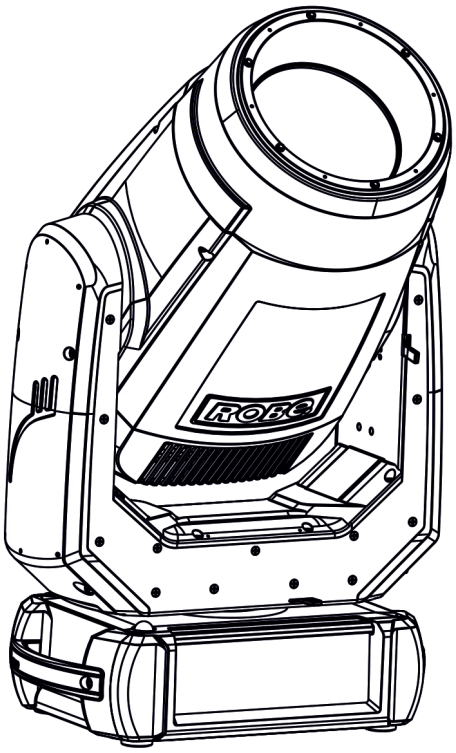
Robin GigaPointe®



ROBE Innovative Technology

QR code for user manual

USER MANUAL

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

Version 2.1 CE

Robin GigaPointe

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

The Robin GigaPointe was designed for outdoor (meets IP 65 protection, suitable for wet locations) use and it is intended for professional application only.
It is not for household use.
Non destiné à un usage domestique.
Convient aux emplacements mouillés

Please note that the rules and regulations stated in this manual may vary depending on the country of use the device . Always refer to local guidelines and legal requirements.

1. Safety information and important operating information

1.1 Important safety information

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.

The operator of the device has to read all safety instructions and warnings stated in the user manual before operating the device.

CAUTION!
Disconnect the device from mains before servicing.
Couper l'alimentation avant L'entretien
With a high voltage you can suffer a dangerous electric shock when touching alive wires and electrical parts under covers!

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

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

The operator of the device has to read all safety instructions and warnings stated in the user manual before operating the device.



CAUTION! Risk group 3, RG-3

Avoid looking directly into the light source.



Warning!
Do not look into the beam
No direct eye exposure to the beam is permitted
RG3

Direct and prolonged exposure to the light beam should be avoided to reduce potential eye discomfort or injury.

Unmodified high intensity static beams into the spectators (or to the spaces where people can appear) are not recommended.

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

The user or service worker must not remove covers of the laser source!
The user or service worker must not do any service works on the laser source except for changing entire laser source if it is defective!
Wear laser safety eyewear when servicing the device.

The device is intended for static installation only. The device must not be placed on the movable platform, movable arm, etc.

1.2 Photobiological safety information

The product includes a light source based on laser diodes and complies with the standards:

EN 60825-1:2014 – Safety of laser product.
- The product includes a light source based on laser diodes. It complies with the requirements of clause 4.4 of the laser safety standard IEC 60825-1:2014 (3rd edition).
- It is a “laser product designed to function as conventional luminaire” as defined in the clause 4.4 itself, so it is classified as CLASS 1 LASER PRODUCT according to IEC 60825-1:2014.

IEC 62471-5:2015 - Photobiological safety of lamps and lamp Systems - Part 5: Image projectors
- Photobiological risk classification is performed according to the standard IEC 62471-5 for conventional luminaires, using 2013 ICNIRP exposure limits, resulting in a Risk Group 3 (RG3).

EN 60598-2-17 Requirements for stage, television, film and photographic studio luminaires.

UL 1573 - Standard for Stage and Studio Luminaires and Connector Strip

The product is in excess of the Exempt Risk Group, the viewer related risk is dependent upon how the user installs and uses the device.

The operator of this device must be qualified to operate laser equipment.

Operator shall control access to the beam within the hazard distance or install the device at the height that will prevent spectators’ eyes from being within the hazard distance.

Laser radiation levels in excess of the limits of Class I shall not be permitted at any point less than 3.0 meters above any surface upon which persons other than operators, performers, or employees are permitted to stand or 2.5 meters below or in lateral separation from any place where such persons are permitted to be. Operators, performers, and employees shall not be required or allowed to view radiation above the limits of Class I or be exposed to radiation above Class IIIa.

Maintenance and service of this device is to be performed under the terms of ANSI Z136.1, “Safe Use of Lasers”, as is required by US state and federal OSHA requirements .
Service is only to be performed by trained and authorized personnel.

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure!

1.3 Hazard distances



WARNING!
Hazard distance*: min. 35 m.

*The Hazard distance for a projector is determined by the exposure limit for a 0,25 s exposure. This also is the time base of the accessible emission limit of RG2 (IEC 62471-5:2015).
The Hazard Distance is the distance measured from the front glass cover of the device head at which the intensity of the energy per surface unit becomes lower than the applicable exposure limit on the cornea or on the skin
To prevent risk of eye or skin exposure no person should enter the area within the Hazard Distance of the device during its operation.

WARNING!
The minimum distance between the front glass cover of the device head and the illuminated surface must be min. 18 m.**

**The minimum distance is the distance between the glass cover of the fixture head and the illuminated surface at which the temperature of the illuminated surface does not exceed 90°C (ČSN EN IEC 60598-1 ed. 7; Luminaires - Part 1: General requirements and tests).

1.4 General safety information

The device becomes very hot during operation. Do not touch the device housing bare hands during its operation. Allow the device to cool approximately 20 minutes prior to manipulate with it.

Maximum ambient temperature: +50°C.
Minimum ambient temperature: -50°C.
Maximum housing temperature: 75°C.

The device must be placed so that any flammable materials are at least 1meter from every point on the surface of the luminaire.

The device housing and front glass cover never must be covered with cloth or other materials during its operation. Do not block fans or fans ventilation slots with any object. Fans and ventilation slots must remain clean.

CAUTION!
Make sure that the device is fixed properly!
Use 2 appropriate clamps to rig the fixture on the truss.
Ensure that the structure (truss) to which you are attaching the fixtures is secure.
Install a safety chain/cord that can hold at least 10 times the weight of the fixture.
ATTENTION !
Utilisez 2 clamps appropriées pour fixer l'appareil sur la structure.
Suivez les instructions mentionnées au bas de la base.
Assurez-vous que l'appareil soit bien fixé!

ATTENTION !
Veiller à ce que la structure (truss)
à laquelle vous fixez le l'appareil est sécurisée.

Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device.
Make sure that the available voltage is not higher than stated on the bottom panel of the device.
This device 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 device from AC power before cleaning, removing or servicing any part of the device.

For replacement of the main fuse use the fuse of the same type and rating only.

Replace with type T fuse rated 6,3A, 250 V.
Replacer par fusible de type T convenat À 6,3A, 250 V

Service of the device has to be performed by trained and authorized personnel only.

The power plug has to be accessible after installing the device. 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 cable. Do not locate this device where the power cable may be damaged by persons walking on it. Make sure that the power cable is never crimped or damaged by sharp edges.
Do not connect this device to a dimmer pack.

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

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

The device has to be securely mounted on the truss to prevent its unintended movement or misalignment.

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 device.

Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation!

Keep away from children and non-professionals

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 !

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

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.

1.5 EMC and electromagnetic compatibility information

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

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

multimedia equipment - Immunity requirements.
The installation company should check levels of possible interferences above levels given by this standard (e.g. transmitters in surrounding area) before installing the equipment.

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

Version with wireless module (/W) contains:
FCC ID: 2A6PL-DMXRDMRW001
IC: 29573-DMXRDMRW001

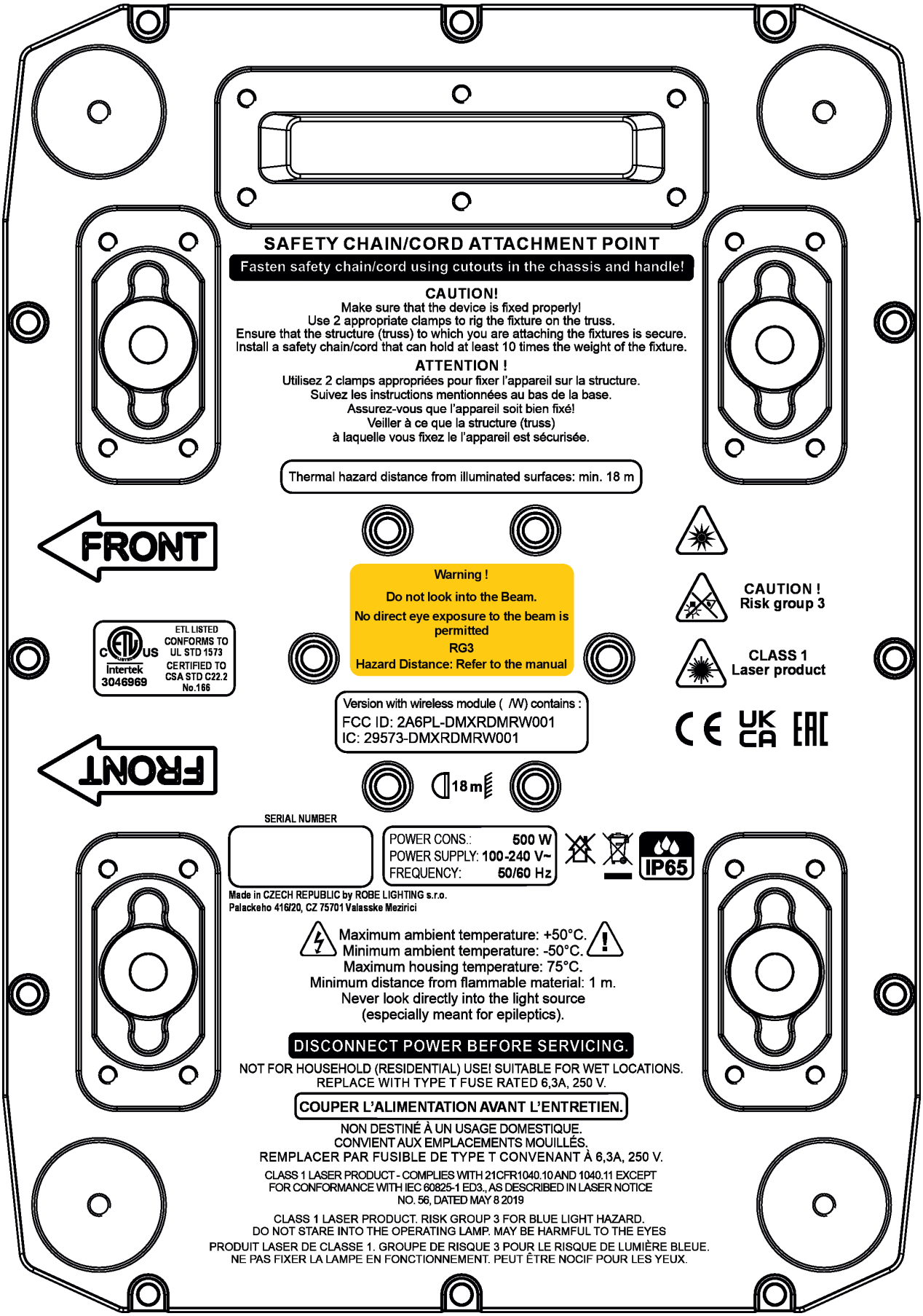
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

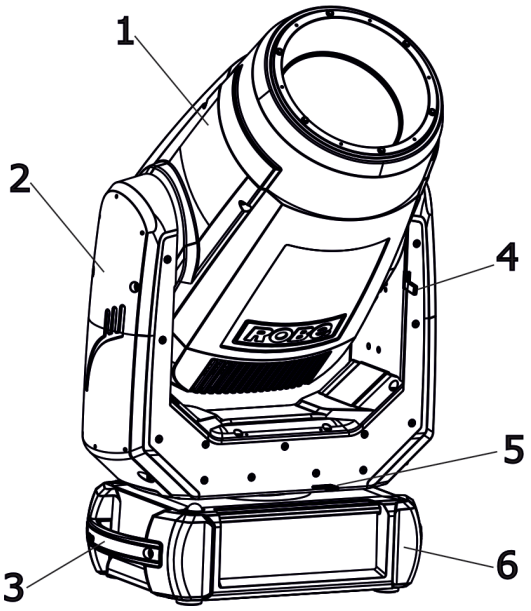
The [Device] wireless operation is safe and complies to RF Exposure requirements
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference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

1.6 Information labels on the bottom side of the device base

Please check and read all information stated on the device base before using the GigaPointe.

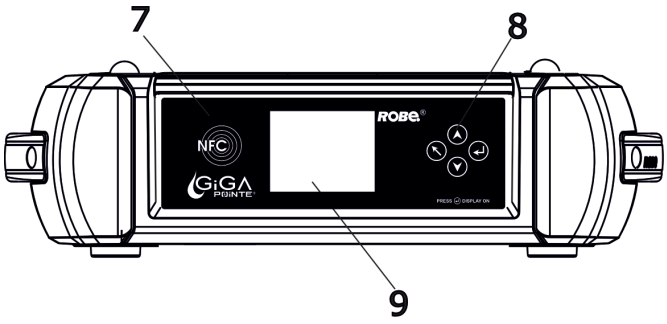


2. Fixture exterior view

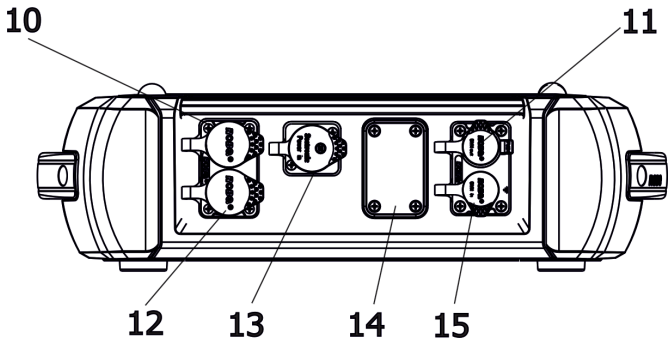


1 - Moving head
2 - Arm
3 - Handle
4 - Tilt lock
5 - Pan lock
6 - Base

The head has to be locked for transportation - the tilt lock latch (4) and the pan lock latch (5) have to be in the locked positions. To unlock the head, move these latches to unlock position before operating the fixture.



Front panel of the base
7 - NFC point
8 - Control buttons
9 - Display



Rear panel of the base
10 - Ethernet Out (RJ45)
11 - DMX Out (5-pin XLR)
12 - Ethernet In (RJ45)
13 - Power
14 - Cover of battery and fuse holders)
15 - DMX In (5-pin XLR)

3. Beam application and Spot application

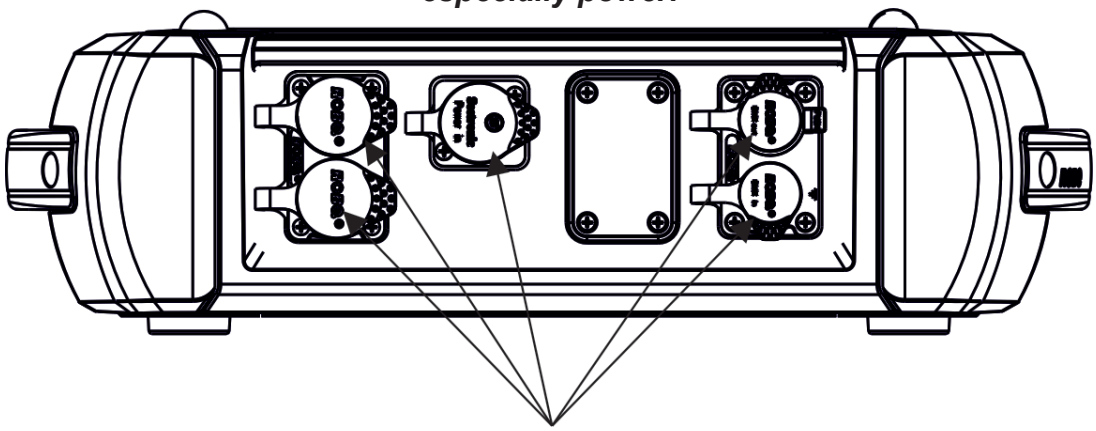
Beam application - it is a hot spot type of light projection and is used when the channel Rotating Gobo wheel is set at 0 DMX. The hot spot can be controlled by the channel Hot-Spot/Flat field control.

Spot application - it is a uniform type of light projection and is used whenever the channel Rotating Gobo wheel is not set at 0 DMX.

4. Installation

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

The Robin GigaPointe´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.

The fixture must not come into contact with sea water (salt water).

4.1 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 equipped with a residual-current device (residual-current circuit breaker)!

Wiring and connection work must be carried out by a qualified electrician.
The Robin GigaPointe is equipped with auto-switching power supply that automatically adjusts to any 50-60Hz AC power source from 100-240 Volts.
Mains cable powerCON TRUE1 In/open ended is enclosed to the fixture. We recommend to install cord end-sleeves 1.5 x 8 (cross section in mm^2 x length in mm) on the cords of the mains cable. If you need to install a power plug on the mains 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. Connection to mains has to keep IP 65 protection rating.

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

POI versions of the fixture (POI=Permanent Outdoor Installation)

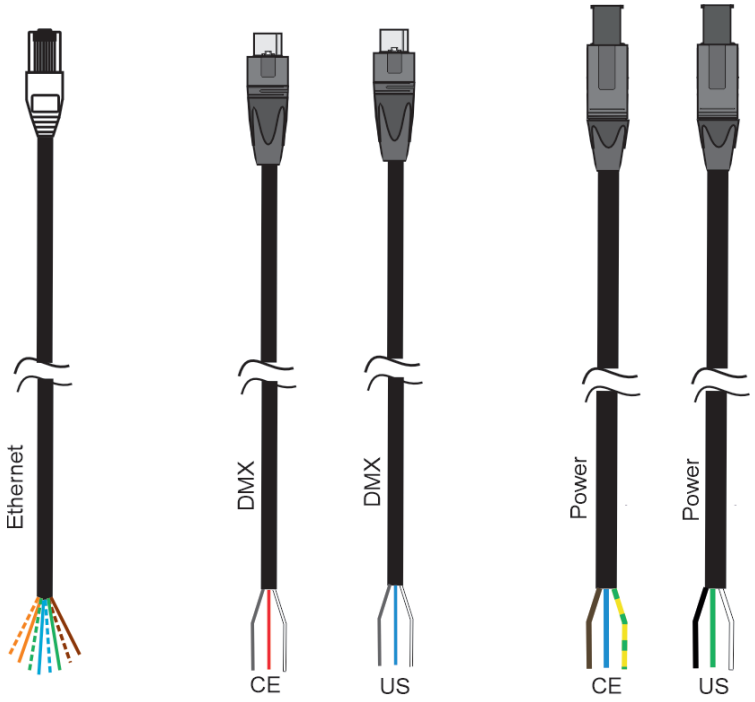
The Robin iEsprite´s panel connectors for POI version are dust and water protected according to IP 67 by mating with related cable connectors. They cannot stay disconnected outdoor.
All unused panel connectors have to be sealed by rubber caps.

Fixture´s cable connectors are dust and water protected according to IP 67 by mating with related cable or panel connectors. They cannot stay disconnected outdoor.
All unused cable connectors have to be sealed by rubber caps.
Cables with bare ends cannot stay disconnected outdoor, especially power cable!

Visually check cable connectors on accidental water leaks before connecting related cable connectors.
If some water will appear in cable connectors or cables, do not connect cable connectors or cables.

Connection to mains should keep IP 67 protection rating.

Connecton of bare-ended cables



Power (CE)

Wire	Function
Brown	Live
Blue	Neutral
Yellow/Green	⏚ (earth)

Power (US)

Wire	Function
Black	Live
White	Neutral
Green	⏚ (earth)

DMX (CE)

Wire	Function
Red	Data +
White	Data -
Shielding	Data ground

DMX (US)

Wire	Function
Blue	Data +
White	Data -
Shielding	Data ground

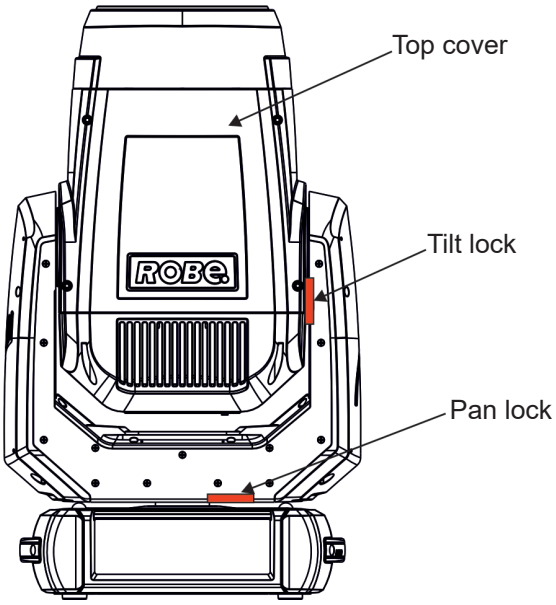
Ethernet

Wire	Function
1-White/orange	TX+
2-Orange	TX-
3-White Green	RX+
6-Green	RX-

4.2 Replacing the frost

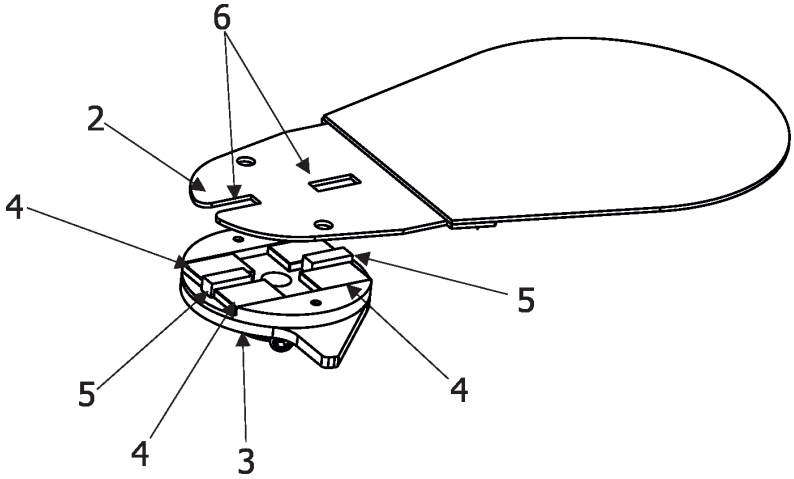
> ***Unplug the fixture from mains before replacing frost!***
> ***Do not replace frost in a damp environment (e.g. rain, snowfall)!***
> ***Do not remove fixture covers in smoky or particularly dirty environment (e.g. with fog machines).***

To replace the frost.
1. Disconnect the fixture from mains and allow it to cool for 30 minutes.
2. Move the fixture head to the position as shown on the picture below to determine which top cover of the head has to be removed. Remove the top cover of the head by unscrewing 6 hex socket head screws M5x16 on the cover to get access to the frost. .



IMPORTANT: The fixture head should be uncovered as short time as possible (about 1-2 hours depending on air humidity) otherwise silica gel in the small boxes in the fixture head may become damp.
If you have removed head cover and you need to interrupt your work for long time (hours, days), we recommend to place the head cover on the head and fasten it provisionally by means of two screws, next possibility is unscrewing small boxes with silica gel from the head and put it to a sealed container with limited access of air (e.g. sealed plastic bag).

3. The holder (2) of the frost foil is fastened to the frost holder (3) by means of the four magnets (4). Grip the holder (2) and carefully tilt it out to break a force of magnets (4) on the frost holder (3).



4. Place a new frost module into the frost holder (3). Check, that both slots (6) snapped correctly into two protrusions (5) in the holder (3).

5. Check silica gel desiccants in the fixture head before placing head cover back on the fixture.

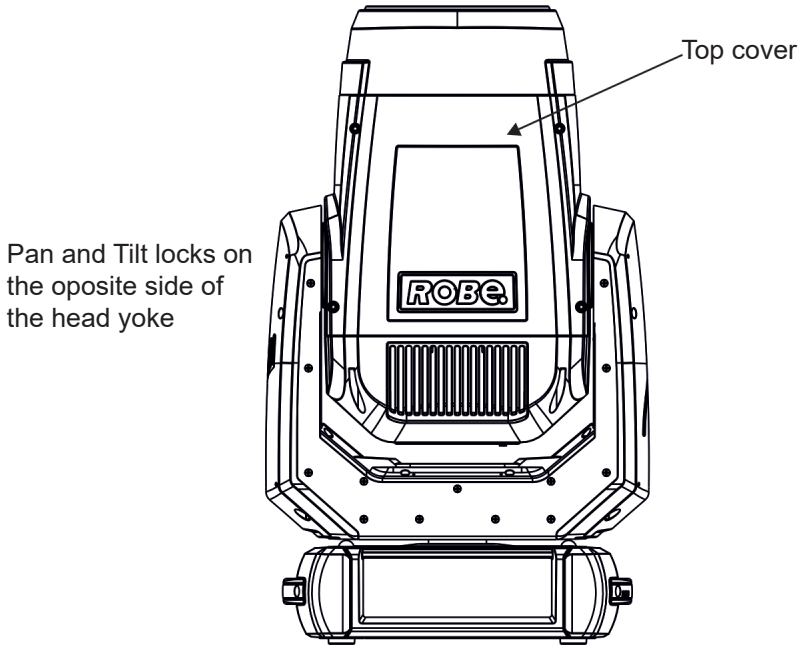
6. Place the head cover back on the fixture and screw it by means of the six hex socket head screws M5x16 before applying power. Keep required tightening torque as stated in the chapter Maintenance.
Do not forget to connect grounding wire between chassis and head cover.

7.**Run the procedure Pressure Test (Service -->Pressure Test).**

4.3 Replacing rotating gobos

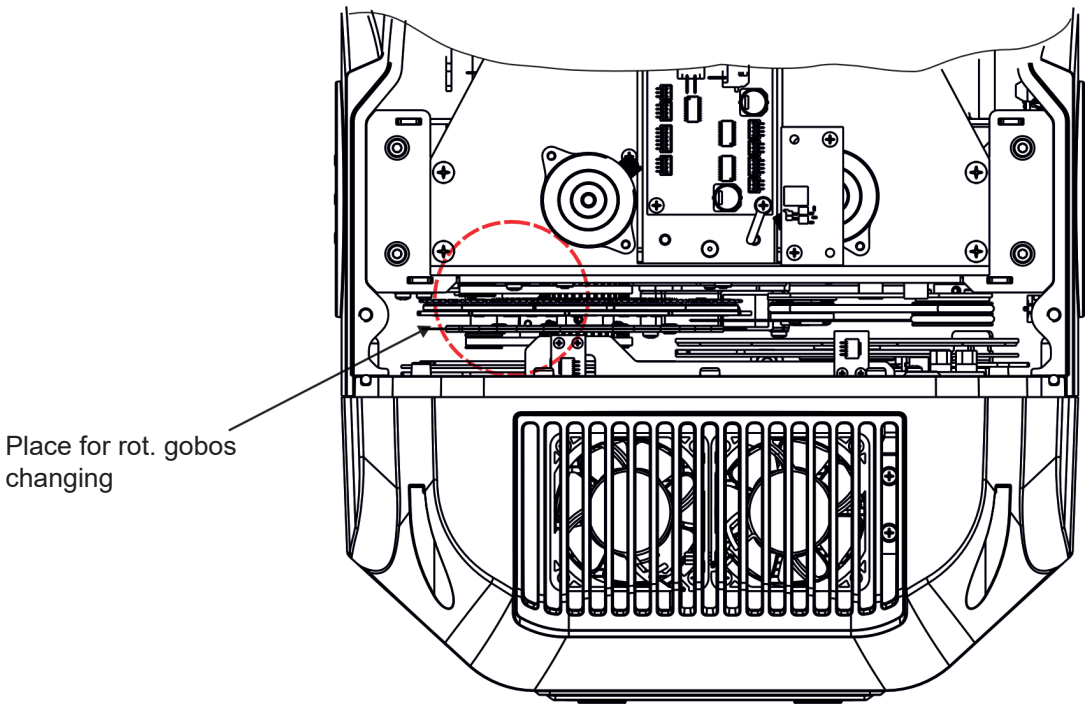
Unplug the fixture from mains before replacing the gobos!
Do not replace gobos in a damp environment (e.g. rain, snowfall)!
Do not remove fixture covers in smoky or particularly dirty environment (e.g. with fog machines)

1. Close a light output of the fixture and allow the fixture to cool about 30 minutes.
2. Move the fixture head to the position as shown on the picture below to determine which top cover of the head has to be removed. Remove the top cover of the head by unscrewing 6 hex socket head screws M5x16 on the cover to get access to the rot. gobos.



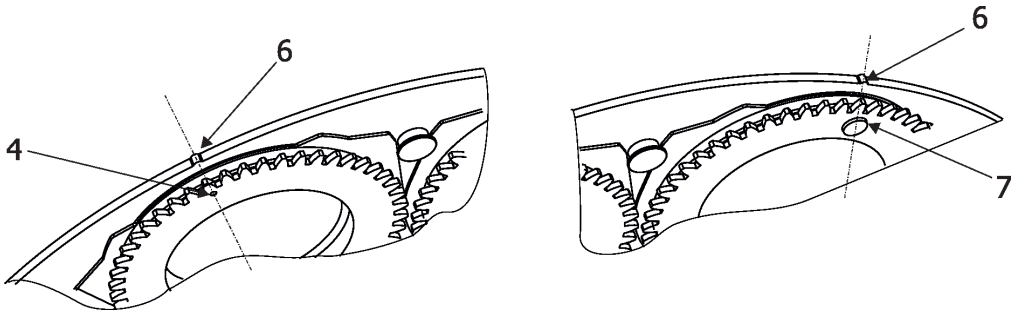
IMPORTANT: The fixture head should be uncovered as short time as possible (about 1-2 hours depending on air humidity) otherwise silica gel in the small boxes in the fixture head may become damp.
If you have removed head cover and you need to interrupt your work for long time (hours, days), we recommend to place the head cover on the head and fasten it provisionally by means of two screws, next possibility is unscrewing small boxes with silica gel from the head and put it to a sealed container with limited access of air (e.g. sealed plastic bag).

3. Connect the fixture to mains. Go to the tab "Service", select the menu "Adjust DMX values " and move the fixture head to the position which is suitable for changing rot. gobos.

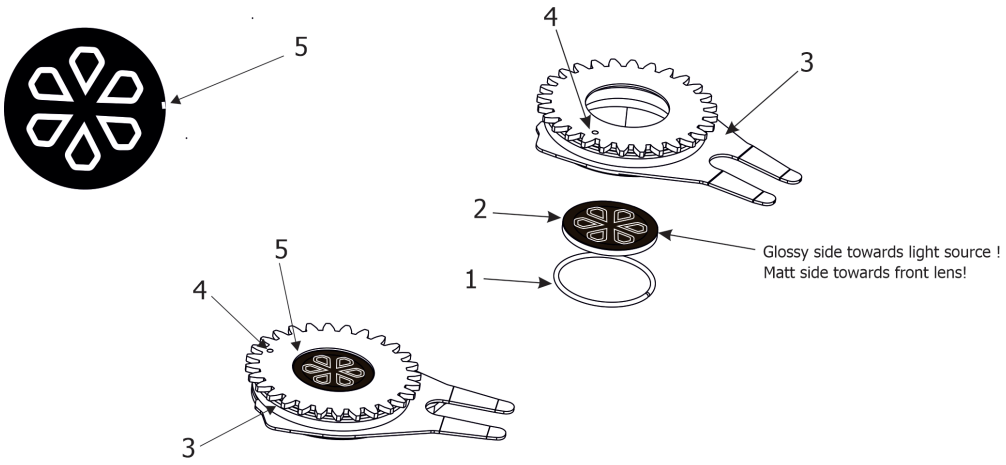


4. Escape from the menu "Adjust DMX values " and go to the menu " Rotating Gobos Change" in the same tab, select Gobo Carousel 1 and enter to its menu.
5. Select a gobo (G1-Mg, G2, G3, G4, G5, G6, G7) which you wish to replace. The selected gobo will move to the accessible position for its changing.
   Note: "G1-Mg" means the gobo holder with a magnet.
6. Check that the position point (4) on the gobo holder aims exactly to the toothlike projection (6) on the edge of the rotating gobo wheel. If not, go to the option "Gobo Offset" and adjust the position point (4) exactly opposite of the toothlike projection(6). Adjusted value in the "Gobo Offset" is valid for all gobos on the gobo carousel.

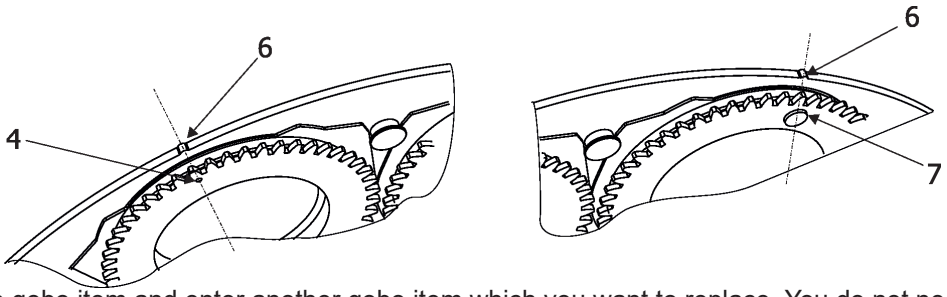
   Note: The magnet (7) on the gobo holder substitutes the position point (4).



