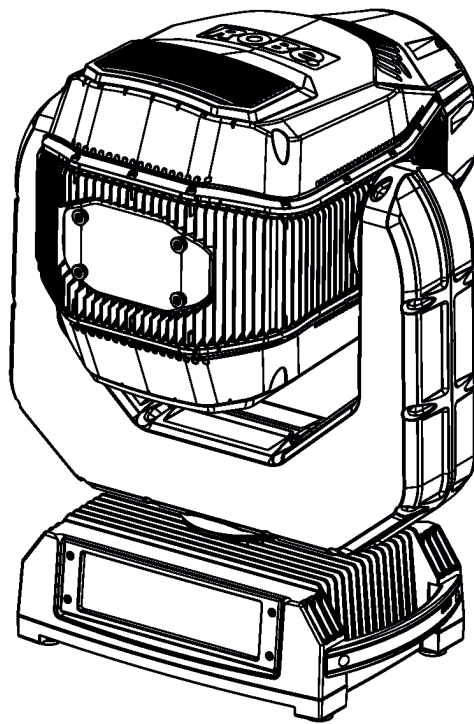# ROBIN® iPointe65

ROBIN® iPointe65

Wireless DMX

CRMX™

ROBIN®
Innovative Technology

USER MANUAL

Version 1.7

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

Robin iPointe65

Table of contents

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

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

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

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

The Robin iPointe65 was designed for outdoor use and it is intended for professional application only. It is not for household use.

1. Safety instructions

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

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

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

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

Do not allow anything to rest on the power cord. Do not locate this fixture where the cord may be damaged by persons walking on it.

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

Refer servicing to qualified service personnel.

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

Do not connect this fixture to a dimmer pack.

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

The housing of the fixture becomes hot during its operation.

For replacement use lamps and fuses of same type and rating only.

Risk group 2, RG-2: CAUTION.
Do not stare at exposed lamp in operation. May be harmful to the eyes.
Avoid looking directly into the light source.

Before switching the fixture off, turn its lamp off and allow the fixture to cool for a while.

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

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

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

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

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

Always use a safety wire for overhead installation.

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

Warning
Minimum distance between the moving head and a surface of illuminated object
must be 15 meters or more (lamp in Standard Mode).

The maximum ambient temperature must never be exceeded.

CAUTION!
The front glass cover has to be replaced when it is obviously damaged,
e. g. due to cracks or deep scratches!

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

CAUTION!
The lamp has to be replaced when is damaged
or deformed due to the heat!

CAUTION!
Fast on-off-cycles (e.g. 10 min. on / 10 min. off) will reduce lamp life.

CAUTION!
To avoid damage of the internal parts of the fixture head, never let the sunlight
(or other light source) lights directly to the front glass cover, even when the fixture is
not in operation !

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

2. Fixture exterior view
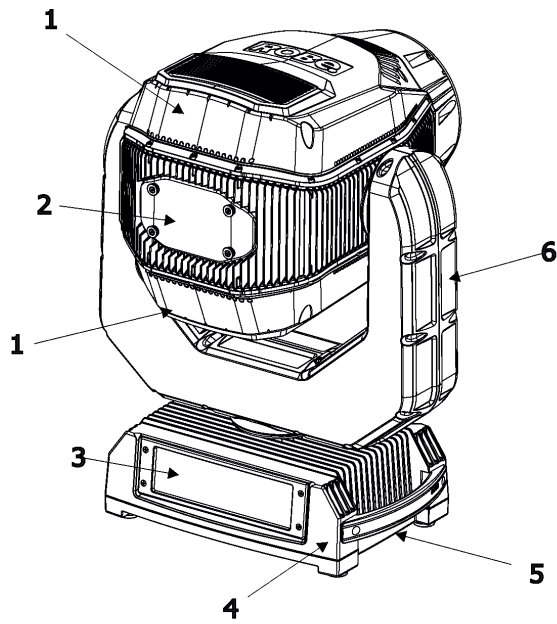
1 - Head covers
2 - Lamp cover
3 - Front control panel
4 - Base
5 - Handles
6 - Arm
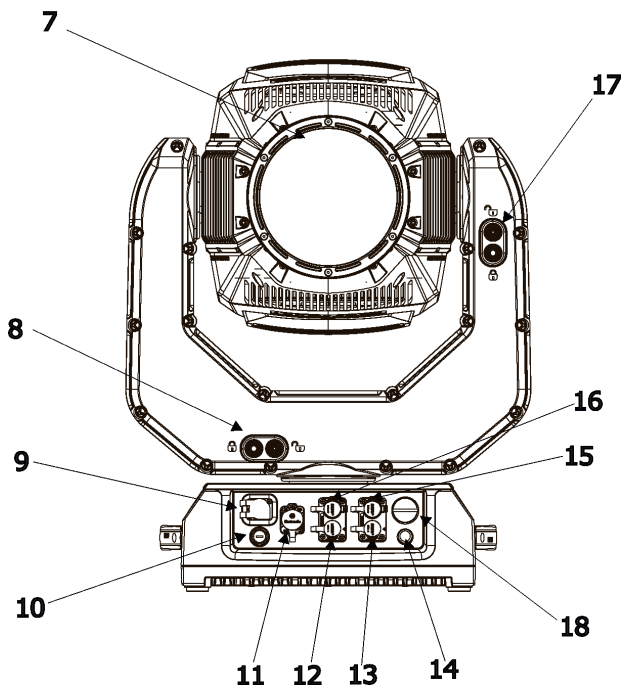
  7 - Front glass cover
  8 - Pan lock
  9 - Power In (Neutrik TrueOne)
10 - Fuse holder
11 - Ethernet (RJ45)
12 - DMX In (3-pin XLR)
13 - DMX In (5-pin XLR)
14 - Gore valve
15 - DMX Out (5-pin XLR)
16 - DMX Out (3-pin XLR)
17 - Tilt lock
18 - Battery holder cover

The moving head should be locked for transportation - both pan lock (8) and tilt lock (17) have to be in locked positions. Before operating the fixture, unlock the pan/tilt locks.

3. Installation

The Robin iPointe65´s panel connectors are dust and water protected according to IP 65 by mating with related cable connectors. They cannot stay disconnected outdoor.
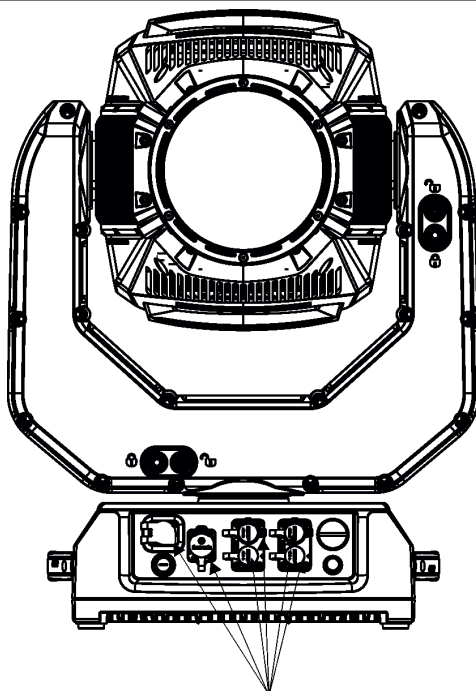*All unused panel connectors have to be sealed by the rubber caps.*
Visually check panel connectors on accidental water leaks before connecting related cable connectors.
If some water will appear in panel connectors, do not connect cable connectors, especially power!

The rubber caps have to be placed on unused connectors.

3.1 Connection to the mains

To apply power, first check that the head pan and tilt locks are released.

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

Wiring and connection work must be carried out by a qualified electrician.
The Robin iPointe65 is equipped with auto-switching power supply that automatically adjusts to any 50-60Hz AC power source from 100-240 Volts.
Power cable is enclosed to the fixture. 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.

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

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

3.2 Changing the lamp

> **DANGER !**
> **Install the lamp with the fixture unplug from mains !**

1. Disconnect the fixture from mains and allow it to cool approximately 60 minutes. Lock the head in a suitable position (by means of the pan and tilt locks).
2. Unscrew the four hex socket head screws (1) (with washers and spring washers) on the lamp cover using an Alen key 2.5 and remove the lamp cover (2).
3. Gently remove both fastons (3) from flat terminals of the lamp.
4. Holding the lamp by its ceramic base (4), carefully turn the lamp counter-clockwise by a quarter turn to release the lamp from a lamp holder.
5 Holding the new lamp by its ceramics base (4), carefully insert the lamp into the lamp holder and turn it clockwise by a quarter turn until you it reach a stop. Do not touch the lamp with bare hands. If necessary, lamp can be cleaned with lint free towel before operation.
   Do not install a lamp with a higher wattage! A lamp like this generates temperatures the device is not designed for. Please follow the lamp manufacturer's notes.
6. Slide both fastons (3) on the lamp terminals and check that fastons are fastened properly.
7. Carefully check the gasket (5) for signs of deformities or hardening and if it is correctly placed in the groove of the head housing.
8. Re-insert the lamp cover (2) and tighten the four hex socket head screws (1) using a tightening torque of 2-2.3Nm.
9. Connect the fixture to the mains.
10. Reset the "Lamp On Time" and "Lamp Strikes" counters in the menu "Information".

> **This lamp emits ultra violet (UV) radiation and operates at high pressure!**
> **Do not operate this fixture without properly fastened the lamp cover !**
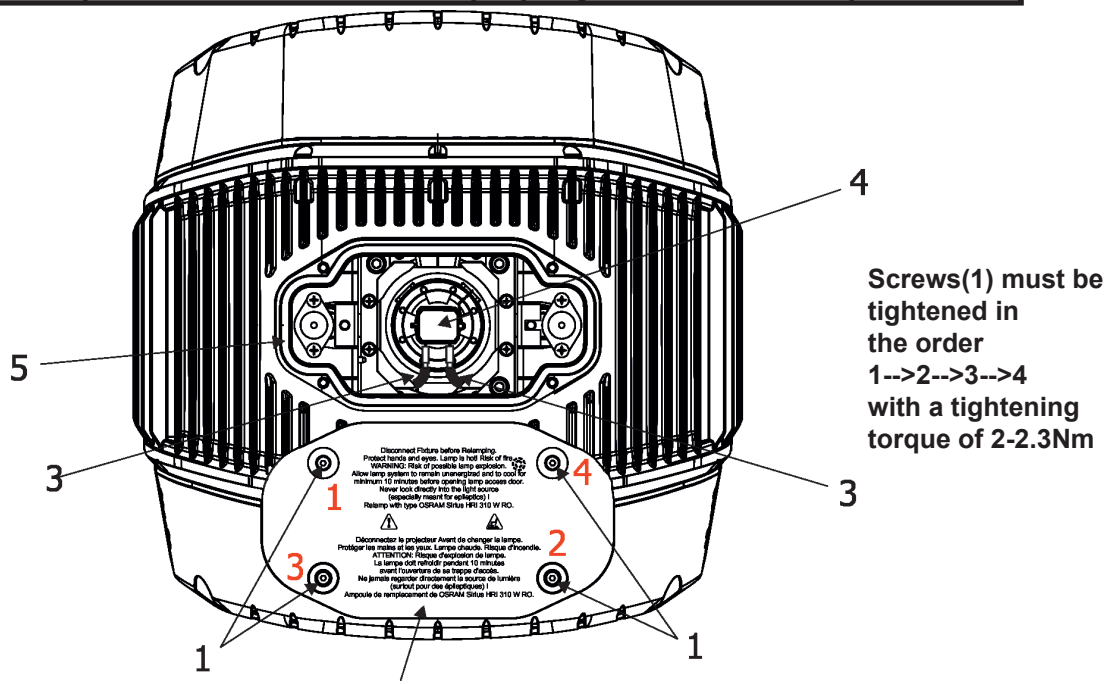
Screws(1) must be tightened in the order 1-->2-->3-->4 with a tightening torque of 2-2.3Nm

Unlocking and removing the lamp

| Lamp in locked position | Turn the lamp left | Lamp in unlocked position |
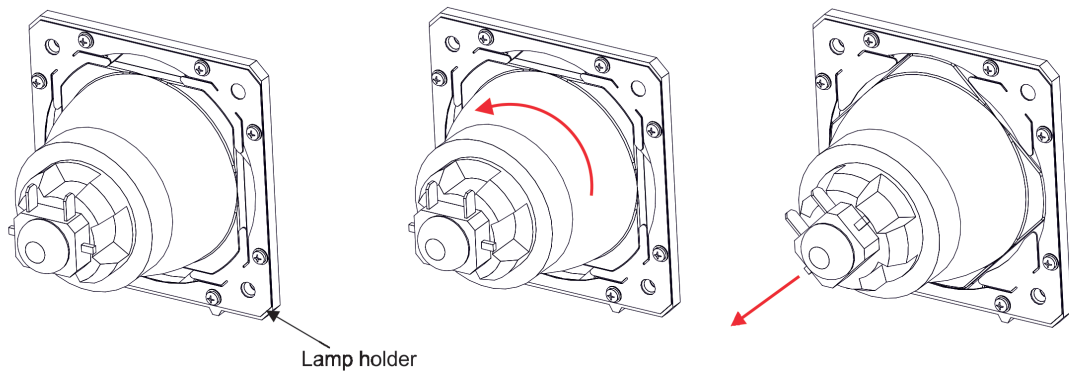
Lamp holder

Inserting and locking the lamp

Lamp in unlocked position   Turn the lamp right   Lamp in locked position
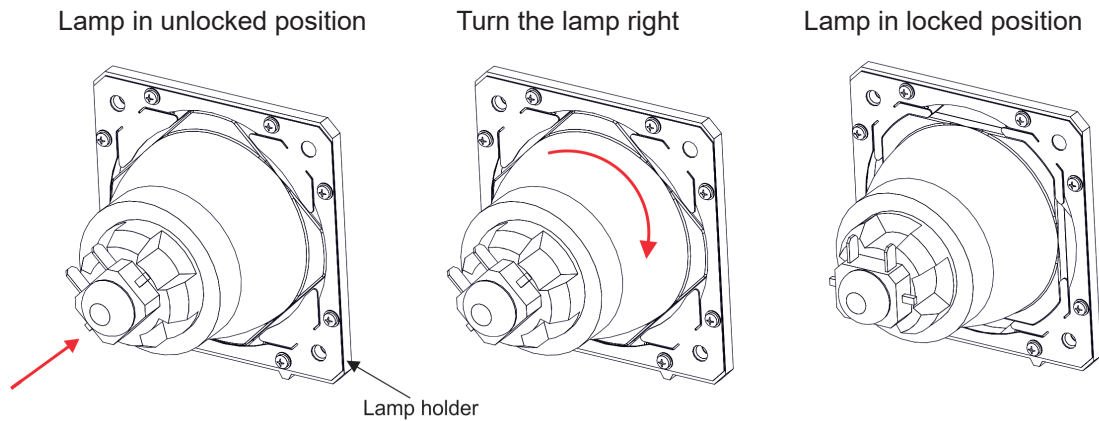
Lamp holder

3.3 Aligning the lamp

The lamp holder is aligned at the factory. Due to differences between lamps, a fine adjustment of the lamp holder may improve light performance of the fixture.

The three screws (A,B, C) serve for fine aligning of the lamp´s hot spot in a light image.

A   B

C

Image on the wall

Centered lamp
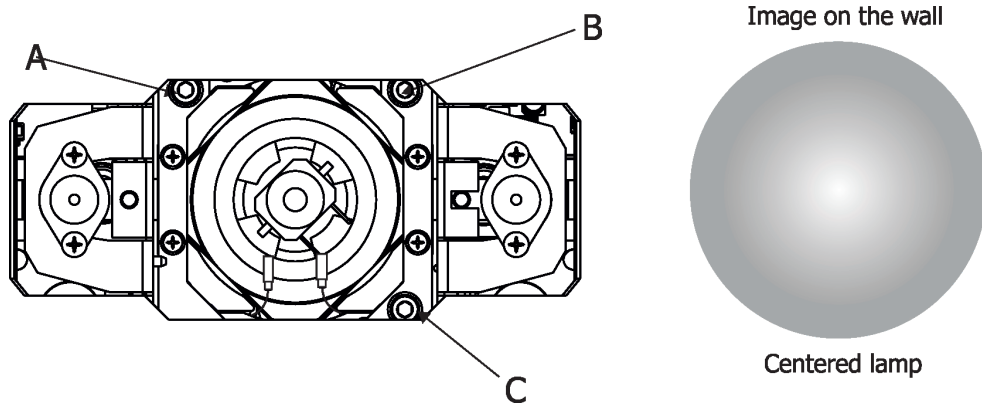
Warning
Wear proper eye and skin protection prior to remove the lamp cover.
High voltage present at lamp fastons.

To adjust the lamp in the fixture.
1.Connect the fixture to mains, switch on the lamp, open shutter and dimmer, set zoom on suitable size, aim
   and focus the image on the wall (both static gobo wheel a rotating gobo wheel have to be set at 0 DMX).
2. Loosen the four hex socket head screws (1) (use an Alen key 2.5) on a lamp cover and remove
   the lamp cover (2).
3. Ajust the lamp holder into desired position by using the three screws A,B,C (by means of an Allen key 4).
4. Carefully check the gasket (5) for signs of deformities or hardening and if it is correctly placed in the groove of
   the head housing.
5. **Re-insert the lamp cover (2) and tighten the four hex socket head screws (1) using a tightening torque
   of 2-2.3Nm. The screws(1) must be tighten in the order 1-->2-->3-->4.**

3.4 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.

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

Allow the fixture to cool for ten minutes before handling.

Fixture should be installed in areas outside walking paths, seating areas, or away from areas were unauthorized personnel might reach the fixture by hand.

IMPORTANT! OVERHEAD RIGGING REQUIRES EXTENSIVE EXPERIENCE, including calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the projector. If you lack these qualifications, do not attempt the installation yourself, but use a help of professional companies.

CAUTION: Fixtures may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do not install the fixture!

The fixture has to be installed out of the reach of public.

The fixture must never be fixed swinging freely on the truss.

Danger of fire !
When installing the device, make sure there is no highly inflammable
material (decoration articles, etc.) in a distance of min. 1 m.
Minimum distance of 15 m between the moving head and illuminated objects must be
kept!
(If the fixture is operated in Eco mode, this distance can be redused to 12 m).

CAUTION!
Use 2 appropriate clamps to rig the fixture on the truss.
Follow the instructions mentioned at the bottom of the base.
Make sure that the device is fixed properly! Ensure that the
structure (truss) to which you are attaching the fixtures is secure.

For securing the fixture to the truss, install a safety wire which can hold at least 10 times the weight of the fixture.

Truss installation
1. Bolt clamps (4) to the brackets Omega CL (1) with M12 bolts and lock nuts through the hole in the bracket Omega CL.
2. Fasten the brackets Omega CL on the bottom of the base by means of the quick-lock fasteners (2) and tighten them fully clockwise.
3. Install the fixture on the truss.
4. Pull a safety wire (3) through the carrying handle and the truss (6) as hown on the picture below in a suitable position so that the maximum fall of the fixture will be 20 cm. Fasten a snap hook in the attachment point (5). Use only the safety wire with a snap hooks with screw lock gates.

