice

ROBIN ledPOINTE - colours on Virtual Colour Wheel				
Colour name	**Cyan** (DMX)	**Magenta** (DMX)	**Yellow** (DMX)	**Colour Wheel** (DMX)
Filter 4 (Medium Bastard Amber)	0	143	192	0
Filter 10 (Medium Yellow)	73	133	237	0
Filter 19 (Fire)	105	235	255	0
Filter 26 (Bright Red)	0	133	0	133
Filter 58 (Lavender)	74	159	66	0
Filter 68 (Sky Blue)	220	22	94	0
Filter 71 (Tokyo Blue)	255	110	133	136
Filter 79 (Just Blue)	255	82	74	0
Filter 88 (Lime Green)	37	52	197	0
Filter 90 (Dark Yellow Green)	255	0	220	0
Filter 100 (Spring Yellow)	0	91	220	0
Filter 101 (Yellow)	0	113	255	0
Filter 102 (Light Amber)	0	115	211	0
Filter 103 (Straw)	0	102	182	0
Filter 104 (Deep Amber)	0	136	227	0
Filter 105 (Orange)	0	174	255	0
Filter 106 (Primary Red)	0	255	255	0
Filter 111 (Dark Pink)	0	185	187	0
Filter 115 (Peacock Blue)	219	0	183	0
Filter 116 (Medium Blue-Green)	230	0	209	154
Filter 117 (Steel Blue)	95	36	125	0
Filter 118 (Light Blue)	255	0	147	0
Filter 119 (Dark Blue)	255	0	6	173
Filter 120 (Deep Blue)	255	0	40	174
Filter 121 (Filter Green)	127	0	222	0
Filter 128 (Bright Pink)	0	227	189	0
Filter 131 (Marine Blue)	193	0	187	0
Filter 132 (Medium Blue)	255	58	93	0
Filter 134 (Golden Amber)	0	176	221	0
Filter 135 (Deep Golden Amber)	0	225	255	0
Filter 136 (Pale Lavender)	0	115	122	0
Filter 137 (Special Lavender)	64	108	99	0
Filter 138 (Pale Green)	39	64	170	0
Filter 139 (Primary Green)	231	35	255	0
Filter 141 (Bright Blue)	255	0	126	0
Filter 147 (Apricot)	0	164	214	0
Filter 148 (Bright Rose)	0	229	207	0

Colour name	Cyan (DMX)	Magenta (DMX)	Yellow (DMX)	Colour Wheel (DMX)
Filter 152 (Pale Gold)	0	125	187	0
Filter 154 (Pale Rose)	33	136	185	0
Filter 157 (Pink)	0	193	204	0
Filter 158 (Deep Orange)	0	200	255	0
Filter 162 (Bastard Amber)	0	106	175	0
Filter 164 (Flame Red)	0	254	233	0
Filter 165 (Daylight Blue)	209	98	146	0
Filter 169 (Lilac Tint)	0	102	131	0
Filter 170 (Deep Lavender)	0	136	115	0
Filter 172 (Lagoon Blue)	255	0	146	0
Filter 179 (Chrome Orange)	0	171	255	0
Filter 180 (Dark Lavender)	137	182	66	0
Filter 181 (Congo Blue)	0	255	151	187
Filter 197 (Alice Blue)	192	114	111	0
Filter 201 (Full C.T. Blue)	104	89	134	0
Filter 202 (Half C.T. Blue)	94	97	152	0
Filter 203 (Quarter C.T. Blue)	104	128	192	0
Filter 204 (Full C.T. Orange)	0	147	209	0
Filter 205 (Half C.T. Orange)	0	117	194	0
Filter 206 (Quarter C.T. Orange)	0	103	173	0
Filter 247 (Filter Minus Green)	0	140	167	0
Filter 248 (Half Minus Green)	0	120	160	0
Filter 281 (Three Quarter C.T. Blue)	95	94	127	0
Filter 285 (Three Quarter C.T. Orange)	0	133	204	0
Filter 352 (Glacier Blue)	205	73	136	0
Filter 353 (Lighter Blue)	202	100	182	0
Filter 715 (Cabana Blue)	235	184	129	0
Filter 778 (Millennium Gold)	0	214	255	0
Filter 793 (Vanity Fair)	0	255	206	148