7. Gently pull up the gobo holder (3) from the rotation gobo carousel.
8. Remove the spring lock (1) with an appropriate tool (e.g. small-bladed screwdriver).
   Do not touch the surface of the glass gobo with bare fingers.
9. Remove the original gobo (2) and insert the new one (grey side towards the light source, black side towards the front lens).
   The Robe gobo has a small position point (5) at its edge which has to aim at the position point (4) on the gobo holder (3). Insert the spring lock (1) to secure correct gobo position in the gobo holder (3).



10. Insert the gobo holder back into gobo carousel in this way, that its position point (4) (or magnet (7) has to exactly aim at a small toothlike projection (6) on the edge of the rotating gobo wheel. Do not move with neighbouring gobo holders.



11. Escape the gobo item and enter another gobo item which you want to replace. You do not need to set the gobo offset again. Repeat steps 5-10 for all gobos which you need to replace on the gobo carousel. Note. The hot-spot lens with holder (optional accessories) can be installed instead of the rot. gobo 7.

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

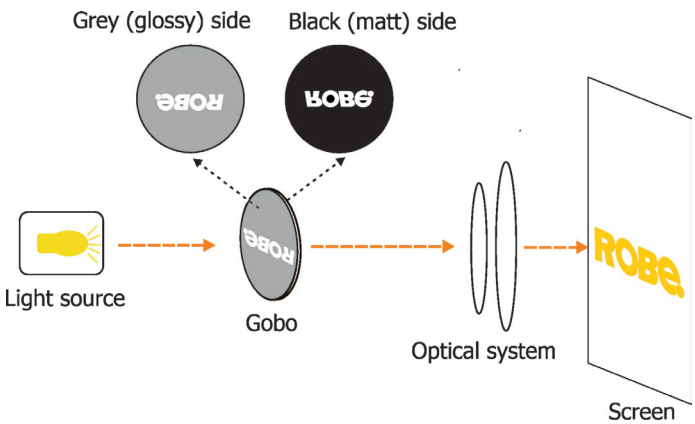
Note: this step you can leave out if you use original gobo holders from the fixture and you sure that new glass gobos are clean.

13. After "gobo burning", check silica gel desiccants in the fixture head before placing head cover back on the fixture.

14. Place the head cover back on the fixture and screw it by means of the six hex socket head screws M5x16. Do not forget to connect grounding wire between chassis and head cover. Keep required tightening torque as stated in the chapter Maintenance.

15. **Run the procedure Pressure Test (tab Service -->Pressure Test)**.

Note: The optical system of the fixture turns the gobo picture upside down and mirrors it:



4.4 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 that can bear at least 10 times the weight of the fixture

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.

The operator has to make sure that safety relating and machine technical installations are approved by an expert before taking into operation for the first time and after changes before taking into operation another time.

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

Allow the fixture to cool for ten minutes before handling.

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

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.

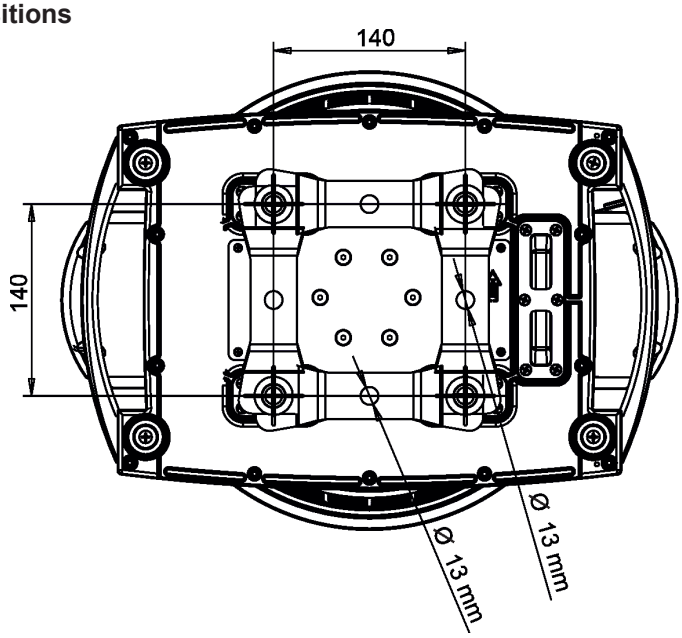
The fixture must never be fixed swinging freely in the room.

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.

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.

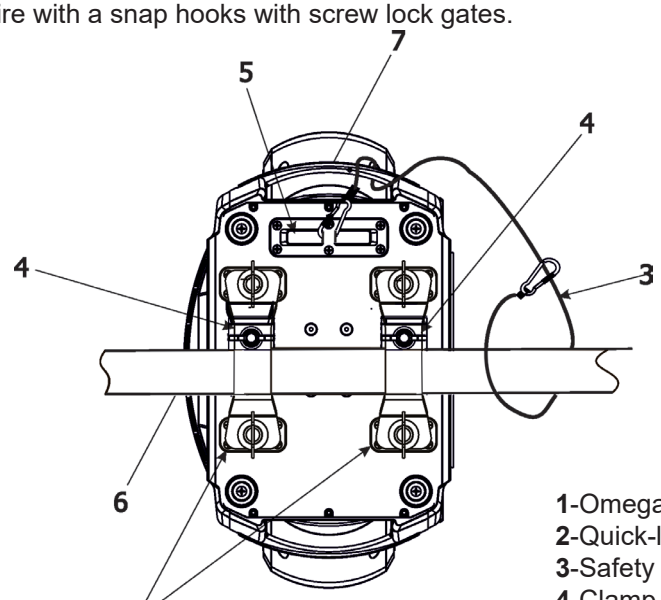
The fixture can be placed directly on the stage floor or rigged on a truss without altering its operation characteristics .
For securing the fixture to the truss, install a safety wire which can hold at least 10 times the weight of the fixture. Use only the safety wire with a snap hook with screw lock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

Omega holders positions

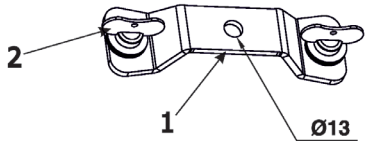


Truss installation

1.Bolt Clamps (4) to the Omega adaptors (1) with M12 bolts and lock nuts through the hole in the Omega adaptors.
2.Fasten the Omega adaptors 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 (7) and the truss (6) as shown 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-Omega adaptor
2-Quick-lock fasteners
3-Safety wire
4-Clamp
5-Attachment point
6-Truss



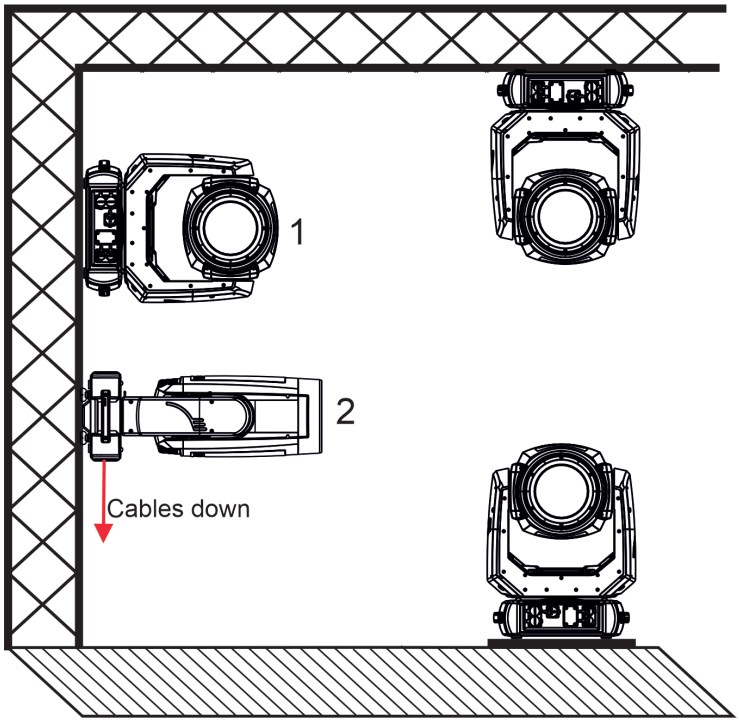
Note:
Surface corrosion of the Omega adaptors may occur, especially if this fixture has been used outdoors. Surface corrosion will not affect the safety of the Omega adaptors. Omega adaptors corrosion is not covered by the warranty.

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

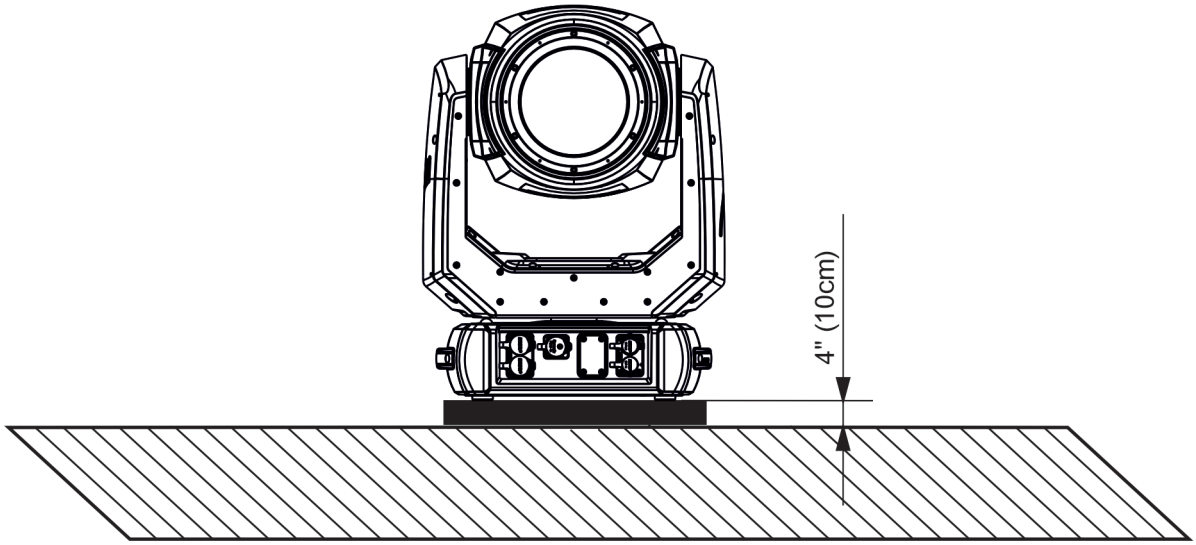
DANGER TO LIFE!
Before taking into operation for the first time,the installation has to be approved by an expert!

Allowed installation positions of the GigaPointe:

Side installation
Both position (1) and (2) are allowed but preferred position is (1).
If it is possible, use the position (1).



Note for open-air installation: if the fixture has to stand on the ground, min. distance of 4" (10cm) between the fixture base and the ground has to be kept.



4.5 DMX-512 connection

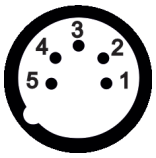
The fixture is equipped with 5-pin XLR sockets for DMX input and output. Use a shielded twisted-pair cable designed for RS-485 and 5-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.

DMX output
XLR socket (female)



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

DMX input
XLR socket (male)



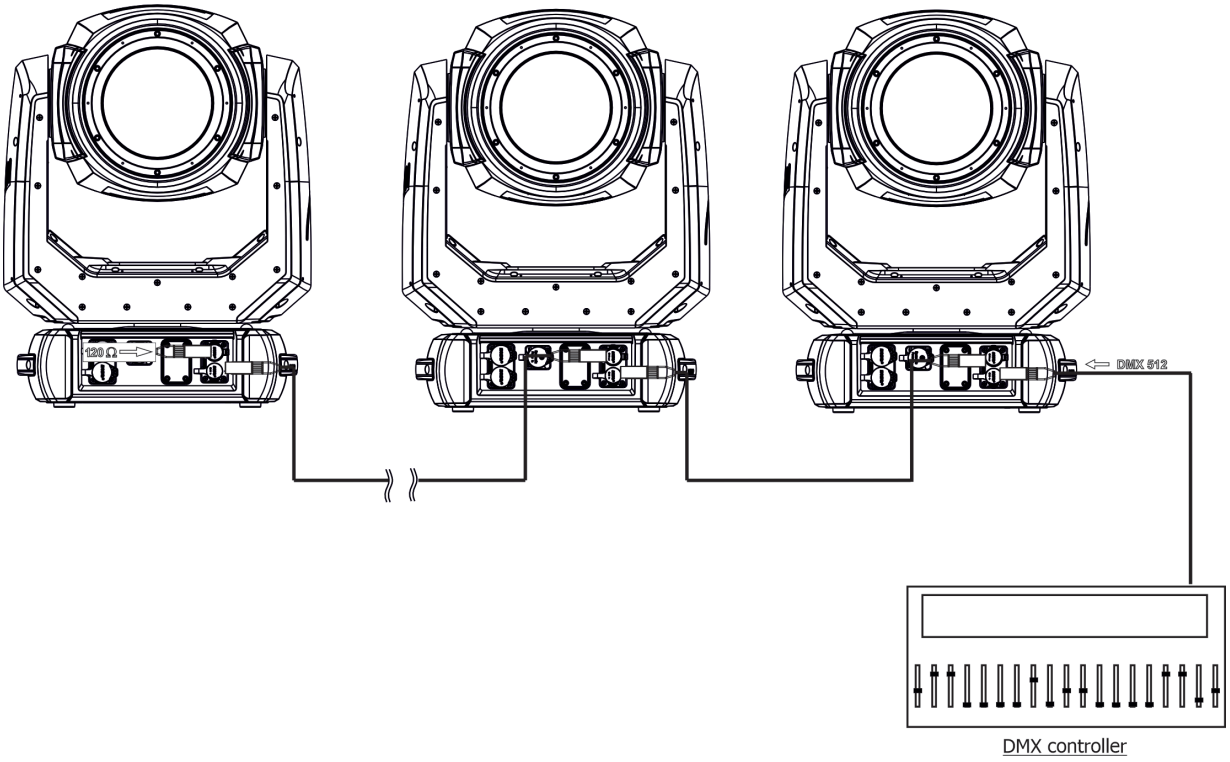
1 - Shield
2 - Signal (-)
3 - Signal (+)
4 - Not connected
5 - Not connected

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

Building a serial DMX chain

Connect the DMX output of the first fixture in the DMX chain with the DMX input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected. Up to 32 fixtures can be conected.

Caution: At the last fixture, the DMX cable has to be terminated with a terminator. Solder a 120 Ω resistor between Signal (–) and Signal (+) into a 5-pin XLR plug and plug it in the DMX output of the last fixture.



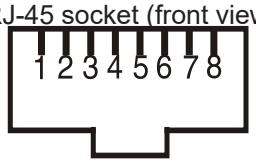
4.6 Ethernet connection

The fixtures on a data link are connected to the Ethernet with appropriate communication protocol (e.g. Art-Net). The control software running on your PC (or light console) has to support Art-Net protocol.
Art-Net 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.

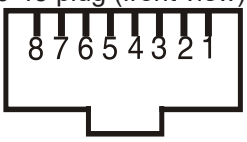
The Robin GigaPointe is equipped with 8-pin RJ- 45 sockets for Ethernet connection. Use a network cable category 5 (with four “twisted” wire pairs) and standard RJ-45 plugs in order to connect the fixture to the network.

RJ-45 socket (front view):



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

RJ-45 plug (front view):



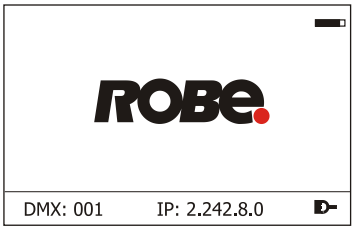
Patch cables that connect fixtures to the hubs or LAN sockets are wired 1:1,that is,pins with the same numbers are connected together:

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

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

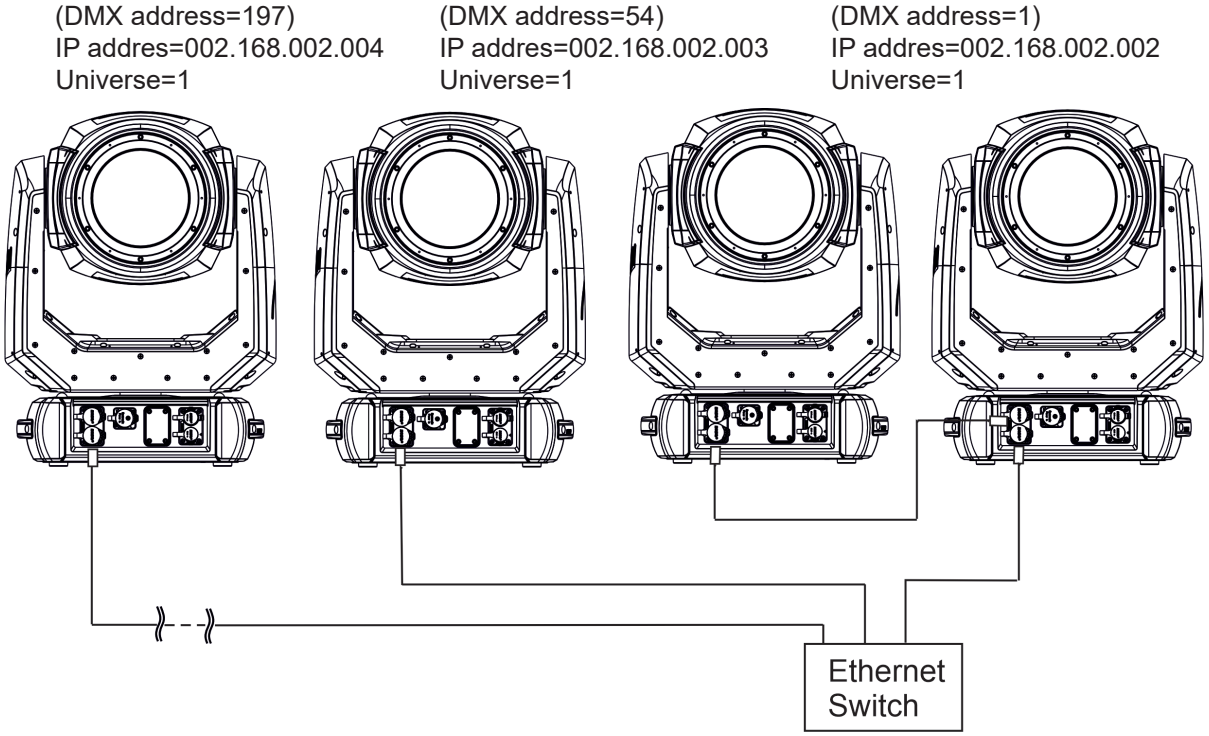
1-3	2-6	3-1	4-8	5-7	6-2	7-5	8-4

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:



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 at each fixture.
Set IP address (002.xxx.xxx.xxx / 010.xxx.xxx.xxx) and the Universe at each fixture.



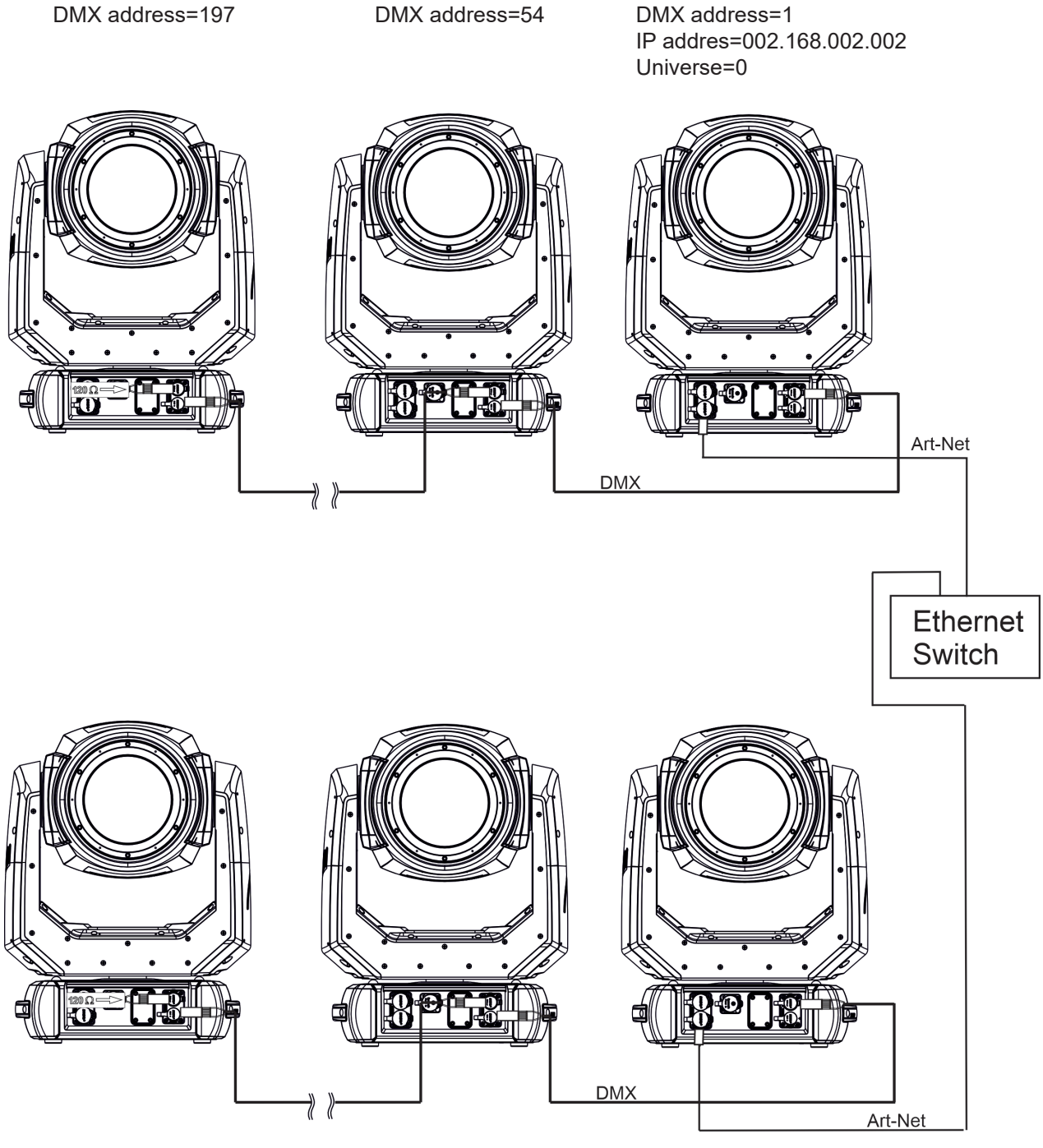
An advised PC setting: IP address: 002.xxx.xxx.xxx (Different from fixture IP addresses)
NET mask: 255.0.0.0

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

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 "Ethernet Mode" menu 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 the DMX output of this fixture with the 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:



4.7 Wireless DMX operation

The ROBE wireless DMX/RDM module has full support for wireless communication protocols at entertainment market. Module is based on well known LumenRadio RF technology, with implemented wire interface for connection with Robe products. RF output for MCX interface antenna as standard output.

The item " Wireless " from the menu "DMX Input" allows you to activate receiving of wireless DMX (Personality--> DMX Input -->Wireless.). First two options from the "DMX Input" menu are stated in DMX chart as well (channel Power/Special functions , range of 10-19 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.

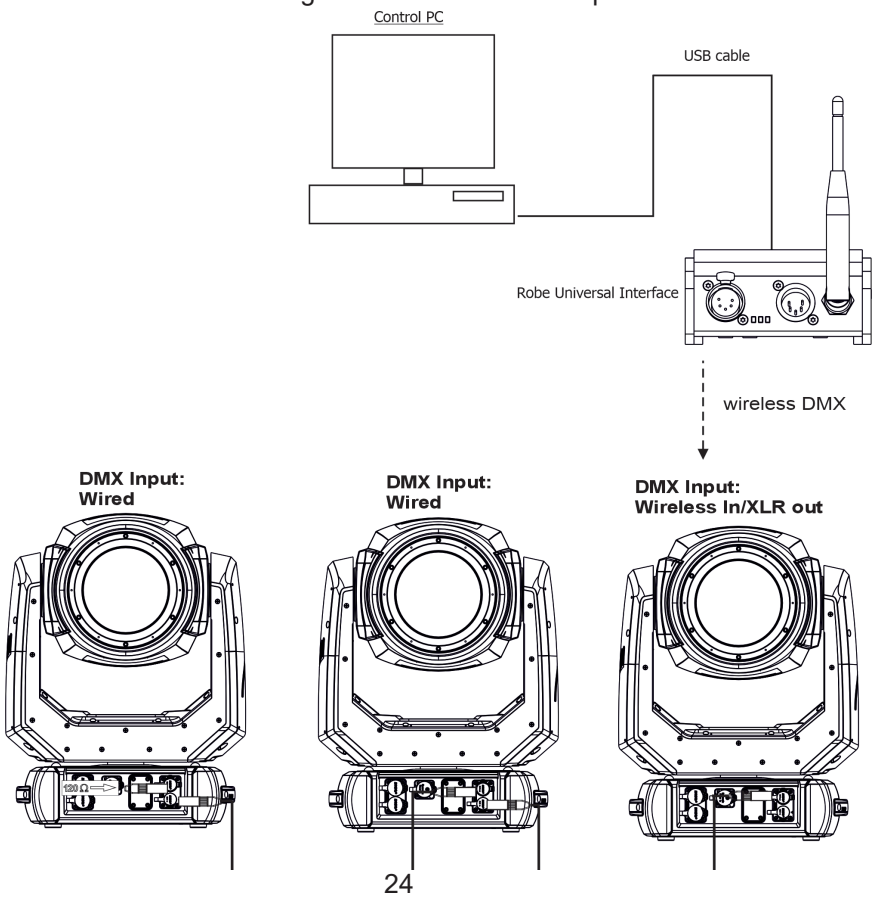
2. For the next 5 seconds the fixture receives wireless DMX signal and again detects if the Power/Special functions channel is set at some DMX input option, if not, the fixture will take option which is set in the fixture menu "DMX Input".

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 transmitter via the menu item “ Unlink Wireless Adapter“ (Information--> Wireless State --> Unlink Wireless Adaptor).

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:



5. Checking the IP65 integrity of the fixture.

The Robin GigaPointe is IP65 rated lighting fixture which has been designed to be protected against the ingress of dust and pressure water jets from any direction.

1. Smart pressure test - for this test serves the function "Pressure Test" in the tab Service. Unique testing procedure allows you easy testing of the IP65 integrity of the fixture. You do not need any external device connected to the fixture for running the test.
The fixture has to be connected to mains (must not be in Standby mode) and a head temperature (at pressure sensor) cannot be higher than 55°C. The pressure test takes about 8 minutes and can be run at earliest 10 minutes after closing light output of the fixture. The pressure test can be repeated at earliest 2 minutes after last pressure test.

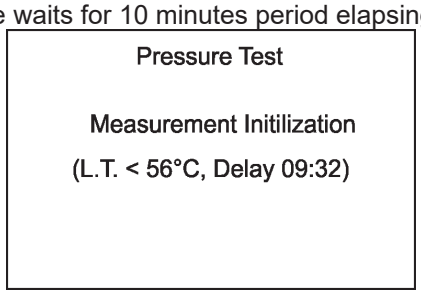
The function "Pressure Test" should be run after the following actions:

- **unscrewing/screwing back any watertight cover** (e.g. due to gobos or frosts change)
- **replacing pan or tilt motor**
- **replacing light source**
- **replacing desiccants in the fixture arm (two tubes with silica gel).**

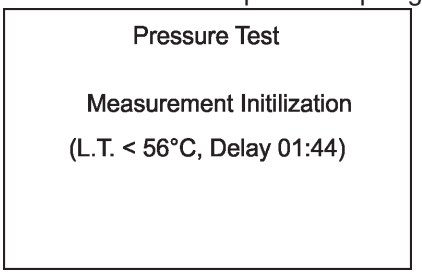
The pressure test can be also run by DMX command (channel Power/Special function, DMX values 116-117) or from web interface REAP (Robe Ethernet Access Portal). During the pressure test fixture does not respond to DMX commands (except DMX values 118-119 on the channel Power/Special functions).

Examples of screens (front panel display) of the smart pressure test:

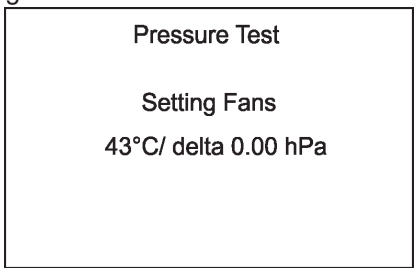
Fixture waits for 10 minutes period elapsing (inside of the fixture is too hot)



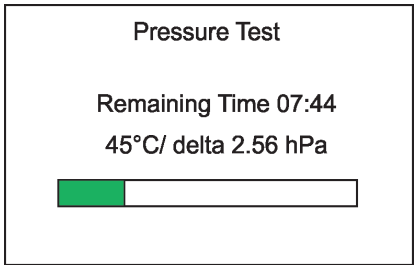
Fixture waits for 2 minutes period elapsing (repeated pressure test was run too early)



Setting fans



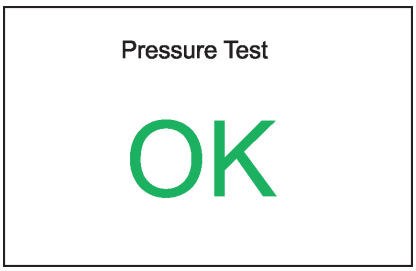
Test in progress



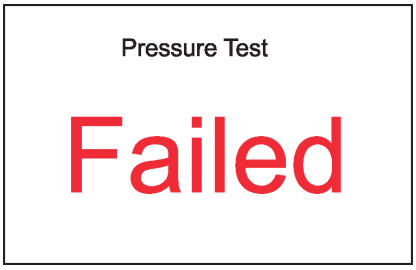
Legend:

07:44 .....Remaining Time (minutes) to finish of pressure test.
45°C.....Temperature at pressure sensor.
delta 2.56 hPa...Pressure difference.
The pressure difference has to be >7 hPa for successful test.

Test passed

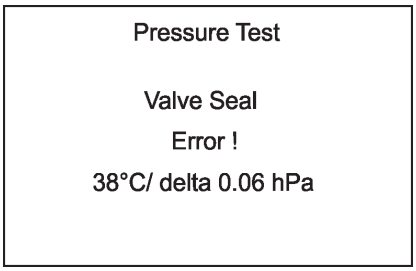


Test failed



If the first pressure test failed an the second is OK, the fixture complies with IP65 integrity.
If the pressure test twice fails despite checking of correct tightening of the cover screws and gaskets under covers, the fixture has to be tested by means of "Enhanced pressure test**".** For this type of pressure test is needed the Pressure IP Testing Set ROBE (P/N 10980659). Please ask your ROBE distributor for help.

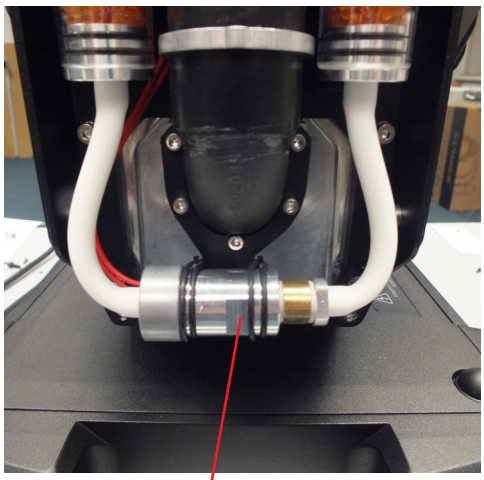
The message "Valve Seal Error" means that valve or coil in the valve is defective or there is a connection problem.



Check the connection between the valve and head, especially cable connector. Other reason can be faulty coil in the valve or faulty valve.

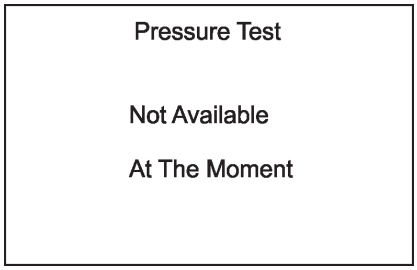


Cable connector
(arm without tilt lock)



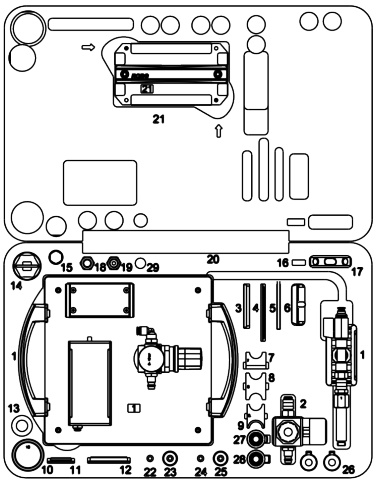
Valve
(arm without tilt lock)

The message "Not Available At The Moment" means that the fixture is not connected to mains.



2. Enhanced pressure test - a special equipment Pressure IP Testing Set ROBE (P/N 10980659) is intended for this kind of pressure test. Only trained technician should handle the equipment.

Pressure IP Testing Set ROBE in case:



If this equipment is used for pressure test of the fixture, the following values of pressure have to be kept:

Underpressure test.
300 mbar for 1 minute, pressure fall can be to 10 mbar maximally.

Overpressure test
150 mbar maximally!

6. Operating the fixture at ambient temperatures below 0°C

Design of the GigaPointe allows its operation at ambient temperature up to -50°C, but you have to take some specific into account before operating the fixture.

1.Fixture is not in Standby mode.