1-Mounting brackets Omega CL
2-Quick-lock fasteners
3-Safety wire
4-Clamps
5-Attachment point
6-Truss
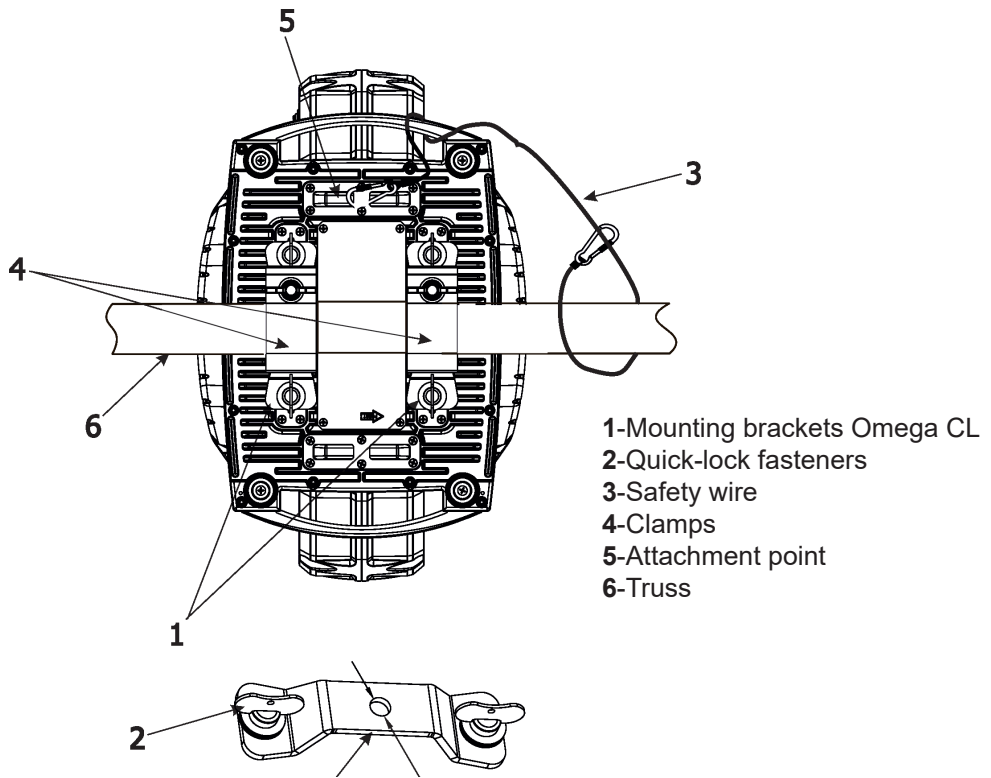
Allowed installation positions of the iPointe65:
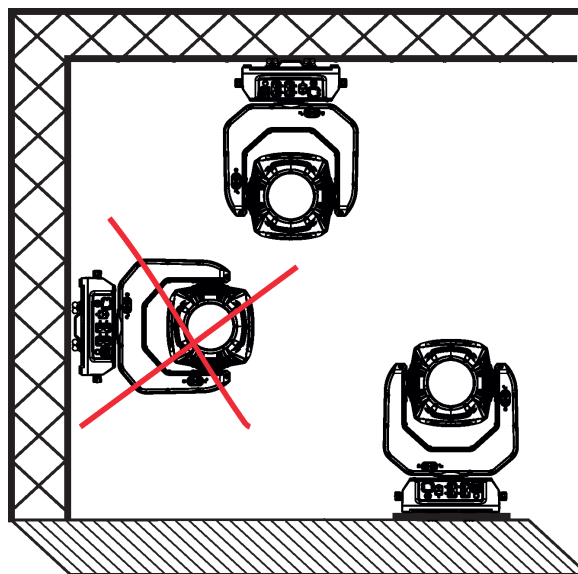
Note for open-air installation: if the fixture is standing on the ground, min. distance of 4" (10cm) between the fixture base and the ground has to be kept.

4" (10cm)
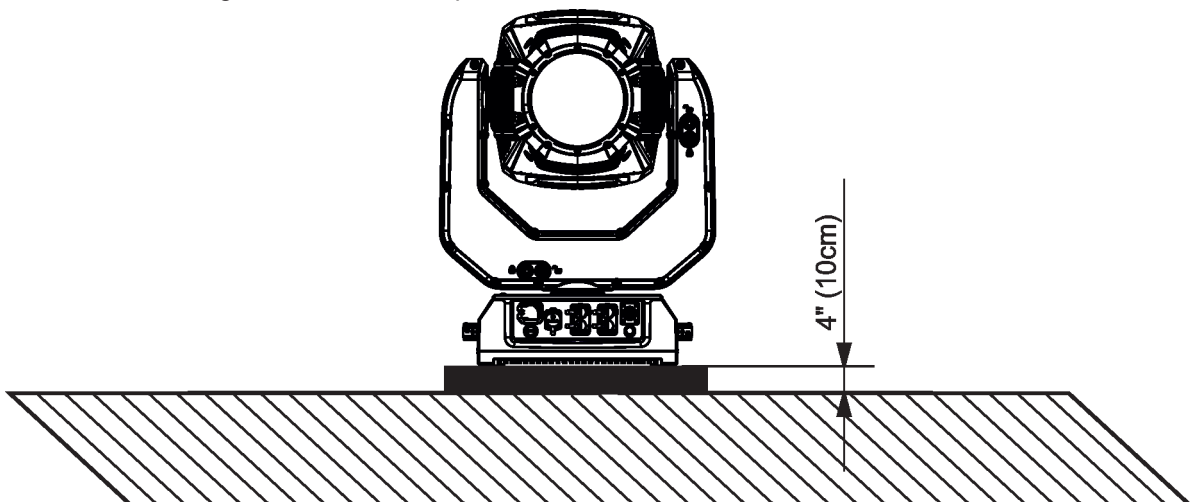
**When installing fixtures side-by-side,
avoid illuminating one fixture with another!**

**In order to protect the internal parts of the head from the sun, the function
PARKING POSITION must be switched ON before disconnecting the fixture from
mains.**

The PARKING POSITION function is located on the Power/Special functions channel (120-129 DMX). If the function is on, the fixture will automatically detect via G-sensor whether the fixture is on the floor or hangs on the truss or is mounted sideways on the truss and moves the pan and tilt to the position (including movement of zoom and focus lenses to the front part of the head) in which the front lens of 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.

3.5 DMX-512 connection

The fixture is equipped with both 3-pin and 5-pin XLR sockets for DMX input and output.The sockets are wired in parallel.

Only use a shielded twisted-pair cable designed for RS-485 and 3-pin or 5-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.

To keep declared IP rating of the XLR panel connectors, all used XLR connectors and cables have to meet IP 65 rating.

DMX - output

XLR mounting-sockets (rear view):
    1 - Shield
    2 - Signal (-)
    3 - Signal (+)
    4 - Not connected
    5 - Not connected
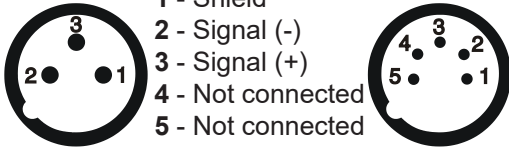
DMX-input

XLR mounting-plugs (rear view):
    1 - Shield
    2 - Signal (-)
    3 - Signal (+)
    4 - Not connected
    5 - Not connected
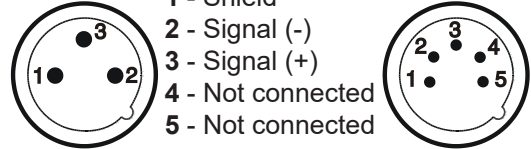
Building a serial DMX chain

DMX controller
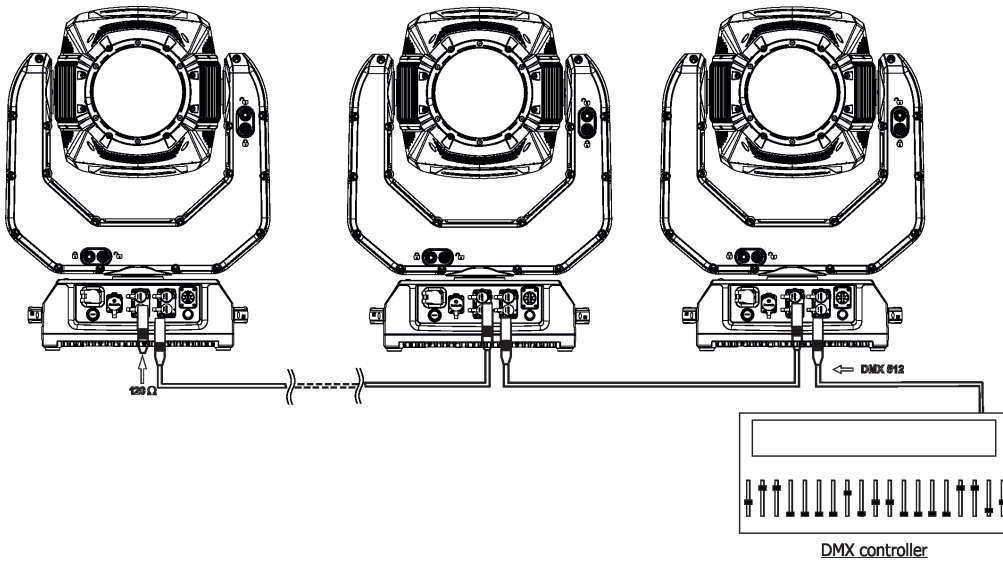
Connect the DMX output of the first fixture in the DMX chain with the DMX input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected. Up to 32 fixtures can be connected.
Caution: At the last fixture, the DMX cable has to be terminated with a terminator. Solder a 120 Ω resistor between Signal ($-$) and Signal (+) into a 3-pin XLR-plug and plug it in the DMX output of the last fixture.

> *The Robin iPointe65´s panel connectors are dust and water protected according to IP 65 by mating with related cable connectors. They cannot stay disconnected outdoor. All unused panel connectors have to be sealed by the rubber caps.*

3.6 Ethernet connection

To keep declared IP rating of the fixture, all used RJ45 and XLR connectors and cables have to meet IP 65 rating.

The fixtures on a data link are connected to the Ethernet with ArtNet (or MANet, MANet2, sACN) communication protocol. The control software running on your light console has to support some of the protocols.
ArtNet communication protocol is a 10 Base T Ethernet protocol based on the TCP/IP.Its purpose is to allow transfer of large amounts of DMX 512 data over a wide area using standard network technology.

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 iPointe65 is equipped with 8-pin RJ- 45 socket for Ethernet input.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):   **RJ-45 plug (front view):**

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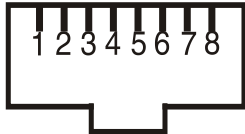
1- TD+	5- Not connected
2- TD-	6- RX-
3- RX+	7- Not connected
4- Not connected	8- Not connected

8 7 6 5 4 3 2 1
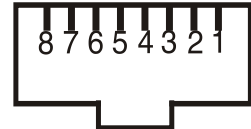
Patch cables that connect fixtures to the hubs or LAN sockets are wired 1:1,that is,pins with the same numbers are connected together:

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

If the fixture is connected with active Ethernet socket (e.g. switch) the network icon will appear at the bottom right corner of the screen:

ROBe.

DMX: 001   IP: 2.242.8.0
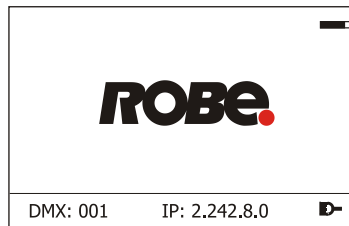
Ethernet operation

Connect the Ethernet inputs of all fixtures with the Ethernet network.
Option "Artnet (gMaI or gMA2 or sACN)" has to be selected from "Ethernet Mode" menu on the fixture.

(DMX address=196)
IP addres=002.168.002.004
Universe=1

(DMX address=40)
IP addres=002.168.002.003
Universe=1

(DMX address=1)
IP addres=002.168.002.002
Universe=1

Ethernet Switch
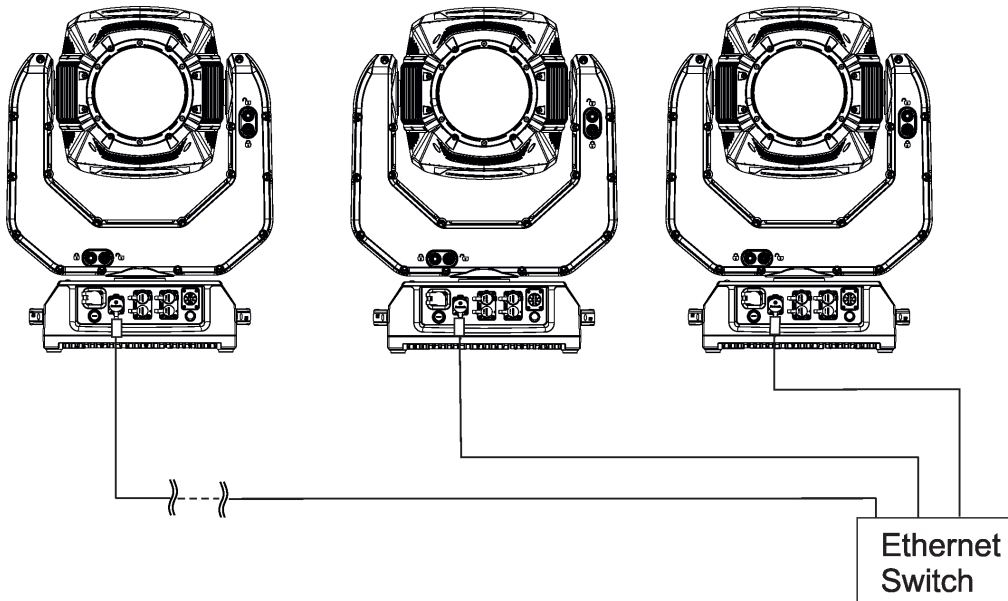
An advised PC setting: IP address: 002.xxx.xxx.xxx / 010.xxx.xxx.xxx (Different from fixture IP addresses)
NET mask: 255.0.0.0

Ethernet / DMX operation

Option " Artnet" (gMaI or gMA2 or sACN) has to be selected from "Ethernet Mode" menu at first fixture.
Option "Ethernet To DMX" has to be selected from the menu "Ethernet Mode" at the first fixture (connected to the Ethernet) in the fixture chain, next fixtures have standard DMX setting.
Connect the Ethernet input of the first fixture in the data chain with the network. Connect DMX output of this fixture with DMX input of the next fixture until all fixtures are connected to the DMX chain.
Caution: At the last fixture, the DMX chain has to be terminated with a terminator. Solder a 120 Ω resistor between Signal (–) and Signal (+) into a XLR-plug and connect it in the DMX-output of the last fixture.

Example:

DMX address=236   DMX address=196   DMX address=1
                                                  IP addres=002.168.002.002
                                                  Universe=0

120 Ω   DMX 512   DMX 512   Art-Net

DMX address=236   DMX address=196   DMX address=1
                                                  IP addres=002.168.002.003
                                                  Universe=1

Ethernet
Switch

120 Ω   DMX 512   DMX 512   Art-Net
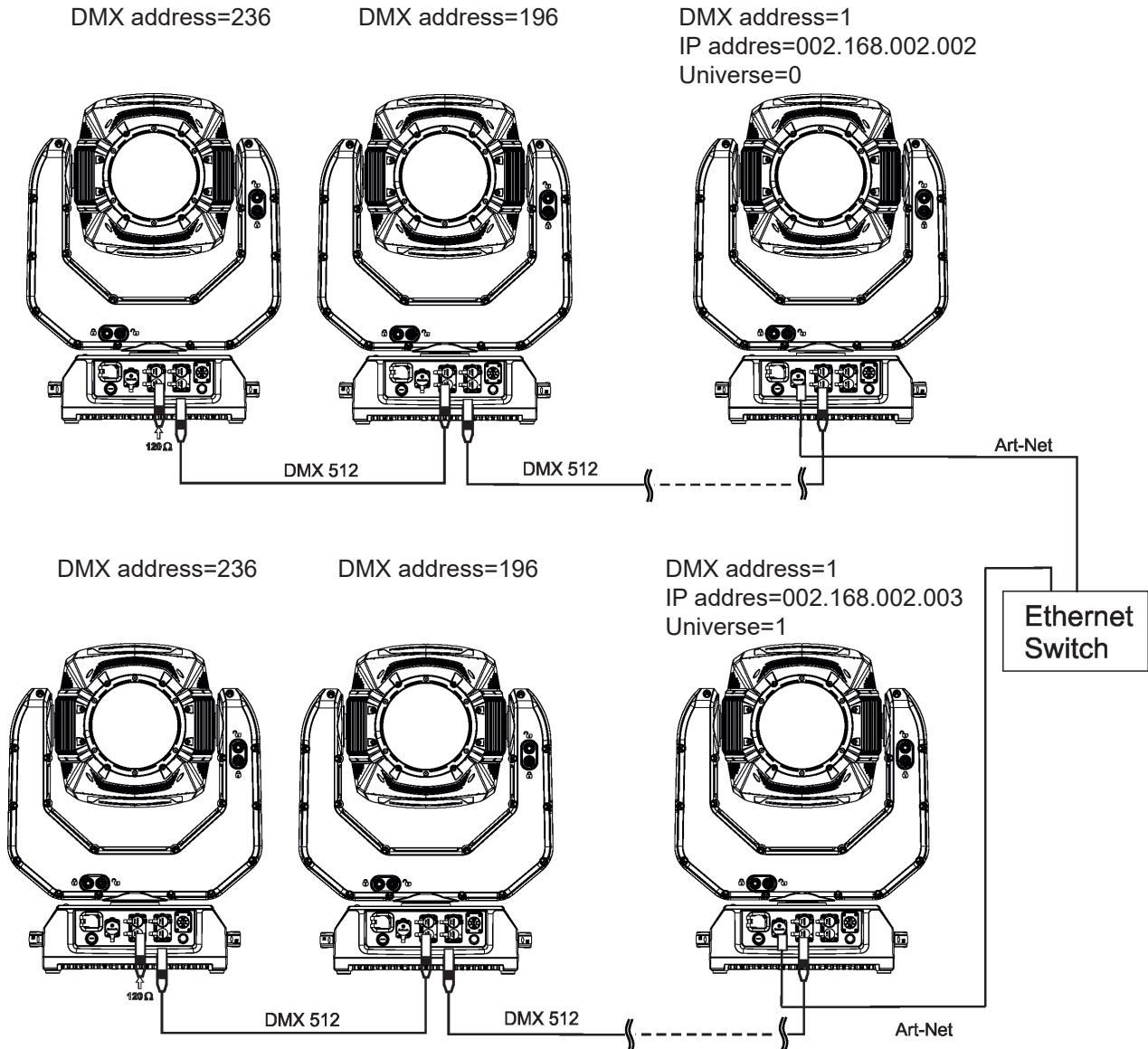
3.7 Wireless DMX operation

The wireless version of the Robin iPointe65 is equipped with the Lumen Radio CRMX module and antenna for receiving DMX signal. CRMX module operates on the 2.4 GHz band.

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 10-19 DMX). If DMX input option is changed by DMX command, the change is permanently written into fixture´s memory.

DMX range of 10-19 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" (Information -->Wireless State).

To unlink the fixture from DMX transmitter.
The fixture can be unlinked from receiver via the menu item " Unlink Wireless Adapter" (Information--> Wireless State --> Unlink Wireless Adapter.).

Note: If the option "Wireless In/XLR Out" is selected (Personality--> DMX Input -->Wireless In/XLR Out), the fixture receives wireless DMX and sends the signal to its wired DMX output. The fixture behaves as " Wireless/ Wired" adaptor.

Example of connection:
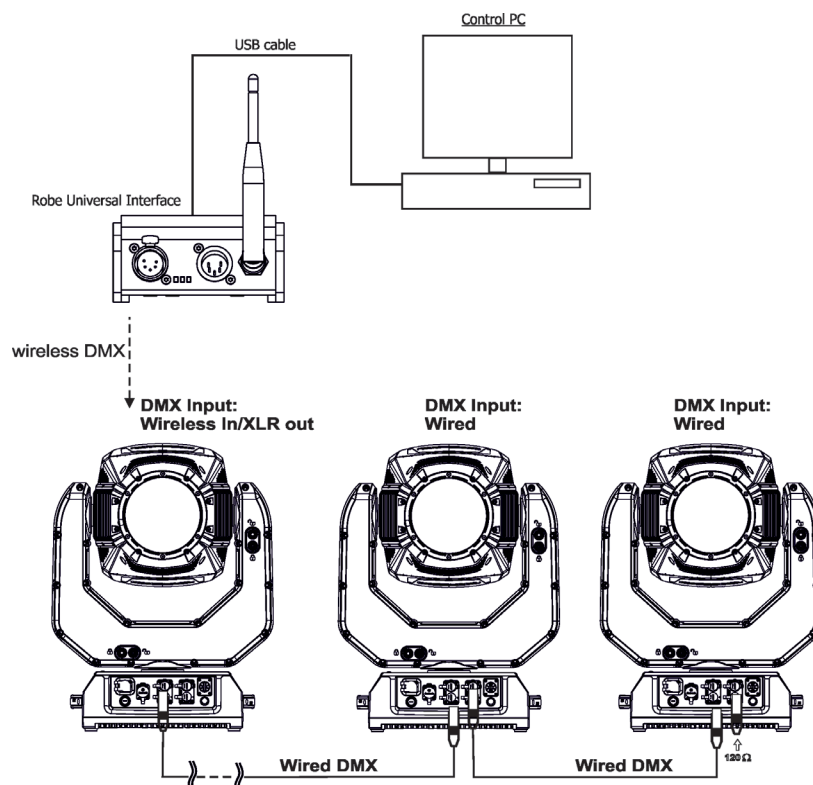
4. Remotely controllable functions

Lamp

The Robin iPointe65 is to be operated with a Osram Sirius HRI 310W RO lamp. The Osram Sirius HRI 310W RO is a lamp system consisting of a short arc burner within a reflector.

Pan/Tilt

Fast pan/tilt movement due to built-in electronic motion stabilizer. The electronic motion stabilizer ensures precise position of the fixture´s head during its movement and reduces its swinging when the truss shakes.

