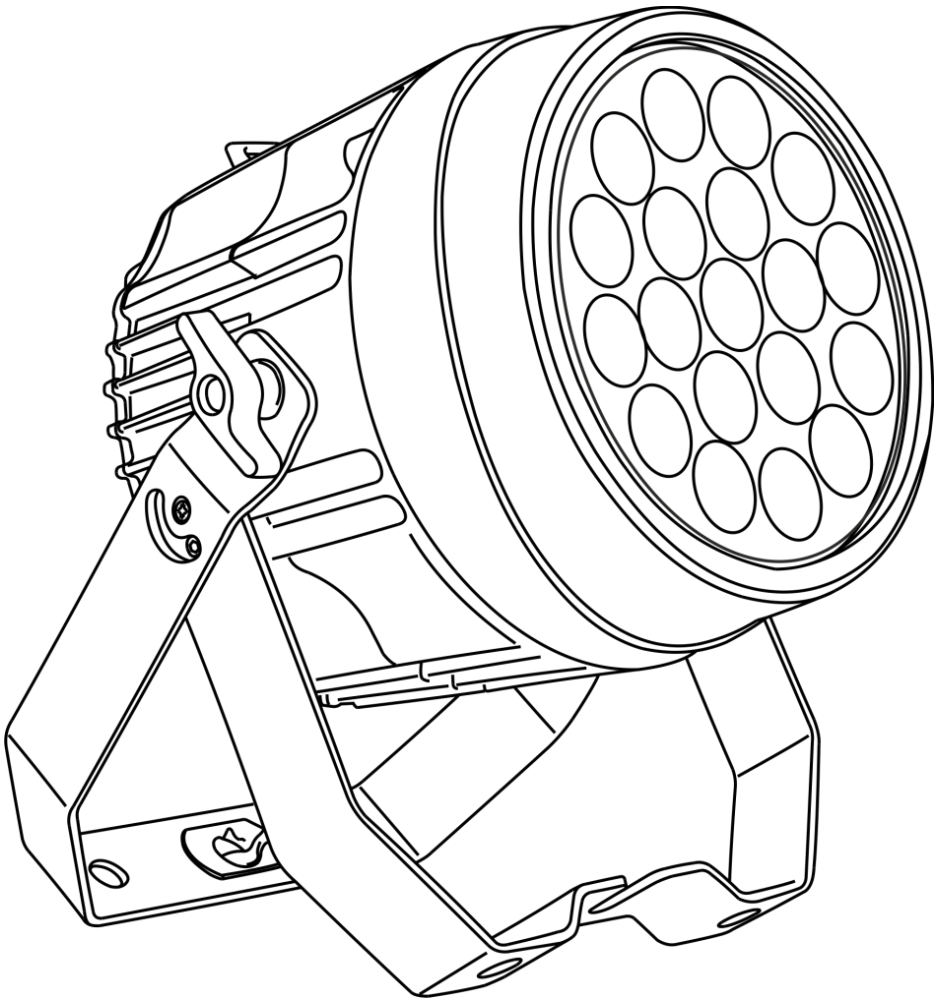
MANUAL



ENGLISH

NanoQ 19 Q4 IP V1

Ordercode: 43712

Table of contents

Warning

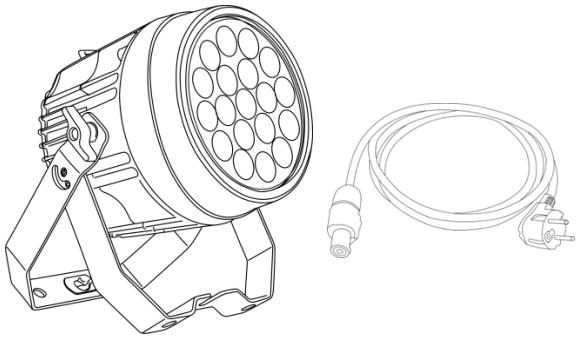
For your own safety, please read this user manual carefully before your initial start-up!