GigaPointe - ambient temperatures from 0°C to -10°C.
The fixture can be switched off but after powered it on, fixture reset can be delayed in range of 0 - 30 minutes depending on ambient temperature (max. delay is at low ambient temperature).This delay is caused by heating fixture effects on operating temperature. The fixture does not respond to DMX during heating the fixture on operating temperature.
We recommend to switch the fixture on at least 30 minutes before show.

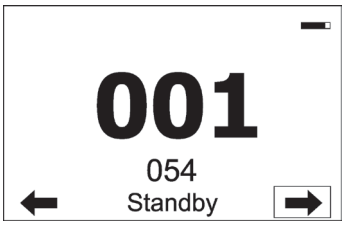
GigaPointe - ambient temperatures from -11°C to -50°C.
The fixture should be permanently powered on in order to keep operating temperature of fixture´s effects.
If the fixture is switched off, reset of the fixture will last long time (up to 1 hour depending on ambient temperature) until fixture effects reach their operating temperature.

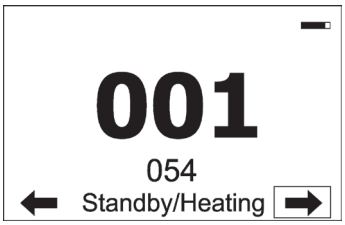
2.Fixture is in Standby mode.
If the fixture is switched to Standby mode (fixture has to be connected to mains), the fixture keeps internal temperature on a level suitable for operation of fixture´s effects without delay, heating up of the fixture inside is done automatically.

6. Standby mode

The fixture can be switched to Standby mode by means of web interface REAP or DMX command (channel Power/Special functions, DMX value 112-113).
Standby mode can be cancelled by means of web interface REAP, DMX command (channel Power/Special functions, DMX value 114-115) or by switching the fixture off and on.

Standby mode helps conserve power when a fixture is not in use, without fully powering it off. The max. power consumption of the fixture in Standby mode does not exceed 20 W (if the fixture is heated, power consumption is higher). Standby mode is indicated by a notice on the fixture display.





In the Standby mode, the fixture display is functional and can be used for setting of the fixture, but all motors and fans are deactivated, light output is closed.
As the fixture motors are deactivated, the fixture does not respond to DMX values controlling effects but the channel Power /Special functions can be used for fixture settings.
The fixture in Standby mode provides information for RDM and REAP and also can be set its behaviour by means of the RDM and REAP.

Main benefits of Standby mode:
- there is not time delay of fixture reset at ambient temperatures below 0°C.
- By means of REAP user has current information about fixture (settings, temperatures, state of desiccants in the fixture arm).

7. Safe distance control

The default safe distance (Hazard distance) of the fixture is set to 35 m. If you need to set a shorter safe distance, use the channel 43 (Safe distance control) in DMX mode 3. The light intensity for selected Safe distance value value is applied immediately.

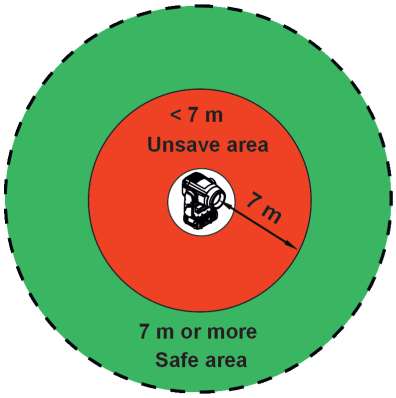
Note: with decreasing safe distance, the light output from the fixture is reduced.

Safe distance control - channel 43

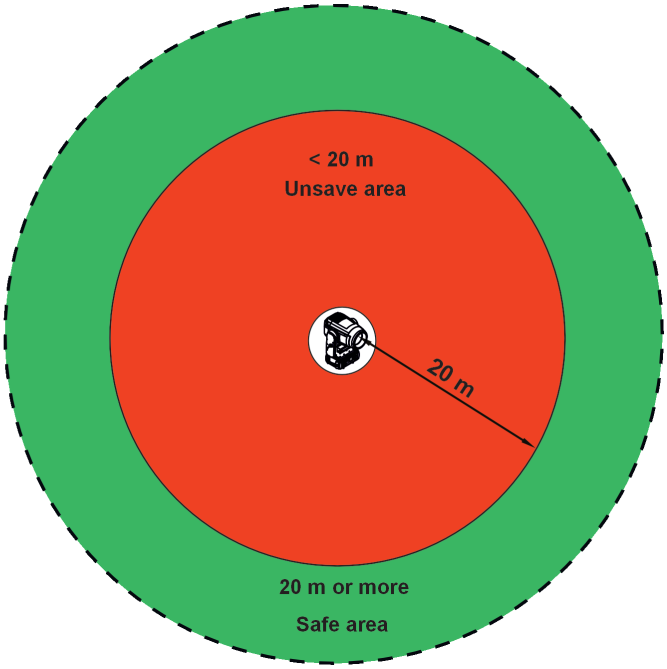
DMX value	Function
0-15	Safe distance 5 m (minimum light intensity)
16-23	Safe distance 6 m
24-31	Safe distance 7 m
:	:
232-239	Safe distance 33 m
240-247	Safe distance 34 m
248-255	Safe distance 35 m - Maximum light intensity (**default setting)**

Example:

24-31 DMX **Stage mode safe distance 7 m**



128-135 DMX **Stage mode safe distance 20 m**



The selected safe distance value is not saved to the fixture when it is turned off..

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8. Pan/Tilt safe zone definition

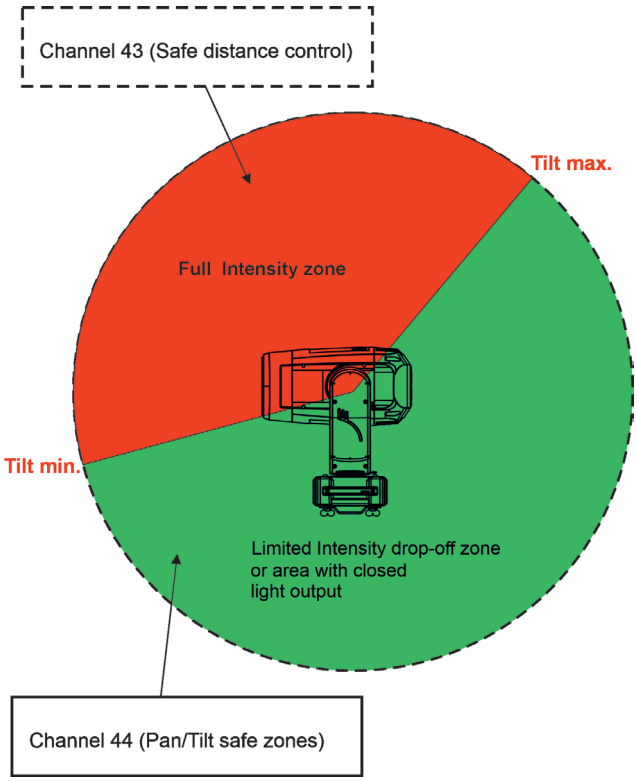
Special functions on the channel 44 (Pan/Tilt safe zones) in DMX mode 3 allows you to define pan zone and tilt zone intended for full light output from the fixture.

Tilt safe zone definition

1. Use the Tilt/Tilt fine channels and move the head to the "Tilt min." position.
2. Channel 44 - go on the command "Tilt min." (3-4 DMX) and stay on it for three seconds.
   Saving the "Tilt min." value is indicated by flashing of the fixture for three seconds (4 flashes per second for a period of three seconds)
3. Use the Tilt/Tilt fine channels and move the head to the "Tilt max." position.
4. Channel 44 - go on the command "Tilt max." (5-6 DMX) and stay on it for three seconds.
   Saving the "Tilt max. " value is indicated by flashing of the fixture for three seconds (4 flashes per second for a period of three seconds).
   Note:DMX values saved in the items "Tilt min". and "Tilt max". may be interchanged, e.g. behaviour of the fixture with Tilt min.=45 and Tilt max.=145 will be the same as behaviour of the fixture with Tilt min.=145 and Tilt max.=45.
5. Channel 44 - set behaviour of the fixture outside of the defined Tilt zone . You can select from two options:
   - close light output from the fixture - option "Limited intensity drop-off zone Cut-off ".(this option is set as default)
   - select desired drop of light intensity - option "Limited intensity drop-off zone X m".

Pan/Tilt safe zones - channel 44

DMX value	Function
0-2	No function
3-4	Tilt min. (full intensity zone definition)
5-6	Tilt max. (full intensity zone definition)
7-8	Pan min. (full intensity zone definition)
9-10	Pan max. (full intensity zone definition)
11-12	Limited intensity drop-off zone Cut-off (fixture default)
13-14	Limited intensity drop-off zone 5 m
15-16	Limited intensity drop-off zone 6 m
17-18	Limited intensity drop-off zone 7 m
:	:
69-70	Limited intensity drop-off zone 33m
71-72	Limited intensity drop-off zone 34 m
73-74	Limited intensity drop-off zone 35 m
75-76	**Reset to default (P/T intensity zone)**



Important. If you need to cancel or re-define the Tilt safe zone, you have to reset Tilt safe zone (option "**Reset to default (P/T intensity zone"**) and repeat steps 1-5 if you wish to define the new Tilt zone.
Using the command "**Reset to default (P/T intensity zone)**" is indicated by flashing of the fixture for three seconds (4 flashes per second for a period of three seconds).

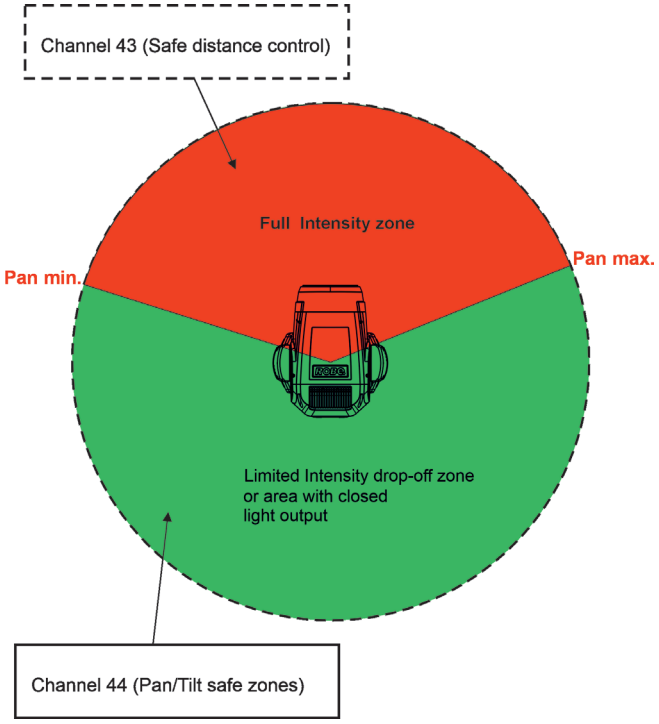
Note: The maximum light intensity in the Full Intensity Zone is determined by the channel **43 (Safe distance control)**..

Pan safe zone definition

1. Use the Pan/Pan fine channels and move the head to the "Pan min." position.
2. Channel 44 - go on the command "Tilt min." (7-8 DMX) and stay on it for three seconds.
   Saving the "Pan min." value is indicated by flashing of the fixture for three seconds (4 flashes per second for a period of three seconds)
3. Use the Pan/Pan fine channels and move the head to the "Pan max." position.
4. Channel 44 - go on the command "Pan max." (9-10 DMX) and stay on it for three seconds.
   Saving of the "Pan max. " value is indicated by flashing of the fixture for three seconds (4 flashes per second for a period of three seconds).
   Note:DMX values saved in the items "Pan min". and "Pan max". may be interchanged, e.g. behaviour of the fixture with Pan min.=150/Pan max.=230 will be the same as behaviour of the fixture with Pan min.=230/Pan max.=150.
5. Channel 44 - set behaviour of the fixture outside of the defined Pan zone . You can select from two options:
   - close light output from the fixture - option "Limited intensity drop-off zone Cut-off ".(this option is set as default)
   - select desired drop of light intensity - option "Limited intensity drop-off zone X m".

Pan/Tilt safe zones - channel 44

DMX value	Function
0-2	No function
3-4	Tilt min. (full intensity zone definition)
5-6	Tilt max. (full intensity zone definition)
7-8	Pan min. (full intensity zone definition)
9-10	Pan max. (full intensity zone definition)
11-12	Limited intensity drop-off zone Cut-off (fixture default)
13-14	Limited intensity drop-off zone 5 m
15-16	Limited intensity drop-off zone 6 m
17-18	Limited intensity drop-off zone 7 m
:	:
69-70	Limited intensity drop-off zone 33m
71-72	Limited intensity drop-off zone 34 m
73-74	Limited intensity drop-off zone 35 m
75-76	**Reset to default (P/T intensity zone)**



Important. If you need to cancel or re-define Pan zone, you have to reset Pan save zone (option "**Reset to default (P/T intensity zone"**) and repeat steps 1-5 if you want to define the new Pan zone.
Activation of the item "**Reset to default (P/T intensity zone)**"is indicated by flashing of the fixture for three seconds (4 flashes per second for a period of three seconds).

Note: The maximum light intensity in the Full Intensity Zone is determined by the channel **43 (Safe distance control).**

It is possible to set limitation only for pan or only for tilt, there is no requirement that both pan and tilt must be limited.
Example: Tilt zone is defined, pan is without definition. Light output in the tilt movement is limited but in the pan movement is without limitation.

The item on the channel 44 " **Reset to default (P/T intensity zone)**" resets both single zone definition (pan or tilt) and compound zone definition (pan and tilt together).

9. Remotely controllable functions

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).

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

Effect wheel
The wheel rotates in both directions with variable speed which creates wide spectrum of graphic effects.

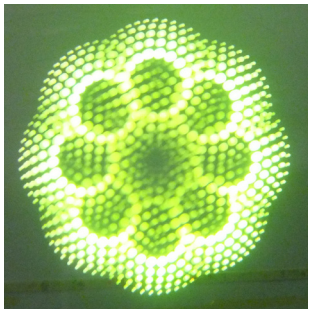
Gobo wheels
The fixture includes static gobo wheel with 10 gobos and 3 beam reducers and rotating gobo wheel with 9 glass gobos rotating in both directions, indexable, replaceable "SLOT&LOCK” system.

Prisms
The fixture includes two prism wheels with 3 rotating prisms on each prism wheel.
Prism wheel 1: 6-facet linear prism, cylindrical prism, 8-facet 12° circular.
Prism wheel 2: 6-facet linear multicoloured, 32-facet circular, 8-facet 18° circular.

Note prism wheel 1 cannot be inserted to the light beam is the rotating gobo is already irted there.

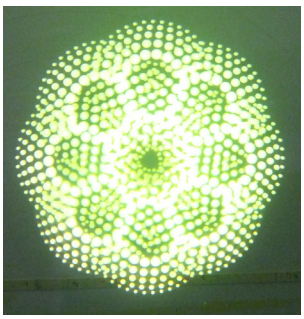
Glint effect
Prisms on the prism wheel 2 with combination of rotating gobos offers two unique projection, spacial or center.
Example for 8-facet 18°circular prism:

8-facet 18°circular prism.
Spacial projection.



12-13 DMX	Prism 3 - 8-facet 18°circual-spacial
14-15 DMX	Prism 3 - 8-facet 18°circual-center

8-facet 18°circular prism.
Center projection.



Pan/Tilt
Fast pan/tilt movement due to built-in electronic motion stabilizer (EMS). The electronic motion stabilizer ensures precise position of the fixture´s head during its movement and reduces its swinging when the truss shakes.
Motionless absolute positioning system for pan and tilt (MAPS).
Pan /Tilt movement range: 0-540°/0-265°. Switchable speed between Max. speed and MegaPointe compatible.

Frost
Two frost filters (light 1°and medium 5°) provide variable frost for fine frosting. Both frosts are replaceable.

Zoom
Motorized zoom unit enables zoom in range 1.8 °- 48° .

Focus
Motorized focus allows to focus beam from approx. 5 meters to infinity.

10. Control menu map

Default settings=Bold print

Tab	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
Addressing	Settings	DMX Address	001-512			
	DMX Presets	Mode 1				
		Mode 2				
		Mode 3				
	Ethernet Settings	Ethernet Mode	Disable			
			ArtNet			
			gMAI			
			gMA2			
			sACN			
		Ethernet To DMX	**Off**, On			
		IP Address/Net Mask	Default IP Address			
			Custom IP Address			
			Net Mask			
		ArtNet Universe	0-255			
		MANet settings	MANetI/II Universe	01-256		
			MANet Session ID	01-32		
		sACN Settings	sACN Universe	00001-32000		
Information	Fixture Times	Power On Time	Total Hours			
			Resetable Hours			
	Fixture Temperatures	Base Temp.	Cur.rent			
			Maximum NonRes..			
			Maximum Res..			
		Head Temp.	Cur.rent			
			Maximum NonRes..			
			Maximum Res..			
		Laser Diode Temp.	Current			
			Maximum NonRes.			
			Maximum Res.			
		Phosphor Wheel Temp	Current			
			Maximum NonRes.			
			Maximum Res.			
	RAINS Status					
	Sensor s Info					
	DMX Values	Pan				
		:				
		Dimmer Fine				
	Wireless State	Signal Quality				
		Unlink Wireless Adapter				
	Power Channel state					
	Software Versions	Display System				
		Module M				
		Module H				
		Module P2				
		Module GR				
		Module DR				
		Module C1				
		Module G				
		Module P1				
		Module DL				

Tab	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
	SW HW Versions	Display System				
		Module M				
		Module H				
		Module P2				
		Module GR				
		Module DR				
		Module C1				
		Module G				
		Module P1				
		Module DL				
	Product IDs	Mac Address				
		RDM UID				
		RDM Label				
	View Logs	Fixture Errors				
		Fixture States	Effect Statuses			
			Power On			
			Power Off			
		Fixture Position				
		Fixture Temperatures	Base Temperature			
			head Temperature			
			Base Temperatures			
			Laser Diode temp.			
			Phosphor Wheel Temp			
		Sensor Logs				
		Pressure Test Log				
		System Logs				
Personality	DMX Presets	Mode 1				
		Mode 2				
		View Selected Preset				
	DMX Input	**Wired**				
		Wireless				
		Wireless In/XLR Out				
	Pan/Tilt Settings	Pan Reverse	**Off**, On			
		Tilt Reverse	**Off**, On			
		Pan/Tilt Feedback	Off, **On**			
		Pan/Tilt mode	Time			
			Speed			
	Pan/Tilt Speed	**Maximum**				
		MegaPointe comp**.**				
	Pan/Tilt EMS	Off**, On**				
	Blackout Settings	Blackout During M.C.	**Off**, On			
		Blackout while:	Pan/Tilt moving	**Off**, On		
			Colour Wheel Moving	**Off**, On		
			Gobo Wheel Moving	**Off**, On		
			Prism Wheel Moving	**Off**, On		
	Frequency Setup	**600 Hz**				
		2400Hz				
		High				
	Close Proximity Mode	**Off**, On				
	Dimmer Curve	Linear				
		Square law				
	Gobo Indexing	**Max. Speed &ShortCut**				

Tab	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
		Follow Speed & Direction				
		Max. Speed &Follow Dir.				
	AutoParking Pos.	Off				
		On				
	Init Effect Positions	Pan	0-255			
		:				
		Dimmer Fine	0-255			
	Reset Init Effect Positions					
	Screen Settings	Display Intensity	1-**10**			
		Screen Saver Delay	**Off**-10min.			
		Display Orientation	Normal			
			Inverted			
			Auto			
	Temperature Unit	**°C**,°F				
	Fan Settings	Fan mode	**Auto**			
			High			
			Quiet			
		Quiet-Blackout Fan Off	**Off**, On			
	Date & Time Settings					
	Focus Tracking	**Off,** On				
	Default	Load Default				
		Load Custom				
		Save Custom				
	P/T Save Zone Reset					
	Memory Tools	SD card	SD State			
			Mount SD			
			Unmount SD			
			Format SD			
	Password Protection	**Off,** On				
	Reset Web Password					
Manual Control	Reset Functions	Total Fixture Reset				
		Pan/Tilt reset				
		Color Reset				
		Gobo Reset				
		Pan Reset				
		Tilt Reset				
		Zoom/Foc/Pri/Fro. Reset				
		Total System Reset				
	Manual Effect Control	Pan	0-255			
		:				
		Dimmer Fine	0-255			
Stand -Alone	Test Sequences	Dynamic Mode				
		Static Mode	Pan	0-255		
			Tilt	0-255		
			Zoom	0-255		
			Focus	0-255		
	Preset Playback	**None**				
		Test				
		Program				
	Play Program					
	Edit Program	Start Step	1-80			
		End Step	1-80			
		Edit Program Steps	Step 1	Pan	0-255	
			:	:		

Tab	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			:	Dimmer Fine	0-255	
			:	Step Time	0-25,5 sec.	
			Step 80	Pan	0-255	
				:		
				Dimmer Fine	0-255	
				Step Time	0-25,5 sec.	
Service	Pressure Test					
	Adjust DMX Values	Pan	0-255			
		:				
		Dimmer Fine	0-255			
	Calibrations	Calibrate Effects	Pan	0-255		
			Tilt	0-255		
			Static Gobo	0-255		
			Rot. Gobo Wheel	0-255		
			R. Gobo Index 1	0-255		
			:	:		
			R. Gobo Index 9	0-255		
			Prism 1	0-255		
			Prism 1 Rot.1	0-255		
			Prism 1 Rot.2	0-255		
			Prism 1 Rot.3	0-255		
			Prism 2	0-255		
			Prism 2 Rot.1	0-255		
			Prism 2 Rot.2	0-255		
			Prism 2 Rot.3	0-255		
			Zoom	0-255		
			Focus 1	0-255		
			Focus 2	0-255		
			Frost 1 A	0-255		
			Frost 1 B	0-255		
			Frost 2 A	0-255		
			Frost 2 B	0-255		
			Frost shadow	0-255		
			Colour Wheel	0-255		
			Cyan	0-255		
			Magenta	0-255		
			Yellow	0-255		
			Effect Wheel	0-255		
			Aspherical Lens	0-255		
		Calibrate Pan/Tilt EMS				
		Calibrate Pan/Tilt Reset				
		Load Default Calibrations				
	Rotating Gobos Change	Gobo Carousel 1	G1			
			G2			
			:			
			G9-Mg			
			Gobo Offset	0-255		
	Update Software					

11. Control menu

The Robin GigaPointeis 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).

Display and control buttons on the front panel



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).

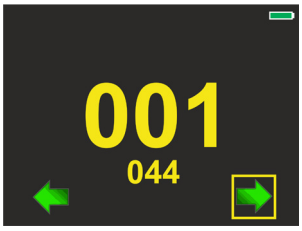
Icons used in the screen menu:

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

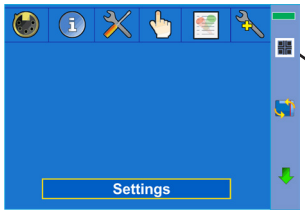
The menu page displays icons for each function that you can perform from the screen.
After switching the fixture on, the screen shows the screen with the ROBE logo.



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

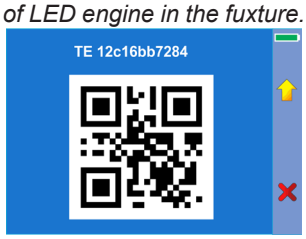


Icon for QR codes
Use [NEXT] , [PREV] buttons for moving between QR codes

QR code for RDM UID of the fixture.



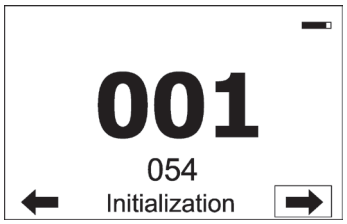
QR code for serial number of LED engine in the fuxture.



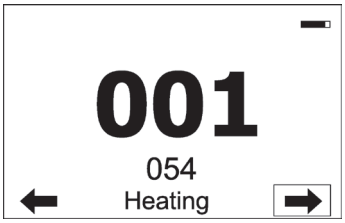
(pictures for ilustration only)

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

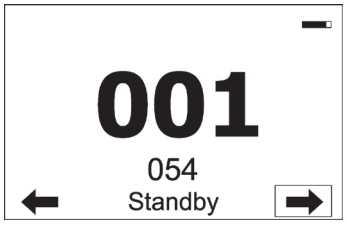
As the fixture can be operated at wide range of ambient temperatures, suitable environment has to be maintained in inside of the fixture. The following messages under DMX address inform you about fixture status.



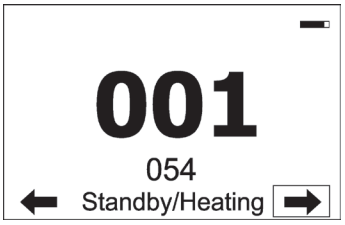
The fixture is waiting for finishing all reset procedures.
Fixture does not respond to DMX.



The fixture is waiting for reaching operating temperature of the fixture inside (inside temperature is below 0°C).
Fixture does not respond to DMX.



The fixture is in standby mode.
Fixture effects does not respond to DMX, but display is active. Fixture sends its statuses and recorded physical values (temperature, humidity, pressure) to the REAP.

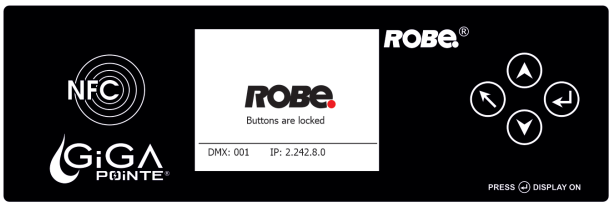


The fixture is in standby mode and inside of the fixture is heated (ambient temperature is below 0°C).
Fixture does not respond to DMX, but display is active. Fixture sends its statuses and recorded physical values (temperature, humidity, pressure) to the REAP.

Locking/unlocking the screen.

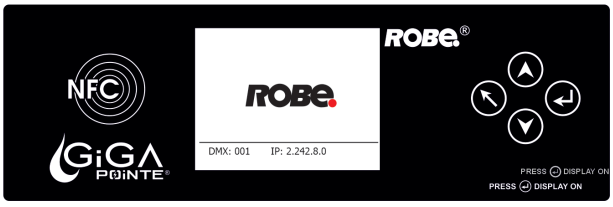
To lock the screen, display the screen with ROBE logo, touch the [ESCAPE] button and slide your finger clockwise in a circular track of 360° across buttons [ESCAPE] --> [NEXT] --> [ENTER/Display On] -->[PREV]--> [ESCAPE]. The sign "Buttons are locked" will appear on the screen. If this sign will not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





11.1 Tab " Address"



DMX Address - Select the menu to set the DMX start address**.**
Blinking DMX address means that the fixture is either not receiving DMX data or that the set DMX address is higher then allowed, exceeding the DMX footprint of the set DMX mode.

DMX Preset - Use the menu to select desired channel mode.
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. 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.

This device implements a receiver for **Streaming ACN (sACN) as defined in ANSI E1.31** and is capable of receiving DMX512-A data transported over IP networks.
When multiple sources transmit data for the same universe, arbitration is performed according to the following rules:
1.**Source Priority** – The receiver selects the stream with the highest sACN universe priority value.
2.**Equal Priority Sources** – When multiple sources transmit with the same priority, the receiver performs HTP (Highest Takes Precedence) merging on a per-slot basis, where the highest DMX slot value from the active sources is utilized.
3.**Universe Selection** – The universe number processed by the receiver is user-configurable.

The device does not implement per-address priority extensions and relies on **universe-level priority and HTP merging** for multi-source arbitration.
All received data is interpreted as D**MX512-A slot values according to ANSI E1.11**, transported via the sACN protocol.

11.2 Tab "Information"

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

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

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

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

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

Base Temperature - The menu shows temperature on the display PCB in the fixture base.

Current - A current temperature on the display PCB.

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

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

Head temperature - The menu shows temperature in the fixture head.

Current - A current temperature in the fixture head.

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

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

Laser Diode Temp. - The menu shows temperatures on the heatsink of the light source.

Current - A current temperature on the heatsink of the light source.

Maximum NonRes. - A maximum temperature on the heatsink of the light source since the fixture has been fabricated.

Maximum Res. - A maximum temperature on the heatsink of the light source since the counter was last reset.
In order to reset counter to 0, touch desired text box under item "Max.Res."

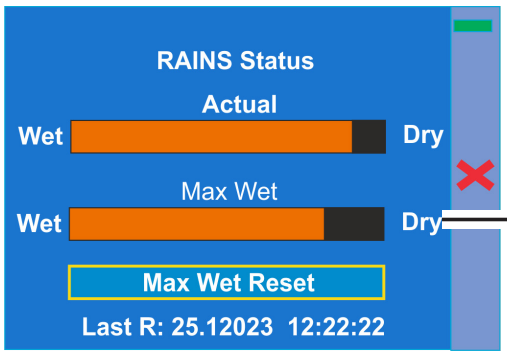
Phosphor Wheel Temp. - The menu shows temperatures on the phosphor wheel in the light source.

Current - A current temperature on the phosphor wheel in the light source.

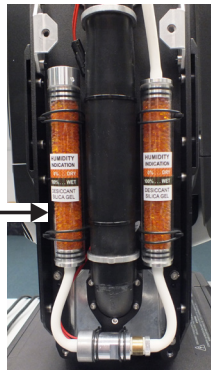
Maximum NonRes. - A maximum temperature on the phosphor wheel in the light source since the fixture has been fabricated.

Maximum Res. - A maximum temperature on the phosphor wheel in the light source since the counter was last reset.
In order to reset counter to 0, touch desired text box under item "Max.Res."

RAINS Status - The menu item gives you information about environment in the fixture.
RAINS (Robe Automatic Ingress Neutralization System) manages humidity, temperature and pressure control using an active monitoring system to automatically remove any moisture detected within the fixture and provides permanent monitoring to ensure peak performance of the fixture.



Silica gel desiccants in the fixture arm



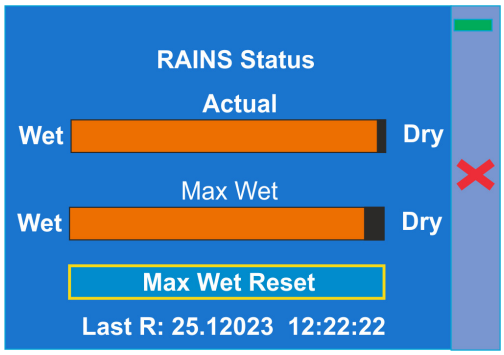
The bar chart **Actual** informs you about current humidity in the fixture. The bar chart changes depending on humidity, temperature and pressure in the fixture. The bar chart depends on current conditions in the fixture and can be different at start of fixture operation, after 10 minutes of its operating, after closing fixture dimmer etc.

The bar chart **MAX WET** informs you about maximum humidity achieved in the fixture since the chart was last reset. The bar chart also informs you about saturation of silica gel desiccants in the fixture arm with water and is deciding indicator for their checking and replacement.

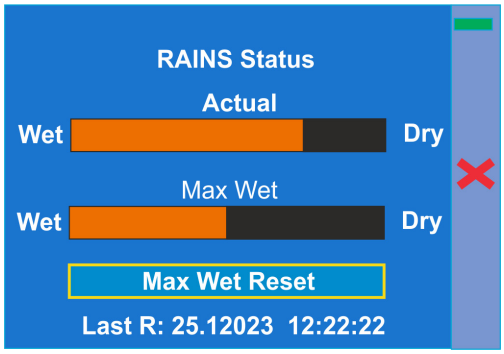
The option **MAX WET reset** resets the bar chart MAX WET. Date and time of last reset is displayed below the option.

Examples of RAINS statuses:

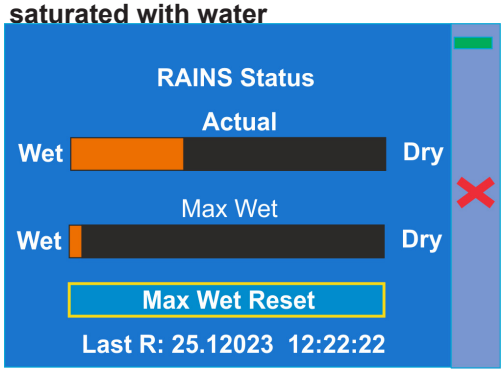
Dry desiccants in the fixture arm



Desiccants in the fixture arm partially saturated with water



Desiccants in the fixture arm fully saturated with water



Silica gel desiccants in the fixture arm are saturated with water and should be replaced.
After replacing them, reset the item MAX WET.
It is not necessary to replace silica gels desiccants in plastic boxes in the fixture head and base. These desiccants should be checked (and replaced if it is needed) at removing head or base covers, e.g. at gobo replacement or some service intervention.

Sensors Info - The menu items shows you current conditions in the fixture head (at pressure sensor): temperature, relative humidity and pressure.