Colour wheel

This wheel contains 13 dichroic filters + open.The colour wheel can be positioned between two adjacent colours in any position. It is also possible to rotate the colour wheel continuously at different speeds ("Rainbow effect" in both directions).

Effect wheel

The effect wheel rotating in both directions with variable speed creates wide spectrum of graphic effects.

Static gobo wheel

The static gobo wheel includes 10 metal gobos and 4 beam reducers. Gobo positioning and continual gobo positioning is available as well as a gobo-shake function.

Rotating gobo wheel

The rotating gobo wheel includes 9 replaceable "SLOT&LOCK" glass gobos rotating in both directions, indexable, + open position. Gobo positioning and gobo selection speed is available as well as a gobo-shake function.

Prism wheels

Two prism wheels offer 2 x 6-facet linear prism, 2 x 8-facet circular prism , 1x 32- facet circular prism and 1 x cylindrical prism. All prisms can be rotated in both directions at different speeds.

Hot-Spot

Motorized movement of lamp reflector allows control light intensity of the centre of the image.

Frost

The fixture is equipped with two separated frosts: light and medium.

Zoom

Motorized zoom unit enables zoom between 1.8° - 21° beam angle (beam application) or 3°- 42° (beam application).

Dimmer/Shutter unit

Smooth 0 - 100 % dimming is provided by the mechanical dimmer /shutter unit. This unit is also used for strobe effects with variable speed.

5. Control menu map

Default settings=Bold print

Tab	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
Addressing	DMX Address	001-512				
	DMX Presets	**Mode 1**				
		Mode 2				
	Ethernet Settings	Ethernet Mode	Disable			
			ArtNet			
			gMAl			
			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	MANetl/II Universe	01-256		
			MANet Session ID	01-32		
		sACN Settings	sACN Universe	00001-32000		
			sACN Priority	0-255		
Information	Fixture Times	Power On Time	Total Hours			
			Resetable Hours			
		Lamp On Time	Total Hours			
			Resetable Hours			
		Lamp Strikes	Total Strikes			
			Resetable Strikes			
	Fixture Temperatures	Head Temperature	Current			
			Maximum NonRes.			
			Maximum Res.			
		Ambient Temperature	Current			
			Maximum NonRes.			
			Maximum Res.			
		Base Temperature	Current			
			Maximum NonRes.			
			Maximum Res.			
	DMX Values	Pan				
		:				
		Dimmer Fine				
	Wireless State					
	Power Channel State					
	Software Versions	Display System				
		Module M				
		Module G				
		Module O				
		Module P1				
		Module P2				
		Module C1				
		Module C2				
	Product IDs	Mac Address				
		RDM UID				
		RDM Label				
	View Logs	Fixture Errors				

Tab	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
		Fixture States	Power On			
			Power Off			
			Lamp On			
			Lamp Off			
		Fixture Position				
		Fixture Temperatures	Head Temperature			
			Ambient Temperature			
			Base Temperatures			
Personality	User Mode	User A Settings				
		User B Settings				
		User C Settings				
	DMX Presets	**Mode 1**				
		Mode 2				
		View Selected Preset				
	DMX Input	Wired Input				
		Wireless Input				
		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**				
	Microphone Sensitivity	1-**10**-20				
	Blackout Settings	Blackout During M.C.	**Off**, On			
		Blackout while:	Pan/Tilt moving	**Off**, On		
			Prisms Moving	Off**, On**		
	CRI Setting	**Standard CRI**				
		High CRI				
	Close proximity mode	**Off**, On				
	Init Effect Positions	Pan	0-255			
		:				
		Dimmer Fine	0-255			
	Screen Settings	Display Intensity	1-**10**			
		Screen Saver Delay	**Off**-10min.			
		Screen Lock	**Off**-10min.			
		Display Orientation	Normal			
			Inverted			
			Auto			
	Temperature Unit	**°C**,°F				
	Fan Mode	**Auto**				
		High				
	Dimmer curve	Linear				
		Square Law				
	Date & Time Settings					
	Reset Web Password					
	Default Settings					
Manual Control	Reset Functions	Total system Reset				
		Pan/Tilt reset				
		Colour System Reset				
		Gobo System Reset				

Tab	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
		Strobe/Hot-Spot Reset				
		Optics/Prism/Frost Reset.				
		Effect Wheel 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		
	MusicTrigger	**Off**, On				
	Preset Playback	**None**				
		Test				
		Prg. 1				
		Prg. 2				
		Prg. 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.
Service	Adjust DMX Values	Pan	0-255			
		:				
		Dimmer Fine	0-255			
	Adjust Lamp	Pan	0-255			
		:				
	Calibrations	Calibrate Effects	Pan	0-255		
			Tilt	0-255		
			Cyan	0-255		
			Magenta	0-255		
			Yellow	0-255		
			Colour	0-255		
			Effect wheel	0-255		
			Static Gobo	0-255		
			Rot. Gobo Wheel	0-255		
			R. Gobo Index 1	0-255		
			R. Gobo Index 2	0-255		
			R. Gobo Index 3	0-255		
			R. Gobo Index 4	0-255		
			R. Gobo Index 5	0-255		
			R. Gobo Index 6	0-255		
			R. Gobo Index 7	0-255		
			R. Gobo Index 8	0-255		
			R. Gobo Index 9	0-255		
			Prism W. 1	0-255		
			Pri. W. 1 R.1	0-255		

Tab	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			Pri. W. 1 R.2	0-255		
			Pri. W. 1 R.3	0-255		
			Prism W. 2	0-255		
			Pri. W. 2 R.1	0-255		
			Pri. W. 2 R.2	0-255		
			Pri. W. 2 R.3	0-255		
			Frost 1/1	0-255		
			Frost 1/2	0-255		
			Frost 2/1	0-255		
			Frost 2/2	0-255		
			Zoom	0-255		
			Focus	0-255		
			Strobo 1/1	0-255		
			Strobo 1/2	0-255		
			Strobo 2/1	0-255		
			Strobo 2/2	0-255		
			Light Green F.	0-255		
			Frost Filter	0-255		
			HotSpot 1	0-255		
			HotSpot 2	0-255		
		Calibrate Pan/Tilt EMS				
		Load Default Calibrations				
	Update Software					

6. Control menu

The Robin iPointe65 is equipped with the QVGA screen with battery backup and four control buttons which allow you to set the fixture´s behaviour according to your needs, obtain information on its operation, test its various parts and program it, if it has to be used in a stand-alone mode.
The fixture supports NFC (Near-Field Communication).

NFC interface and control buttons on the front panel
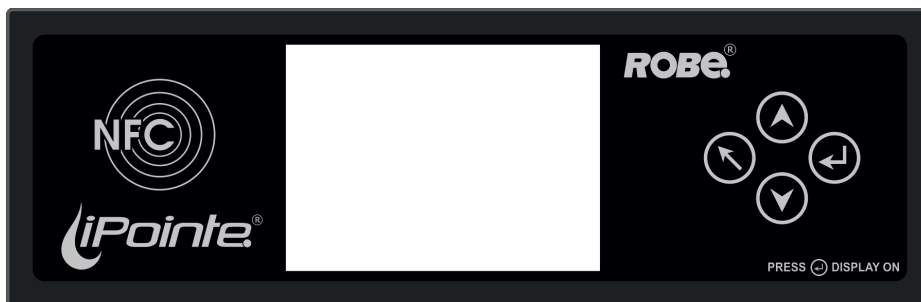
↖ - [ESCAPE] button used to leave the menu without saving changes.
▲▼ - [NEXT] , [PREV] buttons for moving between menu items and symbols, adjusting values.
↵ - [ENTER/Display On] button used to enter the selected menu item and to confirm adjusted value.
 If the fixture is disconnected from mains, the button switches the screen on (for a while).

Icons used in the screen menu:

✔ - [confirm] used to save adjusted values, to leave menu or to perform desired action.

✔➕ - [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.

💡 - [lamp menu] used to switch on/off the lamp and to set lamp functions.

▭ - [Ethernet] used to indicate Ethernet connected.

🔄 - [display turn] used to turn the display by 180°.

👆 - [slider control] used to recall slider system for setting desired value.

⌨ - [keyboard control] used to recall keyboard system for setting desired value.

After switching the fixture on, the screen shows the ROBE logo:
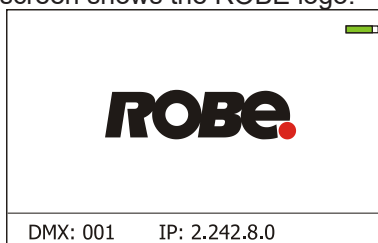
Note: The green icon at the top right corner of the screen indicates the level of the display battery charging. If the whole icon is green, the battery is fully charged while the red icon indicates exhausted battery. The battery charges during fixture operation, its charging lasts cca 6 hours.
We recommend 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 spec-

ified 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.

Press the [ENTER/Display On] button to display the initial screen with the current stored DMX address:
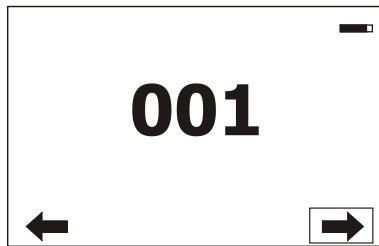
Press the [ENTER/Display On] button to enter the " Address" menu.
An item may be selected from a screen by pressing the [NEXT] or [PREV] buttons to scroll through list items. With each press, the next item is highlighted. Press [ENTER/Display On] to select the highlighted item.

<div style="border:1px solid black;padding:10px;text-align:center">

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

</div>

Locking/unlocking the screen.

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

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

6.1 Tab " Address"

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

DMX Preset - Use the menu to select desired channel mode.
   Mode 1 - 39 control channels
   Mode 2 - 34 control channels
   View Selected Preset - Use the menu to display channels included in the selected mode.

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 using their DMX inputs/outputs.
     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.
           sACN Priority - The value of this item can be set in range 0-255.

6.2 Tab "Information"

Fixture Times - The menu provides readouts of fixture and lamp operation hours.
   Power On Time Hours - 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 iPointe65 has been fabricated.
           Resetable Hours - The item shows the number of the operation hours that the
           Robin iPointe65 has been powered on since the counter was last reset.
           In order to reset this counter to 0, confirm the text box next to the item "Resetable Hours:"
   Lamp On Time Hours - Select this menu to read the number of the operation hours with the lamp on.
           Total Hours - The item shows the total number of the operation hours with the lamp
           on since the Robin iPointe65 has been fabricated.
           Resetable Hours - The item shows the number of the operation hours with the lamp
           on that the Robin iPointe65 has been powered on since the counter was last reset.

In order to reset this counter to 0, confirm the text box next to the item "Resetable Hours:"

Lamp Strikes - Select this menu to read the number of lamp strikes.

Total Strikes - The item shows the total number of the lamp strikes since the Robin iPointe65 has been fabricated.

Resetable Strikes - The item shows the number of the lamp strikes since the counter was last reset.

In order to reset this counter to 0, confirm the text box next to the item "Resetable Strikes:"

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

Head Temperature - The menu shows temperatures in the fixture head near the lamp.

Current - A current temperature of the fixture head.

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

Maximum Res. - A maximum temperature of the fixture head since the counter was last reset.

In order to reset this counter to 0, confirm 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 in the fixture base.

Maximum NonRes. - A maximum temperature on the display PCB in the fixture base since the fixture has been fabricated.

Maximum Res. - A maximum temperature in the fixture base since the counter was last reset.

In order to reset this counter to 0, confirm the text box next to the item "Maximum Res."

Ambient Temperature - The menu shows temperature near the power supply in the fixture base .

Current - A current temperature near the power supply in the fixture base.

Maximum NonRes. - A maximum temperature near the power supply in the fixture base since the fixture has been fabricated.

Maximum Res. - A maximum temperature near the power supply in the fixture base since the counter was last reset.

In order to reset this counter to 0, confirm the text box next to the item "Maximum Res."

DMX Values - The menu is used to read DMX values of each channel received by the fixture.

Wireless State - The menu serves for reading of the wireless operation status (only for Wireless DMX version).

Software Version - Select this item to read the software version of the fixture modules:

Display System - A display processor on the display board in the fixture base

Module M - A pan/tilt processor

Module G - A static gobos/rot. gobos/effect wheel processor.

Module O - A focus/zoom processor

Module P1 - A light frost/prism wheel 1 processor

Module P2 - A medium frost/prism wheel 2 processor.

Module C1 - A cyan wheel/magenta wheel/strobe/hot-spot 1 processor.

Module C2 - A colour wheel/yellow wheel/CRI filter/frost filter/hot-spot 2 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 colected data allows easier troubleshooting.

Fixture Errors - Use this menu to read fixture errors which have occured during fixture operation.

Fixture States - Recorded following actions: Fixture On, Fixture Off, Lamp On, Lamp Off.

Fixture Position - Recorded installation positions of the fixture:
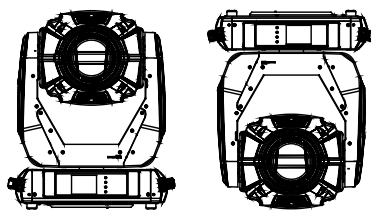
Front Normal   **Front Inverted**

Fixture Temperatures - Recorded temperatures which have exceeded defined levels.

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

6.3 Tab "Personality"

User mode - The Robin iPointe65 allows you to recall up to 3 user settings. After switching the fixture on for the first time, the User A settings is active. Now all changes made in the "Personality" menu , "Addressing" menu and the "Music Trigger" and " Preset Playback" items from the "Stand-alone" menu are saved to the User A settings. If you now select the User B settings, from this moment the changes made in these menus will be saved to the User B settings. After switching the fixture off and on, the User B setting is active. In this way you may use the 3 fixture operating behaviours.

   User A Settings - the function recalls the user A settings.
   User B Settings - the function recalls the user B settings.
   User C Settings - the function recalls the user C settings.

DMX Preset - Use the menu to select desired channel mode.
   Mode 1 - 39 control channels
   Mode 2 - 34 control channels
     View Selected Preset - Use the menu to display channels included in the selected mode.

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 this 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.

Blackout Settings - Use the menu if you need to close the light output under certain conditions which are described below
   Blackout DMC - 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, 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 coordinates are changing.
        Prisms Moving - The menu item enables to close light output while the prism wheel 1 (prism wheel 2) goes from one position to another position.
CRI Setting - Use this menu to set a desired colour rendering index (CRI).
        Standard CRI - CRI=80.
        High CRI - CRI=90+

Close Proximity Mode - If this function is on, a light beam temperature is reduced and thanks to this fact the minimum distance of illuminated objects and the fixture can be reduced to 7 m. A min. zoom and power of the fixture is reduced if this mode is active.

Warning: this function is a software aid for operator of the fixture and requires increased attention at its using. Operating the fixture with active Close Proximity Mode is at its own risk an we disclaim any responsibility in case of damage of illuminated objects.

The safety distance between the fixture and illuminated objects regardless of software state in the fixture is 15m.

Init Effect Positions - Use the menu to set all effects to the desired positions at which they will stay after switching the fixture on without DMX signal connected.

Screen Settings - Use this menu to change the 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 pressing any button on the control panel.

   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 corfirming 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 Mode - Use the menu to set the fixture fans to max. power mode ("**High**") or to auto-control mode ("**Auto**")

Dimmer Curve - Use the menu item to select desired dimmer curve: Linear or Square Law.

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

Unlink Wireless Adapter - The menu serves for unlinking the fixture from the transmitter (only WDMX version).

Reset Web Password - The menu item allows you to reset a password for access on the Web server (default password: 2479, user: robe).

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

6.4 Tab "Manual Control"

Reset Functions - The menu allows to reset the fixture either per function modules or all modules together.

   Total System Reset - The item resets all function modules.

   Pan/Tilt Reset - The item resets a pan and tilt movement.

   Colour System Reset - The item resets a colour wheel and CMY wheels.

   Gobo System Reset - The item resets a static gobo wheel and a rotating gobo wheel.

   Strobe/Hot Spot Res. - The item resets strobe lamellas and a hot-spot module.

   Optics/Prism/Frost Res. - The item resets a zoom, focus, prism wheels and frost modules.

   Effect Wheel Reset - The item resets an effect wheel.

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 test sequences without an external controller, which will show you some possibilities of using Robin iPointe65.

   Dynamic Mode - This option uses all Robin iPointe65 functions including pan/tilt movement and therefore is good for a complete introduction of the fixture.

   Static Mode - This option is suitable for projections on the wall, ceiling or ground without a pan/tilt movement. Adjust the "Pan", "Tilt", "Zoom" and "Focus" to desired positions and select option "Run":

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 No. 1.

   Prog. 2 - The option starts user program No. 2.

   Prog. 3 - The option starts user program No. 3.

Play program - Use the menu to run desired program in a loop.

   Play Program 1 - The option starts user program No.1.

   Play Program 2 - The option starts user program No. 2.

   Play Program 3 - The option starts user program No. 3.

Edit Program - Use the menu to create or to edit desired program. The Robin iPointe65 offers 3 free programs, each up to 100 steps.

   Edit Program 1 - The option allows to edit user program No.1.

   Edit Program 2 - The option allows to edit user program No.2.

   Edit Program 3 - The option allows to edit user program No.3

To edit program:

1. Select the item which you want to edit ("Edit Program 1" - "Edit Program 3").
2. Select the item "Edit Program Steps".
3. Cofirm the item "Step 1".
4 From the list of effects select desired effect and set its value. Browse throw the list of effects, select and set desired effects.
The item "Step Time" (value of 0-25.5 sec.) is the time during which effects last in the current step
5. Save adjusted effects to the current step by the [confirm] icon or save and copy them to the following step by the [confirm+copy] icon. By confirming the text box "Preview" next to the current program step you can view created scene.
6. Repeat the steps 4 and 5 for next program steps.
7. After editing desired program steps, adjust the length of the program by means of the text boxes "Start Step" and "End Step".

Meaning of the icons used in the "Edit Program" menu:

   ⬇ - Moves down on the next page.   ✔ - [confirm]. Saves adjusted values and leaves menu.

   ⬇ - Moves up on the previous page.   ✔ - [confirm+copy]. Saves values to the current step and copy them to the following prog. step.

❌ - Leaves menu without saving values.

There is a chart describing behaviour of items "Pan/Tilt Macro" and "P./T. Macro Speed".

DMX	Pan/Tilt Macro
0 - 9	Disabled pan/tilt macro
10 - 31	Reserved
32 - 63	Figure of circle (from small to large)
64 - 95	Figure of horizontal eight (from small to large)
96 - 127	Figure of vertical eight (from small to large)
128 - 159	Figure of rectangle (from small to large)
160 - 191	Figure of triangle (from small to large)
192 - 223	Figure of star (from small to large)
224 - 255	Figure of cross (from small to large)

	Pan/Tilt Macro Speed
0	No macro generation
1 - 127	Macro generation from fast to slow-forwards
128 - 129	No macro generation
130 - 255	Macro generation from slow to fast-backwards

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.

  Note: The menu is available when the fixture is connected to mains. If the fixture is not connected to mains, the following message will appear: "Calibrations Are Not Ready Yet".

  The menu contains list of effects which can be calibrated:

      Pan- a fine pan movement
      Tilt - a fine tilt movement
      Cyan - a cyan wheel
      Magenta - a magenta wheel
      Yellow - a yellow wheel
      Colour Wheel - a colour wheel
      Effect Wheel - an effect wheel
      Static Gobo - a static gobo wheel
      Rot. Gobo Wheel - a carousel of rotating gobos
      R. Gobo Index 1 - a fine movement of rotating gobo 1
      R. Gobo Index 2 - a fine movement of rotating gobo 2
      R. Gobo Index 3 - a fine movement of rotating gobo 3
      R. Gobo Index 4 - a fine movement of rotating gobo 4
      R. Gobo Index 5 - a fine movement of rotating gobo 5
      R. Gobo Index 6 - a fine movement of rotating gobo 6
      R. Gobo Index 7 - a fine movement of rotating gobo 7
      R. Gobo Index 8 - a fine movement of rotating gobo 8
      R. Gobo Index 9 - a fine movement of rotating gobo 9
      Prism W 1- a prism carousel 1
      Pri W. 1 R.1 - a fine movement of rotating prism 1 on prism carousel 1
      Pri W. 1 R.2 - a fine movement of rotating prism 2 on prism carousel 1
      Pri W. 1 R.3 - a fine movement of rotating prism 3 on prism carousel 1
      Prism W 1 - a prism carousel 2
      Pri W. 2 R.1 - a fine movement of rotating prism 1 on prism carousel 2
      Pri W. 2 R.2 - a fine movement of rotating prism 2 on prism carousel 2
      Pri W. 2 R.3 - a fine movement of rotating prism 3 on prism carousel 2
      Frost 1/1 - a light frost position 1
      Frost 1/2 - a light frost position 2
      Frost 2/1 - a medium frost position 1
      Frost 2/2 - a medium frost position 2
      Zoom - a zoom module position
      Focus 1 - a focus module position for rot gobo
      Focus 2 - a focus module position for static gobo
      Strobe 1/1 - a strobe lamella 1 position 1
      Strobe 1/2 - a strobe lamella 1 position 2
      Strobe 2/1 - a strobe lamella 2 position 1
      Strobe 2/2 - a strobe lamella 2 position 2
      Light Green F - a minus half green filter position
      Frost Filter - an auxiliary optic element position
      HotSpot 1 - a hotspot position 1
      HotSpot 2 - a hotspot position 2

By using these items you can calibrate and adjust effects to their right positions.