Unpacking Instructions

Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Your shipment includes:

- Showtec NanoQ 19 Q4 IP
- Schuko to PowerCON connector power cable (1,5 m)
- User manual



LED Expected Lifespan

LEDs gradually decline in brightness over time. HEAT is the dominant factor that leads to the acceleration of this decline. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal or singular optimum conditions. For this reason when all color LEDs are used at their fullest intensity, life of the LEDs is significantly reduced. If improving your lifespan expectancy is of a higher priority, place care in providing for lower operational temperatures. This may include climatic-environmental and the reduction of overall projection intensity.

CAUTION!
Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!

Safety Instructions

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow the instructions of this manual

CAUTION! Be careful with your operations.
With a dangerous voltage you can suffer
a dangerous electric shock when touching the wires!

Before your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.
To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.
Please consider that damages caused by manual modifications to the device are not subject to warranty.
This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

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.

- Never let the power cord come into contact with other cables! Handle the power cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never place any material over the lens.
- Never look directly into the light source.
- Never leave any cables lying around.
- Do not insert objects into air vents.
- Do not connect this device to a dimmerpack.
- Do not switch the device on and off in short intervals, as this would reduce the device's life.
- Do not touch the device's housing bare-handed during its operation. Allow the fixture to cool for at least 5 minutes before handling.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Only use device indoors, avoid contact with water or other liquids.
- Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.
- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- Always keep case closed while operating.
- Always allow free air space of at least 50 cm around the unit for ventilation.
- Always disconnect power from the mains, when device is not used or before cleaning! Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power cord is never crimped or damaged. Check the device and the power cord from time to time.
- If the lens is obviously damaged, it has to be replaced. So that its functions are not impaired, due to cracks or deep scratches.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Showtec device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Showtec dealer for service.
- For adult use only. Device must be installed out of the reach of children. Never leave the unit running unattended.
- Never attempt to bypass the thermostatic switch or fuses.
- For replacement use fuses of same type and rating only.
- The user is responsible for correct positioning and operating of the NanoQ 19 Q4 IP. The manufacturer will not accept liability for damages caused by the misuse or incorrect installation of this device.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

CAUTION! Eyedamages!!!
Avoid looking directly into the lightsource!!!
(meant especially for epileptics)!!!

Operating Determinations

- This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.
- The minimum distance between light-output and the illuminated surface must be more than 1 meter.
- The maximum ambient temperature ta = 40°C must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 40° C.
- If this device is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.
- Any other operation may lead to dangers like short-circuit, burns, electric shock, crash etc.

You endanger your own safety and the safety of others!