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

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

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

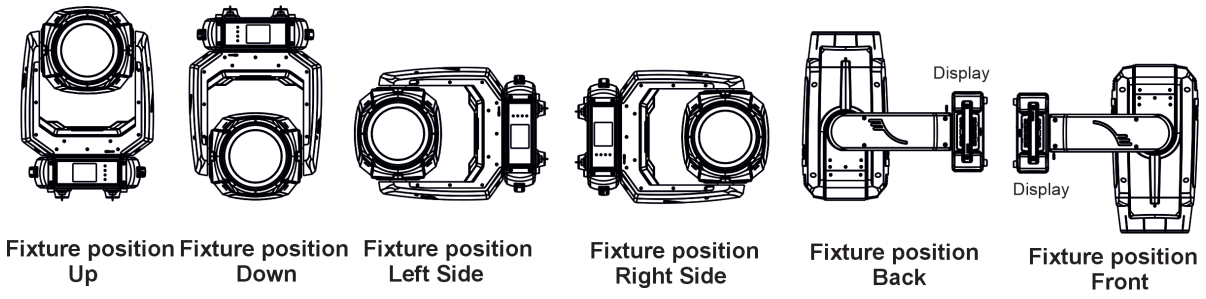
Software Version - Select this item to read software versions of fixture processors for internal communication.
Display System - A display processor on the display board in the fixture base
Module M - a pan/tilt processor
Module H - a light source driver processor (backup)

Module C2 - a cyan/magenta/ auxiliary lens control processor
Module O -a zoom/focus control processor
Module P2 - a prism carousel 2/frost 2 control processor
Module GR - a gyroscope control module
Module DR - a light source driver processor
Module C1 - a yellow/colour wheel control processor
Module G - a gobos control processor
Module P1- a prism carousel 1/frost 1 control processor
Module DL- a Data Logger control module

SW HW Version - Select this item to read hardware versions of PCBs and their software versions.
Display System - A display processor on the display board in the fixture base
Module M - a pan/tilt processor
Module H - a light source driver processor (backup)
Module C2 - a cyan/magenta/ auxiliary lens control processor
Module O -a zoom/focus control processor
Module P2 - a prism carousel 2/frost 2 control processor
Module GR - a gyroscope control module
Module DR - a light source driver processor
Module C1 - a yellow/colour wheel control processor
Module G - a gobos control processor
Module P1- a prism carousel 1/frost 1 control processor
Module DL- a Data Logger control module

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

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



Fixture Temperatures - In the menu are recorded temperatures which have exceeded defined levels.
Sensor Logs - In the menu item are recorded physical values in the fixture: temperature, relative humidity and pressure.
Pressure Test Log - In the menu item are recorded values related to executed pressure tests: date and time, temperature,pressure difference, duration of pressure test and its result.
System Log - In the menu item are recorded fan errors, sensor errors and process errors.
Note: The log buffer can contain max. 8000 records. If the buffer is full, old data will be overwritten.

11.3 Tab "Personality"



DMX Preset - Use the menu to select desired channel mode.
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.
Note: if the fixture is not connected to mains, warning "Not Available In Offline Mode" will appear on the screen.
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 Speed - Use this menu to set the speed of the pan/tilt movement.
Maximum – The fixture uses maximum speed of the pan/tilt movement.
MegaPointe Comp. – The pan/tilt speed of the fixture is compatible with the MegaPointe.

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 During MC - Blackout during movement correction. Set this option On if you wish to close light output during the time when the head goes to its correct position from which has been changed by an external force.
Active Blackouts - Use this menu if you wish to close the light output during effect changes.
Pan/Tilt Moving - The menu item enables to close light output while the pan/tilt DMX values are changing.
Colour Wheel Moving - The menu item enables to close light output while colour wheel is moving.
Gobo Wheel Moving - The menu item enables to close light output while rotating gobo wheel is moving.
Prism Wheel Moving - The menu item enables to close light output while prism wheel1/prism wheel 2 is moving.

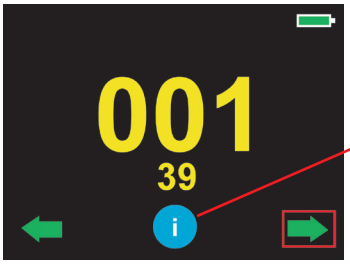
Frequency Setup - The function allows you to set the PWM (Pulse Width Modulation) output frequency of LEDs to 600Hz, 2400Hz or High (25kHz).
Frequency Adjust - The menu item allows you fine adjustment of the LED frequency around selected frequency (except High frequency).

Close Proximity Mode - If this function is on, the minimum zoom of the fixture is reduced (in Beam mode only) in order to reduce heating of the illuminated surface and thus reduce the safe distance to illuminated objects from 18 m to 8 m .
Warning: this function does not affect the Hazard distance, which is still 35 m (unless otherwise configured on the channel 43 - Save Distance control).
The Close proximity Mode is also available by DMX command on the channel Power/Special function (50-59 DMX).
Dimmer Curve - Use the menu to select desired dimmer curve: **Linear** or **Square Law**.
Gobo Indexing - The following three options define transition from gobo rotation to gobo indexing.

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

Auto Parking Pos. - Automatic parking position. When this option is enabled, the fixture will automatically move to the Parking position whenever it is powered on and a DMX signal is missing or all DMX values are 0. Once a DMX signal is present, the Parking position will be automatically disabled. The menu "Manual Effect Control in the tab "Manual Control" is inactive.





Blackout-Parking position acctivated

The function **Parking position** (channel "Power/Special functions", DMX values 120-129) moves the pan and tilt to the position (including movement of zoom to the front part of the head) in which the fixture head will always face down. Owing this position of the fixture head, there is not chance to burn internal parts of the head by the sun light.

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

Reset Init Effect Positions - Use the menu to set the menu item "Init Effect Positions" to default values.

Screen Settings - Use this menu to change the touch screen settings.
Display Intensity - The item allows to control the intensity of the screen (1-min., 10-max.).
Screen saver Delay - The item allows you to keep the screen on or to turn it off automatically after 1-10 minutes after last touch (or pressing any button on the control panel).

Display Orientation - The menu allows to change display orientation.

Normal - Standard display orientation if the fixture is placed horizontally (e.g. on the ground).
Inverted - Inverted orientation (needed if the fixture is hanging on the truss).
Auto - The option activates a gravitation sensor for automatic screen orientation.

Note: **Auto** option is set as default. You change the display orientation by touching the icon on the display, an the option set in the "Display Orientation" menu is temporarily overridden.

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

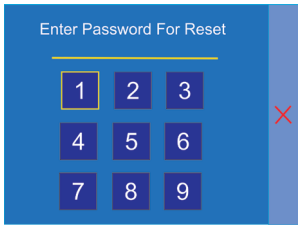
Fan Settings - Use the menu to set fans operation mode.
Fan Mode - Use the menu to set the fixture fans to max. power mode (option "**High**") or to the auto-control mode (option "**Auto**"). The option "**Quiet**" allows you to set desired fan noise
Quiet - Blackout Fan Off - The menu item allows you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

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

Default - The menu allows you to load factory default settings, save custom settings and load custom settings.
Load Default - The menu item loads factory settings of the fixture except the item "DMX Input".
Load Custom - The menu item loads custom settings.
Save Custom - The menu item saves the following menu items and values:

DMX adress
DMX input
DMX Presets
Ethernet Settings/Ethernet Mode
Pan/Tilt Settings --> Pan Reverse
Pan/Tilt Settings --> Tilt Reverse
Pan/Tilt Settings --> Pan/Tilt Mode
Pan/Tilt Speed
Blackout Settings/Blackout During M.C
Blackout Settings --> Blackout While --> Pan/Tilt Moving
Blackout Settings --> Blackout While --> Gobo Wheel Moving
Blackout Settings --> Blackout While --> Colour Wheel Moving
Blackout Settings -->Blackout While --> Prism Wheel Moving
Gobo indexing
Focus tracking
Temperature Unit
Display Orientation
Screen settings --> Display intensity
Screen settings --> Screen Saver Delay
Fan Settings --> Fan Mode
Fan Settings --> Fan Noise Level
Quiet-Blackout Fan Off
Frequency Setup
Dimmer Curve
Close Proximity Mode

P/T Safe Zone Reset - The menu item allows you to deactivated set pan and tilt safe zones. Enter the password 2479 in this menu screen to reset pan and tilt safe zones.



After zone resetting, the message "Zone Reset Done" will appear.

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

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

11.4 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 including pan/tilt.
Pan/Tilt Reset - The item resets a pan and a tilt.
Colour System Reset - The item resets colour wheel and CMY system.
Gobo/Eff. Wh. Reset - The item resets static and rotating gobo wheel and an effect wheel.
Zoom/Focus/Prisms/Frost Res. - The item resets a zoom, focus, prism and a frost modules.

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

11.5 Tab "Stand-alone"



Test Sequences -Use the menu to run a test/demo sequences without an external controller, which will show you some possibilities of using Robin GigaPointe.

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

Static Mode - This mode is suitable for projections on the wall, ceiling or ground without any pan/tilt movement. Adjust the pan, tilt and zoom to desired positions and start test sequences by touching the green ▶ icon.

Preset Playback - This menu allows you to select the program which will be played in a loop after switching the fixture on (the option is commonly used in a stand-alone operation without an external controller).

None - The option disables “Presetting playback” function.

Test - The option starts the test sequences.

Prog. 1 - The option starts user program number 1.

Prog. 2 - The option starts user program number 2.

Prog. 3 - The option starts user program number 3.

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

Play Program 1 - The option starts user program number 1.

Play Program 2 - The option starts user program number 2.

Play Program 3 - The option starts user program number 3.

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

Edit Program 1 - The option allows to edit user program number.1.

Edit Program 2 - The option allows to edit user program number 2.

Edit Program 3 - The option allows to edit user program number 3

To edit program:
1. Select the item which you want to edit (“Edit Program 1” - “Edit Program 3”).
2. By means of the items "Start Step" and "End Step" set first and last step of the program
3. Select the item "Edit Program Steps".
4. Select the item "Step 1".
5 From the list of effects select desired effect and set its value. Browse throw the list by pressing the [up arrow] and [down arrow] and set all desired effects.
An item "Step Time" (value of 0-25.5 sec.) is the time during which effects last in the current step
6. Save adjusted effects to the current step by the item ✔ .
If you stay on the item ✔ and simultaneously hold the ENTER button, the current program step will be copied to the next program step.
6. Repeat the steps 5 and 6 for next program steps.
7. After editing desired program steps, adjust the length of the program by means of the items "Start Step" and "End Step".

Note.
If you have made some changes in the program steps and you are leaving the programming menu, the following notice will appear: " Program Was Modified"
" Press OK For Save"
✘ - leaves program menu without saving values.

11.6 Tab "Service"



Pressure Test - The menu item runs a procedure which checks the IP65 integrity of the fixture. The fixture has to be connected to mains and the head temperature (at pressure sensor) cannot be higher than 55°C. The pressure test lasts about 8 minutes and can be run at earliest 10 minutes after closing light output (shutter closed) of the fixture. The pressure test can be repeated at earliest 2 minutes after last pressure test.
For more details of pressure test please see the chapter Checking the IP65 integrity of the fixture.

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

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

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

Calibration of the effects via the DMX controller
1. Connect DMX controller to the fixture and enter the "Calibrate Effects" menu.
Calibration protocol:

Effect	**Channel-Mode 1**	**Channel-Mode 2**
Pan	channel 40	channel 42

Tilt	channel 41	channel 43
Static gobo	channel 42	channel 44
Rot. Gobo Wheel	channel 43	channel 45
R. Gobo Index 1	channel 44	channel 46
R. Gobo Index 2	channel 45	channel 47
R. Gobo Index 3	channel 46	channel 48
R. Gobo Index 4	channel 47	channel 49
R. Gobo Index 5	channel 48	channel 50
R. Gobo Index 6	channel 49	channel 51
R. Gobo Index 7	channel 50	channel 52
R. Gobo Index 8	channel 51	channel 53
R. Gobo Index 9	channel 52	channel 54
Prism 1	channel 53	channel 55
Prism 1 Rot. 1	channel 54	channel 56
Prism 1 Rot. 2	channel 55	channel 57
Prism 1 Rot. 3	channel 56	channel 58
Prism 2	channel 57	channel 59
Prism 2 Rot. 1	channel 58	channel 60
Prism 2 Rot. 2	channel 59	channel 61
Prism 2 Rot. 3	channel 60	channel 62
Zoom	channel 61	channel 63
Focus 1	channel 62	channel 64
Focus 2	channel 63	channel 65
Frost 1 A	channel 64	channel 66
Frost 1 B	channel 65	channel 67
Frost 2 A	channel 66	channel 68
Frost 2 B	channel 67	channel 69
Colour wheel	channel 68	channel 70
Cyan	channel 69	channel 71
Magenta	channel 70	channel 72
Yellow	channel 71	channel 73
Frost shadow	channel 72	channel 74
Effect wheel	channel 73	channel 75
Aspherical lens	channel 74	channel 76

Calibrate Pan/Tilt EMS - The 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.

Calibrate Pan/Tilt Reset - The menu item is used for calibration of pan/tilt reset in factory and also has to be used in case of changing of pan or tilt motor or pan/tilt control PCB (RB3138 in the fixture yoke).

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

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

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

G1 - a movement of the gobo 1 to the changing position.

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

:

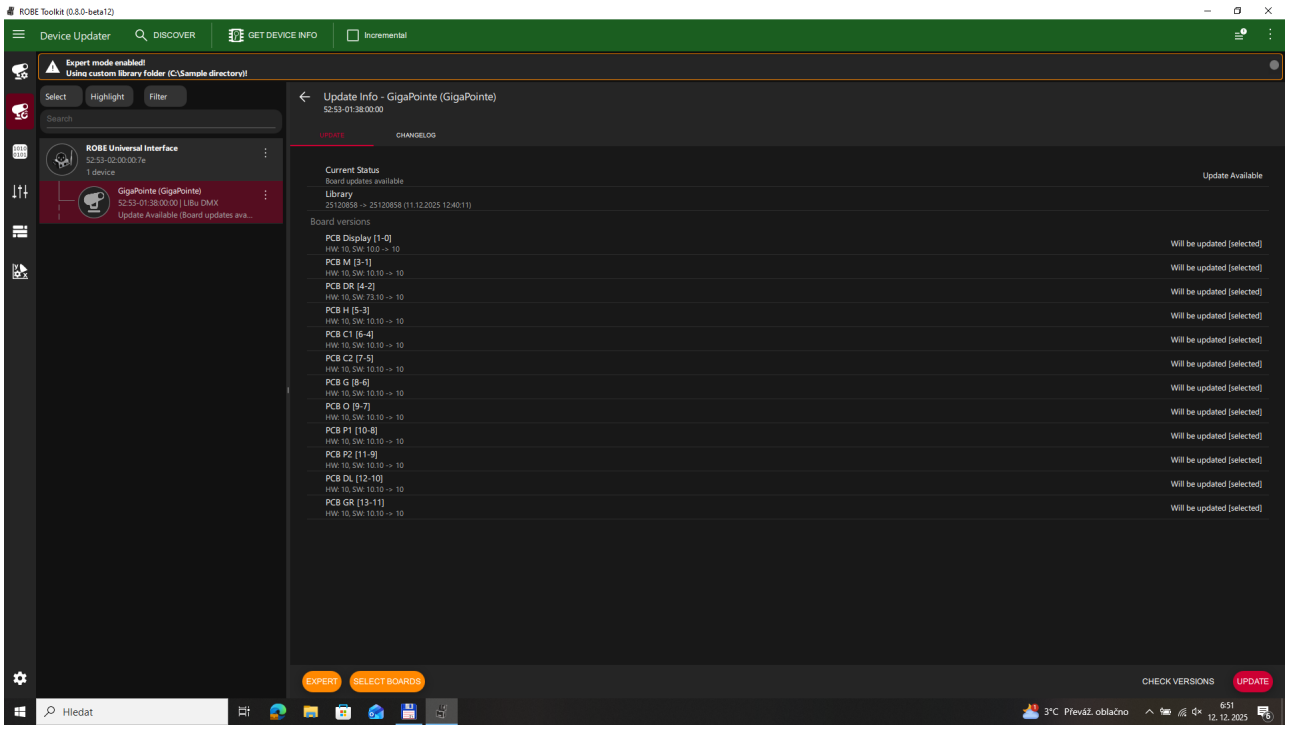
G9-Mg - a movement of the gobo 9 (gobo holder with magnet) to the changing position.

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

12. Software update

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

Robe Toolkit:



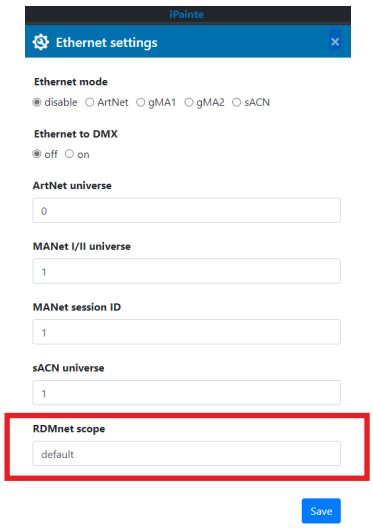
13. RDM

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 the Robin GigaPointe 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			*

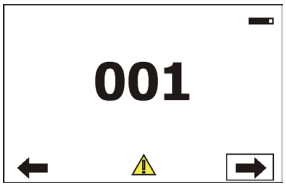
RDM model ID for the Robin GigaPointe is 0x0165.

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



14. Error and information messages

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



Touch the warning icon or press the [ESCAPE] button to display error messages.

List of error and information messages:

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

Pan Error 2
Pan sensor error.

Pan Error 3
Pan feedback error.

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

Tilt Error 2
Tilt sensor error.

Tilt Error 3
Tilt feedback error.

Colour Wheel Error 1
Magnetic/optic sensor was not detected.

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

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

Prism 1 Rot. Error 2
Magnetic/optic sensor permanently detects prism wheel 1.

Prism 2 Rot. Error 1
Magnetic/optic sensor was not detected at prism wheel 2.

Prism 2 Rot. Error 2
Magnetic/optic sensor permanently detects prism wheel 2.

Prism Error 1
Impact to the mechanical end of the prism wheel 1 track (prism wheel 2 track) was not detected.

Prism Error 4
Incorrect detection of a prism wheel 1 track (prism wheel 2 track). Impact to a mechanical obstruction was detected within running of the prism 1 (prism 2).

Frost Error 1
Impact to the mechanical end of the frost 1 track (frost 2 track) was not detected.

Frost Error 4
Incorrect detection of a frost 1 track (frost 2 track). Impact to a mechanical obstruction was detected within running of the frost.

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

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

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

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

Gobo Carousel Error 1
Magnetic/optic sensor was not detected.

Gobo Carousel Error 2
Magnetic/optic sensor permanently detects gobo carousel.

Gobo Rotation Error 1
Magnetic/optic sensor was not detected on the rotating gobo on the gobo carousel.

Gobo Rotation 1 Error 2
Magnetic/optic sensor permanently detects rotating gobo on the gobo carousel.

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

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

Effect Wheel Error 1
Impact to the mechanical end of the effect wheel track was not detected.

Effect Wheel Error 4
Incorrect detection of an effect wheel track. Impact to a mechanical obstruction was detected within running of the effect wheel.

EEprom Error
Hardware error of the EEprom.

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

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

Battery Operated
Fixture is not connected to mains.

Pan/Tilt EMS Cal. Error
The EMS system is not calibrated.

Pan/Tilt EMS Error
Control electronics cannot communicate with the EMS system.

Internal Error 1
Communication error between PCBs (error or noise was detected on communication wires)

Internal Error 2
Communication error (some PCB has failed or is disconnected (this PCB will show as N/A in menu --> Information --> Software versions) or error/interference was detected on communication wires)

Overheated
The LED engine is overheated and light output is closed.

Temperature Sensor Error

Some of temperature sensor in fixture head (LEDs or driver) is faulty.

Too Much Humidity in Device

To remove the message, reset the bar chart Max.Wet in the menu RAINS Status (tab Information) and check the silica gel desiccants in the fixture arm.

Valve Seal Error

The valve in fixture arm or coil in the valve is defective or there is a connection problem between the valve and head, check cable connector at valve.

Fan 1 error (Fan 2 Error)

The suction fan 1 or the suction fan 2 in the back of the head above the light source is disconnected from its control PCB or is faulty and has to be replaced.

Fan 3 error (Fan 4 Error)

The exhaust fan fan 3 or the exhaust fan fan 4 in the back of the head above the light source is disconnected from its control PCB or is faulty and has to be replaced.

P/T Fan error

The fan cooling electronics in the fixture arm is disconnected from its control PCB or is faulty and has to be replaced.

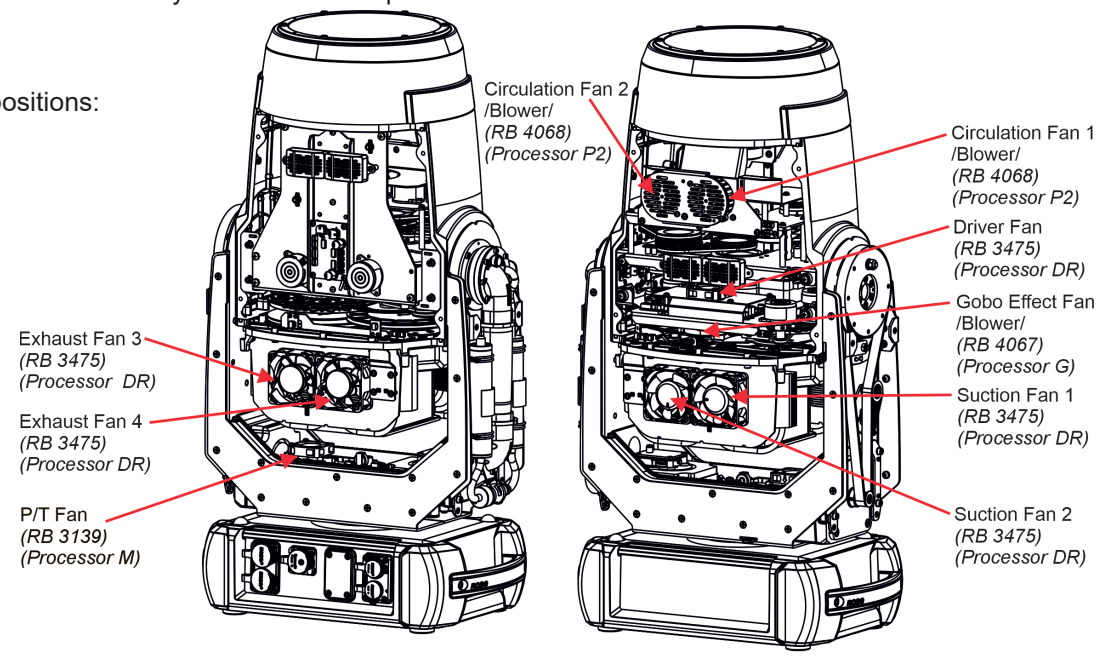
Gobo Effect Fan error

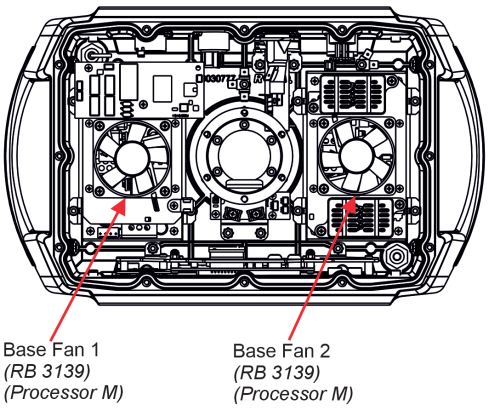
The small blower cooling gobo wheels is disconnected from its control PCB or is faulty and has to be replaced.

Circulation fan 1 error (Circulation fan 2 error)

The small blower 1 or the small blower 2 in the carbon filter in the front of the head is disconnected from its control PCB or is faulty and has to be replaced.

Fan positions:





Vcc 5V Failure
The fixture detects a drip in supply voltage 5V when connected to mains. Probably the pan/tilt driver (PCB M) causing this trouble or some connected PCB.

Copy lib to backup failed.
As long as there is no other update error with some of the processors (on the display or in the Robe Toolkit), the update went through OK, but after the update, a backup of the update file has failed.
To fix it, try to power cycle the fixture. If no help, check SD card state (tab Personality --> Memory Tools --> SD Card -> SD State). Repeat fixture update and try to power cycle the fixture.
As a last attempt , format the SD card and repeat fixture update.

Backup actual lib failed
An error while backing up the update file (.lib), check SD card state (tab Personality --> Memory Tools --> SD Card -> SD State), try to power cycle the fixture.

Unpacking new lib failed
Check the update file (lib), repeat fixture update.

Open actual lib failed
An error in the update file (.lib) saved on the SD card or SD card error. Check SD card state (tab Personality --> Memory Tools --> SD Card -> SD State), try to power cycle the fixture.

Update lib failed
An error while moving the update file (.lib) in folders on SD card, check SD card state (tab Personality --> Memory Tools --> SD Card -> SD State), try to power cycle the fixture.

Display flashing failed
An error occurred while updating the display. Try to power cycle the fixture and repeat update.

New lib-wrong device model ID
The update file is corrupted or does not match type of fixture. Check the update and repeat fixture update.

Backup actual bin in ext. flash is invalid
Backup of binary file in memory is corrupted. Try to power cycle the fixture, if that did not help, update the fixture on the latest version.

Loaded backup from ext flash
Software update failed, binary backup loaded from external storage. Try to power cycle the fixture, if that did not help, try to update the fixture again.

Flashing failed
Software update failed, check the library file (.lib), power cycle the fixture and try to software update again.

Backup bin check failed
Backup of binary file in external memory is damaged. Power cycle the fixture, if that did not help, try to update the fixture on the latest version.

HW version error
Wrong update file (.lib), badly generated update file or the update file is not intended for the HW version of the fixture.

T sensor com Err
Motion and Temperature sensor on the display PCB does not provide correct values. It will not affect general function of the device, except that the Automatic Parking position will not work (for devices where supported), as the fixture does not have it's rotation data, to position pan/tilt down to the ground.

P1-Position protection detection init failed
The safety check procedure for Prism wheel 1 failed. The Safe Distance control channel (mode 3) is inactive:
0-247 DMX --> minimum light output corresponding to the value for "Save Distance 5m"
248-255 DMX --> Full light output- Safe distance 35 m.

P1-Mechanical eff. pos. error
The Prism 21is not located in correct position. The Safe Distance control channel (mode 3) is inactive: 0-247 DMX --> minimum light output corresponding to the value for "Save Distance 5m"
248-255 DMX --> Full light output- Safe distance 35 m.

P2-Position protection detection init failed
The safety check procedure for Prism wheel 2 failed. The Safe Distance control channel (mode 3) is inactive: 0-247 DMX --> minimum light output corresponding to the value for "Save Distance 5m"
248-255 DMX --> Full light output- Safe distance 35 m.

P2-Mechanical eff. pos. error
The Prism 2 is not located in correct position. The Safe Distance control channel (mode 3) is inactive: 0-247 DMX --> minimum light output corresponding to the value for "Save Distance 5m"
248-255 DMX --> Full light output- Safe distance 35 m."

O-Position protection detection init failed
The safety check procedure for zoom module failed. The Safe Distance control channel (mode 3) is inactive: 0-247 DMX --> minimum light output corresponding to the value for "Save Distance 5m"
248-255 DMX --> Full light output- Safe distance 35 m.

O-Mechanical eff. pos. error
The zoom module is not located in correct position. The Safe Distance control channel (mode 3) is inactive: 0-247 DMX --> minimum light output corresponding to the value for "Save Distance 5m"
248-255 DMX --> Full light output- Safe distance 35 m."

Measuring of light engine power consumption
Control measurement of the current to the light engine detected a discrepancy, the light output from the fixture was closed. Try to switch off and on the fixture.

The following error messages apply to individual PCBs of functional modules (e.g. M - Pan/Tilt PCB, see the tab "Information", menu Software Version").
The number in brackets indicates order of the module in the Toolkit during software upgrade.
If any of these error messages will appear on the display, try to switch off/on the fixture or perform software update. If the error message still appears on display, change the corresponding PCB.
PCB M(3) response lost
PCB DR(4) response lost
PCB H(5) response lost
PCB C1(6) response lost
PCB C2(7) response lost
PCB G(8) response lost
PCB O(9) response lost
PCB P1(10) response lost
PCB P2(11) response lost
PCB DL(12) response lost
PCB GR(13) response lost

15. NFC

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

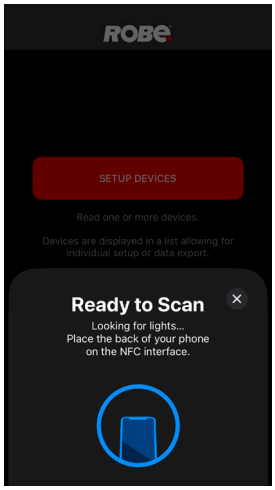
The NFC point is situated on the front panel of fixture´s base.

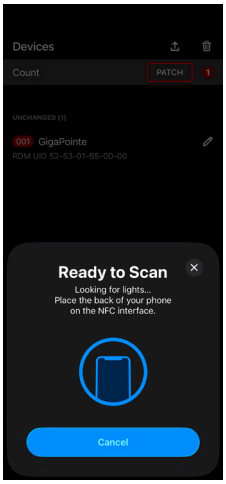


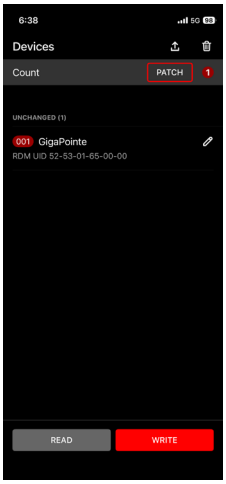
Download and install the ROBE COM from Google Play (for Android 7.1 and higher) or App Store (for iOS 15.0 and higher) to your mobile phone. Your mobile phone has to support NFC.

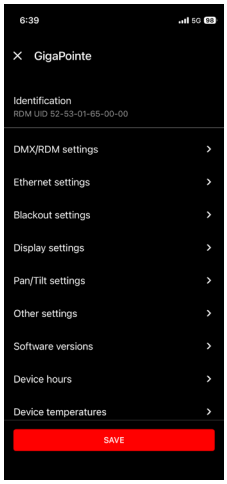
After installing the ROBE COM, run the application by touching the icon .

Hold the mobile phone on the side of the fixture base near to NFC point , if NFC connection is OK, touch the item "GigaPointe" and the following menu items will appear:









Note. Displayed menu is universal, some menu item can be disabled for specific type of the fixture.
The fixture can be disconnected from mains during loading and saving data to the fixture, but some changes will be active after switching the fixture on.

Changes made in selected menu item can be saved by touching the item "SAVE".
The item "WRITE" sends all changes to the fixture.

Menu item "MANUAL LIGHT CONTROL" currently serves for Anolis fixtures (Lyrae S, Lyrae M) only.

16. Cleaning

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

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 dampened with a solution of water and a mild detergent is recommended, under no circumstances should alcohol, solvents or abrasives be used!
Stains on the fixture housing caused by hard water (water that has high mineral content) can be effectively removed by means of non - abrasive descaler (e.g. EverStar descaler).

17. Maintenance

DANGER !
Do not do maintenance in a damp environment (e.g. rain, snowfall)!
Always disconnect the fixture from mains before starting any maintenance work.

In order to ensure the fixture remains in good condition and does not fail prematurely, we recommend regular maintenance.
The following points have to be considered during fixture inspection:

- All outside covers and screws should be checked for damages, scratches or corrosion.
- All connectors and its rubber caps should be checked for damages or sediments.
- All screws and fasteners has to be securely tightened. Check for any deformation on the housing and rigging points. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure people.
- Electric power supply cable must not show any damage or material fatigue.
- Fans and heatsink should be checked for sediments or dirt/debris accumulation.

User can do the folloving operations:

- Gobo replacement
- Frost replacement
- Silica gel desiccants replacement
- Main fuse replacement
- Battery replacement
- Lubrication of internal parts of the fixture

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

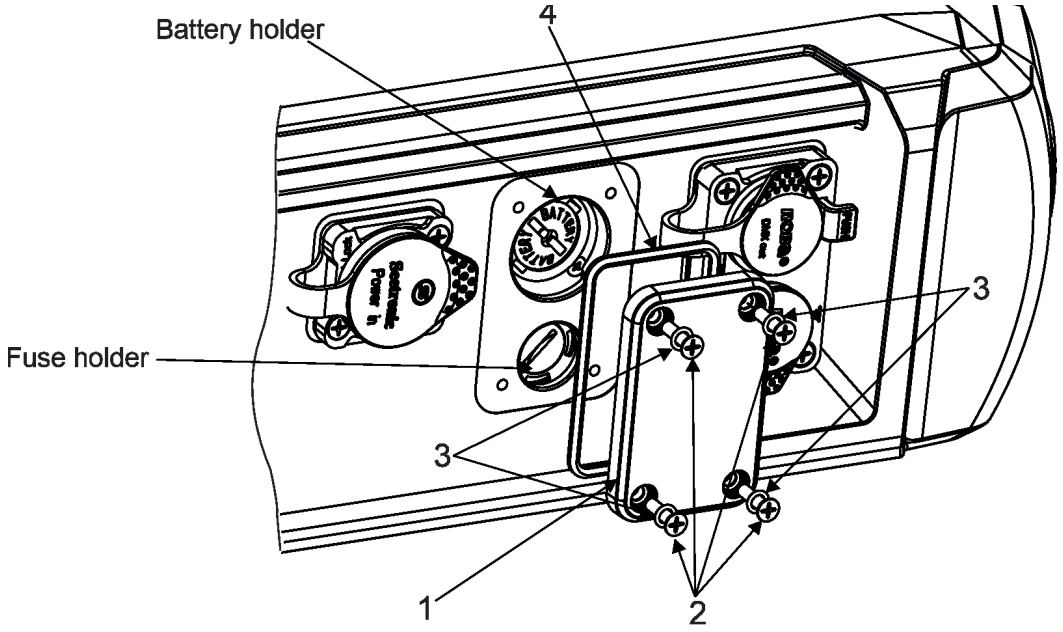
Fixture metal covers are made of material resistant to corrosion, potential damages of covers (like scratches, abrasions) are only appearance defects and will not cause corrosion of covers.
To repair small damages of fixture metal covers (e.g. scratches), you can use a paint intended for non-rusting metal surfaces (like aluminium, copper…). The paint can be applied to surface by means of a small brush or by spraying.
Use the paint with the same colour and sheen as has your cover. The paint can perform as undercoat or top-coat, it doesn´t matter.