Calibration 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 desired effect and confirm it to enter the fine effect adjustment screen.
3. Set desired value and save it by pressing the [ENTER] button.
4. Repeat steps 2 and 3 for the next effects.
5. After calibrating all effects, select the [confirm] icon to save all adjusted values and reset the fixture.

Calibration via the DMX controller
1. Connect DMX controller to the fixture and set fixture effects to the desired positions before fine calibration.
2. Enter the "Calibrate Effects" menu and now you can calibrate desired effects by a DMX controller.
There is a calibration protocol:

Effect	Mode 1	Mode 2
Pan	channel 40	channel 35
Tilt	channel 41	channel 36
Cyan	channel 42	channel 37
Magenta	channel 43	channel 38
Yellow	channel 44	channel 39
Colour Wheel	channel 45	channel 40
Effect Wheel	channel 46	channel 41
Static Gobo	channel 47	channel 42
Rot. Gobo Wheel	channel 48	channel 43
R. Gobo Index 1	channel 49	channel 44
R. Gobo Index 2	channel 50	channel 45
R. Gobo Index 3	channel 51	channel 46
R. Gobo Index 4	channel 52	channel 47
R. Gobo Index 5	channel 53	channel 48
R. Gobo Index 6	channel 54	channel 79
R. Gobo Index 7	channel 55	channel 50
R. Gobo Index 8	channel 56	channel 51
R. Gobo Index 9	channel 57	channel 52
Prism W 1	channel 58	channel 53
Pri W. 1 R.1	channel 59	channel 54
Pri W. 1 R.2	channel 60	channel 55
Pri W. 1 R.3	channel 61	channel 56
Prism W 1	channel 62	channel 57
Pri W. 2 R.1	channel 63	channel 58
Pri W. 2 R.2	channel 64	channel 59
Pri W. 2 R.3	channel 65	channel 60
Frost 1/1	channel 66	channel 61
Frost 1/2	channel 67	channel 62
Frost 2/1	channel 68	channel 63
Frost 2/2	channel 69	channel 64
Zoom	channel 70	channel 65
Focus 1	channel 71	channel 66
Focus 2	channel 72	channel 67
Strobe 1/1	channel 73	channel 68
Strobe 1/2	channel 74	channel 69
Strobe 2/1	channel 75	channel 70
Strobe 2/2	channel 76	channel 71
Light Green F	channel 77	channel 72
Frost Filter	channel 78	channel 73
HotSpot 1	channel 79	channel 74
HotSpot 2	channel 80	channel 75

After having calibrated all effects, select the [confirm] to save adjusted values and reset the fixture.

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.

Updating software - The menu item allows you to switch the fixture to the updating mode and to update software in the fixture via either USB or serial port of PC.
The following items are required in order to update software:
- PC running Windows or Linux or macOS
- DSU file
- Flash cable RS232/DMX, P/N13050624 (if you want to use a serial port of PC)
- Robe Universal Interface or Robe Universal interface WTX (if you want to use an USB port of PC)
After the software updating the fixture will be set to default values.

To update software in the fixture:
1. DSU file is available from Robe web site at WWW.robe.cz.
   File with extension zip is intended for Windows (used and tested from XP to W10 on 32/64bit systems).
   File with extension tbz is intended for Linux (used and tested on Debian and Ubuntu 32/64bit).
   File with extension dmg is intended for macOS (used and tested on OSX up to Sierra) XQuartz required, install it from https://www.xquartz.org/
   Save the download file to a folder on your computer.
   In case that you use windows, extract files in the zip file (e.g. DSU_RobiniPointe65_18100828.zip)
2. Disconnect the fixture from DMX controller.
3. If you use the flash cable RS232/DMX, connect a serial port of your computer with DMX input of the fixture by means of the cable.
   If you use the Robe Universal Interface, connect a USB port of your computer with the Robe Universal Interface by means of the USB cable and DMX input of the fixture with the DMX output of the Robe Universal Interface via a DMX cable.
4. Switch the fixture to the update mode (tab "Service" --> Update Software).
   Note: If you do not want to continue in the software update, you have to switch off and on the fixture to escape from the updating mode.
   We recommend to cancel all running programs on your computer before starting the software update.
5. Double-click the software uploader file (e.g. DSU_RobiniPointe65_18100828.exe) in the extracted files. The Software Uploader program will start running.
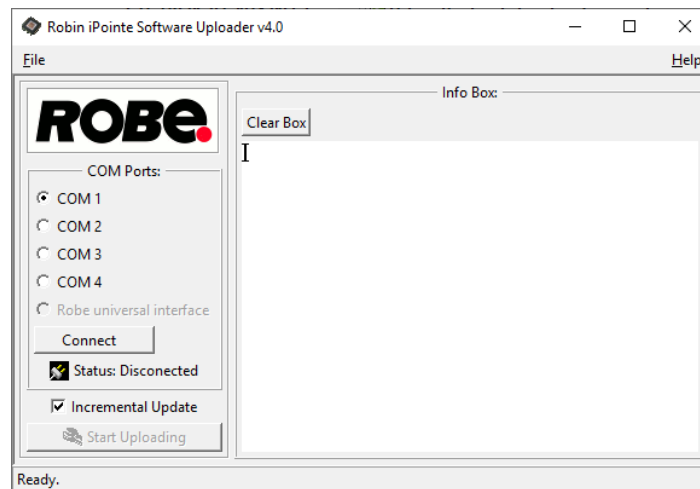
6. Select correct "COM " number if you use a Flash cable RS232/DMX or select "Robe Universal Interface " if you use the Robe Universal Interface/Robe Universal Interface WTX and then click on the "Connect" button.
7. If the connection is OK, click the "Start Uploading" button to start software uploading. It will take several minutes to perform software update.
   If the option "Incremental Update" is not checked, all processors will be updated (including processors with the same software version).
   If you wish to update only processors with new version of software, check the "Incremental Update box".
   Avoid interrupting the process. Update status is being displayed in the "Info Box" window.
   When the update is finished, the line with the text "Fixture is successfully updated" will appear in this window.

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

Another way, how to update software in the fixtures (especially large installation of fixtures) is to use the ROBE Uploader. It is a software for automatized software update of Robe fixtures. It takes advantage of RDM support).

For more information please see https://www.robe.cz/robe-uploader/.

6.7 Icon "Lamp menu"

Lamp Status - The item enables to switch the lamp on/off.

Settings - The menu offers many items for setting of lamp behaviour.
  Lamp Power - The item allows to set desired power of the lamp
        Standard mode - Lamp runs on max. power of 310W. This mode is set as default.
        Eco mode - Lamp power is reduced to 265W.
   This setting can be temporarily changed by DMX command at "Power/Special functions" channel.

  Lamp Ignition Delay - The item allows to set the time delay(0-90sec.) before igniting the lamp by DMX command. If the lamp is started directly from the control panel, the time delay will be ignored.

  Lamp Light Sensor - Select this item to switch the light sensor off. The option "On" is intended for a standard operation. The option "Off" is for "emergency operation" only! If the lamp light sensor is switched off, the fixture will still try to ignite the lamp (even when the lamp is damaged or missing), on this account some electronics parts of the fixture can be damaged!

  Lamp On/Off Settings - Use the menu to set rules for automatic switching on/off the lamp.
        Lamp On Power On - If the item is on, the lamp will be automatically turned on after switching the fixture on.
        Lamp Off via DMX - The item enables to switch the lamp off via DMX command from DMX controller.
        Lamp On if DMX Present - The item allows you to strike the lamp automatically after 26 seconds if DMX signal is present on the fixture´s DMX input.
        Lamp Off if not DMX - The item allows you to switch off the lamp automatically after 2 minutes if DMX signal is missing on the fixture´s DMX input.

7. 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 iPointe65 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			*
LAMP_STATE		*	*
LAMP_ON_MODE [1]		*	*
DEVICE_HOURS [2]			*
LAMP_HOURS [2]			*
LAMP_STRIKES [2]			*

[1]...Another options for this command (only for Robe´s fixtures):

value PARAMETER_DATA=0x84 - lamp OFF by DMX value on DMX channel
value PARAMETER_DATA=0x88 - lamp OFF if DMX is not present

[2]...Commands relative resetable values

RDM model ID for the Robin iPointe65 is 0x0116.

8. NFC

The fixture supports NFC. Using the mobile phone application ROBE COM you can read and set the Robin iPointe65 parameters (DMX address, IP address...etc.), get information about temperatures, operation hours, RDM identification etc.

The NFC point is situated on the front panel of fixture´s base.
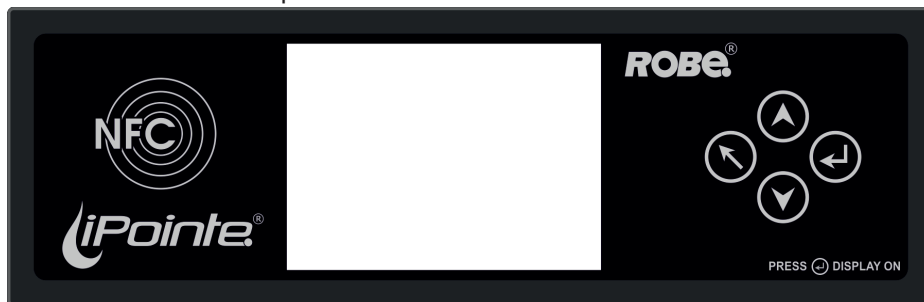
Download and install the ROBE COM from Google Play (for Android 5.0 and higher) or App Store (for iOS 12.0 and higher) to your mobile phone. Your mobile phone has to support NFC (Near-Field Communication).

Hold the mobile phone on the side of the fixture base, if NFC connection is OK, discovered fixture will appear on the screen, after touching the fixture name the following the following menu items will appear:

DMX/RDM settings   Other settings
Ethernet settings   Software versions
Blackout settings   Device hours
Colour settings   Device temperatures
Display settings
Standalone settings
Pan/Tilt settings

Touch desired menu item to enter its submenu.

9. Error and information messages

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

```
        ▬
     001

 ←      ⚠      ➡
```
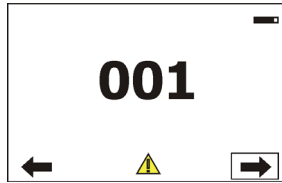
Press the [ESCAPE] button to display error messages.
List of error and information messages:

Lamp Error
If the ignition of the lamp is 3 times unsuccessful , the display shows "Lamp Error", meaning that the lamp could

be damaged or even missed or there could be a failure on the lamp driver.

Overheated
This message informs that the fixture had been overheated and the lamp was switched off by means of the head temperature sensor.

Temper. Sensor Error
The message informs you that the communication between the head temperature sensor and the main processor failed and the lamp has been switched off.

Active Lamp Timer
This message appears if you try to switch on the hot lamp. The fixture tries to ignite the lamp and during time period before next attempt of the lamp ignation the message is displayed. Also faulty (missing) lamp can be reason of the message.

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

Tilt Error 1 *(Tilt Error 2)*
This message will appear after the reset of the fixture if the head´s magnetic-indexing circuit malfunctions (sensor failed or magnet is missing) or the stepping motor is defective or its driving IC on the PCB. The head is not located in the default position after the reset.

Pan Error 1 *(Pan Error 2)*
This message will appear after the reset of the fixture if the yoke´s magnetic-indexing circuit malfunctions (sensor failed or magnet is missing) or the stepping motor is defective or its driving IC on the PCB. The yoke is not located in the default position after the reset of the fixture.

Colour Wheel Error 1(Colour Wheel Error 2*)*
The messages will appear after the reset of the colour wheel if this wheel is not located in the default position.

Cyan 1(Cyan Error 2*)*
The messages will appear after the reset of the cyan colour wheel if this wheel is not located in the default position.

Magenta 1(Magenta Error 2*)*
The messages will appear after the reset of the magenta colour wheel if this wheel is not located in the default position.

Yellow 1(Yellow Error 2*)*
The messages will appear after the reset of the cyan colour wheel if this wheel is not located in the default position.

Strobe Error 1 (Strobe Error 2)
The messages will appear after the reset of the dimmer/strobe module if the strobe lamellas are not located in the default position.

Pattern 1 Error 1 (Pattern I Error 2)
The messages will appear after the reset of the prism wheel 1 if this wheel is not located in the default position.

Pattern I Rotation Error 1 (Pattern I Rotation Error 2)

The messages will appear after the reset of the prism wheel 2 if some rotating prism not located in the default position.

Pattern 2 Error 1 (Pattern 2 Error 2)

The messages will appear after the reset of the prism wheel 2 if this wheel is not located in the default position.

Pattern 2 Rotation Error 1 (Pattern 2 Rotation Error 2)

The messages will appear after the reset of the prism wheel 2 if some rotating prism is not located in the default position.

Zoom Error 1 (Zoom Error 2)

The messages will appear after the reset of the zoom module if the zoom lens is not located in the default position.

Focus Error 1 (Focus Error 2)

The messages will appear after the reset of the focus module if the focus lens is not located in the default.

Gobo Carousel Error 1 (Gobo Carousel Error 2)

The messages will appear after the reset of the rotating gobo wheel if the carousel of rotating gobos is not located in the default position.

Gobo rotation Error 1 (Gobo Rotation Error 2)

The messages will appear after the reset of the rotating gobo wheel if the rotating gobos are not located in the default positions.

Static Gobo Error 1 (Static Gobo Wheel Error 2)

The messages will appear after the reset of the static gobo wheel if this wheel is not located in the default position.

Effect wheel Error 1 (Effect wheel Error 2)

The messages will appear after the reset of the effect wheel if this wheel is not located in the default position.

Internal Error

Communication error between PCBs (error or "noise" was detected on communication wires).

Pan/Tilt EMS Error

Control electronics cannot communicate with the EMS system.

Clean Air Filters

The message informs that the item "Elapsed Time" in the "Fixture Information" menu is at 0 value. Clean air filters and reset this counter.

Lamp Fan 1 Error

The blower above lamp in the fixture head is faulty. The lamp has been switched off.

Lamp Fan 2 Error

The blower above lamp in the fixture head is faulty. The lamp has been switched off.

Gobo Fan Error

The small blower cooling gobo wheels is faulty. The lamp has been switched off.

Front Fan 1 Error

The blower in the front part of the head is faulty. The lamp has been switched off.

Front Fan 2 Error

The blower in the front part of the head is faulty. The lamp has been switched off.

Front Fan Error

One or two fans (Front Fan 3, Front Fan 4) in the front part of the head is faulty. The lamp has been switched off.

Positions of fans in the fixture:

Front fan 2

Front fan 4
Front fan 3

Gobo fan

Lamp fan 2

Lamp fan 1

Front fan 1

Base fan 1

Base fan 2
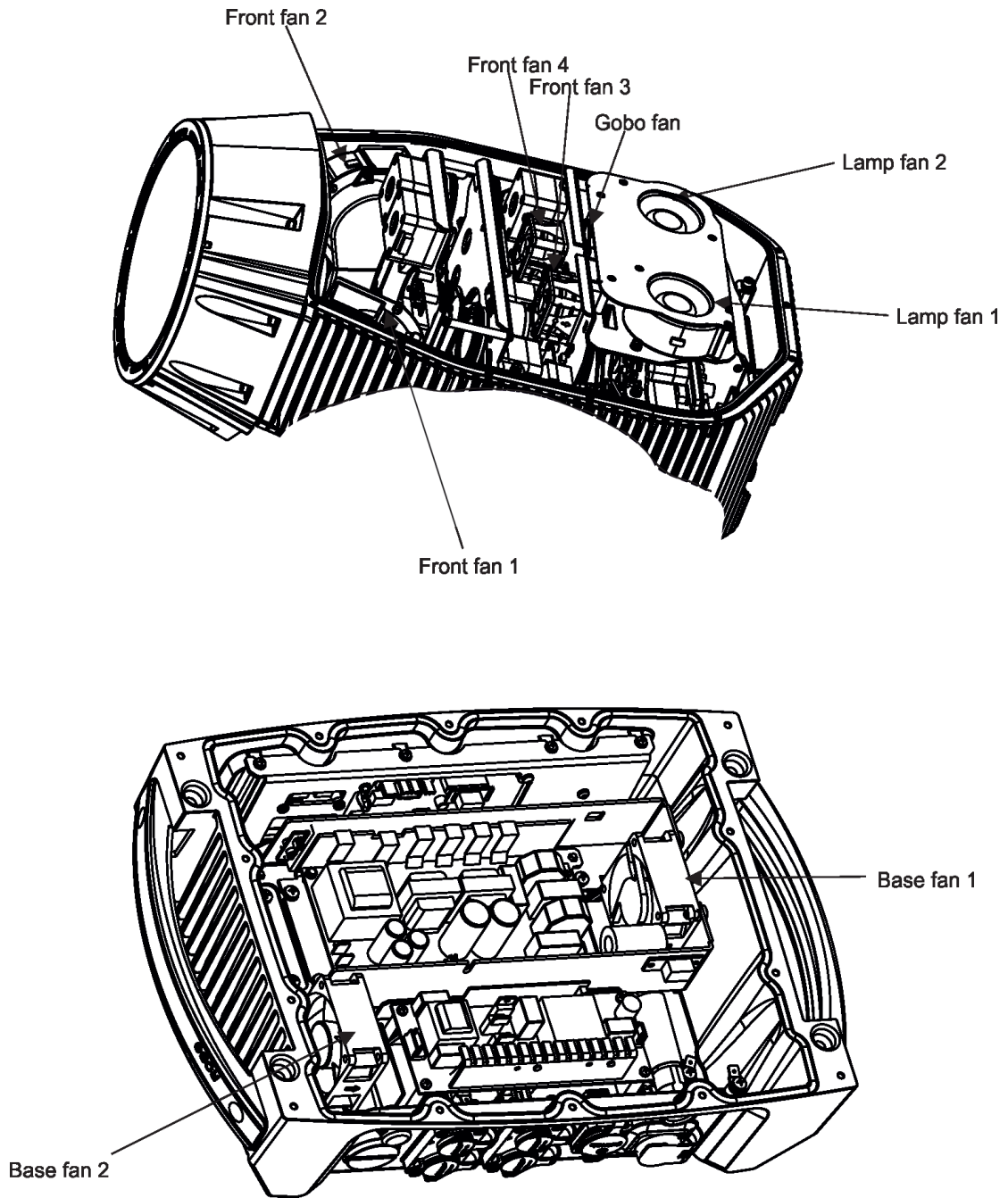
10. Technical Specifications

Electrical

Power supply:........................electronic auto-ranging
Input voltage range:...............100-240V, 50-60Hz
Fuse:....................................T 6.3 A
Max. power consumption:......550 W (power factor 0.97)

Lamp

Approved model: Osram Sirius HRI 310W RO
CCT: Lamp 8.500K
        Light output from fixture: 7.200K

Ballast

Electronic

Battery

IFR14500; 600mAh; 3.2V; AA (P/N 13052398)

Optical System

 Beam angle: 3°- 42° (spot application)
                1.8°- 21° (beam application)
CRI : Standard (80), High (90+), switchable by DMX
CTC: 7200K

Colour wheel

13 dichroic filters (deep red, deep blue, yellow,light green, magenta, lavender, pink, dark green,
            CTO 2700K, blue, orange, CTO 3200K, Kongo blue) + white

Virtual Colour wheel

66 preset colours

Static gobo wheel

10 metal gobos and 4 beam reducers
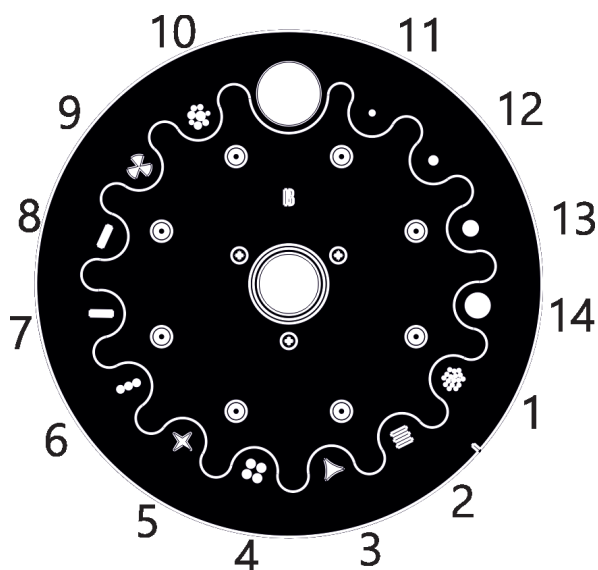
Rotating gobo wheel