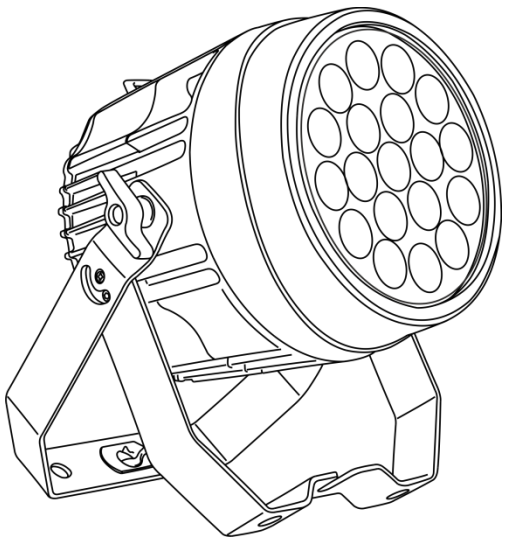
Rigging

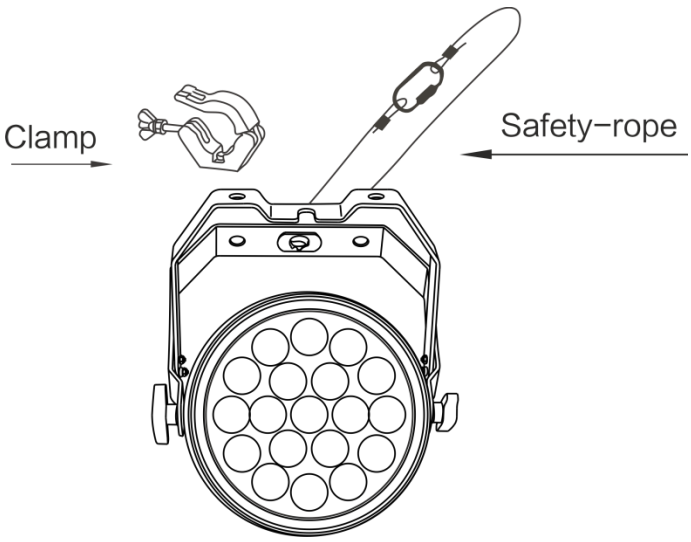
Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

Do not attempt the installation yourself!
Always let the installation be carried out by an authorized dealer!

Procedure:

- If the NanoQ 19 Q4 IP is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the NanoQ 19 Q4 IP, with the mounting-bracket, to the trussing system.
- The NanoQ 19 Q4 IP must never be fixed swinging freely in the room.
- The installation must always be secured with a safety attachment, e.g. an appropriate safety net or safety-cable.
- When rigging, derigging or servicing the NanoQ 19 Q4 IP, always make sure, that the area below the installation place is blocked and staying in the area is forbidden.





Improper installation can cause serious injuries to people and/or damage of property!

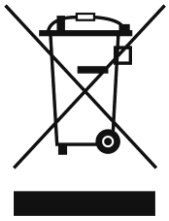
Connection with the mains

Connect the device to the mains with the power-plug.
Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	PHASE
N	BLUE	BLACK	SILVER	NEUTRAL
⏚	YELLOW/GREEN	GREEN	GREEN	PROTECTIVE GROUND

Make sure that the device is always connected properly to the earth!

Improper installation can cause serious damage to people and property!



Return Procedure

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail aftersales@highlite.nl and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:

01) Your name.
02) Your address.
03) Your phone number.
04) A brief description of the symptoms.

Claims

The client has the obligation to check the delivered goods immediately upon delivery for any short-comings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.
It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.
Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless otherwise agreed in writing.
Complaints against us must be made known in writing or by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.
Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement of which the obligation is resulting.