Do not remove fixture covers in smoky or particularly dirty environment (e.g. with fog machines).

IMPORTANT The fixture head should be uncovered as short time as possible (about 1-2 hours depending on air humidity) otherwise silica gel in small boxes in the fixture head may become damp.
If you have removed head cover and you need to interrupt your work for longer time (hours, days),we recommend to place the head cover on the head and fasten it provisionally by means of two screws, next possibility is unscrewing small boxes with silica gel from the head and put it to a sealed container with limited access of air (e.g. sealed plastic bag).
The same rule should be kept for silica gel desiccants in the fixture base in case of service intervention (at removing bottom base cover).

Replacing the fuse.
Before replacing the fuse, disconnect the fixture from mains.
1. Remove the cover (1) of the battery and fuse compartment by unscrewing four screws (4) with sealing rings (3).
2. Using a flat-blade screwdriver, unscrew (anti-clockwise) the fuse holder from the rear panel of the base.
3. Remove the blown fuse from the fuse holder.
4. Place a good fuse (only the same type and rating) into the fuse holder and screw the fuse holder back.
5. Place the cover (1) with gasket (4) back on the rear panel of the fixture and fasten it by means of the four screws (2) with sealing rings (3). Use a tightening torque: 0.35Nm-0.5Nm.

Replacing the battery.
Before replacing the battery, disconnect the fixture from mains.
1. Remove the cover (1) of the battery and fuse compartment by unscrewing four screws (2) with sealing rings (3).
2. Loosen (anti-clockwise) the battery holder cap.
3. Remove the exhausted battery from the battery holder.
4. Place a new battery (only the same type) into the battery holder (Negative (-) inside, Plus (+) outside)**.**
5. Place and tighten the battery holder cap back.
6. Place the cover (1) with gasket (4) back on the rear panel of the fixture and fasten it by means of the four screws (2) with sealing rings (3). Use a tightening torque: 0.35Nm-0.5Nm.



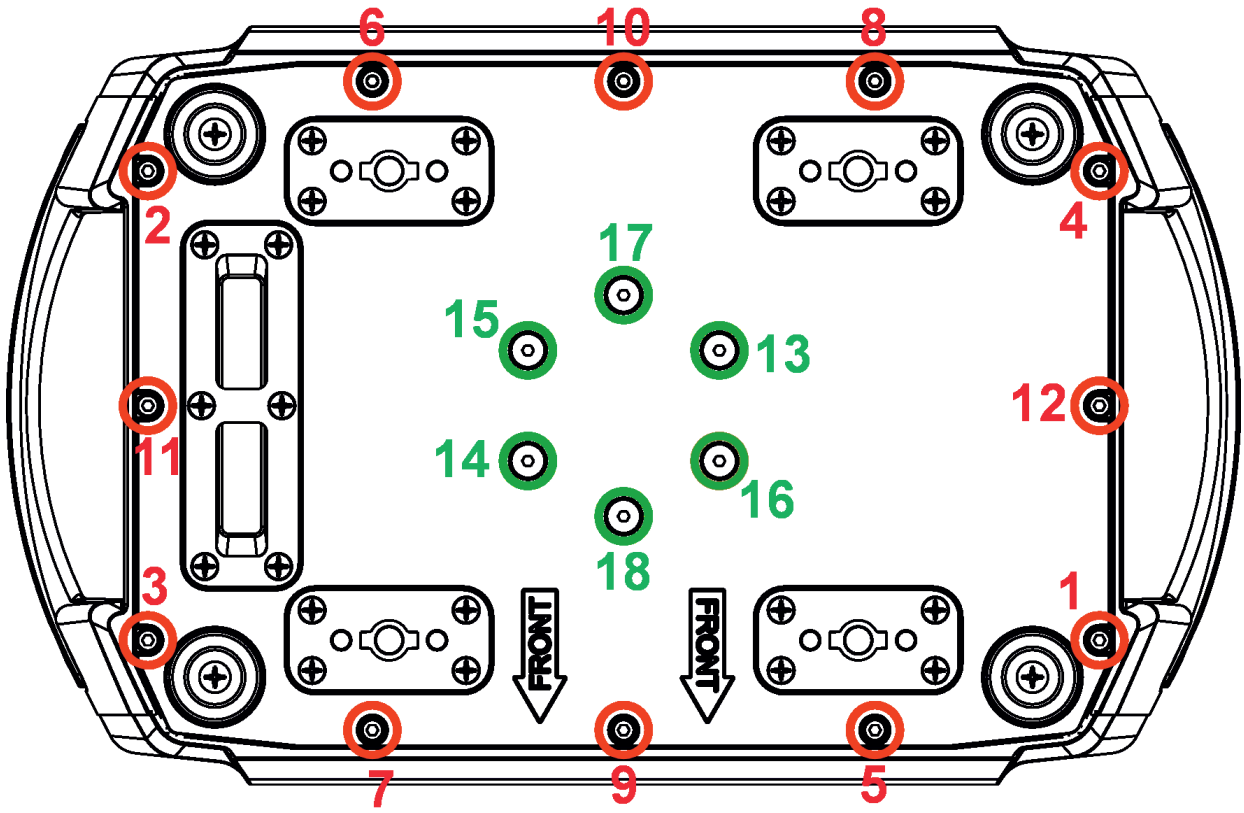
Changing pan/tilt motors or pan/tilt driver.
In case of change of pan motor or tilt motor or pan/tilt control PCB (RB 3139 in the fixture yoke), you have to run the procedure Calibrate Pan/Tilt Reset in the tab "Service" (tab Service--> Calibrations --> Calibrate Pan/Tilt Reset).

17.1 Fixture watertight covers and torques of covers screws

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

Run the procedure Pressure Test (Service --> Pressure Test) after replacing any watertight cover!

Bottom base cover



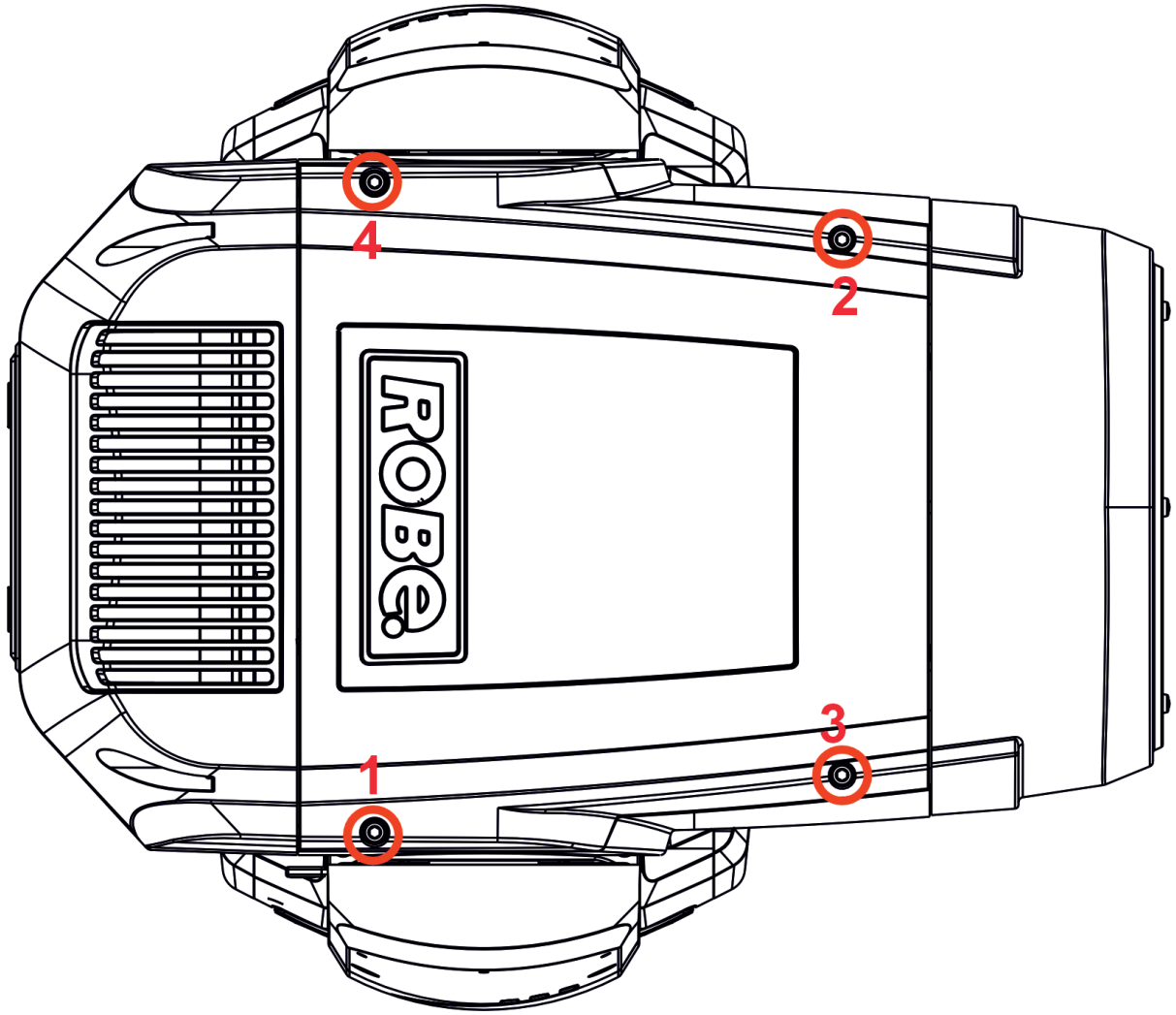
Screws must be tightened
in the order 1-->12
13-->18.

- 12 x hex socket head screw M4x12
  Tightening torque*: 2.5 Nm
- 6 x flat head screw M5x16 with rubber ring
  Tightening torque*: 2.5 Nm

* Tighten all screws in two steps:
Step 1 - use tightening torque 0.5Nm (pre-tightening)
Step 2- use tightening torque 2.5Nm (final tightening)

Carefully check the gasket for signs of deformities or damages and if it is correctly placed before screwing the bottom base cover back. The gasket is part of the base.
Do not forget to connect grounding wire between chassis and base cover.

Head covers (on both sides of the head)



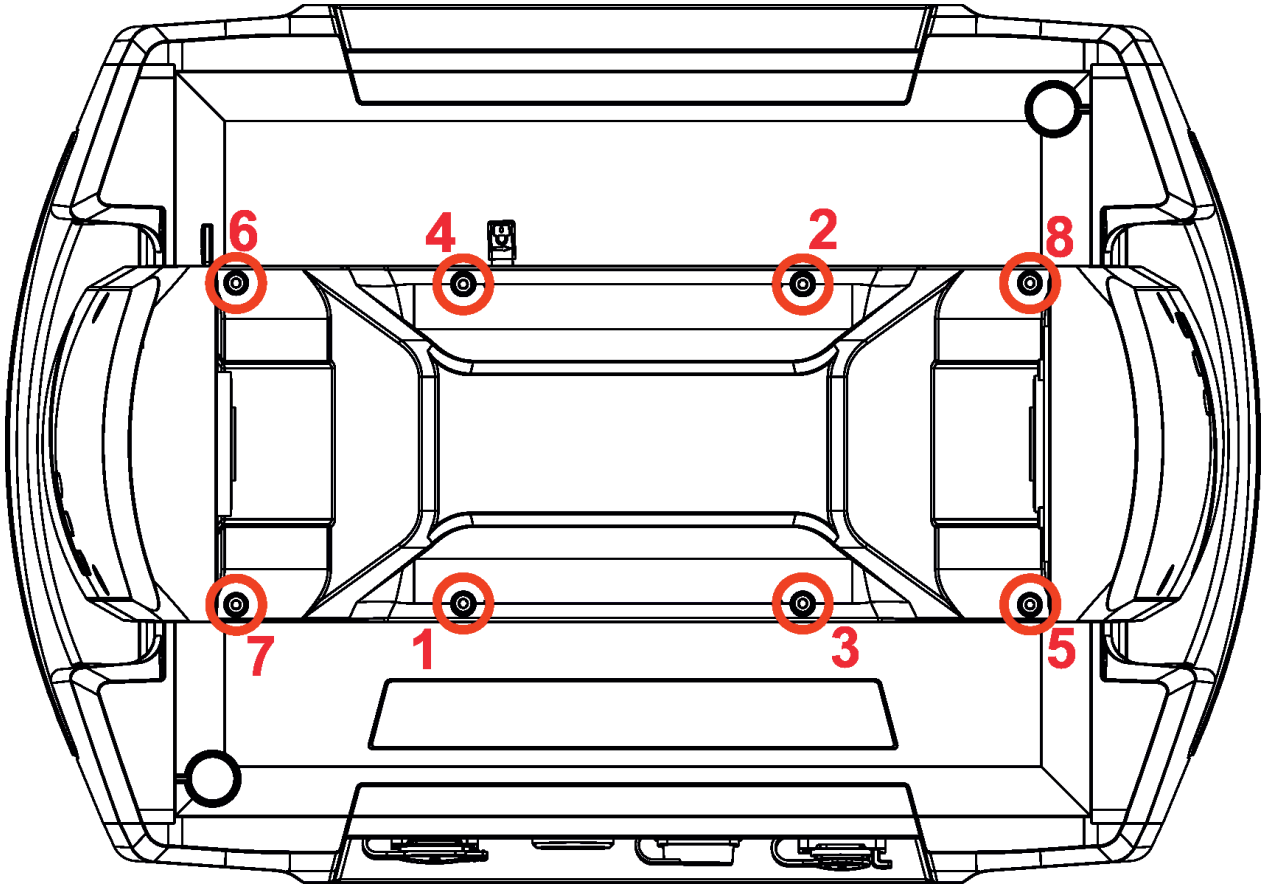
Screws must be tightened
in the order 1-->4

4 x hex socket head screw M5x16
Tightening torque*: 2.5 Nm

* Tighten all screws in two steps:
Step 1 - use tightening torque 0.5Nm (pre-tightening)
Step 2- use tightening torque 2.5Nm (final tightening)

Carefully check the gasket for signs of deformities or damages and if it is correctly placed before screwing head covers back. The gasket is part of the head cover.
Do not forget to connect grounding wire between chassis and head cover.

Yoke cover



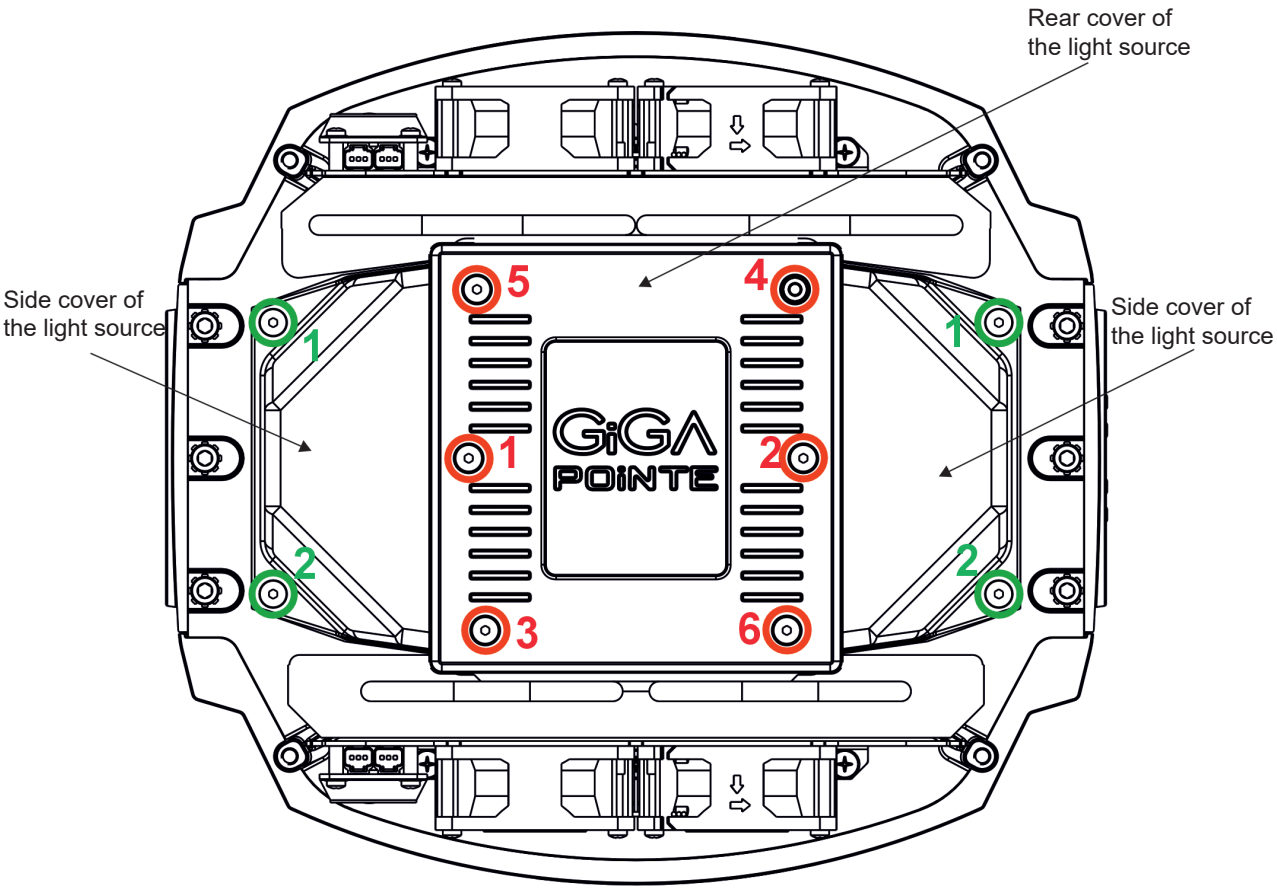
Screws must be tightened
in the order 1-->8

8 x hex socket head screw M4x8
Tightening torque*: 2.5 Nm

* Tighten all screws in two steps:
Step 1 - use tightening torque 0.5Nm (pre-tightening)
Step 2- use tightening torque 2.5Nm (final tightening)

Carefully check the gasket for signs of deformities or damages and if it is correctly placed before screwing the yoke cover back. The gasket is part of the yoke cover.
Do not forget to connect grounding wire between chassis and yoke cover.

Rear and side covers of the light source



Side cover (2x) of the light source

2 x flat head screw M4x12 with star washers
Tightening torque*: 2 Nm

Screws must be tightened
in the order 1-->2

Rear cover of the light source

6 x flat head screw M4x12 with rubber ring
Tightening torque*: 2 Nm

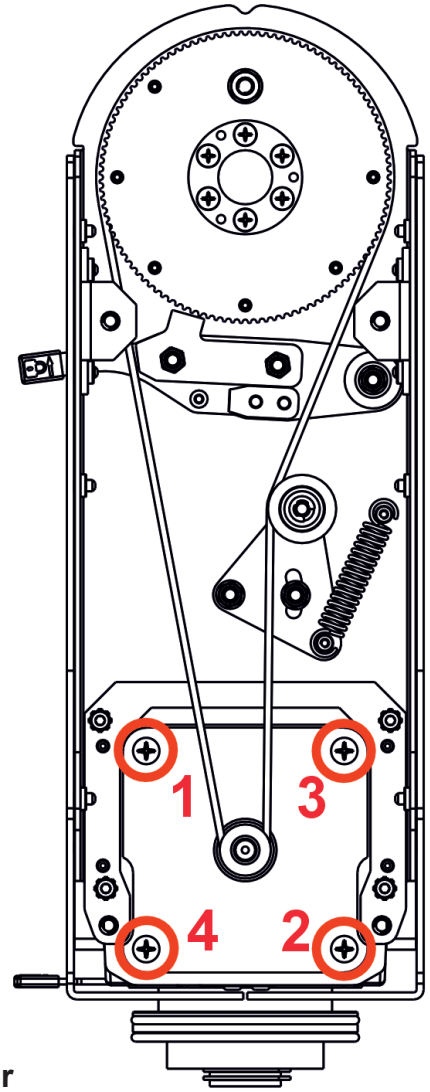
Screws must be tightened
in the order 1-->6

* Tighten all screws in two steps:
Step 1 - use tightening torque 0.5Nm (pre-tightening)
Step 2- use tightening torque 2 Nm (final tightening)

Carefully check the gasket for signs of deformities or damages and if it is correctly placed before screwing the light source covers back.
Rear cover of the light source: the gasket is a part of the rear cover of the light source.
Side cover of the light source: the gasket is a part of the partition.

17.2 Torques of Pan/Tilt motors screws

Tilt motor

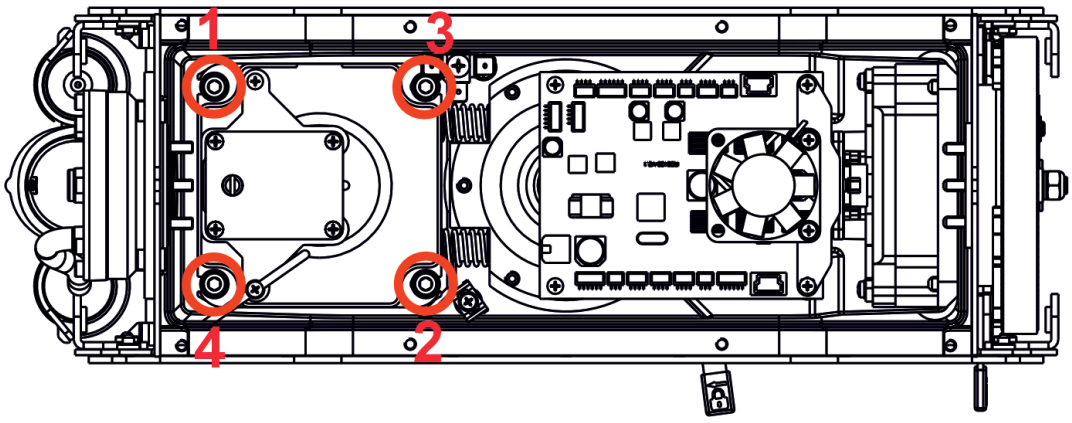


4 x flat head screw M5x16 (stainless)
with sealing ring 5x1.5
Tightening torque*: 2.5 Nm

Screws must be tightened in the order 1-->4,
Use LOXEAL 55.03 (nut locking threadsealing)
on each screw

* Tighten all screws in two steps:
Step 1 - use tightening torque 0.5Nm
(pre-tightening)
Step 2- use tightening torque 2.5Nm
(final tightening)

Pan motor



4 x hex socket head screw M5x20 (stainless) with
washer
Tightening torque*: 2.5 Nm

Screws must be tightened in the order 1-->4.
Use LOXEAL 55.03 (nut locking threadsealing)
on each screw

* Tighten all screws in two steps:
Step 1 - use tightening torque 0.5Nm (pre-tightening)
Step 2- use tightening torque 2.5Nm (final tightening)

17.3 Checking and replacing the silica gel desiccants

The silica gel desiccants are used for humidity indication in the fixture. Dry silica gel has an orange colour, if it is saturated with water, its colour changes to dark grey. If most of silica gel changed colour to dark grey, it has to be replaced.

Unplug the fixture from mains before checking/replacing silica gel desiccant!
Do not check/replace silica gel desiccant in a damp environment (e.g. rain, snowfall)!

Spare desiccants from factory are packaged in a protective foil. Take desiccants out of the protective foil immediately before replacing them in the fixture!
Silica gel may become damp if it is exposed to wet air for longer time.

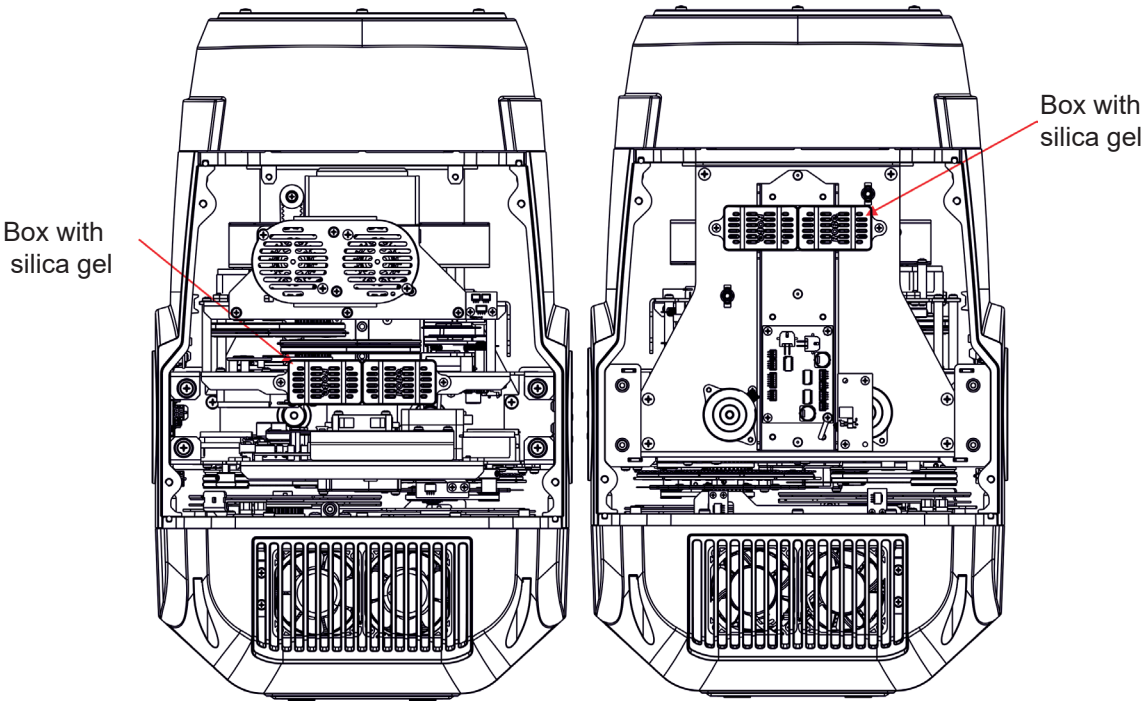
Silica gel is not under warranty!

Desiccants are placed in the fixture on the following places:

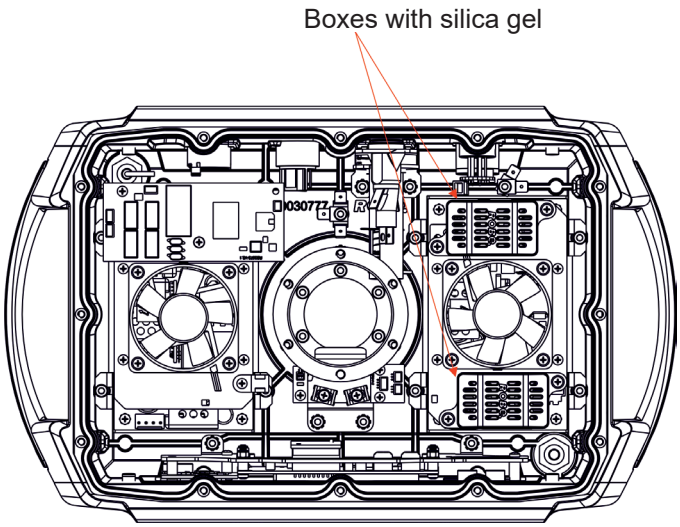
- fixture head - 2 x box with silica gel
- fixture arm without tilt lock - 2 x tube with silica gel
- fixture base - 2 x box with silica gel

Total weight of all silica gel fillings in the fixture is 100 g.

Fixture head



Fixture base

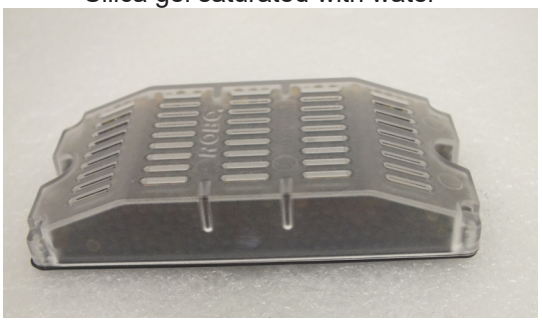


Each silica gel box is fastened in the fixture by means of two screws.
Example:

Dry silica gel



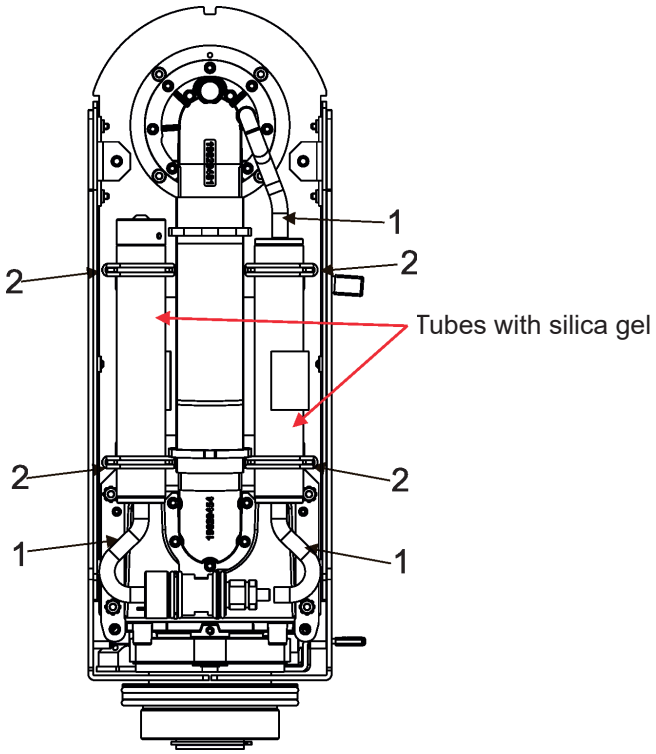
Silica gel saturated with water



The silica gel desiccants in the fixture head should be checked (and alternatively replaced) at removing head covers, e.g. at gobos change.
The silica gel desiccants in the fixture base should be checked (and alternatively replaced) at removing bottom cover e.g. at service intervention.

After checking/replacing boxes with silica gel do not forget to connect grounding wire between chassis and base cover (head cover) at placing the covers back.
After checking/replacing boxes with silica gel, run the procedure Pressure Test (Service -->Pressure Test).
If the pressure test is not OK, check if all screws of head covers (base cover) are correctly tightened.

Fixture arm



To change the tube with silica gel:

1. Disconnect the fixture from mains.
2. Remove the arm cover.
3. Disconnect the hosepipe(s) (1) from the tube with silica gel.
4. Stick out the rubber rings (2) and remove the tube with silica gel.
5. Insert the new tube with silica gel and secure it by means of the rubber rings (2).
6. Connect the hosepipe(s) (1) to the tube with silica gel.
7. Screw the arm cover back.
8. **After connecting the fixture to mains, reset the MAX WET chart (tab Information-->RAINS Status) and run the procedure Pressure Test (tab Service -->Pressure Test).**

If the pressure test failed, check if hose-pipes are correctly put on the tubes with silica gel.

Example of dry silica gel and silica gel saturated with water:

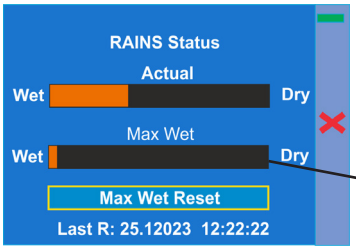




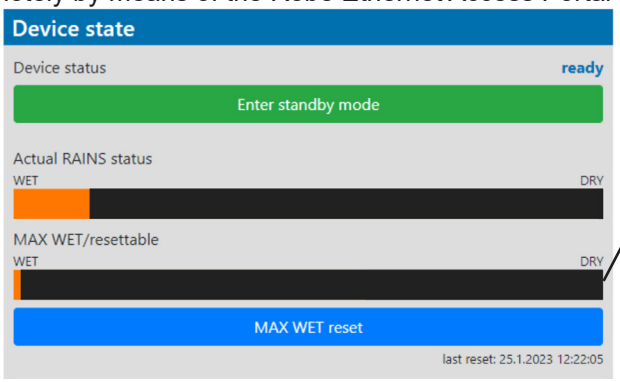
Silica gel saturated with water

Dry silica gel

State of desiccants in the fixture arm can be checked:
- visually by unscrewing the cover of fixture arm
- via fixture display (tab Information, option RAINS Status):



- remotely by means of the Robe Ethernet Access Portal (REAP):



The chart MAX WET is decisive for replacing dessicants in the fixture arm. If the chart has changed to black colour, dessicants have to be replaced.

It is not necessary to replace silica gels desiccants in plastic boxes in the fixture head and base. These desiccants should be checked (and replaced if it is needed) at removing head or base covers, e.g. at gobo replacement or some service intervention.

In case that silica gel in the fixture arm is fully saturated with water, the warning message " **Too Much Humidity in Device**" will appear on the fixture display (yellow warning icon) and also in the Robe Ethernet Access Portal (Logs screen).