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=1.1-2 mm, high temperature borofloat or better glass
"Slot&lock" system for easy replacement of gobos

5
15020337

4
15020347

6
15020350

3
15020351

7
15020355

2
15020352

8
15020354

1
15020341

9
15020342
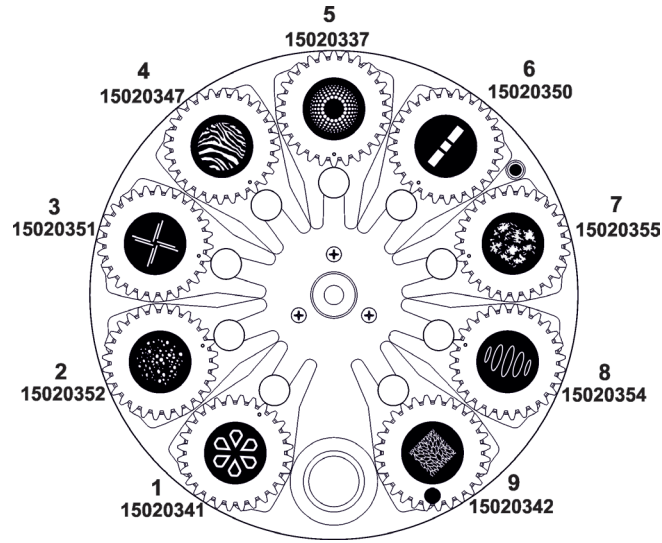
Prism wheel 1

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

1
14050031

3
14050030

2
14050033
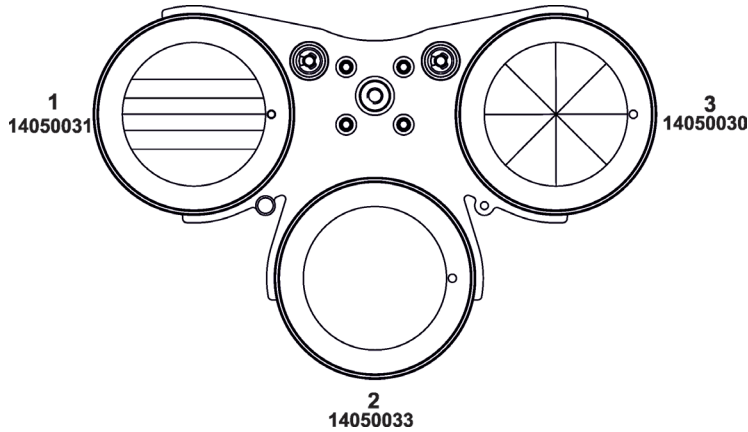
Prism wheel 2

Rotating 6-facet linear prism with continuous rotation in both directions
Rotating 32-facet circular prism with continuous rotation in both directions
Rotating 8-facet 18° circular prism with continuous rotation in both directions

3
14050034

1
14050031

2
14050032
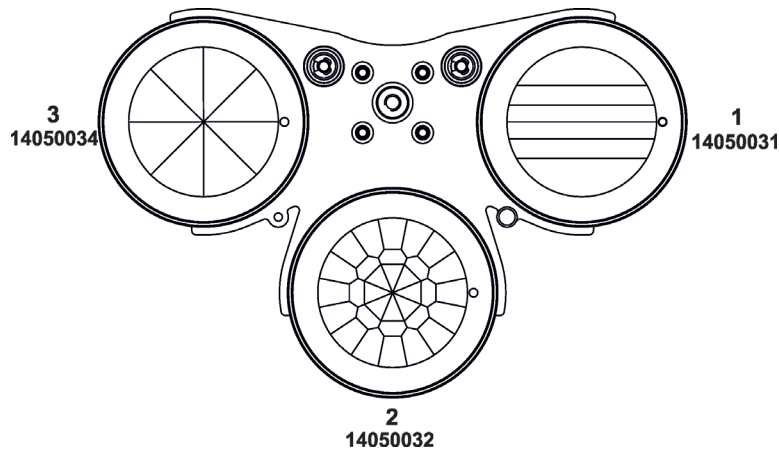
Effect wheel

 Effect wheel rotating in both directions

Beam shaper

 Four beam shapers with continuous rotation in both directions

Frost filters

 Two separate,variable frost filters (light and medium)

Zoom

 Linear motorized zoom

Focus

 Motorized focus

Hot-Spot control

 Motorized control of lamp position in order to change light intensity of the beam centre

 Strobe

 Strobe effect with variable speed (max.15 flashes/sec.)

Pan/Tilt

 Pan movement range 540°
 Tilt movement range 265°
 16 bit movement resolution
 Pan/Tilt electronic motion stabilizer
 Automatic Pan/Tilt position correction
 Remotely controllable speed of pan/tilt movement
 Pan/tilt-lock mechanism

Dimmer

 Smooth dimmer from 0 - 100 %

Control

 Graphic QVGA screen and four buttons for fixture setting and addressing
 Gravitation sensor for auto screen positioning
 Battery backup of the screen
 Readout fixture and lamp usage, receiving DMX values, temperatures, etc
 Built-in analyzer for easy fault finding, error messages
 Remotely switching on/off the lamp
 Stand-alone operation
 3 user editable programs, each up to 100 steps
 Supported protocols: USITT DMX 512, RDM, ArtNet, MANet, MANet2, sACN
 Support of NFC (application for mobile phones ROBE COM)
 2 DMX modes (34, 39 control channels)

Wireless DMX/RDM module (only for wireless DMX version)

 Compliance with USITT DMX-512 (1986 & 1990) and 512-A
 Full DMX fidelity and frame integrity
 Auto sensing of DMX frame rate and frame size
 <5ms DMX latency
 Operational frequency range of 2402-2480 MHz
 Producer: LumenRadio

Connection

DMX in/Out: IP65 Locking 3-pin & 5-pin XLR connectors
Ethernet: IP65 RJ45 connecto
Power: IP65 Neutrik powerCON TRUE1

Rigging

Mounting points: 2 pairs of 1/4-turn locking points
2x Omega adaptors with 1/4-turn quick locks

Temperatures

Maximum ambient temperature : +40° C
Minimum ambient temperature: -10°C
Maximum housing temperature : 80° C

Minimum distances

Min. distance from flammable materials: 1 m
Min. distance of illuminated objects (Standard mode): 15 m
Min. distance of illuminated objects (Eco mode): 12 m

Total heat dissipation

1876 BTU/h (calculated)

Weight

42,6 kg

Protection factor

CE: IP65

Included items

1x Omega adaptor CL-regular 2 pcs in box (P/N10980033)
1x Power cord including powerCON TRUE1 In connector

Optional accessories

(P/N 14080065) Lamp Osram Sirius HRI 310W RO
(P/N 99030100) Upgrade kit CRMX Universal 260
(P/N 17030386) Doughty Trigger Clamp
(P/N 99011957) Safety wire 50 kg
(P/N 10980632) - Frost I 0,5° (exchange) for MegaPointe/iPointe 65
(P/N 10980633) - Frost I 1° (exchange) for MegaPointe/iPointe 65
(P/N 10980634) - Frost I 5° (exchange) for MegaPointe/iPointe 65
(P/N 10980635) - Frost I 10° (exchange) for MegaPointe/iPointe 65
(P/N 10980636) - Frost I 20° (exchange) for MegaPointe/iPointe 65
(P/N 10980637) - Frost I 30° (exchange) for MegaPointe/iPointe 65
(P/N 10980638) - Frost II 0,5° (exchange) for MegaPointe/iPointe 65
(P/N 10980639) - Frost II 1° (exchange) for MegaPointe/iPointe 65
(P/N 10980640) - Frost II 5° (exchange) for MegaPointe/iPointe 65
(P/N 10980641) - Frost II 10° (exchange) for MegaPointe/iPointe 65
(P/N 10980642) - Frost II 20° (exchange) for MegaPointe/iPointe 65
(P/N 10980643) - Frost II 30° (exchange) for MegaPointe/iPointe 65

Dimensions (mm)

317,1
665,5
368
421

265°
779,8
493,4
268,3
478,7

140
140
4x Ø 13

761,7
277
344,3

506,4
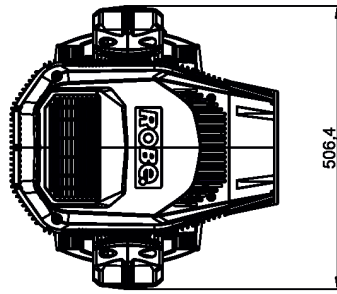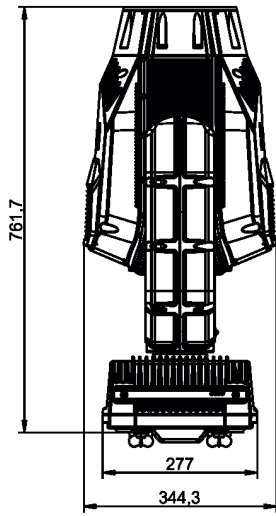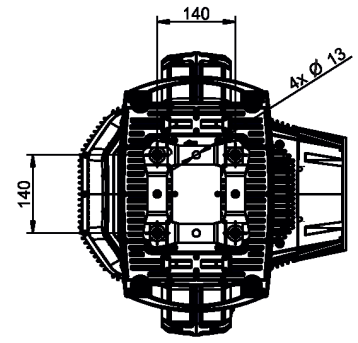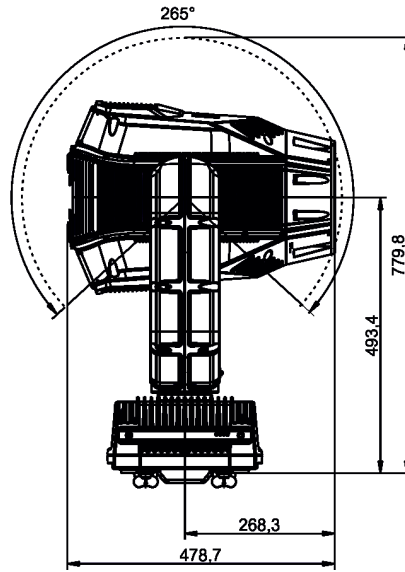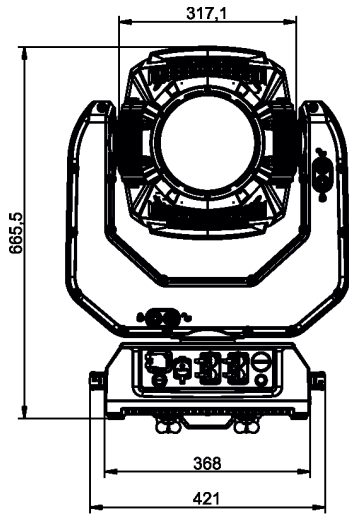
11. Cleaning

Regular cleaning will not only ensure the maximum light output, but will also allow the fixture to function reliably throughout its life.
The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the fixture housing.
The front glass cover of the head will require cleaning on a monthly basis.
A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!

DANGER !
Always disconnect the fixture from mains before starting any cleaning or maintenance work.

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12 Maintenance

User can do the folloving operations:
-lamp replacement
-main fuse replacement
-battery replacement
-gobo replacement

Another maintenance and service operations should be carried out by trained technicians only. If you need any spare parts, please order genuine parts from your local Robe distributor.

Replacing the fuse.
Before replacing the fuse, disconnect the fixture from the mains.
 1. Using a screwdriver, unscrew (anti-clockwise) the fuse holder cap from the housing of the base.
 2. Remove the blown fuse from the fuse holder.
 3. Place a good fuse (only the same type and rating) into the fuse holder.
 4. Screw the fuse holder cap back to the housing and reconnect power.

Replacing the battery.
Before replacing the battery, disconnect the fixture from the mains.
 1. Using a flat-blade screwdriver, unscrew (anti-clockwise) the battery cover from the base.
 2. Unscrew (anti-clockwise) the battery holder cap.
 3. Remove the exhousted battery from the battery holder.
 4. Place a new battery (only the same type) into the battery holder.
 5. Screw the battery holder cap back.
 6. Screw the battery holder cap cover back to base and reconnect power.

Fuse holder cap

Battery cover
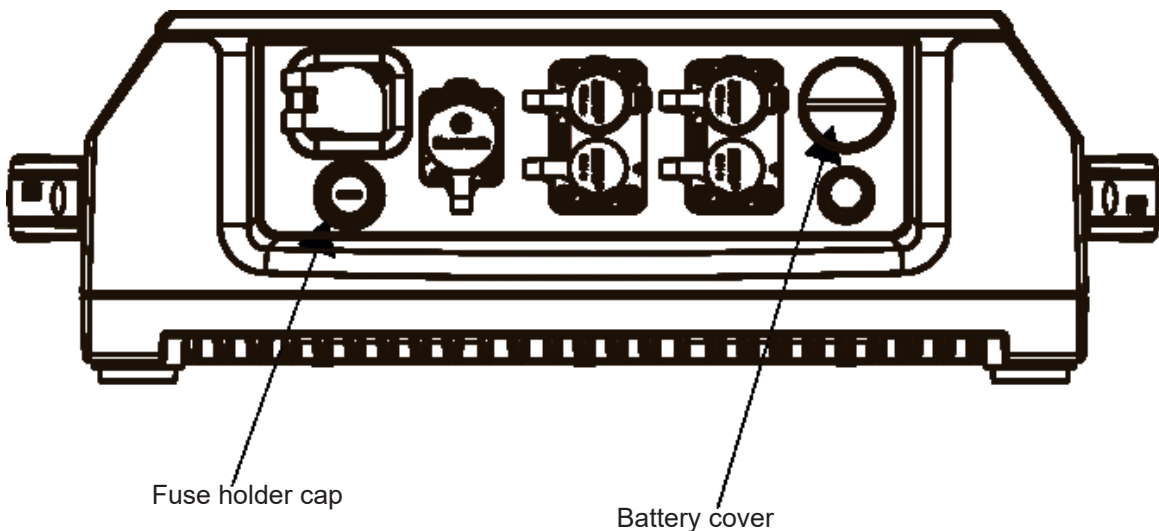
Regular inspections are recommended to ensure proper function and extended life.
Be sure all screws and fasteners are securely tightened at all times. Lose screws may fall out during normal operation resulting in damage or injury as larger parts could fall.
Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure persons.
Electric power supply cable must not show any damage.

Warning
If the fixture is connected to mains, high voltage is present at a heat sink and some parts of the lamp driver in the fixture base !
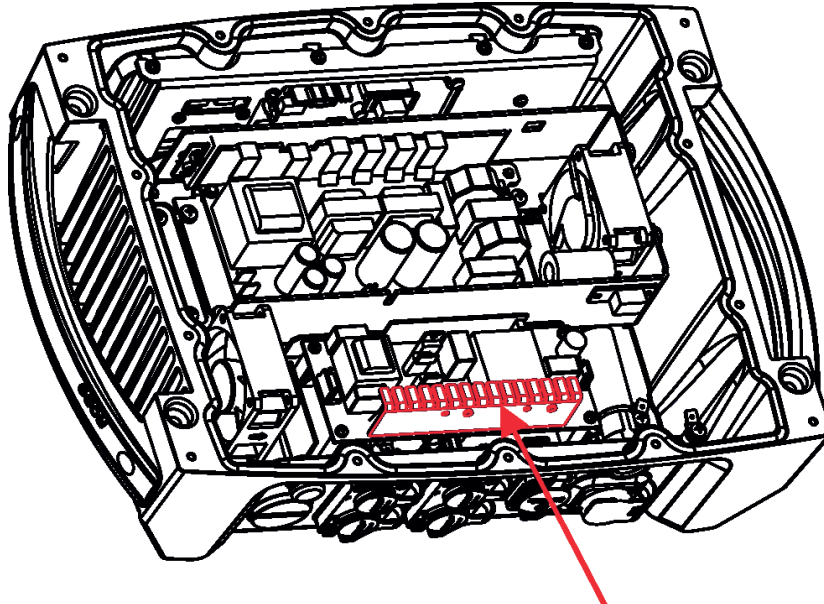
Lamp driver and its heat sink is under high voltage!

Checking plastic parts of fixture housing.
The plastic covers of the fixture head and arms 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 ageing process may influence plastic materials.
This checking is necessary for both fixed installations and preparing fixtures for renting.

Notice.
During operation, a small amount of grease might come out from the rubber seal, this is normal and can be observed also on newly manufactured units. Wiping the excess oil away is sufficient."

12.1 Fixture covers and torques of cover crews

Keep values of torques as stated on pictures below otherwise leakage issues can occur.

Bottom base cover
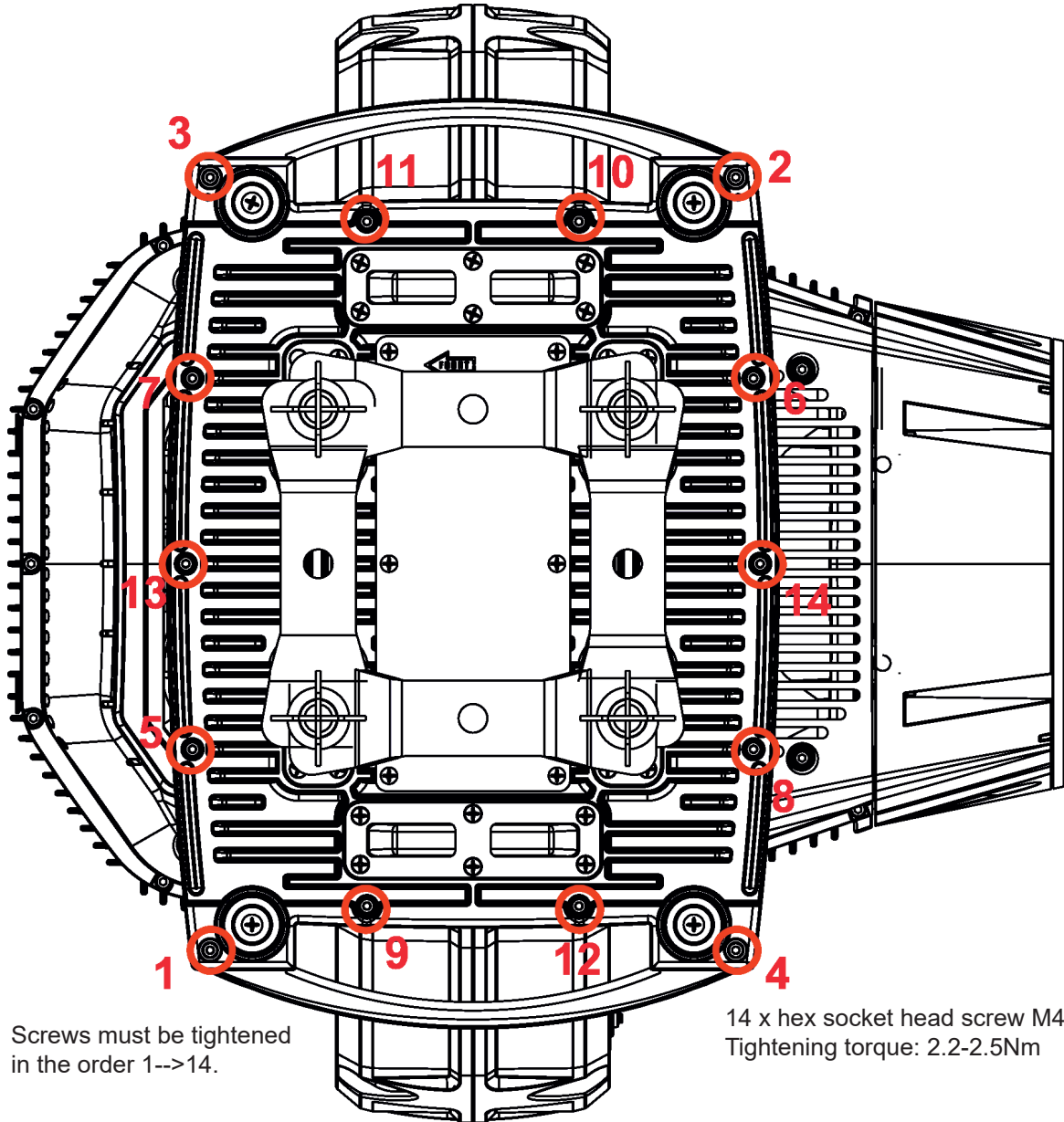
Screws must be tightened in the order 1-->14.

14 x hex socket head screw M4x16
Tightening torque: 2.2-2.5Nm

Carefully check the gasket for signs of deformities or hardening and if it is correctly placed before screwing the bottom base cover back.