Description of the device

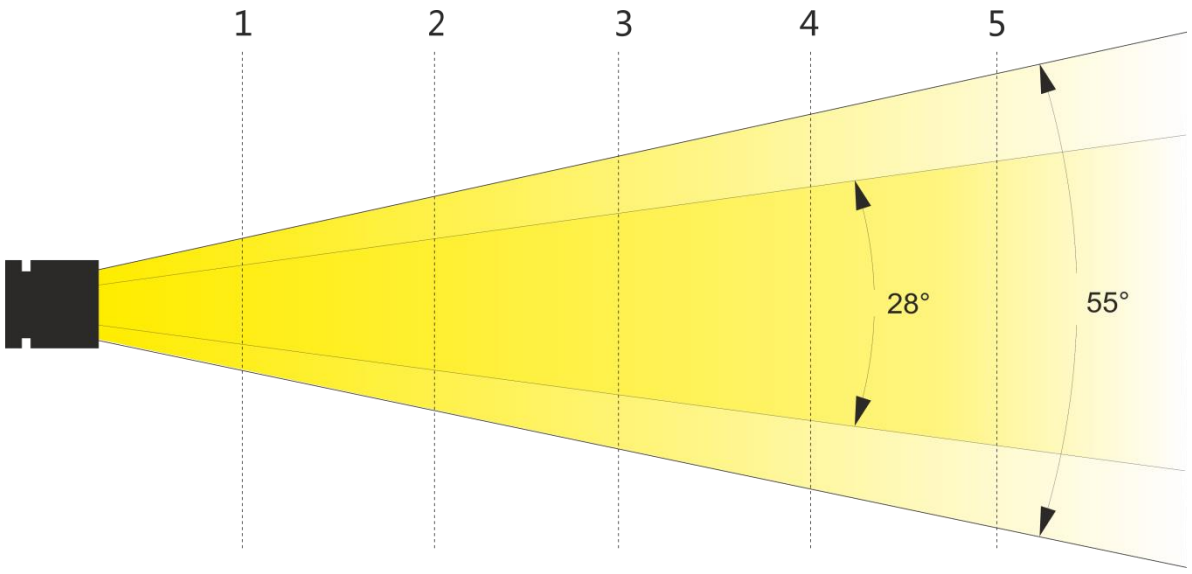
Features

The Showtec NanoQ 19 Q4 IP is a rental outdoor LED spot with zoom function. It has a clear lens plate with an RGB backlight glare effect and a zoom range between 6° - 60°. It is equipped with 19 x RGBW 10W LEDs, to create a massive output. You can control colors, dimmer and strobe of the wash LEDs and backlight LEDs. The LED spot has a die-cast black powder coated aluminum housing with a double bracket which makes it sturdy and rental proof. Original PowerCON True1 IN/OUT connections and dedicated IP-rated 3-pin XLR chassis for easy daisy chaining. The large bright display makes it convenient to access your settings, whenever needed.

- Input voltage: 100-240V AC, 50/60Hz
- Power consumption: 220W
- Light output @ 2 m: 29300 lux (6°)
- Backlight system: 21 x RGB 5050 SMD
- Light source: 19 x 10W RGBW LEDs
- Refresh rate: 1kHz
- Driver current: 750mA/color
- DMX modes: 5, 6, 7, 8, 9, 10, 14 channels
- Beam angle: 6-60°
- Color mixing: RGBW
- IP rating: IP54
- DMX-control via standard DMX-controller
- Onboard: LCD display for easy setup
- Control mode: Auto run, Manual mode, DMX512
- Dimmer: 0-100%
- Strobe: 0-20Hz
- Housing: Die-cast aluminum powder coat finish
- Power connector: PowerCON True1 connector IN/OUT
- Data connectors: 3-pin IP XLR IN/OUT
- Cooling: Convection (no fans) which eliminates the use of fans and noise
- Dimensions: 310 x 270 x 390 mm (LxWxH)
- Weight: 7,4 kg

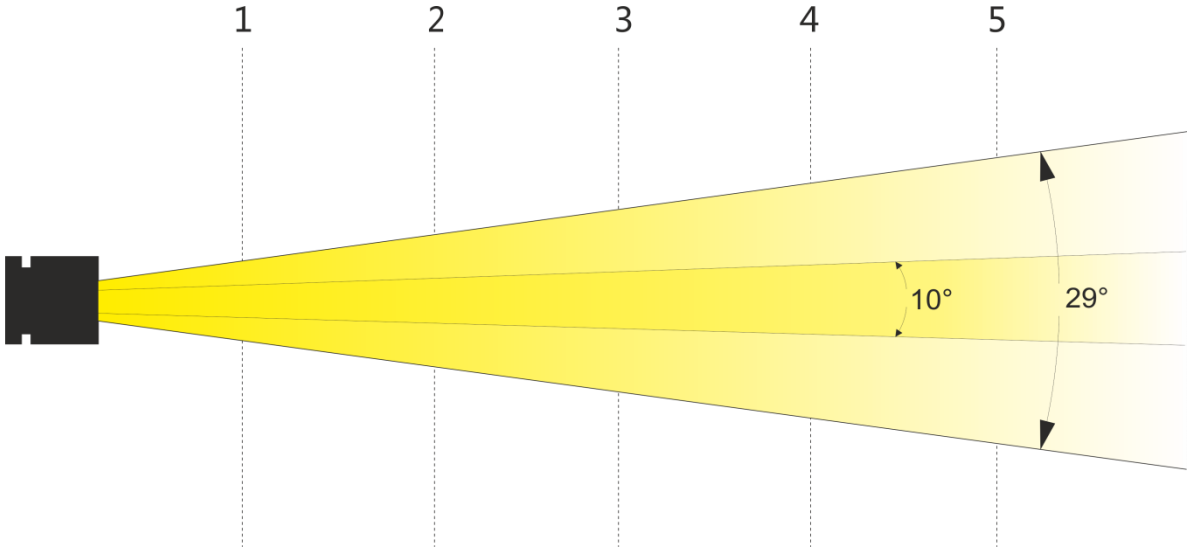
Note: Knowledge of DMX is required to fully utilize this unit.