Example



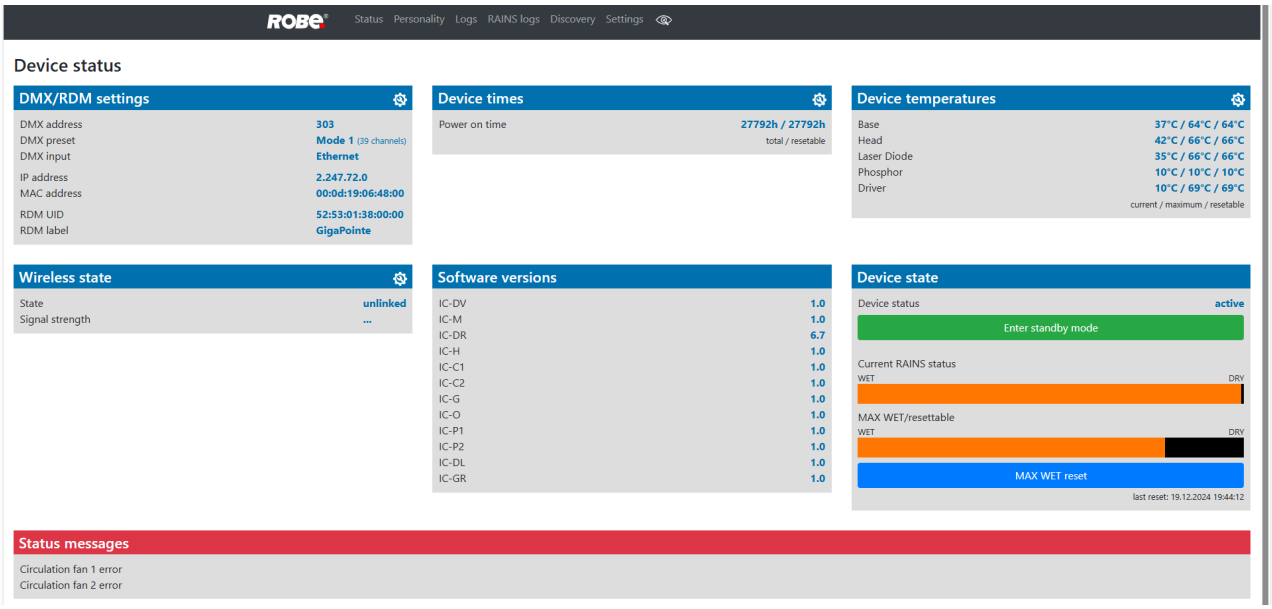
17.4 Disposing of the product

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

18. Robe Ethernet Access Portal (REAP)

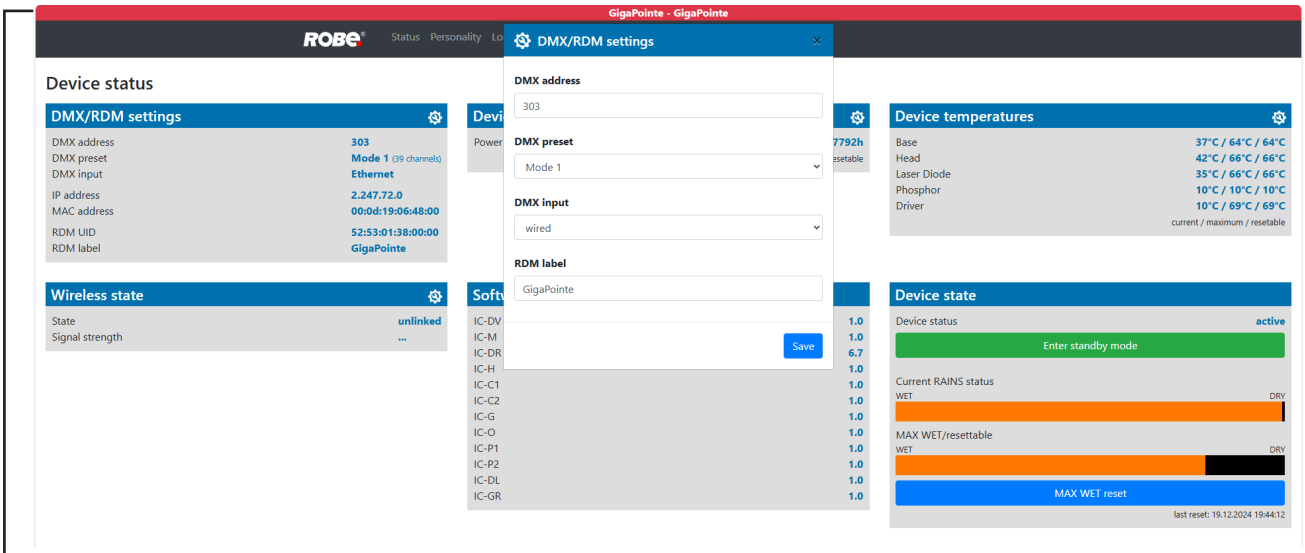
Before running the REAP, your computer needs to be connected to the fixture (s) through the means of Ethernet wired network and a network switch. The computer needs to have configured network settings in order to be able to communicate with the fixture(s) through the network. The Ethernet network connection (Local LAN) typically needs to be set to 2.x.x.x address, the computer IP address has to be set to 2.x.x.x (for example 2.249.20.10) with netmask 255.0.0.0. On the fixture make sure to use the default 2.x.x.x IP address as provided You do not need change any IP settings on the fixture, there is no need to set the fixture into Art-Net mode.

Type the IP address of the GigaPointe to your web browser, e.g. http://2.249.20.10, enter the user name: **robe** and the password: **2479**, the **Status screen** of the GigaPointe will appear.
Example:



This screen gives you a fast overview of fixture settings and environment in the fixture. The icon  allows you to change some values in a corresponding table.

Example for DMX/RDM settings:



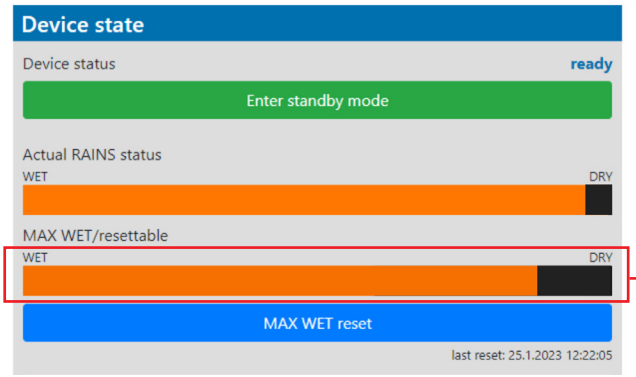
Note.
The background colour of the top raw of the Status screen with the name and RDM label of the fixture denotes state of the fixture:

- fixture is ready for operation
- fixture does not communicate with computer
- fixture with error message(s)

The table "Device state" gives you information about fixture and environment in the fixture.
Device status: **ready** - all fixture resets successfully passed and the fixture is ready for operation.
initialization - fixture is waiting for fixture reset
heating - fixture is waiting for reaching operating temperature of the fixture inside (temperature in the fixture is below 0°C).
standby - the fixture is in standby mode
standby/heating - the fixture is in standby mode and inside of the fixture is heated
The bar chart **Actual RAINS status** informs you about current humidity in the fixture. The bar chart changes depending on humidity, temperature and pressure in the fixture. The bar chart depends on current conditions in the fixture and can be different at start of fixture operation, after 10 minutes of its operating, after closing fixture dimmer etc.
RAINS (Robe Automatic Ingress Neutralization System) manages humidity, temperature and pressure control using an active monitoring system to automatically remove any moisture detected within the fixture and provides permanent monitoring to ensure peak performance of the fixture.

The bar chart **MAX WET/resettable** informs you about maximum humidity achieved in the fixture since the chart was last reset. The bar chart also informs you about saturation of silica gel desiccants in the fixture arm with water and is deciding indicator for their checking and replacement.

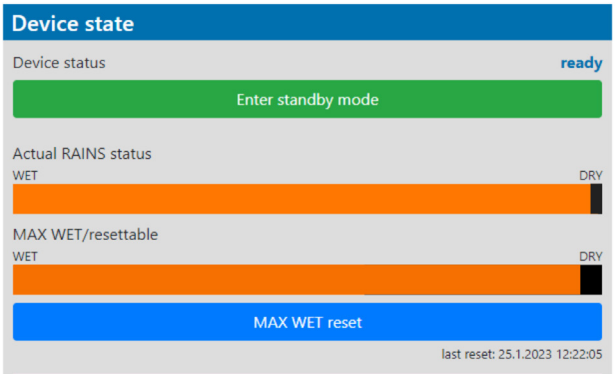
The blue button **MAX WET reset** resets the bar chart MAX WET/resettable. Date and time of last reset is displayed below this button.



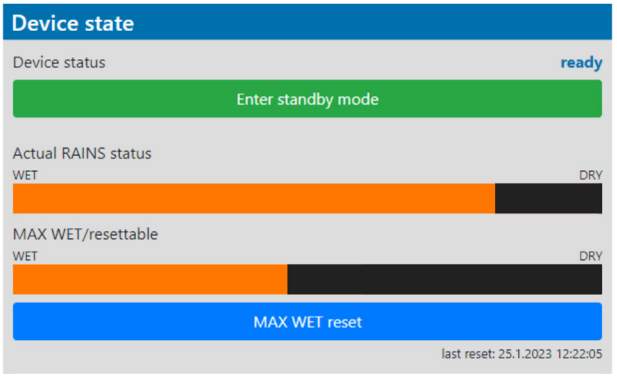
Silica gel desiccants
in the fixture arm



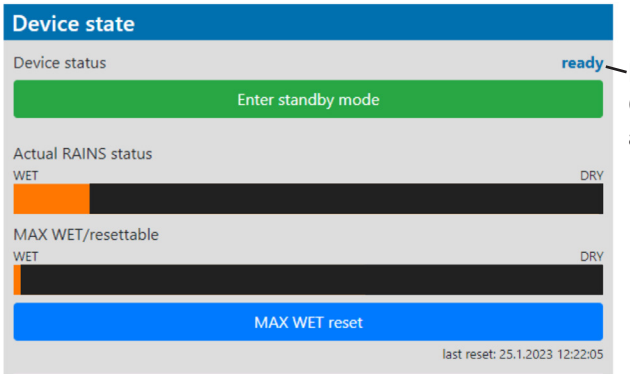
Examples of the table "Device state":



Dry desiccants



Desiccants partially saturated with water

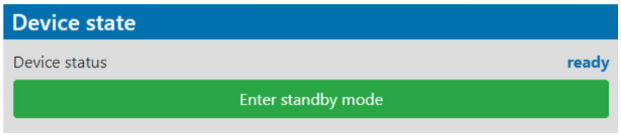


Device status **ready** means, that all fixture resets are OK and the fixture is ready for operation. It does not assess state of desiccants or result of pressure test!

Desiccants fully saturated with water

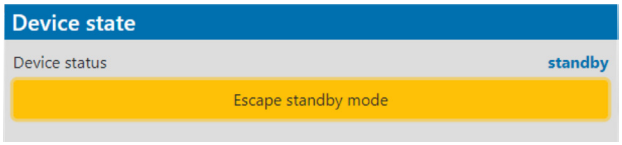
Silica gel desiccants in the fixture arm should be replaced.
After replacing them, reset MAX WET resettable bar chart.
It is not necessary to replace silica gels desiccants in plastic boxes in the fixture head and base. These desiccants should be checked (and replaced if it is needed) at removing head or base covers, e.g. at gobo replacement or some service intervention.

The option **Enter standby mode** allows you to switch the fixture to Standby mode.

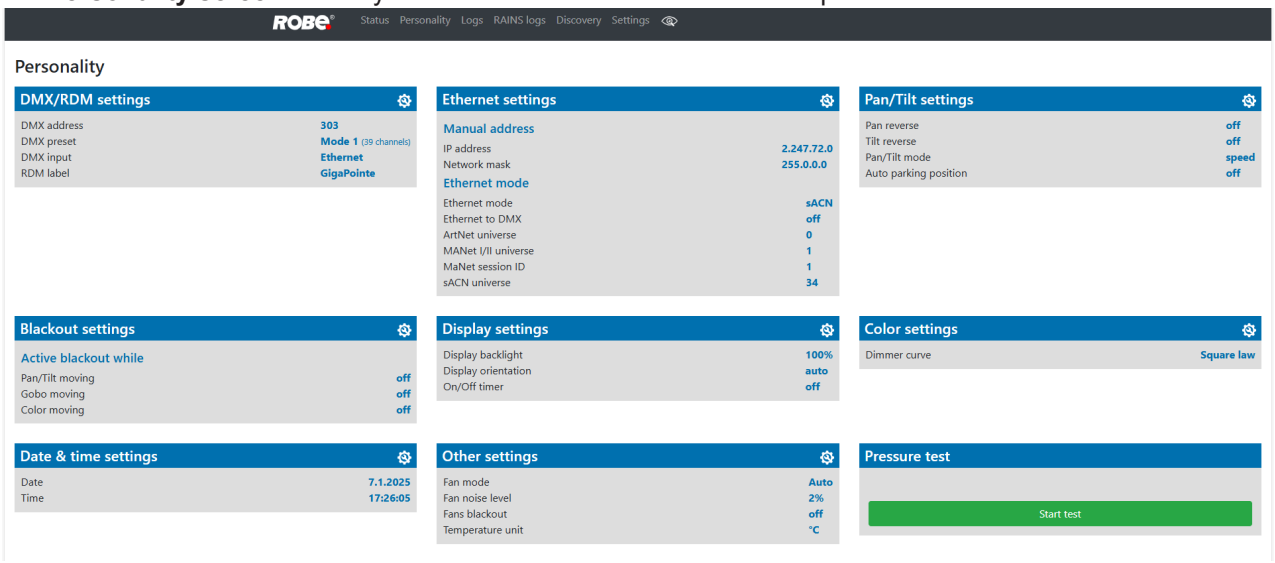


Note: Standby mode helps conserve power when a fixture is not in use, without fully powering it off.
In the Standby mode, all fixture motors and fans are deactivated and light output is closed.
For more information about Standby mode please see the chapter Standby mode.

The option **Escape standby mode** allows you to switch the fixture to the standard operating mode.

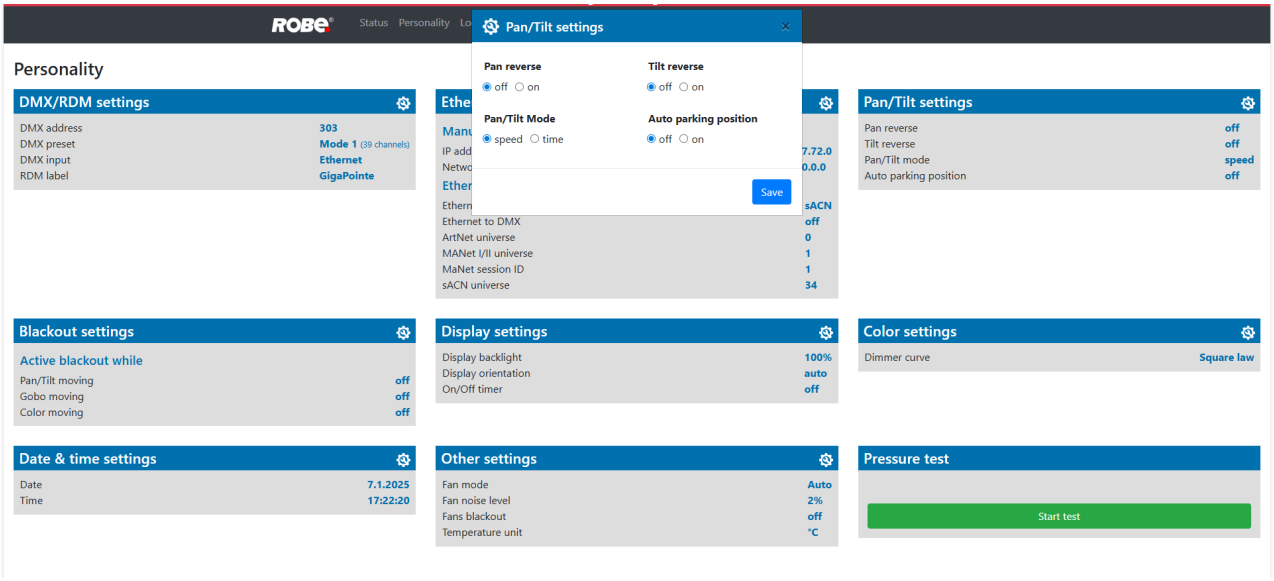


The **Personality screen** allows you to set fixture behaviour and run a pressure test.

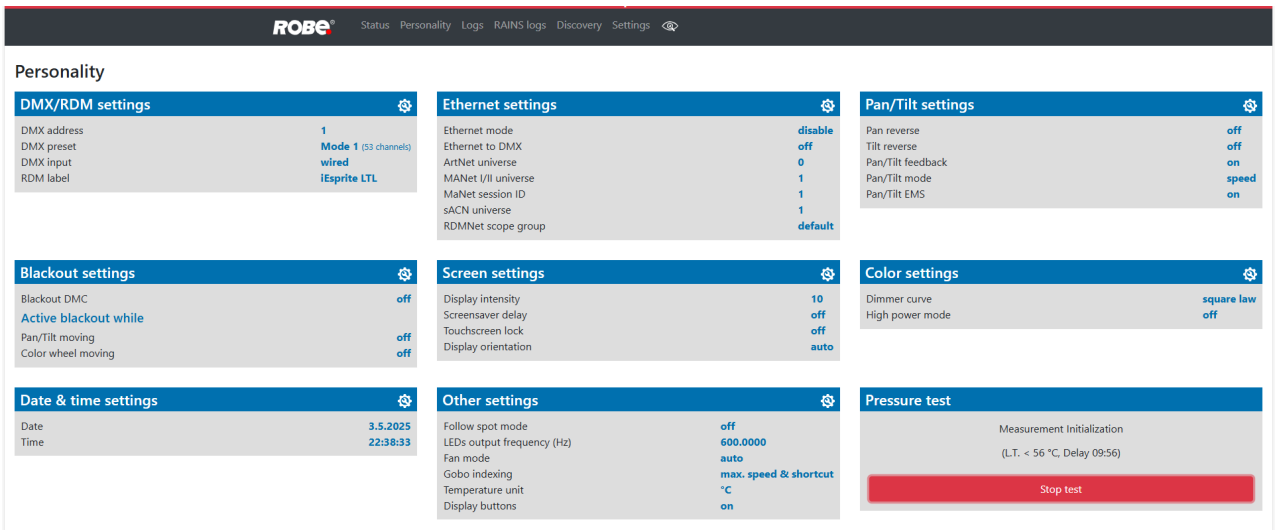


The icon  allows you to change values in a corresponding table.

Example for Pan/Tilt settings:

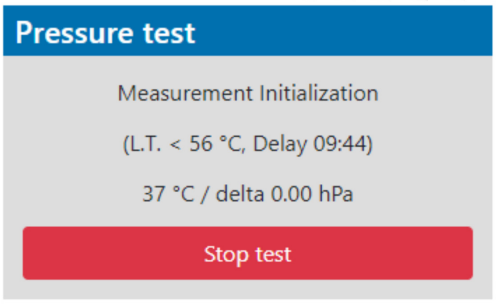


The table "Pressure test " with green button **Start test** allows you to run a procedure which checks IP65 integrity of the fixture. The fixture has to be connected to mains and the head temperature (at pressure sensor) cannot be higher than 55°C. The pressure test lasts about 5 minutes and can be run at earliest 10 minutes after closing light output (shutter closed) of the fixture. The pressure test can be repeated at earliest 2 minutes after last pressure test.

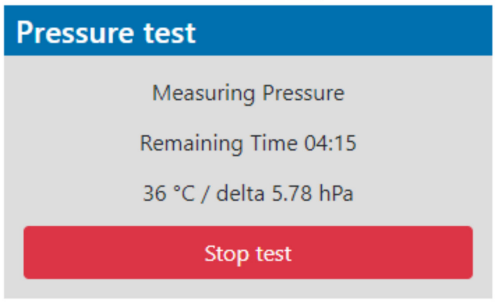


Examples of pressure test messages:

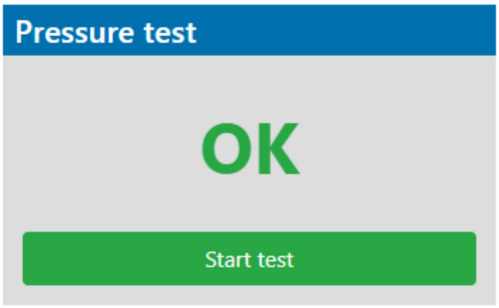
Pressure test is 10 minutes delayed due to fixture cooling



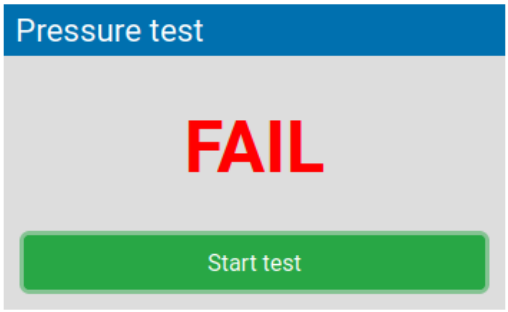
Pressure test is running



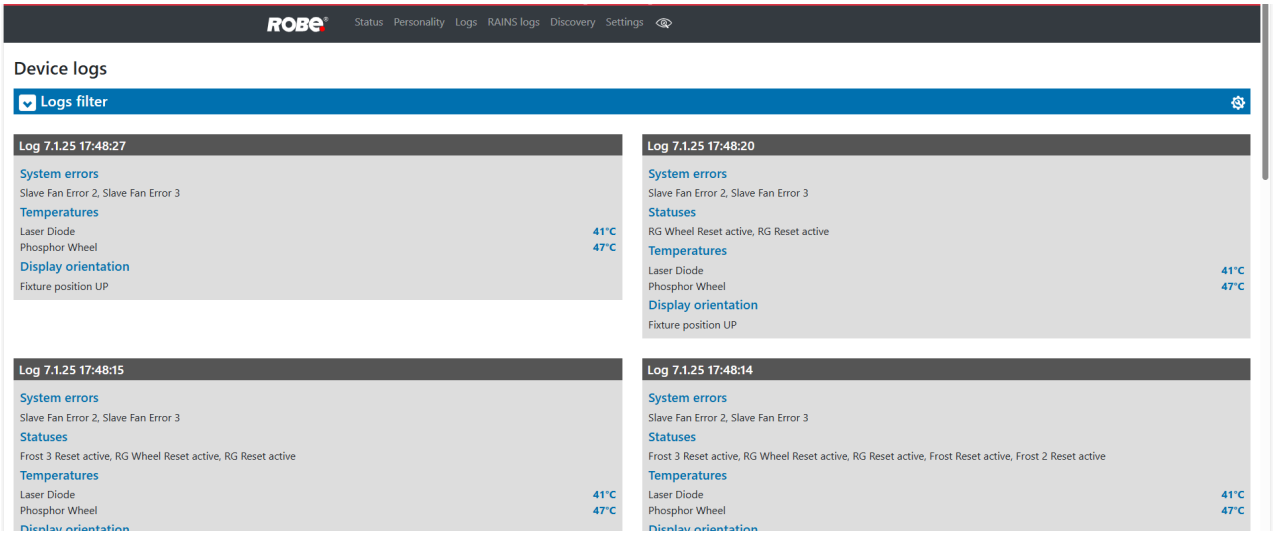
Pressure test passed



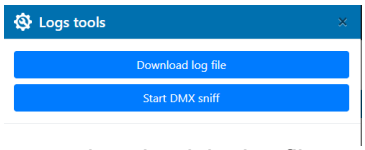
Pressure test failed



The **Logs screen** displays operating information of the fixture which have been saved.



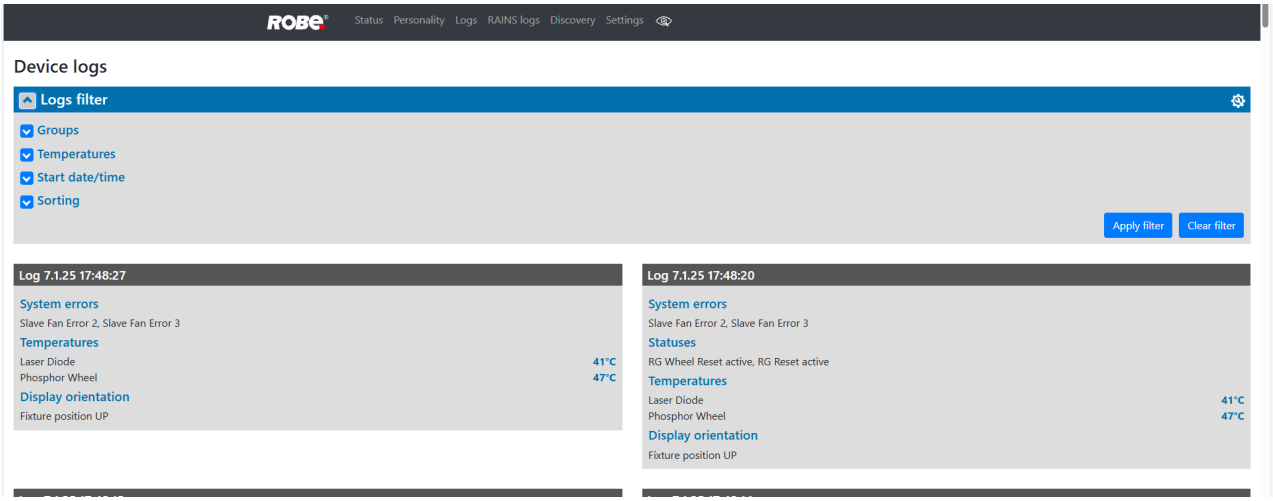
The icon offers you two options:



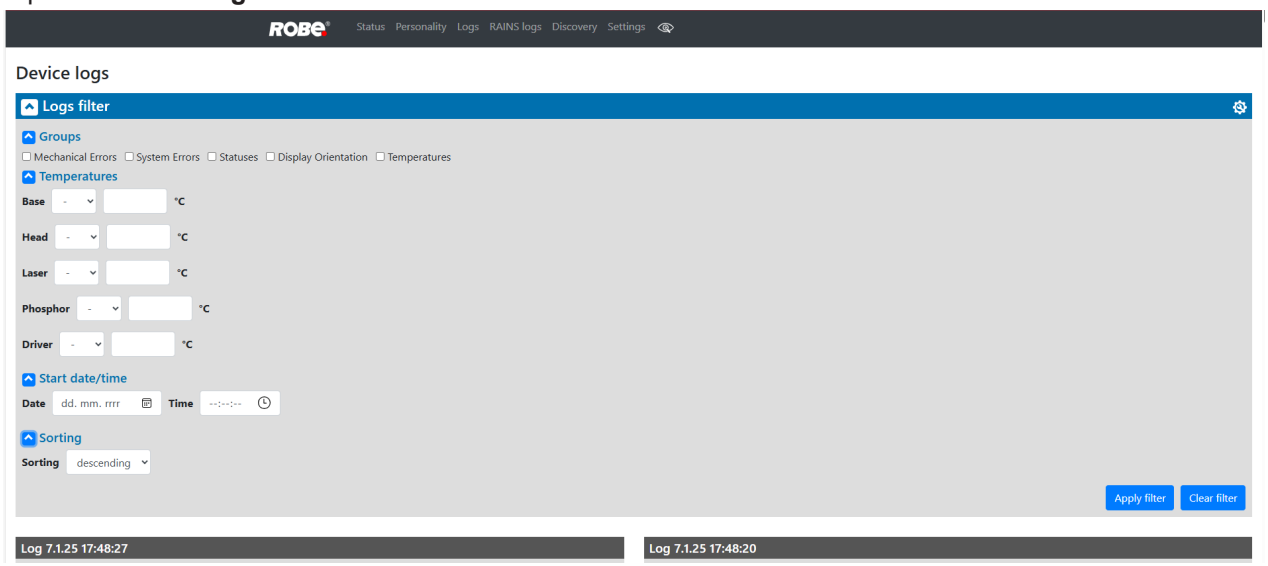
"Download log file" - the option allows you to download the log file to computer, name of the log file is: file-abcd.log, where abcd is a fixture ID (e.g. file-015e.log).

"Start DMX sniff" - the option starts saving coming DMX values to the file, the file name is DMX_sniffer.log). To stop the DMX sniffing, either stop generating the DMX signal on the console, or stop changing the DMX values. When the DMX signal is static for more the 3 seconds, the DMX Sniff will stop automatically. Do not stop the DMX Snif by closing the download in the browser, it may save the file with incorrect data, always let the browser to self-close it when the DMX stops changing.

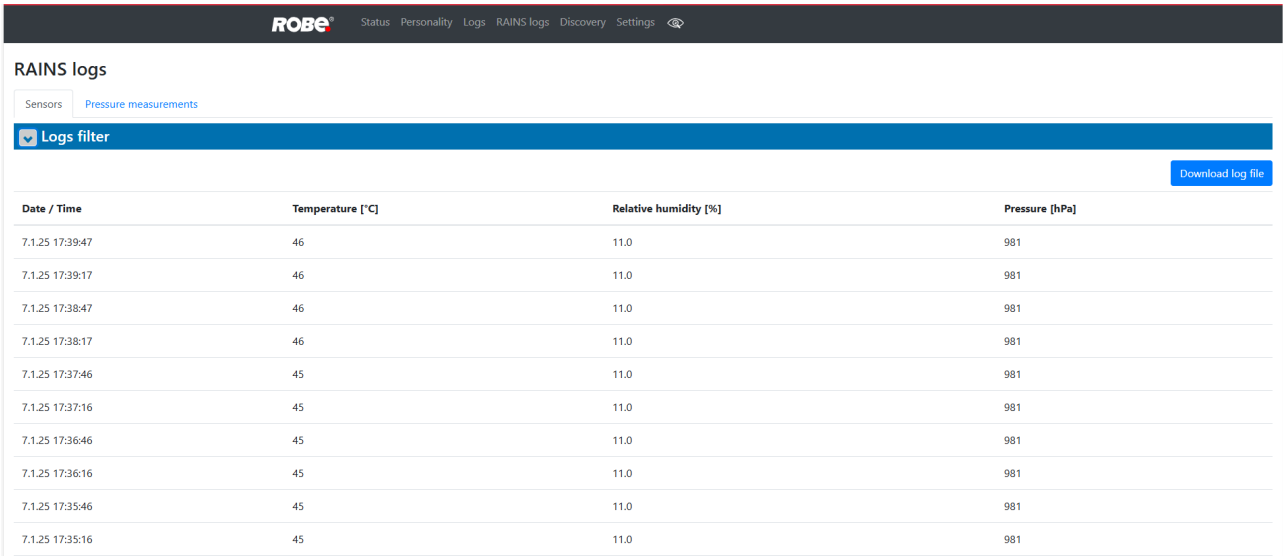
The option **Logs filter** allows you to select desired group of recorded errors and recorded operating values.



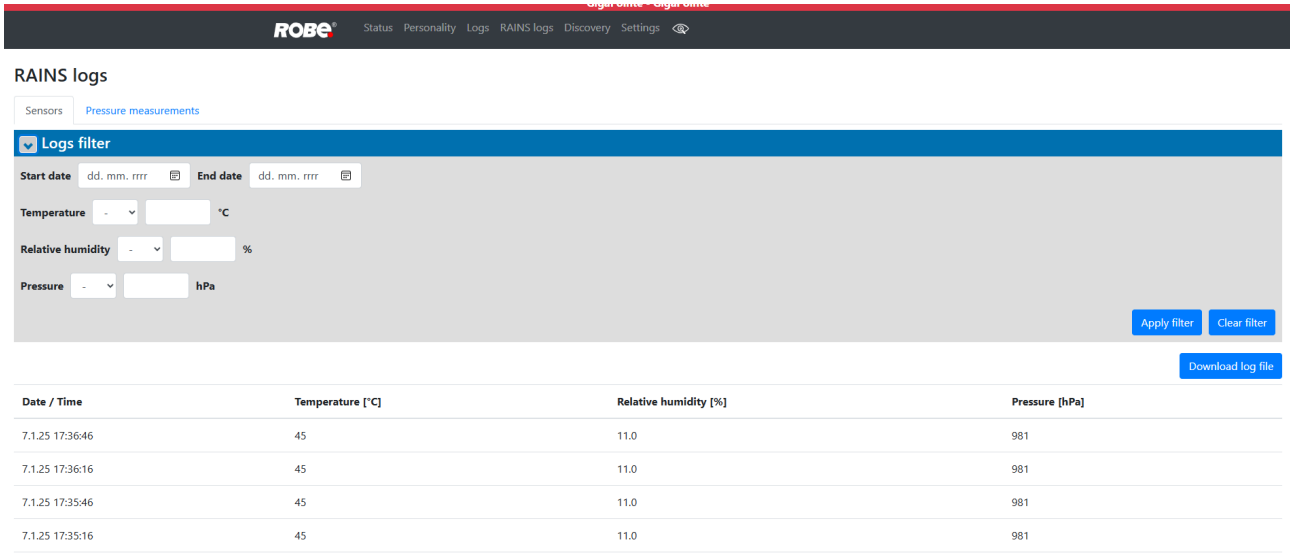
Expanded menu **Logs filter**



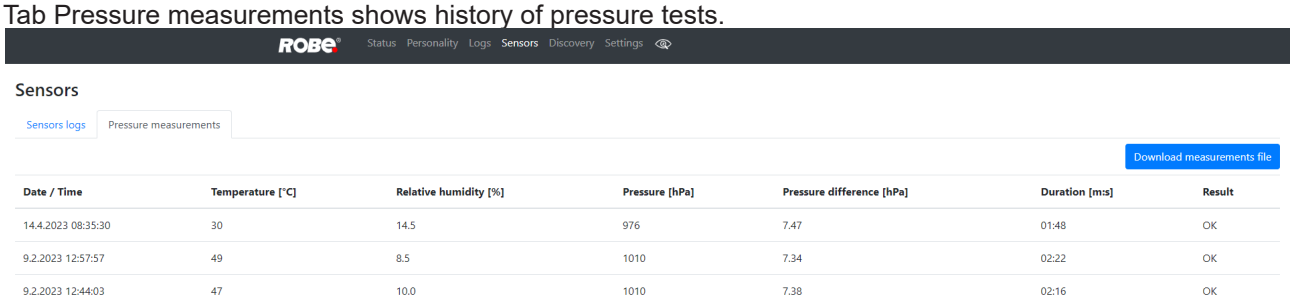
The **screen RAINS Logs** offers you a list of physical values recorded by sensors inside the head.