Head covers (on both sides of the head)

Screws must be tightened in the order 1-->15.

The front lens module has to be removed before removing head cover in order to gain access to the two hex socket head screws M4x10.

4

7   14

1

5

A

B

9

12

15

10

11

D

C   6   13   8   3

2
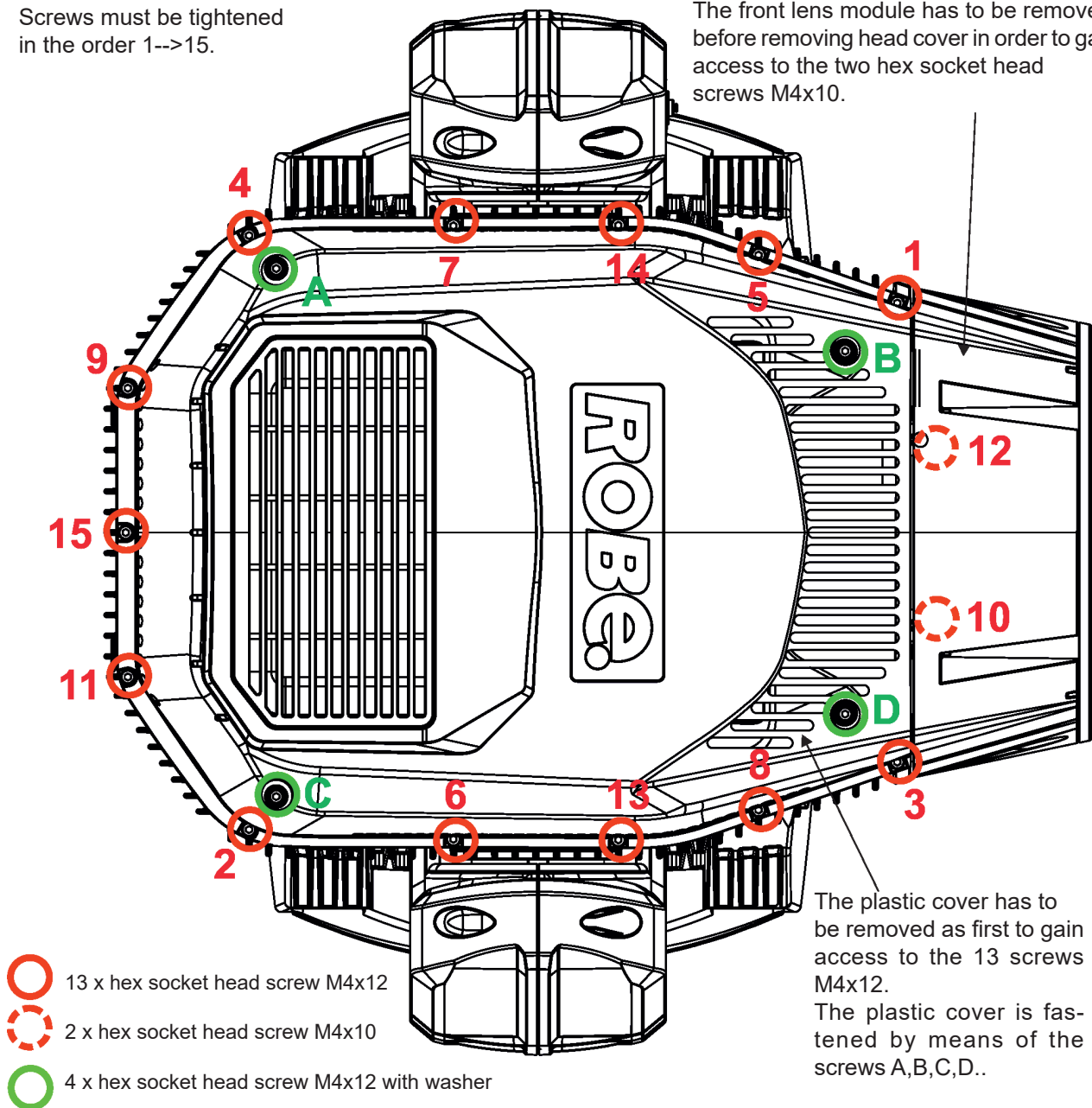
The plastic cover has to be removed as first to gain access to the 13 screws M4x12.
The plastic cover is fastened by means of the screws A,B,C,D..

○ 13 x hex socket head screw M4x12

○ 2 x hex socket head screw M4x10

○ 4 x hex socket head screw M4x12 with washer

All fastening screws have to be sufficiently tightened but with caution without cracking or denting the plastic under heads of screws. Check the head covers are tightly fastened to the body of the head.

Carefully check the gasket for signs of deformities or hardening and if it is correctly placed before screwing the head cover back.

Front lens module
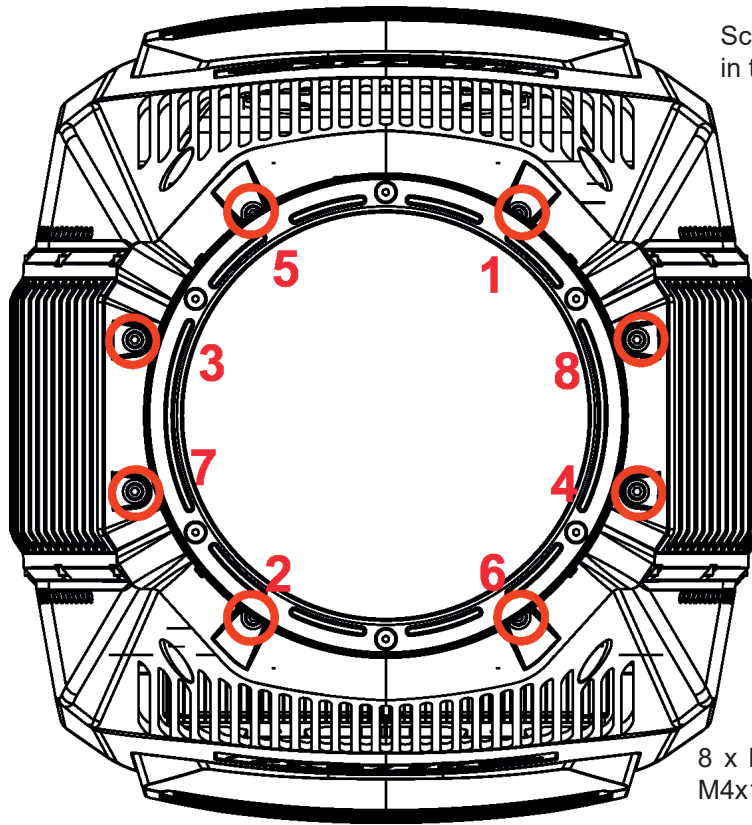
Screws must be tightened in the order 1-->8.

8 x hex socket head screw M4x12 with washer

Carefully check the gasket for signs of deformities, hardening and if it is correctly placed before screwing the front lens back.

Protecting glass on the front lens module
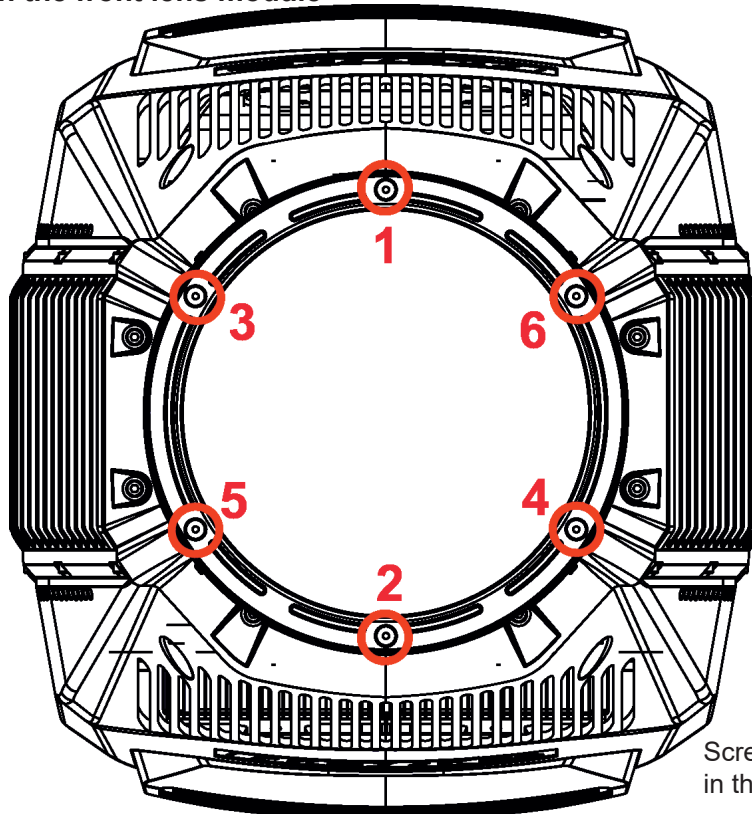
6 x flat head screw M4x12 (with internal hex socket)

Screws must be tightened in the order 1-->6.

Carefully check the gasket for signs of deformities or hardening and if it is correctly placed before screwing the front glass back.

Arm covers
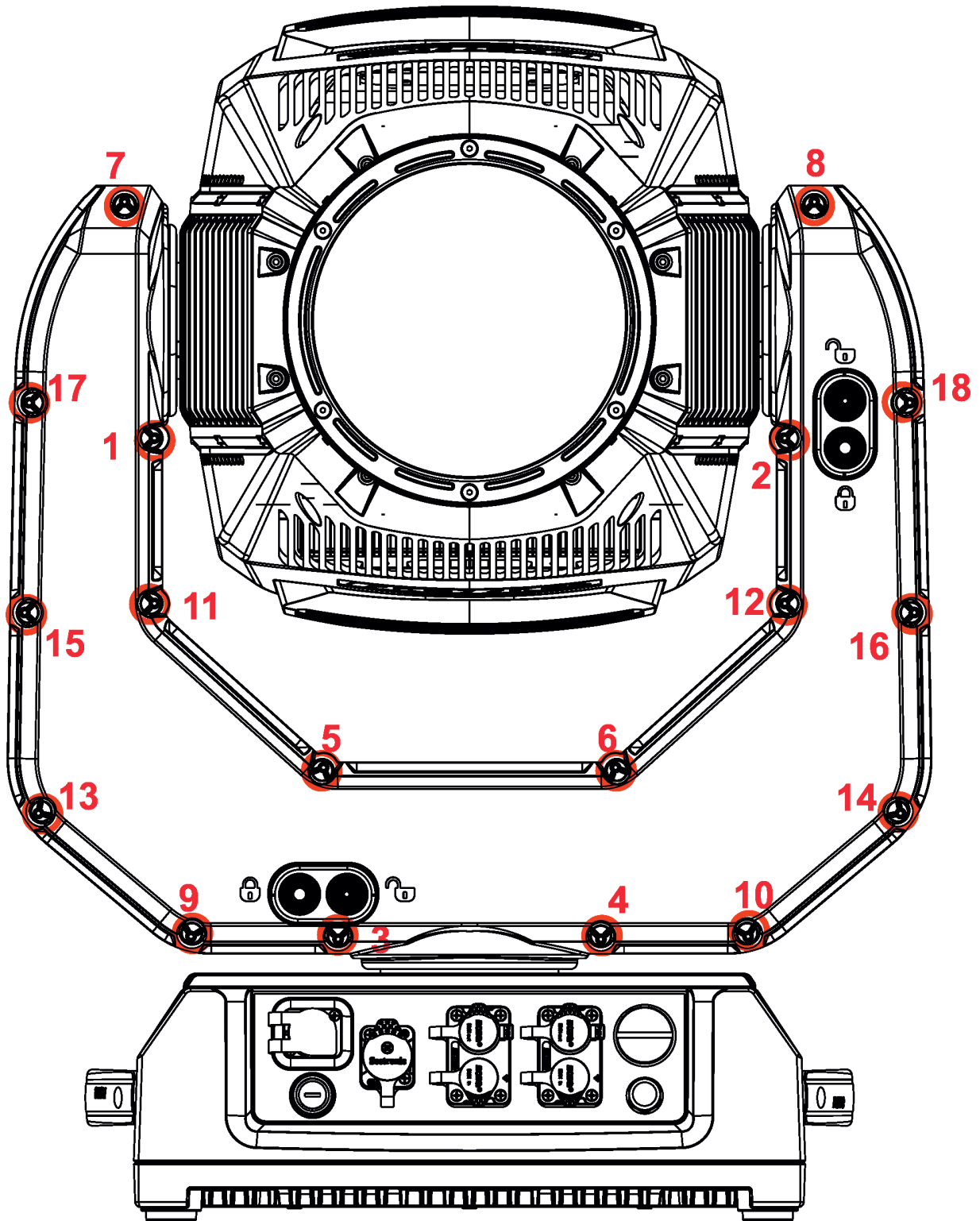
Screws must be tightened in
the order 1-->18.

18 x hex socket head screw M3x12
Tightening torque: 1-1.4Nm

Carefully check the gasket for signs of deformities or hardening before screwing the arm covers back.

Lamp cover
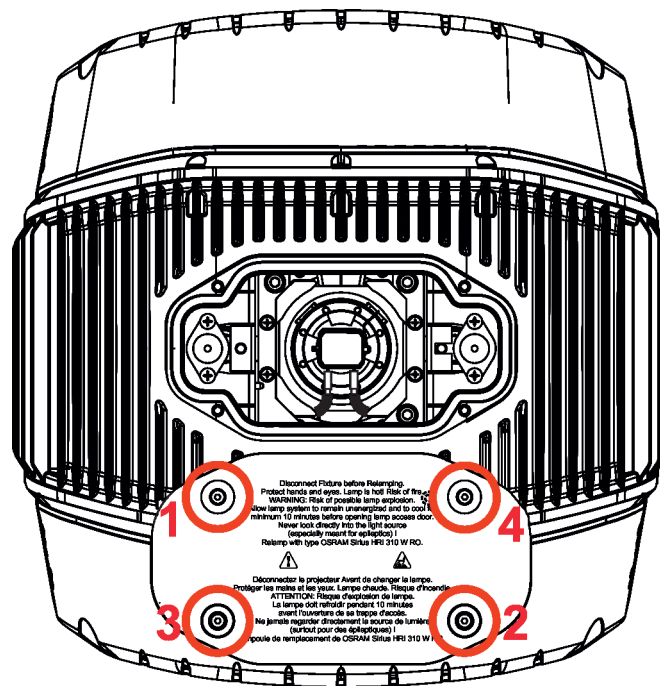
Screws must be tightened in
the order 1-->2-->3-->4

4 x hex socket head screw M4x16
Tightening torque: 2-2.3 Nm

Carefully check the gasket for signs of deformities or hardening before screwing the lamp cover back.

Cover of the desiccant chamber

6 x hex socket head screw M3x8
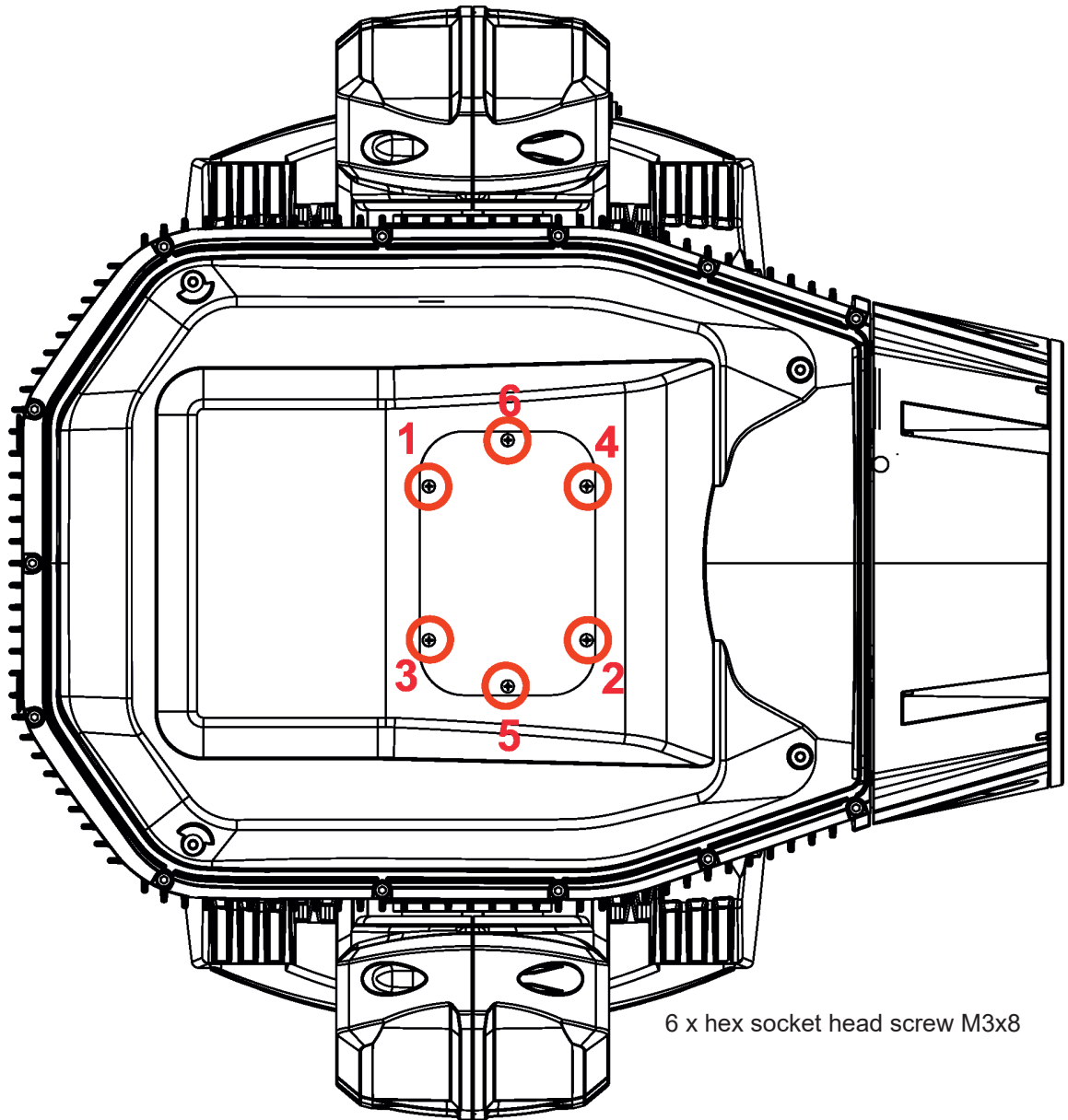
Carefully check the gasket for signs of deformities or hardening before screwing the chamber cover back.