Beam angle: 28°, Spot angle: 55°



Lux @ 1 - 5m	1 m	2 m	3 m	4 m	5 m
Red	1346	338	158	87	58
Green	3834	993	452	259	169
Blue	660	170	748	45	30
White	4874	1251	7570	322	213
FULL ON	8610	2212	1017	580	378

Beam angle: 10°, Spot angle: 29°



Lux @ 1 - 5m	1 m	2 m	3 m	4 m	5 m
Red	11150	4420	2093	1192	767
Green	29230	12440	5856	3341	2151
Blue	5012	2090	970	550	360
White	36110	15290	7227	4138	2661
FULL ON	61460	27700	13020	7430	4790

Frontside

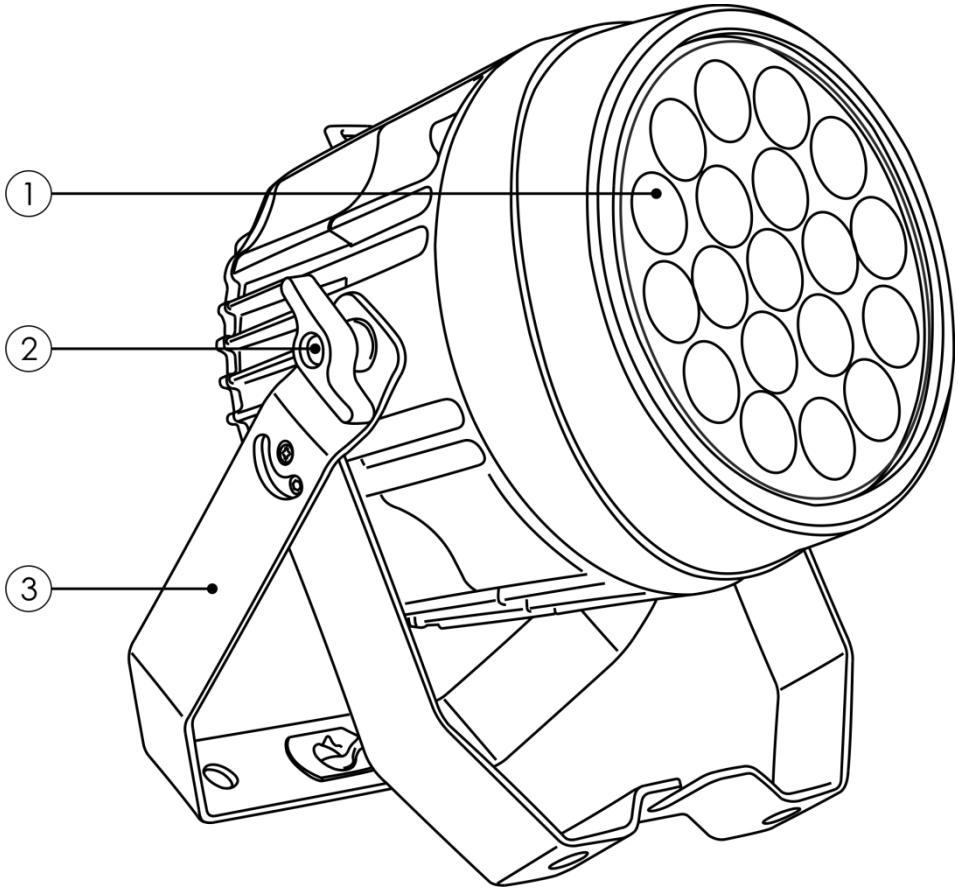


Fig. 01

01) 19 x 10W RGBW LEDs + 21 x RGB 5050 SMD
02) Adjustment screw
03) Double mounting bracket