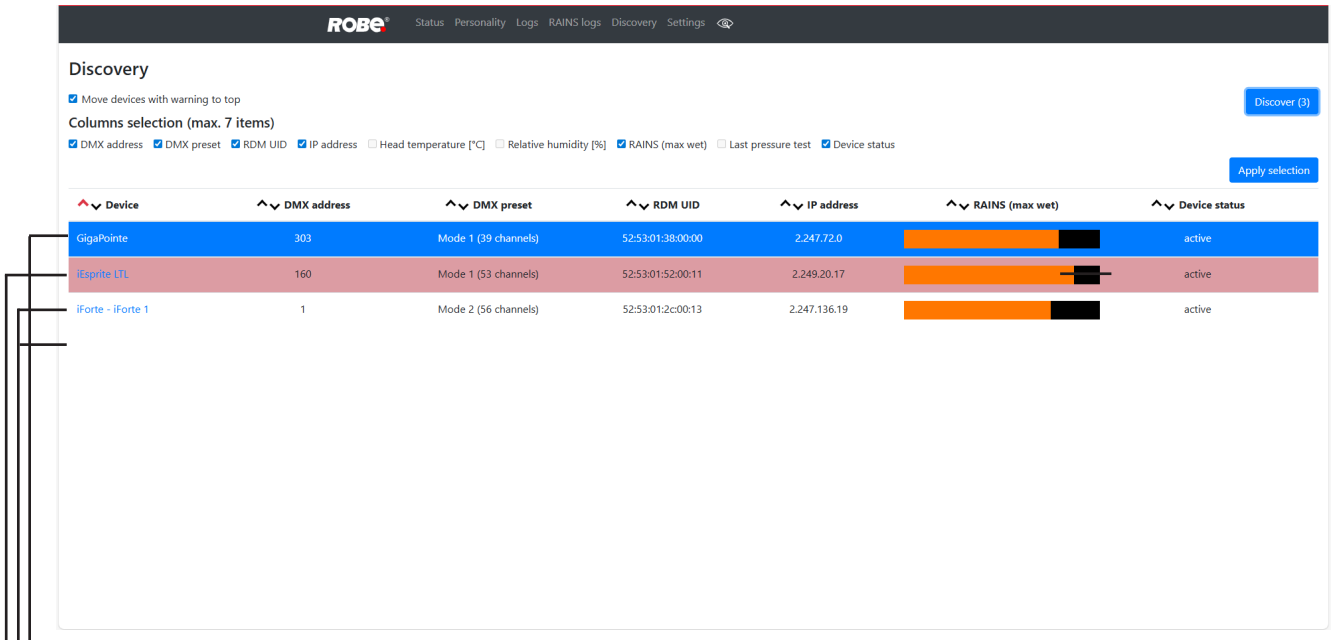
You can select range of temperature, humidity and pressure in desired time interval.



Tab Pressure measurements shows history of pressure tests.



If you have two and more fixtures, the **Discovery screen** allows you to show all connected fixtures in network. Click on the blue button Discover and fixtures connected in the network will be displayed.



The background colour in the device row denotes state of the fixture:

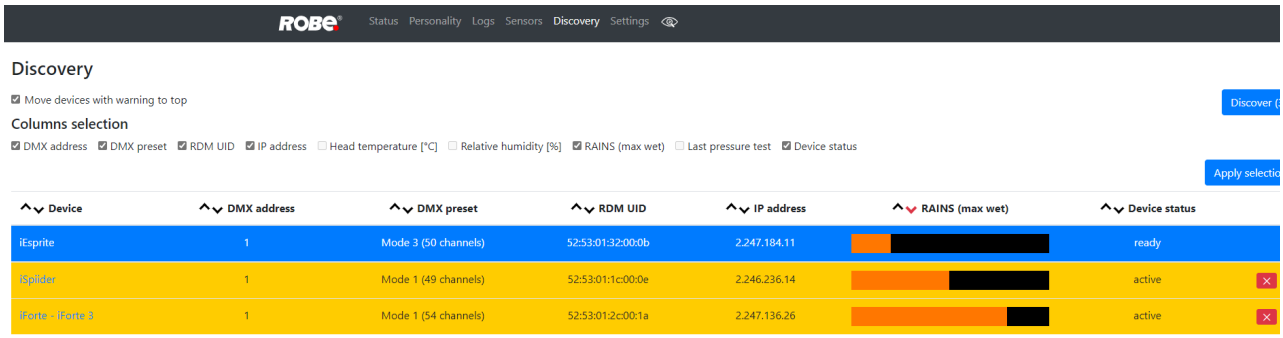
indicates "server fixture"(fixture of which IP address you have written to your WEB browser).

indicates fixture ready for operation.

indicates fixture which does not communicate with computer or "server fixture".

indicates fixture with error messages.

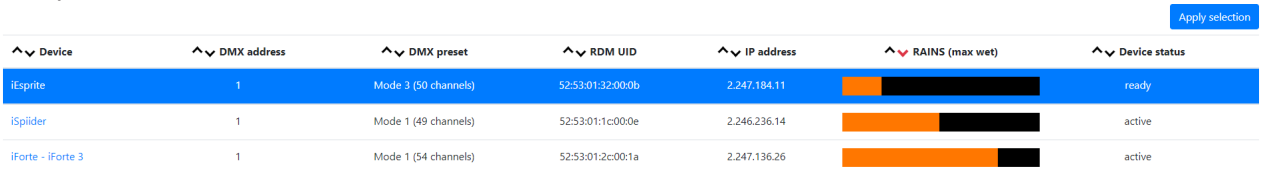
Example: Fixtures which do not communicate with computer are indicated by yellow background.



If the option Move devices with warning to top is checked, fixtures with some error will be displayed on the top of fixture list.

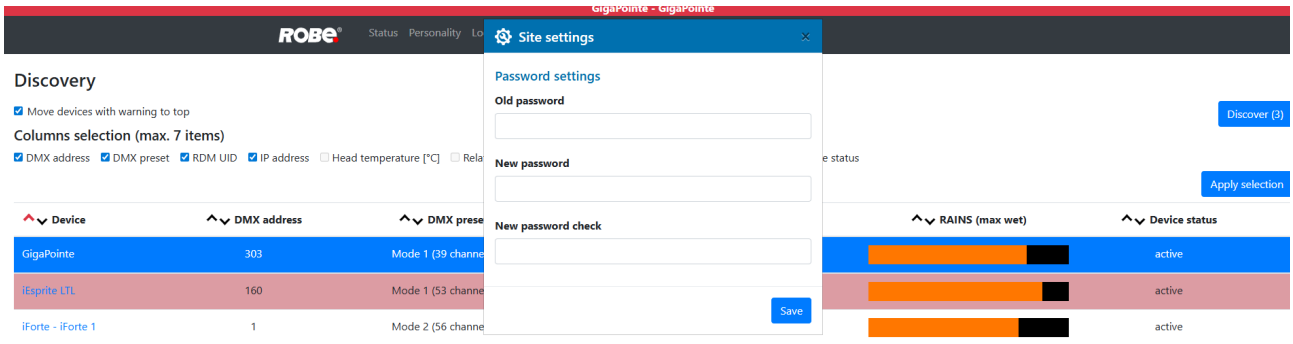
The option Columns selection allows you to check desired items which will be displayed in columns. Max. 6 items can be selected. After checking desired items, click on the blue button Apply selection to activate selection.
Icons ^v allows you to order values in the column in descending or ascending order.
Note: The values of the fixture in the first blue row ("server fixture") will not be included into ordering.

Example.



Item **ready** in the column Device status does not assess state of desiccants or result of pressure test!

The **screen Settings** allows you to change password to REAP.



The icon  serves for identification of the fixture in a group of fixtures. After clicking on the icon, the fixture´s head will start to move.

19. Technical Specifications

Electrical

Power supply: electronic auto-ranging
Input voltage range: 100-240V, 50-60Hz
Fuse: T 6.3 A
Inrush current: < 40 A @ 115 Vac & 230 Vac (cold start)
Max. power consumption: 500W (Power factor 0.96)

Optic

Light source: LSW-3™ 350W White phosphor laser source
Colour temperature: 7 000K
CRI: 70
Light source warranty: 3 years or 12 000 hours

Colour wheel

f3 dichroic filters (deep red, deep blue, yellow,light green, magenta, lavender, pink, dark green, CTO 2700K, blue, orange, CTO 3200K, Kongo blue) + white

CMY mixing module

Smooth CMY colour mixing system

Virtual colour wheel

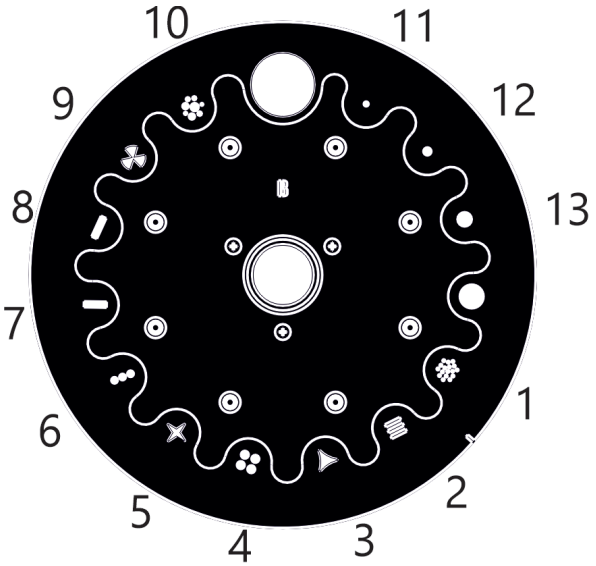
70 preset colours

Effect wheel

Aluminium effect wheel rotating in both directions with variable speed

Static gobo wheel

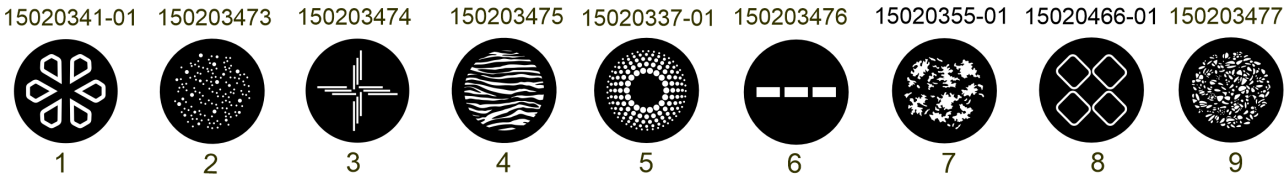
10 metal gobos and 3 beam reducers
Gobos order:



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=15.9 mm, image diameter=12.5 mm, thickness=1.1 mm, high temperature borofloat or better glass
"Slot&lock" system for easy replacement of gobos

Gobos order:



Note. Steel (or aluminium) gobos cannot be used due to thermal stress.

Prism wheel 1

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

Prism wheel 2

Rotating 6-facet linear multicolour 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

Frost filters

Two separate,variable frost filters (light (1°) and medium (5°))
Both filters are replaceable

Zoom

Motorized zoom
Range 1.8° - 46°

Strobe

Strobe effect with variable speed (0.3 - 20Hz)

Dimmer

Smooth dimmer from 0 - 100 % (8 or 16 bit (internal 18 bit))

Control

Graphic screen and ROBE Navigation System 3
Gravitation sensor for auto screen positioning
Built-in demo sequences
Stand-alone operation
3 user editable programs, each up to 100 steps
Supported protocols: USITT DMX 512-A, RDM, RDMnet, ArtNet, MANet, MANet2, sACN
Support of RDM (Remote Device Management)
Three DMX modes (39/41/44 control channels)

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

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

Max. number of fixtures in Ethernet IN/Out line

8

Battery

Size: AA (R6)
Type: IFR 14500, 600mA/3.2V

Pan/Tilt

Pan movement range 540°
Tilt movement range 265°
16-bit movement resolution
Electronic Motion Stabilizer system for Pan & Tilt (EMS™)
Automatic Pan/Tilt position correction
Motionless absolute positioning system for Pan and Tilt (MAPS™)
Remotely controllable speed of pan/tilt movement for easy programming
Pan/tilt-lock mechanism

Rigging

Mounting points: 4 pairs of 1/4-turn locking points
Mounting horizontally or vertically via 2 Omega brackets

Connection

DMX data In/Out: 2 x IP65 Locking 5-pin XLR connector Seetronic
AC power In: IP65 power connector Seetronic
Ethernet In/Out: 2 x IP65 RJ45 connector Seetronic

Temperatures

Minimum/Maximum ambient operating temperature : -50°C/+50°C
Maximum housing temperature : 75° C

Hazard distance

Min. 35 m

Minimum distances

Minimum distance from fixture to flammable surface: 1 m
Minimum distance between the front lens of the fixture and the illuminated surface: 18 m
Minimum distance between the front lens of the fixture and the illuminated surface: 8 m (Close Proximity mode On)*

* the Close Proximity mode is available by the menu "Personality" or by DMX command on the channel "Power/ special functions".

Total heat dissipation

max. 1280 BTU/hr (calculated)

Ingress protection rating

IP65

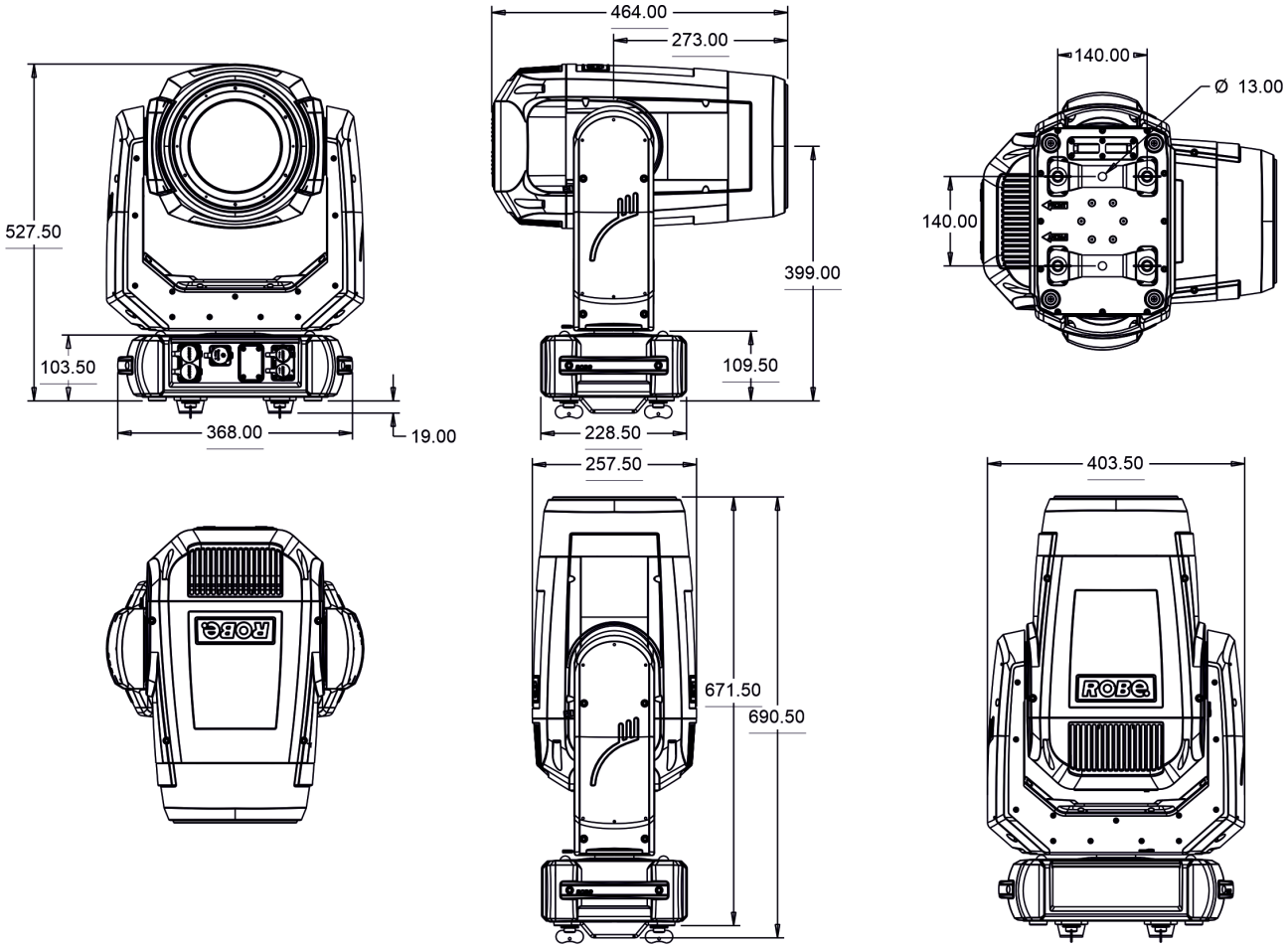
Desiccants

Total weight of all silica gel fillings in the fixture: 100 g

Weight

25 kg (55.1 lbs)

Dimensions (mm)



Accessories

1 x Omega adaptor CL-regular 2 pcs in box (P/N 10980033)
1 x Power cable including powerCON TRUE1 In connector (IP 65 rating)

Optional accessories

(P/N 17030386) Doughty Trigger Clamp
(P/N 10980690) Frost 0.5° (exchange) assembled
(P/N 10980691) Frost 1° (exchange) assembled
(P/N 10980758) Frost 3,5° (exchange) assembled
(P/N 10980693) Frost 10° (exchange) assembled
(P/N 10980694) Frost 20° (exchange) assembled
(P/N 10980695) Frost 30° (exchange) assembled
(P/N 99011957) Safety wire 50 kg
(P/N 10980184) Omega Adaptor T CL - 2pcs

20. ChangeLog

This section summarizes changes in the user manual.

Version of the manual	Date of issue	Description of changes
1.1	03/03/2026	Rot. Prism wheel 2 center and spacial projection added, safety warning changed.
1.2	02/04/2026	LEDS frequency menu added
1.3	19/05/2026	Reduced Mode added, RG3 added
1.4	25/05/2026	Safety instructions changed
1.5	01/06/2026	Error messages changed
1.6	05/06/2026	Safety instructions changed
1.7	15/06/2026	Hazard distance changed
1.8	25/06/2026	Safety instructions changed
2.0	25/08/2026	Pan/Tilt safety zone added
2.1	30/09/2026	Replacement of the laser light source added

September,30 2026
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All Specifications subject to change without notice
Made in CZECH REPUBLIC by ROBE LIGHTING s.r.o. Palackeho 416/20 CZ 75701 Valasske Mezirici

21. Apendix- replacement of the laser light source

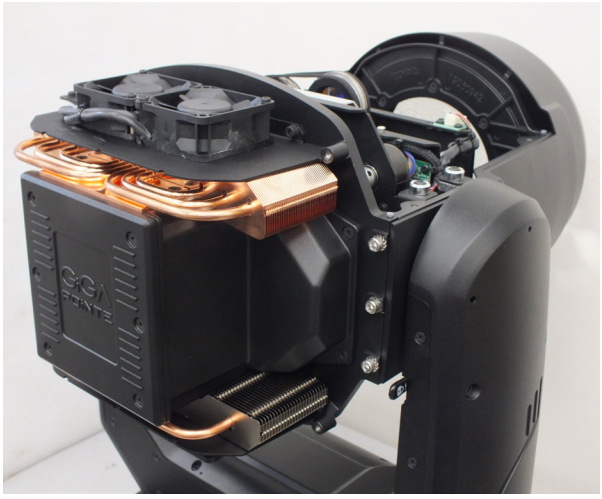
The replacement of the laser light source should be performed only by trained service worker.

Do not remove covers of the laser source!
Unplug the fixture from mains before replacing the laser light source!

REMOVING THE LASER LIGHT SOURCE FROM THE GIGAPOINTE.

1. Disconnect the fixture from mains and allow it to cool about 30 minutes.
2. Remove the rear head cover (1) and both front head covers (2) of the fixture head.

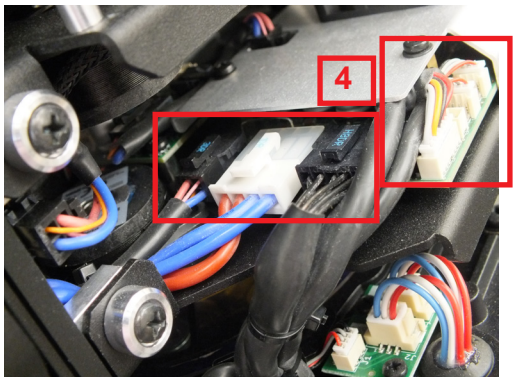




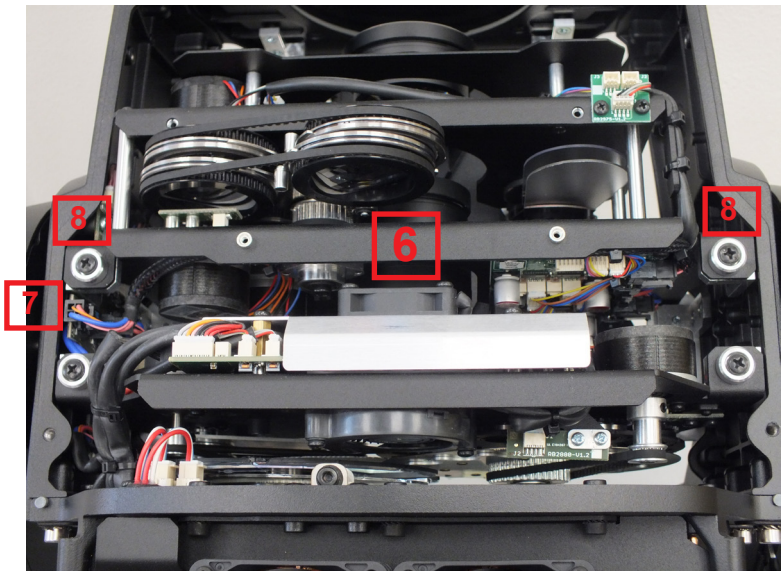
3. Disconnect cables (4) from the gobo module (3), unscrew two screws (5) and remove the gobo module from the chassis.



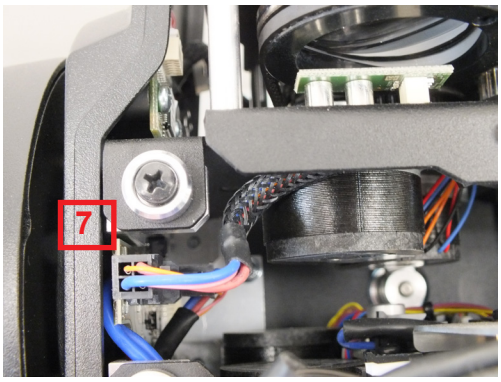
Detail



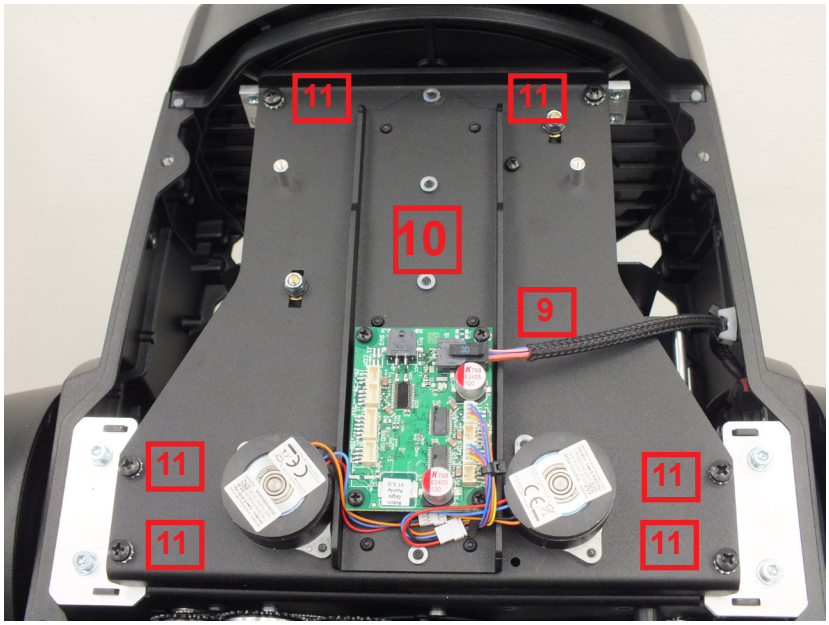
4. Disconnect the cable (7) from the prism module (6), unscrew two screws (8) and remove the prism module from the chassis



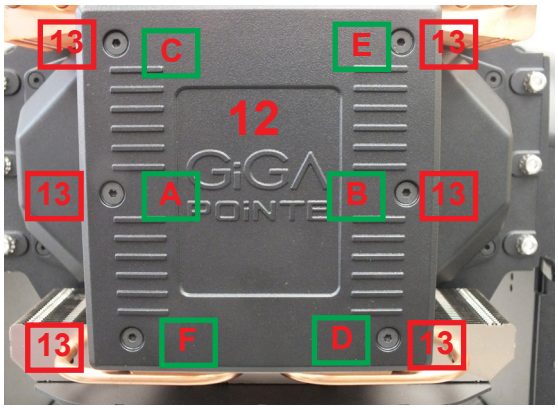
Detail



5. Disconnect the cable (9) from the zoom/focus module (10) and remove the zoom/focus module (10) from the chassis by unscrewing the 6 screws (11).

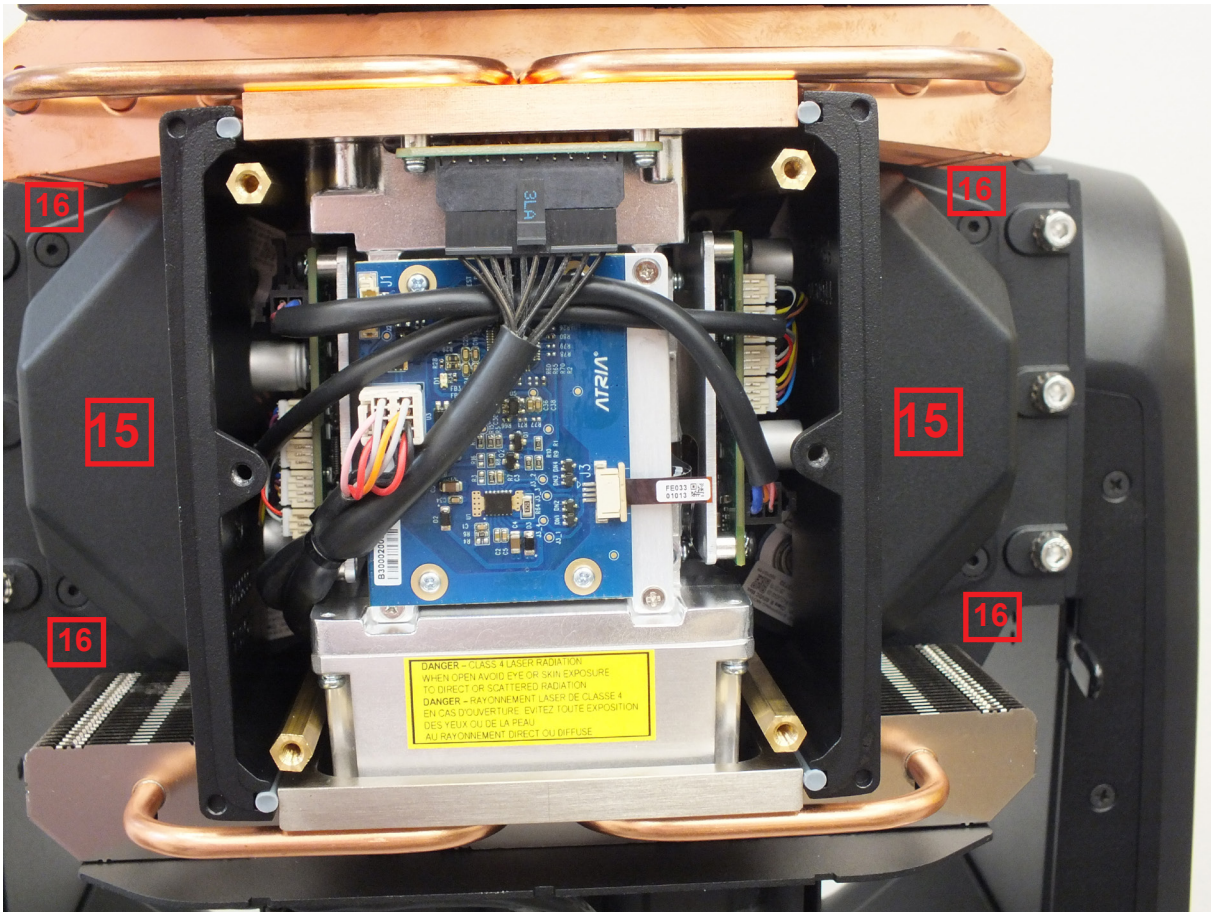


6. Remove the rear cover of the light source module by unscrewing 6 screws M4x12 with rubber o-rings (tightening torque 1.8 Nm for reassembly, crews must be tightened in the order A-->E).
Carefully check the gasket (14) for signs of deformities or damages and if it is correctly placed before screwing the rear cover back.



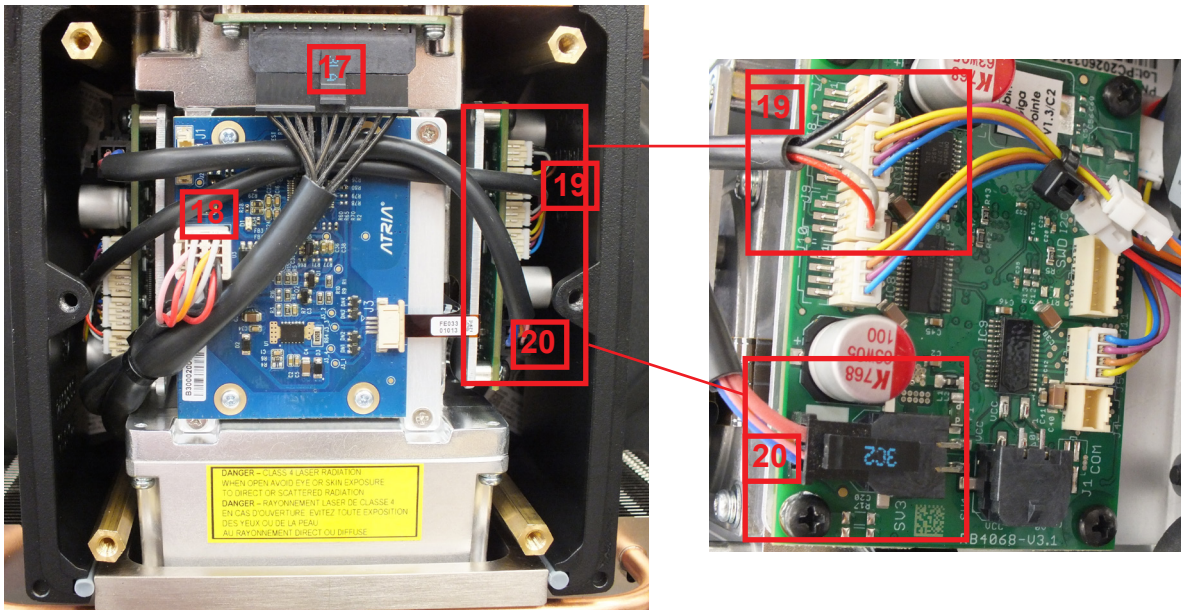


7. Remove both side covers (15) of the light source module by unscrewing two screws M4x12 (16) with washers on each side of cover (15), (tightening torque 1.8 Nm for reassembly.
Carefully check the gaskets (17) for signs of deformities or damages and if they are correctly placed before screwing the side covers back.