12.2 Replacing rotating gobos

> ***WARNING! Gobo repleacement should be done by a trained technician!***
> ***Replace gobos with the device unplug from mains before.***

1. Disconnect the fixture from mains and allow it to cool approximately 60 minutes.
2. Lock the head (by means of the pan and tilt locks) in the position that lamp cover is in a readable position as shown on the picture below.
3. Remove the head cover (cover without fans) of the head as described in the chapter 10.1 Fixture covers and torques of cover crews.
4. Loosen the fourth screws (3) and remove the lamp cover (2) to get access to the rotation gobo wheel (1).
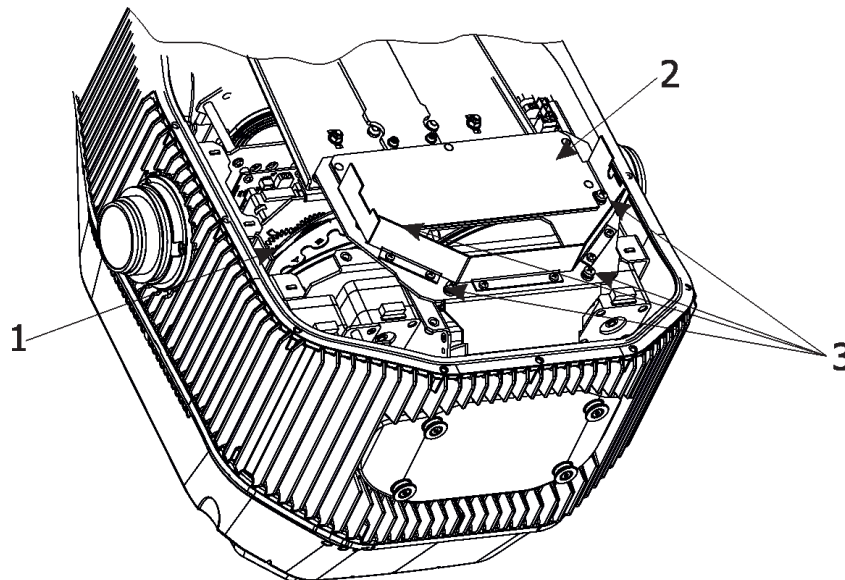
5. Gently pull the gobo holder (4) up from the rotation gobo wheel (3).
6. Carefully remove the spring lock (5) and the gobo (6) from the gobo holder by pushing to the gobo from side of toothed wheel. Do not touch the glass gobo bare fingers - use a suitable gloves.
7. Insert the new gobo (glossy side towards the lamp). Orientation of gobos shows a picture below. Gobo has to be oriented according to axis of the gobo holder and the position point (7).
8. Insert the spring lock (5) to secure the gobo (6) in the gobo holder (4).
9. Insert the gobo holder (4) back into rotating gobo wheel (3) in this way, that its position point (7) has to aimed
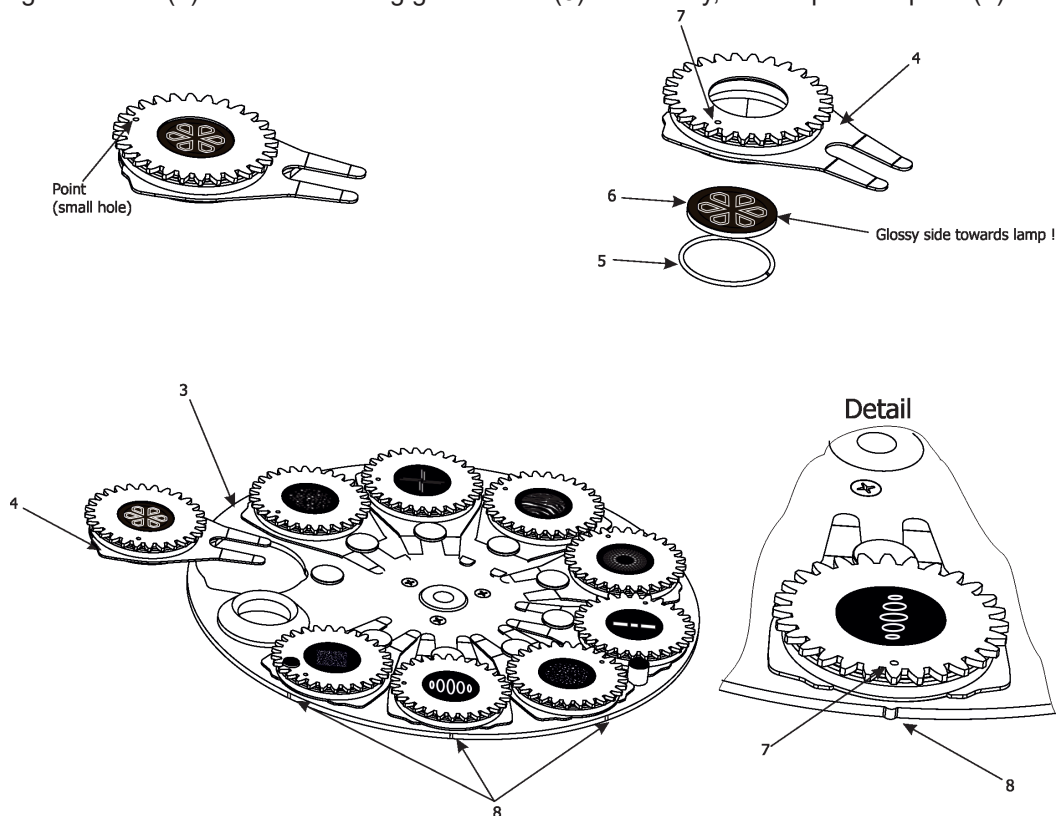
at a small toothlike projection (8) on the edge of the rotating gobo wheel.

Important! When inserting the gobo holder back to the rotating gobo wheel, one of the adjacent gobo holder 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.

10. Screw the lamp cover (2) back to the fixture.

11. Carefully check the gasket for signs of deformities or hardening and if it is correctly placed in the groove of the head housing before screwing the head cover back on the head.

12. Screw the head cover on the head.

13. Connect the fixture to the mains.

14. Use the menu Service to calibrate replaced gobos (Service -> Calibration -> Calibrate effects -> R. Gobo Index 1....9).

Warning!
Use only gobos intended for the Robin iPointe65.
Do not try to use gobos from the Robin Pointe.
(The Robin iPointe65 generates heat the gobos of the Robin Pointe are not designed for).

Orientation of gobos in the gobo holders

View from side of gobo inserting
(Points and magnet showed for orientation only,
in fact they are on the opposite side of the gobo holder)
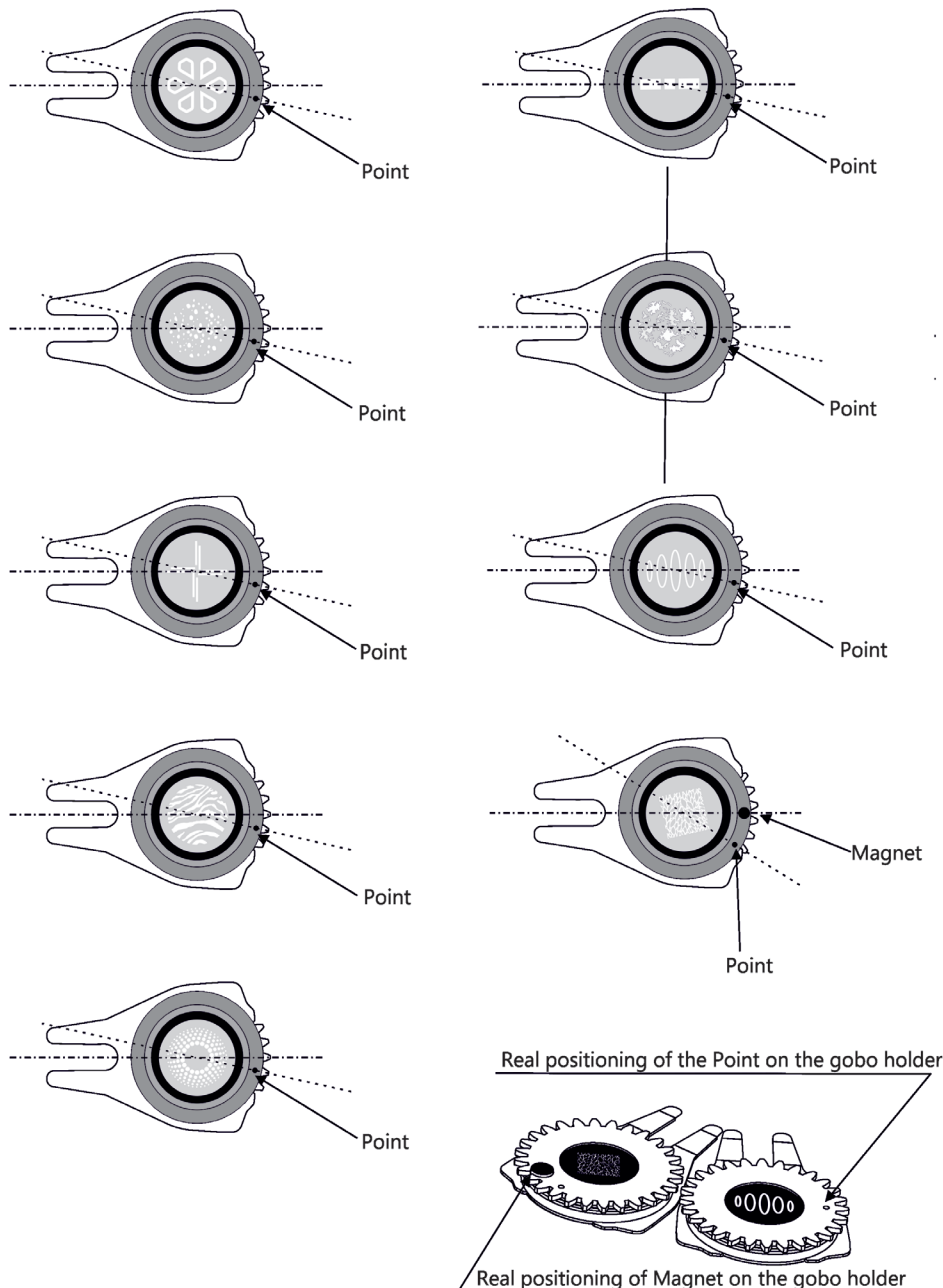
12.3 Disposing of the product

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

13. Photometric diagrams

Lamp in Standard Mode

Beam Application

Min. Zoom (Min. Hot-Spot)
Total Output: 7372 lumens

	0	72736	4546	1137	505	284	182 Foot-candles (center)
	0	782920	48935	12230	5437	3058	1960 Lux (center)

Beam opening (m): 3 2 1 0 1 2 3

1.8°

	0	5	20	40	60	80	100 Distance (m)
	0	0.15	0.6	1.3	1.9	2.5	3.1 Diameter (m)
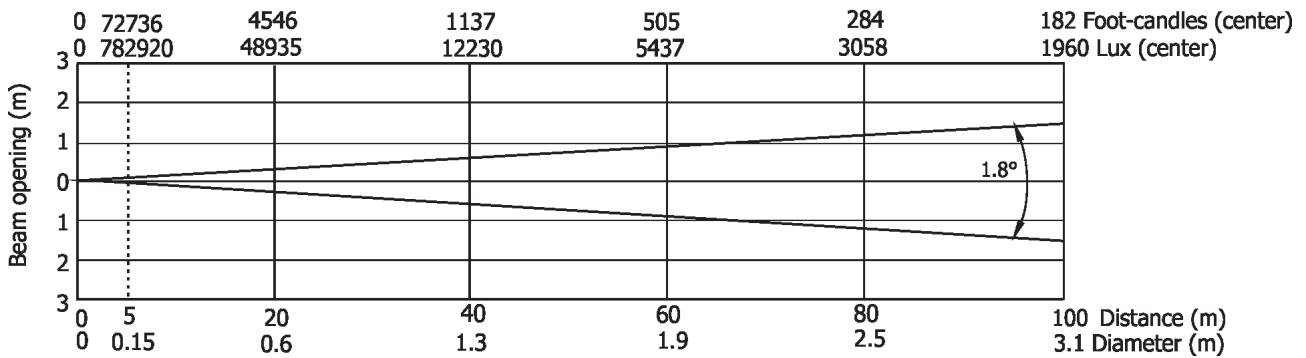
Max. Zoom (Min. Hot-Spot)
Total Output: 7477 lumens

	0	617	39	10	4	2.4	1.5 Foot-candles (center)
	0	6640	415	104	46	25	17 Lux (center)

Beam opening (m): 10 8 4 0 4 8 10

21°

	0	5	20	40	60	80	100 Distance (m)
	0	1.9	7.4	14.8	22.2	29.7	37.1 Diameter (m)
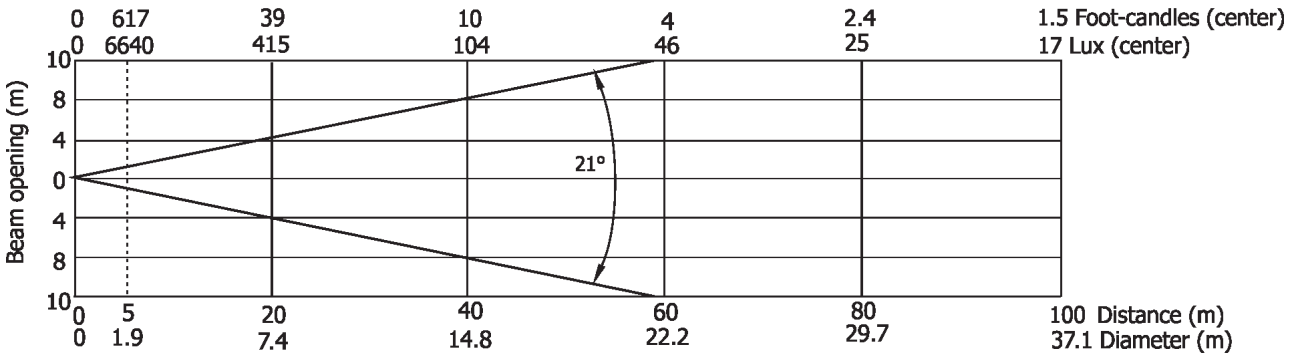
Beam Application

Min. Zoom (Max. Hot-Spot)
Total Output: 10517 lumens

0	147219	9201	2300	1022	575	368 Foot-candles (center)
0	1584660	99040	24760	11005	6190	3960 Lux (center)

Beam opening (m): 3 2 1 0 1 2 3

1.8°

0	5	20	40	60	80	100 Distance (m)
0	0.15	0.6	1.3	1.9	2.5	3.1 Diameter (m)
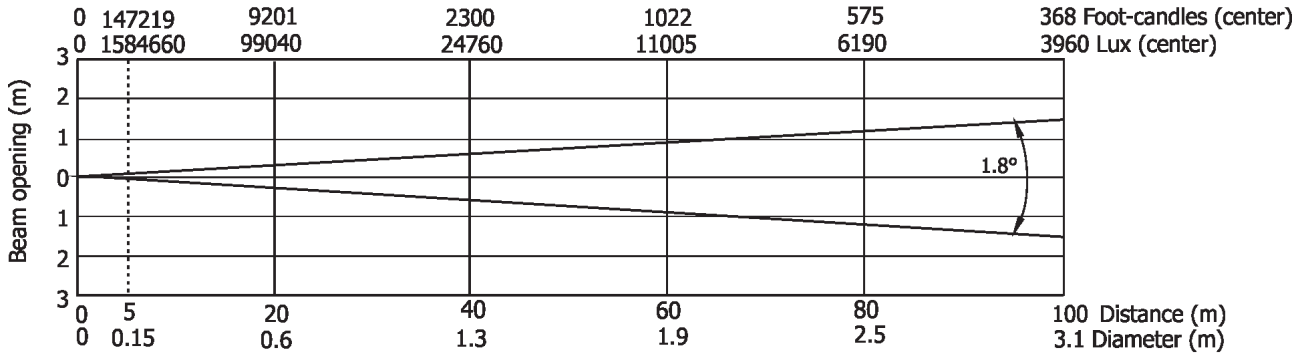
Max. Zoom (Max. Hot-Spot)
Total Output: 11032 lumens

0	1295	81	20	9	5	3.2 Foot-candles (center)
0	13940	870	218	100	55	35 Lux (center)

Beam opening (m): 10 8 4 0 4 8 10

21°

0	5	20	40	60	80	100 Distance (m)
0	1.9	7.4	14.8	22.2	29.7	37.1 Diameter (m)

52
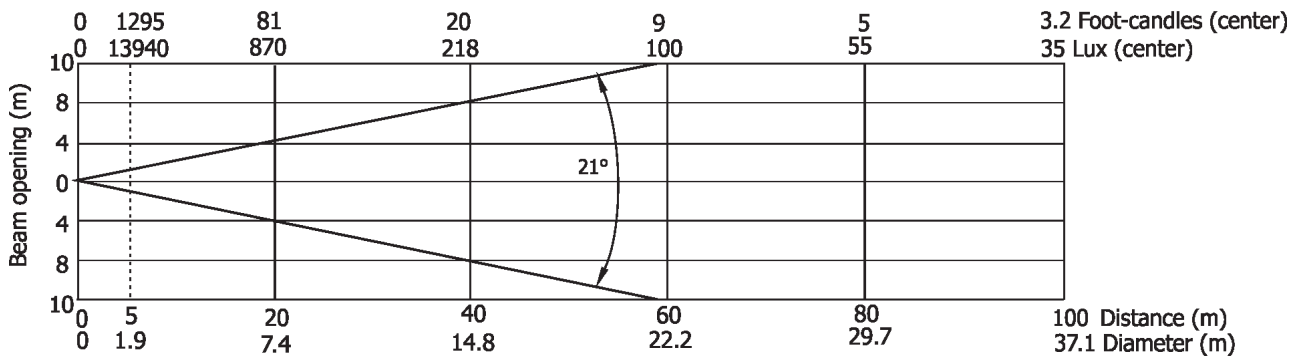
Spot Application

Min. Zoom (Min. Hot-Spot)
Total Output: 9679 lumens

	0	35446	8862		3939		2215		1418		985		723		554 Foot-candles (center
	0	381540	95385		42393		23846		15260		10598		7787		5960 Lux (center)

Beam opening (m): 3 2 1 0 1 2 3

3°

0	5	10		15		20		25		30		35		40 Distance (m)
0	0.25	0.5		0.8		1.0		1.3		1.6		1.8		2.1 Diameter (m)
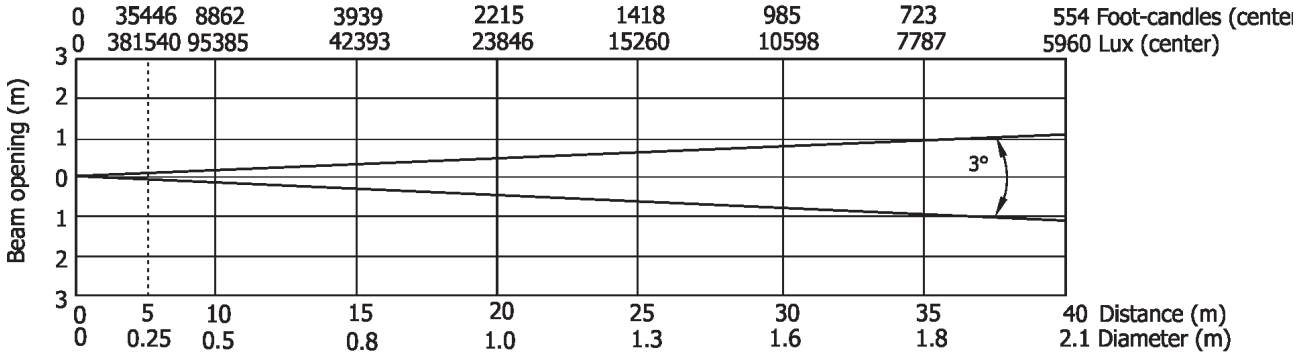
Max. Zoom (Min. Hot-Spot)
Total Output: 9874 lumens

	0	206	52		23		13		8		6		4.2		4 Foot-candles (center)
	0	2220	555		247		140		90		62		45		35 Lux (center)

Beam opening (m): 12 8 4 0 4 8 12

42°

0	5	10		15		20		25		30		35		40 Distance (m)
0	3.8	7.7		11.5		15.4		19.2		23		26.9		30.7 Diameter (m)
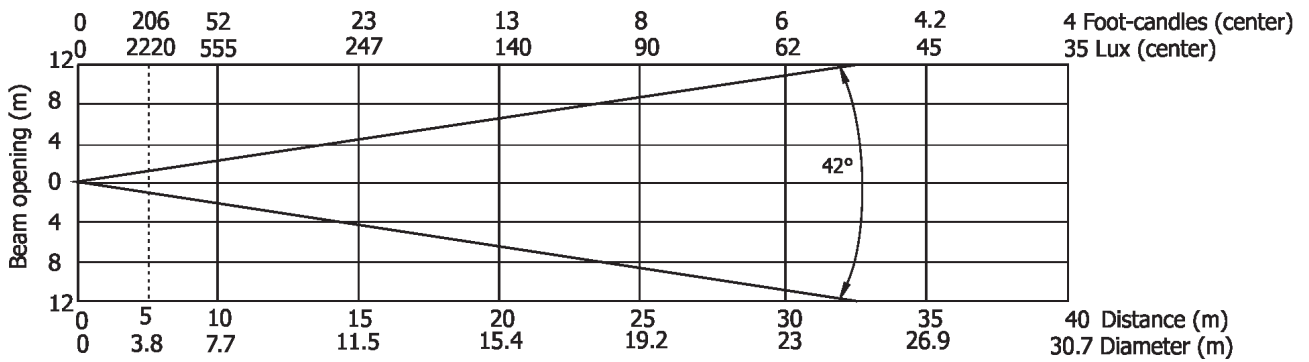
Spot Application

Min. Zoom (Max. Hot-Spot)
Total Output: 11618 lumens

	0	52150	13038	5795	3260	2086	1449	1064	815 Foot-candles (center)
	0	561340	140335	62370	35083	22454	15592	11456	8770 Lux (center)

Beam opening (m)

3°

Distance (m)	0	5	10	15	20	25	30	35	40
Diameter (m)	0	0.25	0.5	0.8	1.0	1.3	1.6	1.8	2.1
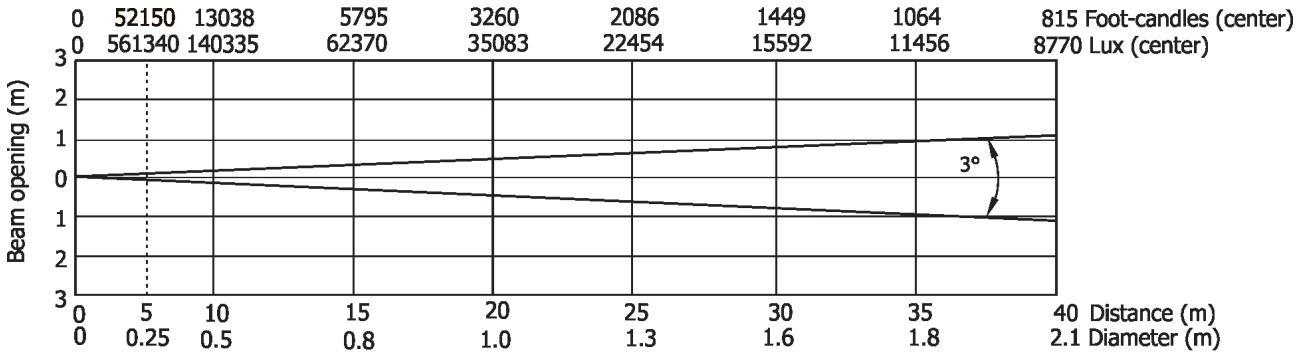
Max. Zoom (Max. Hot-Spot)
Total Output: 11628 lumens

	0	307	77	34	19	12	9	6	5 Foot-candles (center)
	0	3300	825	367	207	132	92	67	52 Lux (center)

Beam opening (m)

42°

Distance (m)	0	5	10	15	20	25	30	35	40
Diameter (m)	0	3.8	7.7	11.5	15.4	19.2	23	26.9	30.7
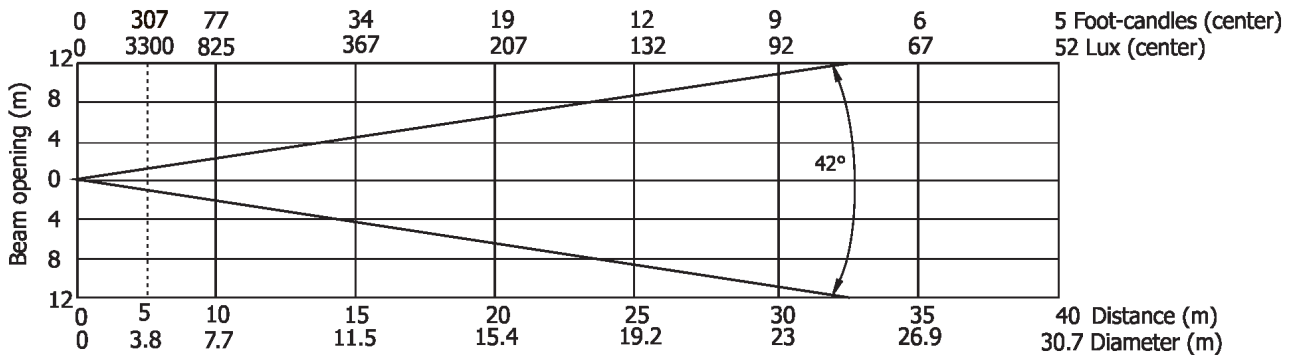
14. ChangeLog

This section summarizes changes in the user manual.