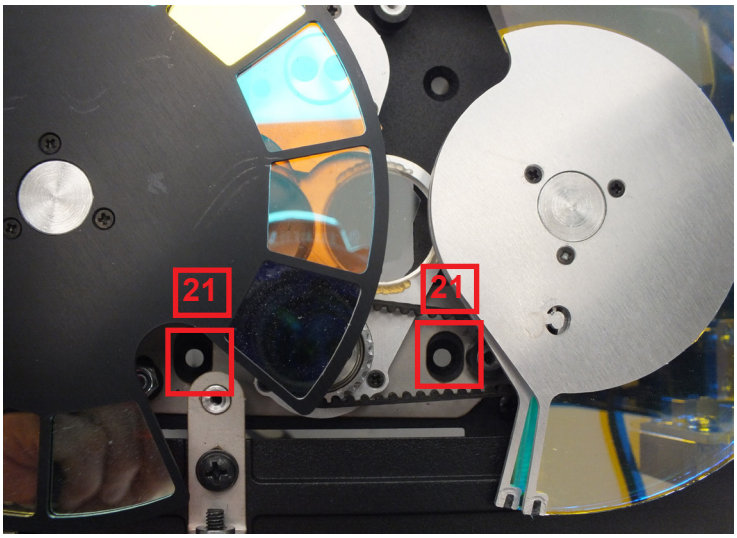


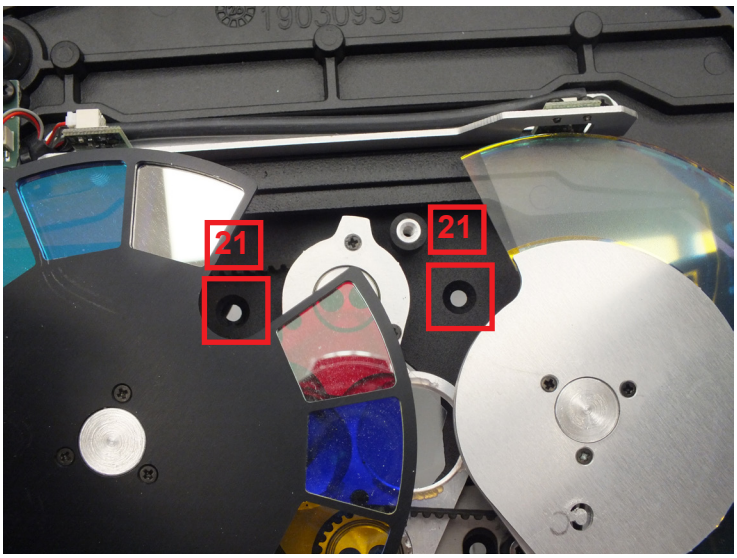


8. Disconnect cables (17, 18, 19, 20) from connectors.

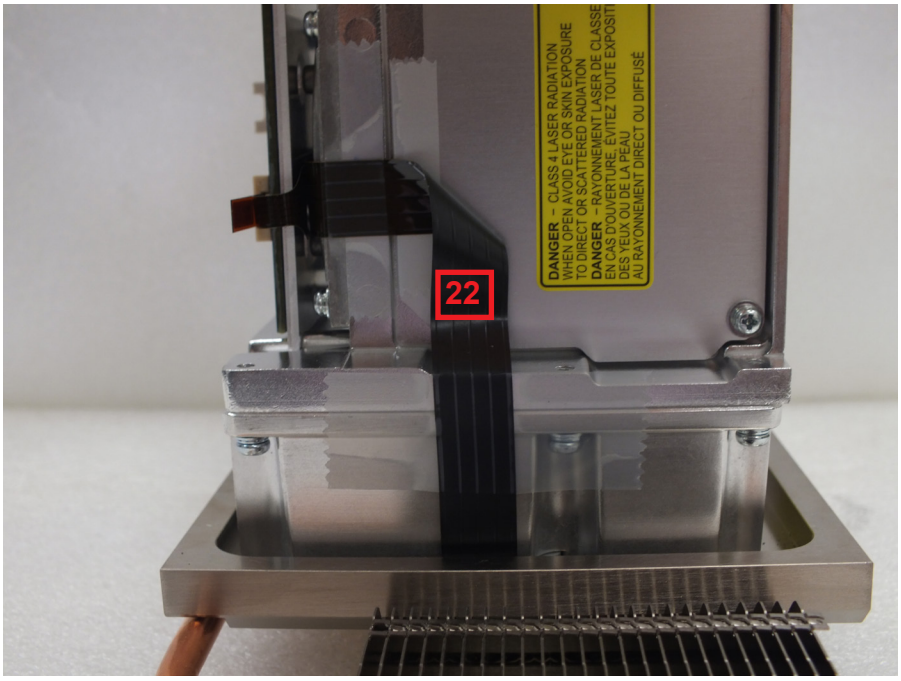


9. Unscrew the four screws M4x8 (21) holding the light source in the head (from side of colour wheels, (tightening torque 1.8 Nm for reassembly) and carefully remove the laser light source with heatsink from the head. **Important. The head has to be in a horizontal position to prevent the light source from accidentally falling out from the head.**

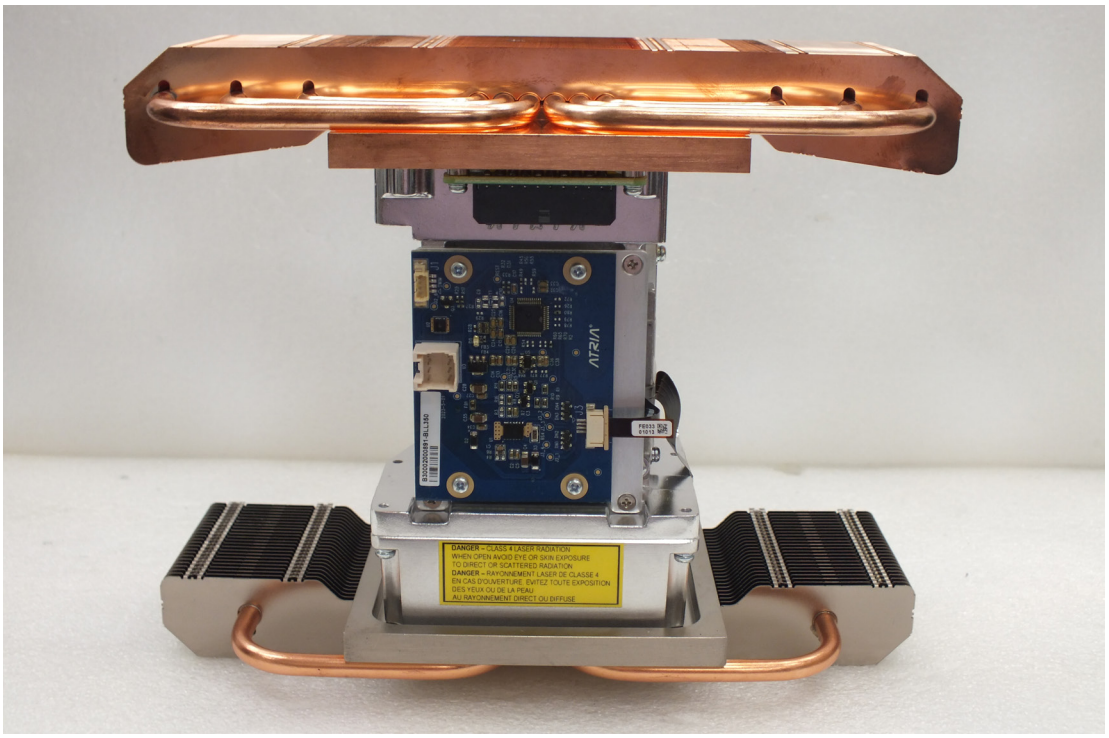




Be careful. Do not damage the flat cable (22) from the laser light source during taking the laser light source out from the head.



The laser light source with heatsink.



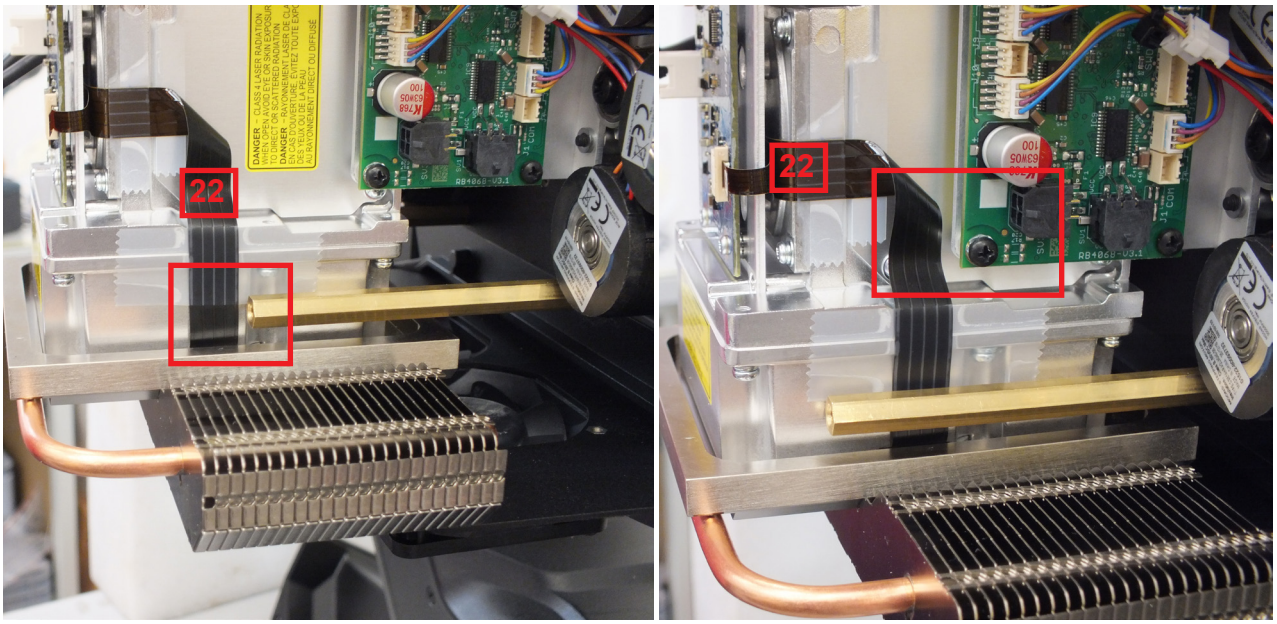
Do not remove the heatsink from the laser light source.
Do not dismantle the laser light source!

REINSTALLATION OF THE LASER LIGHT SOURCE BACK TO THE GIGAPOINTE

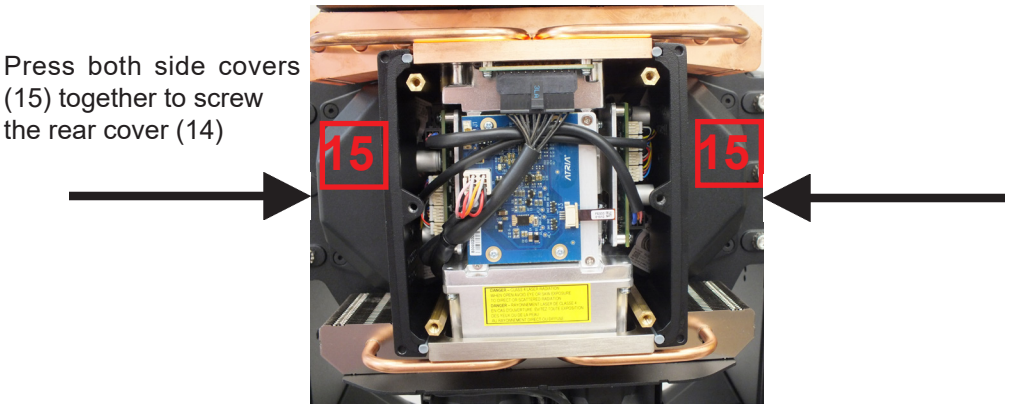
Proceed with assembly in the reverse order of disassembly.

Important notices

1.Be careful at inserting the laser light source back to the head, do not damage the **flat cable (22)**



2.To screw the rear cover (14) of the laser light source on the side covers (15), press both covers together.





3. After assembling and connecting the fixture to mains, run the procedure Pressure Test (tab Service -->Pressure Test).

Robin GigaPointe® - DMX protocol					
Version: 2.1			**Mode 1**-MegaPointe (Mode 1), **Mode 2** - GigaPointe Standard, **Mode 3** - GigaPointe Full		
Mode/Total channels			**DMX Value**	**Function**	**Type of control**
1/39	**2/**41	**3/**44			
1	**1**	**1**		**Pan**	
			0 - 255	Pan movement by 540° (128=default)	proportional
2	**2**	**2**		**Pan Fine**	
			0 - 255	Fine control of pan movement (0=default)	proportional
3	**3**	**3**		**Tilt**	
			0 - 255	Tilt movement by 265° (128=default)	proportional
4	**4**	**4**		**Tilt fine**	
			0 - 255	Fine control of tilt movement (0=default)	proportional
5	**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**	**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 at least 3 sec. („Shutter,Strobe" channel 37/39/37 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
			30-49	Reserved	
			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
			80-84	Autofocus: On	step
			85-89	Autofocus: Off	step
			90-94	Pan/Tilt mode: Speed	step
			95-99	Pan/Tilt mode: Time	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
			108-109	Pan/tilt speed: Maximum	step
			110-111	Pan/tilt speed: MegaPointe compatible	step
			112-113	Standby mode: On (fixture effects are deactivated, light output is closed)	step

Mode/Total channels			**DMX Value**	**Function**	**Type of control**
1/39	**2/**41	**3/**44			
			114-115	Standby mode: Off	step
			116-117	Pressure test: On (fixture does not respond to DMX during the test except values 118-119 (Pressure test Off))	step
			118-119	Pressure test: Off	step
			120-124	Parking position: On	step
			125-129	Parking position: Off	step
				To activate following functions, stop in DMX value for at least 3 seconds.	
			130-139	Reserved	
			140-149	Pan/Tilt reset	step
			150-159	Colour system reset	step
			160-169	Gobo wheels reset	step
			170-179	Reserved	
			180-189	Zoom/focus/frost/prism wheels reset	step
			190-199	Effect wheel reset	step
			200-209	Total fixture reset	step
			210-222	Quiet mode - fan noise control from min. to max.	proportional
			223	Quiet mode disabled	step
				The following three commands define transition from gobo rotation to gobo indexing:	
			224-225	Gobo indexing: Maximum speed and shortcut	step
			226-227	Gobo indexing: Follow speed and direction	step
			228-229	Gobo indexing: Maximum speed and follow direction	step
			230-239	Reserved	
				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**	**40**		**Advanced features control**	
			0	No function (0=default) - *fixture utilizes PWM frequency set in the display menu (item Frequency Setup).*	step
				PWM output frequency of LEDs	
				To select PWM output LED frequency, stop in DMX value for at least 3 seconds. Selected PWM frequency (except 25 kHz) can be fine adjusted in 60 steps up/down around selected PWM frequency (without 3 seconds waiting). Corresponding menu item is temporarily overridden.	
			1	600 Hz - *factory display menu setting*	step
			2	Reserved	
			3	2400 Hz	step
			4	Reserved	
			5	High (25 kHz) - *cannot be fine adjusted*	step
			6-8	Reserved	
			9	LED Frequency (step -60)	step
			10	LED Frequency (step -59)	step
			11	LED Frequency (step -58)	step
			:	:	:
			66	LED Frequency (step -3)	step
			67	LED Frequency (step -2)	step
			68	LED Frequency (step -1)	step

Mode/Total channels			**DMX Value**	**Function**	**Type of control**
1/39	**2/**41	**3/**44			
			69	Selected LED Frequency *(default for selected frequency)*	step
			70	LED Frequency (step +1)	step
			71	LED Frequency (step +2)	step
			72	LED Frequency (step +3)	step
			:	:	:
			127	LED Frequency (step +58)	step
			128	LED Frequency (step +59)	step
			129	LED Frequency (step +60)	step
			130-255	Raw DMX	proportional
7	**8**	**7**		**Cyan**	
			0 - 255	Cyan from min. saturation --> full cyan (0=default)	proportional
8	**9**	**8**		**Magenta**	
			0 - 255	Magenta from min. saturation --> full magenta (0=default)	proportional
9	**10**	**9**		**Yellow**	
			0 - 255	Yellow from min. saturation --> full yellow (0=default)	proportional
*	**11**	**41**		**Virtual CTO**	
			0 - 255	Colour temperature change from 7 000K --> 2 700K (0=default)	proportional
*	*	**42**		**Virtual Green Correction**	
			0	Uncorrected white	step
			1-127	Minus green --> uncorrected white	proportional
			128	Uncorrected white (128=default)	step
			129-255	Uncorrected white --> Plus green	proportional
10	**12**	**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/Total channels			**DMX Value**	**Function**	**Type of control**
1/39	**2/**41	**3/**44			
			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	Reserved	
			250 - 255	Auto random colour selection from fast to slow	proportional
11	**13**	**11**		**Colour wheel - fine positioning**	
			0 - 255	Fine positioning (0=default)	proportional
12	**14**	**12**		**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/Total channels			**DMX Value**	**Function**	**Type of control**
1/39	**2/**41	**3/**44			
			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	**15**	**13**		**Effect Speed**	
				Speed of Cyan/ Magenta/Yellow movement	
			0-255	Speed of CMY movement from max. to min. (0=default)	proportional
14	**16**	**14**		**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	**17**	**15**		**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	**18**	**16**		**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

Mode/Total channels			**DMX Value**	**Function**	**Type of control**
1/39	**2/**41	**3/**44			
			171-213	Ramping from open to half position (max. --->min. speed)	proportional
			214-255	Ramp. from half position to full position (max. --->min. speed)	proportional
17	**19**	**17**		**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	**20**	**18**		**Effect wheel animations**	
			0-3	No animation (0=default)	
				Note : All animations were created at distance of 5 m from screen with zoom=61 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=218 DMX at 5 m)	step
			6-7	Animation Macro 2 (Focus=169 DMX at 5 m)	step
			8-9	Animation Macro 3 (Focus=163 DMX at 5 m)	step
			10-11	Animation Macro 4 (Focus=175 DMX at 5 m)	step
			12-13	Animation Macro 5 (Focus=163 DMX at 5 m)	step
			14-15	Animation Macro 6 (Focus=163DMX at 5 m)	step
			16-17	Animation Macro 7 (Focus=164 DMX at 5 m)	step
			18-19	Animation Macro 8 (Focus=182 DMX at 5 m)	step
			20-21	Animation Macro 9 (Focus=163 DMX at 5 m)	step
			22-23	Animation Macro 10 (Focus=170 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=218 DMX at 5 m)	step
			26-27	Animation Macro 2 (Focus=169 DMX at 5 m)	step
			28-29	Animation Macro 3 (Focus=163 DMX at 5 m)	step
			30-31	Animation Macro 4 (Focus=175 DMX at 5 m)	step
			32-33	Animation Macro 5 (Focus=163 DMX at 5 m)	step
			34-35	Animation Macro 6 (Focus=163 DMX at 5 m)	step
			36-37	Animation Macro 7 (Focus=164 DMX at 5 m)	step
			38-39	Animation Macro 8 (Focus=182 DMX at 5 m)	step
			40-41	Animation Macro 9 (Focus=163 DMX at 5 m)	step
			42-43	Animation Macro 10 (Focus=170 DMX at 5m)	step
			44-255	Raw DMX	proportional
19	**21**	**19**		**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

Mode/Total channels			**DMX Value**	**Function**	**Type of control**
1/39	**2/**41	**3/**44			
			46-51	Gobo 8	step
			52-57	Gobo 9	step
			58-63	Gobo 10	step
			64-69	Beam reducer 1	step
			70-75	Beam reducer 2	step
			76-81	Beam reducer 3	step
			82-87	Open/Hole	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	Open/Hole (shaking)	proportional
			200-201	Open/Hole	step
			202 - 222	Forwards gobo wheel rotation from fast to slow	proportional
			223 - 243	Backwards gobo wheel rotation from slow to fast	proportional
			244 - 249	Reserved	
			250 - 255	Auto random gobo selection from fast to slow	proportional
20	**22**	**20**		**Rotating gobo wheel**	
				Positioning	
				Index - set indexing on channel 21/23/21	
			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 21/23/21	
			32-34	Gobo 1	step
			35-37	Gobo 2	step
			38-40	Gobo 3	step
			41-43	Gobo 4	step
			44-46	Gobo 5	step
			47-49	Gobo 6	step

Mode/Total channels			**DMX Value**	**Function**	**Type of control**
1/39	**2/**41	**3/**44			
			50-52	Gobo 7	step
			53-55	Gobo 8	step
			56-59	Gobo 9	step
				Shaking gobo from slow to fast	
				Index - set indexing on channel 21/23/21	
			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 21/23/21	
			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	Reserved	
			250 - 255	Auto random gobo selection from fast to slow	proportional
21	**23**	**21**		**Rot. gobo indexing and rotation**	
				Gobo indexing - set position on channel 20/22/20	
			0 - 255	Gobo indexing	proportional
				Gobo rotation - set position on channel 20/22/20	
			0	No rotation	step
			1 - 127	Gobo rotation from fast to slow - CW (clockwise)**	proportional
			128	No rotation (128=default)	step
			129 - 255	Gobo rotation from slow to fast - CCW (counterclockwise)**	proportional
22	**24**	**22**		**Rot. gobo indexing/rotation - fine**	
			0-255	Fine indexing/rotation (0=default)	proportional
23	**25**	**23**		**Prism wheel 1**	
				Note: This wheel is blocked If Rotating gobo wheel DMX value >0	
			0 - 3	Open position/hole (0=default)	step
				Index - set indexing on channel 24/26/24	
			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 24/26/24	

Mode/Total channels			**DMX Value**	**Function**	**Type of control**
1/39	**2/**41	**3/**44			
			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
24	**26**	**24**		**Prism wheel 1 indexing/rotation**	
				Prism indexing - set position on channel 23/25/23	
			0 - 255	Prism 1 indexing	proportional
				Prism 1 rotation - set position on channel 23/25/23	
			0	No rotation	step
			1 - 127	Prism rotation from fast to slow - CW (clockwise)**	proportional
			128	No rotation (128=default)	step
			129-255	Prism rotation from slow to fast - CCW (counterclockwise)**	proportional
25	**27**	**25**		**Prism wheel 2**	
			0 - 3	Open position/hole (0=default)	step
				Note: type of image projection(special, center) only applies to rotating gobos.	
				Index - set indexing on channel 26/28/26	
			4-5	Prism 1 - 6-facet linear multicoloured-spacial	step
			6-7	Prism 1 - 6-facet linear multicoloured- center	step
			8-9	Prism 2 - 32-facet circular-spacial	step
			10-11	Prism 2 - 32-facet circular-center	step
			12-13	Prism 3 - 8-facet 18° circular-spacial	step
			14-15	Prism 3 - 8-facet 18° circular-center	step
				Rotation - set rotation on channel 26/28/26	
			16-17	Prism 1 - 6-facet linear multicoloured-spacial	step
			18-19	Prism 1 - 6-facet linear multicoloured- center	step
			20-21	Prism 2 - 32-facet circular-spacial	step
			22-23	Prism 2 - 32-facet circular-center	step
			24-25	Prism 3 - 8-facet 18° circular-spacial	step
			26-27	Prism 3 - 8-facet 18° circular-center	step
			28-255	Raw DMX	proportional
26	**28**	**26**		**Prism wheel 2 indexing/rotation**	
				Prism indexing - set position on channel 25/27/25	
			0 - 255	Prism 1 indexing	proportional
				Prism 1 rotation - set position on channel 25/27/25	
			0	No rotation	step
			1 - 127	Prism rotation from fast to slow - CW (clockwise)**	proportional
			128	No rotation (128=default)	step
			129-255	Prism rotation from slow to fast - CCW (counterclockwise)**	proportional
27	**29**	**27**		**SpektraBeam**	
				The following channels are blocked: Prism Wheel 1/2, Prism Wheel 1/2 rot. Hot-spot/Flat field control	
			0-3	Open position/hole (0=default)	step
				Index - set indexing on channel 28/30/28	
			4-5	Effect 1	step
			6-7	Effect 2	step
			8-9	Effect 3	step
			10-11	Effect 4	step

Mode/Total channels			**DMX Value**	**Function**	**Type of control**
1/39	**2/**41	**3/**44			
			12-13	Effect 5	step
			14-15	Effect 6	step
			16-17	Effect 7	step
			18-19	Effect 8	step
			20-21	Effect 9	step
			22-23	Effect 10	step
			24-25	Effect 11	step
			26-27	Effect 12	step
				Rotation - set rotation on channel 28/30/28	
			28-29	Effect 1	step
			30-31	Effect 2	step
			32-33	Effect 3	step
			34-35	Effect 4	step
			36-37	Effect 5	step
			38-39	Effect 6	step
			40-41	Effect 7	step
			42-43	Effect 8	step
			44-45	Effect 9	step
			46-47	Effect 10	step
			48-49	Effect 11	step
			50-51	Effect 12	step
				Dynamic effects-set rotation on channel 28/30/28	
			52-53	Effect 13	step
			54-55	Effect 14	step
			56-57	Effect 15	step
			58-59	Effect 16	step
			60-61	Effect 17	step
			62-63	Effect 18	step
			64-65	Effect 19	step
			66-67	Effect 20	step
				The following channels are blocked: Prism Wheel 2, Prism Wheel 2 rot., Rot. Gobo wheel, Rot. Gobo rotation, Hot-spot/Flat field control	
				Glint effects	
			68-69	Glint Effect 21	step
			70-71	Glint Effect 22	step
			72-73	Glint Effect 23	step
			74-75	Glint Effect 24	step
			76-77	Glint Effect 25	step
			78-79	Glint Effect 26	step
			80-81	Glint Effect 27	step
			82-83	Glint Effect 28	step
			84-85	Glint Effect 29	step
			86-87	Glint Effect 30	step
			88-89	Glint Effect 31	step
			90-91	Glint Effect 32	step
			92-93	Glint Effect 33	step
			94-95	Glint Effect 34	step
			96-97	Glint Effect 35	step

Mode/Total channels			**DMX Value**	**Function**	**Type of control**
1/39	**2/**41	**3/**44			
			98-99	Glint Effect 36	step
			100-255	Raw DMX	proportional
28	**30**	**28**		**SpektraBeam rotation and indexing**	
				The channels are blocked: Prism Wheel 1/2, Prism Wheel 1/2 rot.	
				SpektraBeam effect indexing - set position on channel 27/29/27	
			0 - 255	SpektraBeam effect indexing	proportional
				SpektraBeam effect rotation - set position on channel 27/29/27	
			0	No rotation	step
			1 - 127	SpektraBeam effect rotation from fast to slow - CW (clockwise)**	proportional
			128	No rotation (128=default)	step
			129-255	SpektraBeam effect rotation from slow to fast - CCW (counterclockwise)**	proportional
29	**31**	**29**		**Beam shaper selection**	
				The channels are blocked: Pris.Wheel 1 and 2, Static gobo, Rotating gobo, Frost	
			0 - 3	Open position/hole (0=default)	step
				Index - set indexing on channel 30/32/30	
			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 30/32/30	
			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	**32**	**30**		**Beam shaper rotation and indexing**	
				Beam shaper indexing - set position on channel 29/31/29	
			0 - 255	Beam shaper indexing	proportional
				Beam shaper rotation - set position on channel 29/31/29	
			0	No rotation	step
			1 - 127	Forwards beam shaper rotation from fast to slow	proportional
			128	No rotation (128=default)	step
			129-255	Backwards beam shaper rotation from slow to fast	proportional
31	**33**	**31**		**Frost**	
			0	Open (0=default)	step
				Light Frost	
				Note: Light Frost and Prism weeel 2 cannot be inserted into light beam at the same time . The Prism wheel 2 has priority to Light Frost.	
			1-50	Light Frost from 0% to 100%	proportional
			51-53	100% Light Frost	step
			54-63	Pulse closing from slow to fast	proportional
			64-73	Pulse opening from fast to slow	proportional
			74-83	Ramping from fast to slow	proportional
			84-86	Open	step
				Medium Frost	

Mode/Total channels			**DMX Value**	**Function**	**Type of control**
1/39	**2/**41	**3/**44			
				Note: Medium Frost and Prism weeel 2 cannot be inserted into light beam at the same time . The Prism wheel 2 hase priority to Medium Frost.	
			87-136	Medium Frost from 0% to 100%	proportional
			137-139	100% Medium Frost	step
			140-149	Pulse closing from slow to fast	proportional
			150-159	Pulse opening from fast to slow	proportional
			160-169	Ramping from fast to slow	proportional
			170-172	Open	step
				Combined Frost	
				Note: Combined Frost and Prism weeel 1 or Prism wheel 2 cannot be inserted into light beam at the same time . The Prism wheel 1/Prism wheel 2 have priority to Combined Frost.	
			173-222	Medium Frost from 0% to 100% (Light Frost inserted)	proportional
			223-225	100% Medium Frost (Light Frost inserted)	step
			226-235	Pulse closing from slow to fast	proportional
			236-245	Pulse opening from fast to slow	proportional
			246-255	Ramping from fast to slow	proportional
32	**34**	**32**		**Zoom**	
			0 - 255	Zoom from max. to min.beam angle (128=default)	proportional
33	**35**	**33**		**Zoom - fine**	
			0-255	Fine zooming (0=default)	proportional
34	**36**	**34**		**Focus**	
			0 - 255	Continuous focus adjustment (128=default)	proportional
35	**37**	**35**		**Focus Fine**	
			0- 255	Fine focusing (0=default)	proportional
36	**38**	**36**		**Hot-Spot/Flat field control**	
			0	Automatic Hot-spot/Flat field control (0=default)	step
			1-4	Max. Hot-spot/Intensity	step
			5-8	Medium Hot-spot/Intensity	step
			9-12	Max. Flat field	step
			13-255	Automatic Hot-spot/Flat field control	step
37	**39**	**37**		**Shutter/ strobe**	
			0 - 31	Shutter closed	step
			32 - 63	Shutter open (32=default)	step
			64 - 95	Strobe-effect from slow to fast	proportional
			96 - 127	Shutter open	step
			128 - 143	Opening pulse in sequences from slow to fast	proportional
			144 - 159	Closing pulse in sequences from fast to slow	proportional
			160 - 191	Shutter open	step
			192 - 223	Random strobe-effect from slow to fast	proportional
			224 - 255	Shutter open, Full lamp power	step
38	**40**	**38**		**Dimmer intensity**	
			0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
39	**41**	**39**		**Dimmer intensity - fine**	
			0-255	Fine dimming (0=default)	proportional
		43		**Safe distance control**	
			0-15	Safe distance 5 m	step
			16-23	Safe distance 6 m	step

Mode/Total channels			**DMX Value**	**Function**	**Type of control**
1/39	**2/**41	**3/**44			
			24-31	Safe distance 7 m	step
			32-39	Safe distance 8 m	step
			40-47	Safe distance 9 m	step
			48-55	Safe distance 10 m	step
			56-63	Safe distance 11 m	step
			64-71	Safe distance 12 m	step
			72-79	Safe distance 13 m	step
			80-87	Safe distance 14 m	step
			88-95	Safe distance 15 m	step
			96-103	Safe distance 16 m	step
			104-111	Safe distance 17 m	step
			112-119	Safe distance 18 m	step
			120-127	Safe distance 19 m	step
			128-135	Safe distance 20 m	step
			136-143	Safe distance 21m	step
			144-151	Safe distance 22 m	step
			152-159	Safe distance 23 m	step
			160-167	Safe distance 24 m	step
			168-175	Safe distance 25 m	step
			176-183	Safe distance 26 m	step
			184-191	Safe distance 27 m	step
			192-199	Safe distance 28 m	step
			200-207	Safe distance 29 m	step
			208-215	Safe distance 30 m	step
			216-223	Safe distance 31 m	step
			224-231	Safe distance 32 m	step
			232-239	Safe distance 33 m	step
			240-247	Safe distance 34 m	step
			248-255	Safe distance 35 m - full light output (255=default)	step
		44		**Pan/Tilt safe zones**	
			0-2	No function (0=default)	step
				To set functions stated below, stop at DMX value for at least 3 seconds.	
			3-4	Tilt min. (full intensity zone definition)***	step
			5-6	Tilt max. (full intensity zone definition)***	step
			7-8	Pan min. (full intensity zone definition)***	step
			9-10	Pan max. (full intensity zone definition)***	step
			11-12	Limited intensity drop-off zone Cut-off (Default in fixture)****	step
			13-14	Limited intensity drop-off zone: 5 m	step
			15-16	Limited intensity drop-off zone: 6 m	step
			17-18	Limited intensity drop-off zone: 7 m	step
			19-20	Limited intensity drop-off zone: 8 m	step
			21-22	Limited intensity drop-off zone: 9 m	step
			23-24	Limited intensity drop-off zone: 10 m	step
			25-26	Limited intensity drop-off zone: 11 m	step
			27-28	Limited intensity drop-off zone: 12 m	step
			29-30	Limited intensity drop-off zone: 13 m	step
			31-32	Limited intensity drop-off zone: 14 m	step

Mode/Total channels			**DMX Value**	**Function**	**Type of control**
1/39	**2/**41	**3/**44			
			33-34	Limited intensity drop-off zone: 15 m	step
			35-36	Limited intensity drop-off zone: 16 m	step
			37-38	Limited intensity drop-off zone: 17 m	step
			39-40	Limited intensity drop-off zone: 18 m	step
			41-42	Limited intensity drop-off zone: 19 m	step
			43-44	Limited intensity drop-off zone: 20 m	step
			45-46	Limited intensity drop-off zone: 21 m	step
			47-48	Limited intensity drop-off zone: 22 m	step
			49-50	Limited intensity drop-off zone: 23 m	step
			51-52	Limited intensity drop-off zone: 24 m	step
			53-54	Limited intensity drop-off zone: 25 m	step
			55-56	Limited intensity drop-off zone: 26 m	step
			57-58	Limited intensity drop-off zone: 27 m	step
			59-60	Limited intensity drop-off zone: 28 m	step
			61-62	Limited intensity drop-off zone: 29 m	step
			63-64	Limited intensity drop-off zone: 30 m	step
			65-66	Limited intensity drop-off zone: 31 m	step
			67-68	Limited intensity drop-off zone: 32 m	step
			69-70	Limited intensity drop-off zone: 33 m	step
			71-72	Limited intensity drop-off zone: 34 m	step
			73-74	Limited intensity drop-off zone: 35 m	step
			75-76	Reset to default (P/T intensity zone)***	step
				*** 4 flashes per second for a period of three seconds indicate saving of Pan or Tilt value or Reset to default (P/T intensity zone).*	
				**** The option Cut-off is set as Default in the fixture after setting items Tilt min./Tilt max and Pan min./Pan max.*	
			77-255	Reserved	

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

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