Version of the manual	Date of issue	Description of changes
1.1	17/03/2021	Safety wire installation changed
1.2	16/04/2021	Fixture installation information added
1.3	18/05/2021	NFC information added
1.4	10/06/2021	Information about grease from rubber seal added
1.5	21/06/2021	DMX chart ver. 1.1
1.6	22/07/2021	Optional frost filters added
1.7	30/09/2021	Locking/unlocking screen added

Mode/channel		DMX	Function	Type of
1	**2**	**Value**		**control**
1	**1**		**Pan**	
		0 - 255	Pan movement by 540° (128=default)	proportional
2	**2**		**Pan Fine**	
		0 - 255	Fine control of pan movement (0=default)	proportional
3	**3**		**Tilt**	
		0 - 255	Tilt movement by 265° (128=default)	proportional
4	**4**		**Tilt fine**	
		0 - 255	Fine control of tilt movement (0=default)	proportional
5	**5**		**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 sec. to 25.5 sec.	proportional
6	**6**		**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 (except CRI setting) at least 3 sec. („Shutter,Strobe" channel 37/33 must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden except DMX Input.	
		10-14	DMX input: Wired DMX *	step
		15-19	DMX input: Wireless DMX *	step
			* function is active only10 seconds after switching the fixture on	
		20-24	Graphic display On	step
		25-29	Graphic display Off	step
			To activate CRI setting, stop in DMX value for at least 3 seconds.	
		30-34	High CRI (CRI=90)	step
		35-39	Standard CRI (CRI=80)	step
		40-44	Eco mode (Lamp power 265 W)	step
		45-49	Standard mode (Lamp power 310 W)	step
		50-54	Close proximity mode On	step
		55-59	Close proximity mode Off	step
		60-64	Fans mode: Auto	step
		65-69	Fans mode: High	step
		70-74	Dimmer curve: Square law	step
		75-79	Dimmer curve: Linear	step
		80-89	Reserved	
		90-94	Pan/Tilt speed mode	step
		95-99	Pan/Tilt time mode	step
		100-101	Blackout while pan/tilt moving	step
		102-103	Disabled blackout while pan/tilt moving	step
		104-105	Blackout while prism wheel 1 (wheel 2) moving	step
		106-107	Disabled blackout while prism wheel 1 (wheel 2) moving	step
		108-119	Reserved	
		120-124	Parking position On	step

Robin iPointe65 - DMX protocol
Version: 1.1   **Mode 1**-Standard 16-bit, **Mode 2** -Reduced 8-bit

DMX protocol

Mode/channel		DMX	Function	Type of
1	2	Value		control
		125-129	Parking position Off	step
			To activate following functions, stop in DMX value for at least 3 seconds.	
		130 - 139	Lamp On	step
		140 - 149	Pan/Tilt reset	step
		150 - 159	Colour system reset	step
		160 - 169	Gobo wheels reset	step
		170 - 179	Dimmer/Shutter/Hot Spot reset	step
		180 - 189	Zoom/focus/frost/prism wheels reset	step
		190 - 199	Effect wheel reset	step
		200 - 209	Total reset	step
		210 - 229	Reserved	
		230 - 239	Lamp Off	step
			The following RoboSpot related commands are only applicable when the RoboSpot is connected:	
		240 - 244	RoboSpot enabled	step
		245 - 249	RoboSpot disabled - except handle faders and pan/tilt	step
		250 - 255	RoboSpot fully disabled	step
7	**7**		**Cyan**	
		0 - 255	Cyan from min. saturation --> full cyan (0=default)	proportional
8	**8**		**Magenta**	
		0 - 255	Magenta from min. saturation --> full magenta (0=default)	proportional
9	**9**		**Yellow**	
		0 - 255	Yellow from min. saturation --> full yellow (0=default)	proportional
10	**10**		**Colour wheel**	
			Continual positioning	
		0	Open/white (0=default)	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

Mode/channel		DMX Value	Function	Type of control
1	**2**			
		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
11	*****		**Colour wheel - fine positioning**	
		0 - 255	Fine positioning (0=default)	proportional
12	**11**		**Virtual colour wheel**	
		0	Open/white (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

Mode/channel		DMX Value	Function	Type of control
1	2			
		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
		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	Raw DMX	proportional
13	**12**		**Effect Speed**	
			Speed of Cyan and Magenta and Yellow movement	
		0-255	Speed of CMY movement from max. to min. (0=default)	proportional
14	**13**		**CMY & Colour wheel time**	
		0	Function is off (0=default)	step
		1 - 255	Time of CMY and col. wheel movement (0.1sec-->25.5sec.)	proportional
15	**14**		**Zoom & Focus & Frost & Prism time**	
		0	Function is off (0=default)	step
		1 - 255	Time of zoom/ focus movement (0.1 sec-->25.5 sec.)	proportional
		1-100	Time of frost movement (0.1 sec -->10 sec)	proportional
		1-50	Time of prism movement (0.1 sec-->5 sec.)	proportional
16	**15**		**Effect wheel positioning**	
		0-19	No function (0=default)	step
		20-127	Proportional indexing	proportional
		128-170	Ramping from open to full position (max--->min. speed)	proportional
		171-213	Ramping from open to half position (max. --->min. speed)	proportional

| Mode/channel | | DMX | Function | Type of |
1	2	Value		control
		214-255	Ramp. from half position to full position (max. --->min. speed)	proportional
17	**16**		**Effect wheel rotation**	
		0	No rotation	step
		1 - 127	Forwards rotation from fast to slow	proportional
		128	No rotation (128=default)	step
		129 -255	Backwards rotation from slow to fast	proportional
18	**17**		**Effect wheel animations**	
		0-3	No animation (0=default)	
			Note : All animations were created at distance of 5 m from screen with zoom=16 DMX. Focus value for each animation is stated in brackets	
			Coloured animations. The channels are blocked: CMY , Colour wheel, Virtual colour wheel, Effect wheel positioning, Effect wheel rot., Rotat. Gobos and Rot. Gobo rotation	
		4-5	Animation Macro 1 (Focus=159 DMX at 5 m)	step
		6-7	Animation Macro 2 (Focus=154 DMX at 5 m)	step
		8-9	Animation Macro 3 (Focus=154 DMX at 5 m)	step
		10-11	Animation Macro 4 (Focus=157 DMX at 5 m)	step
		12-13	Animation Macro 5 (Focus=157 DMX at 5 m)	step
		14-15	Animation Macro 6 (Focus=166DMX at 5 m)	step
		16-17	Animation Macro 7 (Focus=145 DMX at 5 m)	step
		18-19	Animation Macro 8 (Focus=162 DMX at 5 m)	step
		20-21	Animation Macro 9 (Focus=162 DMX at 5 m)	step
		22-23	Animation Macro 10 (Focus=162 DMX at 5m)	step
			Black and white animations . The channels are blocked: Effect wheel positioning, Effect wheel rot., Rotat. Gobos and Rot. Gobo rotation	
		24-25	Animation Macro 1 (Focus=159 DMX at 5 m)	step
		26-27	Animation Macro 2 (Focus=154 DMX at 5 m)	step
		28-29	Animation Macro 3 (Focus=154 DMX at 5 m)	step
		30-31	Animation Macro 4 (Focus=157 DMX at 5 m)	step
		32-33	Animation Macro 5 (Focus=157 DMX at 5 m)	step
		34-35	Animation Macro 6 (Focus=166DMX at 5 m)	step
		36-37	Animation Macro 7 (Focus=145 DMX at 5 m)	step
		38-39	Animation Macro 8 (Focus=162 DMX at 5 m)	step
		40-41	Animation Macro 9 (Focus=162 DMX at 5 m)	step
		42-43	Animation Macro 10 (Focus=162 DMX at 5m)	step
		44-255	Raw DMX	proportional
19	**18**		**Static gobo wheel**	
		0-3	Open/Hole (0=default)	step
			Positioning	
		4-9	Gobo 1	step
		10-15	Gobo 2	step
		16-21	Gobo 3	step
		22-27	Gobo 4	step
		28-33	Gobo 5	step
		34-39	Gobo 6	step
		40-45	Gobo 7	step
		46-51	Gobo 8	step
		52-57	Gobo 9	step
		58-63	Gobo 10	step

Mode/channel		DMX Value	Function	Type of control
1	2			
		64-69	Beam reducer 1	step
		70-75	Beam reducer 2	step
		76-81	Beam reducer 3	step
		82-87	Beam reducer 4	step
			Shaking gobos from slow to fast	
		88-95	Gobo 1	proportional
		96-103	Gobo 2	proportional
		104-111	Gobo 3	proportional
		112-119	Gobo 4	proportional
		120-127	Gobo 5	proportional
		128-135	Gobo 6	proportional
		136-143	Gobo 7	proportional
		144-151	Gobo 8	proportional
		152-159	Gobo 9	proportional
		160-167	Gobo 10	proportional
		168-175	Beam reducer 1	proportional
		176-183	Beam reducer 2	proportional
		184-191	Beam reducer 3	proportional
		192-199	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	Random gobo selection by audio control	step
			(Set microphone sensitivity in menu „Personality")	
		250 - 255	Auto random gobo selection from fast to slow	proportional
20	**19**		**Rotating gobo wheel**	
			Index - set indexing on channel 21/20	
		0	Open/Hole (0=default)	step
		1-4	Hole (flat field)	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 21/20	
		32-34	Gobo 1	step
		35-37	Gobo 2	step
		38-40	Gobo 3	step
		41-43	Gobo 4	step
		4-46	Gobo 5	step
		47-49	Gobo 6	step
		50-52	Gobo 7	step
		53-55	Gobo 8	step
		56-59	Gobo 9	step
			Shaking gobo from slow to fast	

Mode/channel		DMX Value	Function	Type of control
1	2			
			Index - set indexing on channel 21/20	
		60-67	Gobo 1	proportional
		68-75	Gobo 2	proportional
		76-83	Gobo 3	proportional
		84-91	Gobo 4	proportional
		92-99	Gobo 5	proportional
		100-107	Gobo 6	proportional
		108-115	Gobo 7	proportional
		116-123	Gobo 8	proportional
		124-129	Gobo 9	proportional
			Shaking gobo from slow to fast	
			Rotation - set rotation on channel 21/20	
		130-137	Gobo 1	proportional
		138-145	Gobo 2	proportional
		146-153	Gobo 3	proportional
		154-161	Gobo 4	proportional
		162-169	Gobo 5	proportional
		170-177	Gobo 6	proportional
		178-185	Gobo 7	proportional
		186-193	Gobo 8	proportional
		194-199	Gobo 9	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	Random gobo selection by audio control	step
			(Set microphone sensitivity in menu „Personality")	
		250 - 255	Auto random gobo selection from fast to slow	proportional
21	20		**Rot. gobo indexing and rotation**	
			Gobo indexing - set position on channel 20/19	
		0 - 255	Gobo indexing (128=default)	proportional
			Gobo rotation - set position on channel 20/19	
		0	No rotation	step
		1 - 127	Forwards gobo rotation from fast to slow	proportional
		128	No rotation (128=default)	step
		129 - 255	Backwards gobo rotation from slow to fast	proportional
22	*		**Rot. gobo indexing/rotation - fine**	
		0-255	Fine indexing/rotation (0=default)	proportional
23	21		**Prism wheel 1**	
			This wheel is blocked If Rotating gobo wheel >0 DMX	
		0 - 3	Open position/hole (0=default)	step
			Index - set indexing on channel 24/22	
		4-7	Prism 1 - 6-facet linear	step
		8-11	Prism 2 - cylindrical	step
		12-15	Prism 3 - 8-facet 12° circular	step
			Rotation - set rotation on channel 24/22	
		16-19	Prism 1 - 6-facet linear	step
		20-23	Prism 2 - cylindrical	step
		24-27	Prism 3 - 8-facet 12° circular	step
		28-255	Raw DMX	proportional

Mode/channel		DMX Value	Function	Type of control
1	2			
24	22		**Prism wheel 1 indexing/rotation**	
			Prism indexing - set position on channel 23/21	
		0 - 255	Prism 1 indexing	proportional
			Prism 1 rotation - set position on channel 23/21	
		0	No rotation	step
		1 - 127	Forwards prism rotation from fast to slow	proportional
		128	No rotation (128=default)	step
		129-255	Backwards prism rotation from slow to fast	proportional
25	23		**Prism wheel 2**	
		0 - 3	Open position/hole (0=default)	step
			Index - set indexing on channel 26/24	
		4-7	Prism 1 - 6-facet linear	step
		8-11	Prism 2 - 32-facet circular	step
		12-15	Prism 3 - 8-facet 18° circular	step
			Rotation - set rotation on channel 26/24	
		16-19	Prism 1 - 6-facet linear	step
		20-23	Prism 2 - 32-facet circular	step
		24-27	Prism 3 - 8-facet 18° circular	step
		28-255	Raw DMX	proportional
26	24		**Prism wheel 2 indexing/rotation**	
			Prism indexing - set position on channel 25/23	
		0 - 255	Prism 1 indexing	proportional
			Prism 1 rotation - set position on channel 25/23	
		0	No rotation	step
		1 - 127	Forwards prism rotation from fast to slow	proportional
		128	No rotation (128=default)	step
		129-255	Backwards prism rotation from slow to fast	proportional
27	25		**Pattern sellection**	
			The channels are blocked: Prism Wheel 1/2, Prism Wheel 1/2 rotation	
		0-3	Open position/hole (0=default)	step
			Index - set indexing on channel 28/26	
		4-5	Pattern 1	step
		6-7	Pattern 2	step
		8-9	Pattern 3	step
		10-11	Pattern 4	step
		12-13	Pattern 5	step
		14-15	Pattern 6	step
		16-17	Pattern 7	step
		18-19	Pattern 8	step
		20-21	Pattern 9	step
		22-23	Pattern 10	step
		24-25	*Pattern 11*	step
		26-27	*Pattern 12*	step
			Rotation - set rotation on channel 28/26	
		28-29	Pattern 1	step
		30-31	Pattern 2	step
		32-33	Pattern 3	step
		34-35	Pattern 4	step
		36-37	Pattern 5	step

Mode/channel		DMX Value	Function	Type of control
1	2			
		38-39	Pattern 6	step
		40-41	Pattern 7	step
		42-43	Pattern 8	step
		44-45	Pattern 9	step
		46-47	Pattern 10	step
		48-49	*Pattern 11*	step
		50-51	*Pattern 12*	step
			Dynamic patterns-set rotation on channel 28/26	
		52-53	Pattern 13	step
		54-55	Pattern 14	step
		56-57	Pattern 15	step
		58-59	Pattern 16	step
		60-61	Pattern 17	step
		62-63	Pattern 18	step
		64-65	*Pattern 19*	step
		66-67	*Pattern 20*	step
		68-255	Raw DMX	proportional
28	26		**Pattern rotation and indexing**	
			The channels are blocked: Prism Wheel 1/2, Prism Wheel 1/2 rot.	
			Pattern indexing - set position on channel 27/25	
		0 - 255	Pattern indexing	proportional
			Pattern rotation - set position on channel 27/25	
		0	No rotation	step
		1 - 127	Forwards pattern rotation from fast to slow	proportional
		128	No rotation (128=default)	step
		129-255	Backwards pattern rotation from slow to fast	proportional
29	27		**Beam shaper selection**	
			The channels are blocked: Pris.Wheel 1 and 2, Static gobo, Rotating gobo, Frost (Light frost only)	
		0 - 3	Open position/hole (0=default)	step
			Index - set indexing on channel 30/28	
		4-7	Beam shaper 1	step
		8-11	Beam shaper 2	step
		12-15	Beam shaper 3	step
		16-19	Beam shaper 4	step
			Rotation - set rotation on channel 30/28	
		20-23	Beam shaper 1	step
		24-27	Beam shaper 2	step
		28-31	Beam shaper 3	step
		32-35	Beam shaper 4	step
		36-255	Reserved	
30	28		**Beam shaper rotation and indexing**	
			Beam shaper indexing - set position on channel 29/27	
		0 - 255	Shaper indexing	proportional
			Beam shaper rotation - set position on channel 29/27	
		0	No rotation	step
		1 - 127	Forwards shaper rotation from fast to slow	proportional
		128	No rotation (128=default)	step
		129-255	Backwards shaper rotation from slow to fast	proportional
31	29		**Frost**	

DMX protocol

Mode/channel		DMX	Function	Type of
1	2	Value		control
		0	Open (0=default)	step
			Light Frost	
			Max. time of Light frost movement 0 -->100% (100% -->0) is 10 sec.	
		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	
			Max. time of Medium frost movement 0 -->100% (100% -->0) is 10 sec.	
		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	
			Note: Combined Frost and Prism weeel 1 cannot be inserted into light beam at the same time . The Prism wheel 1 has priority to Combined Frost .	
			Max. time of Medium frost movement 0 -->100% (100% -->0) is 10 sec.	
		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
		246-255	Ramping from fast to slow	proportional
32	**30**		**Zoom**	
		0 - 255	Zoom from max. to min.beam angle (128=default)	proportional
33	*****		**Zoom - fine**	
		0-255	Fine zooming (0=default)	proportional
34	**31**		**Focus**	
		0 - 255	Continuous adjustment from far to near (128=default)	proportional
35	*****		**Focus Fine**	
		0- 255	Fine focusing (0=default)	proportional
36	**32**		**Hot-Spot control**	
		0	Automatic Hot-Spot control (0=default)	step
		1-255	Hot-Spot control (from min. to max. intensity of image centre)	proportional
37	**33**		**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	step
		192 - 223	Random strobe-effect from slow to fast	proportional
		224 - 255	Shutter open, Full lamp power	step
38	**34**		**Dimmer intensity**	
		0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional

Mode/channel		DMX	Function	Type of
1	2	Value		control
39	*****		**Dimmer intensity - fine**	
		0 - 255	Fine dimming (0=default)	proportional
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