Backside

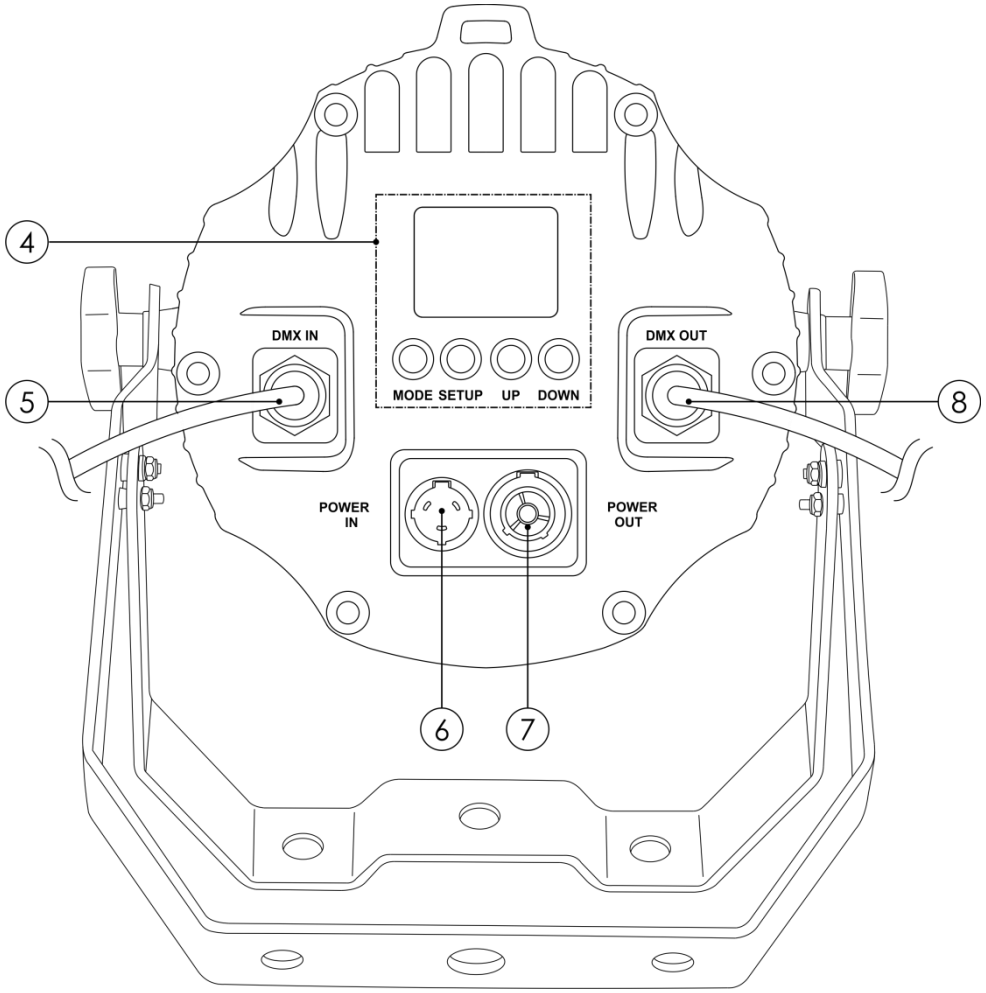


Fig. 02

04) LCD display + menu buttons
05) 3-pin DMX IP signal connector IN
06) PowerCON True1 power connector 100-240V IN
07) PowerCON True1 power connector 100-240V OUT
08) 3-pin DMX IP signal connector OUT

Installation

Remove all packing materials from the NanoQ 19 Q4 IP. Check that all foam and plastic padding is removed. Connect all cables.
Do not supply power before the whole system is set up and connected properly.
Always disconnect from electric mains power supply before cleaning or servicing.
Damages caused by non-observance are not subject to warranty.

Set Up and Operation

Follow the directions below, as they pertain to your preferred operation mode.
Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.

Control Modes

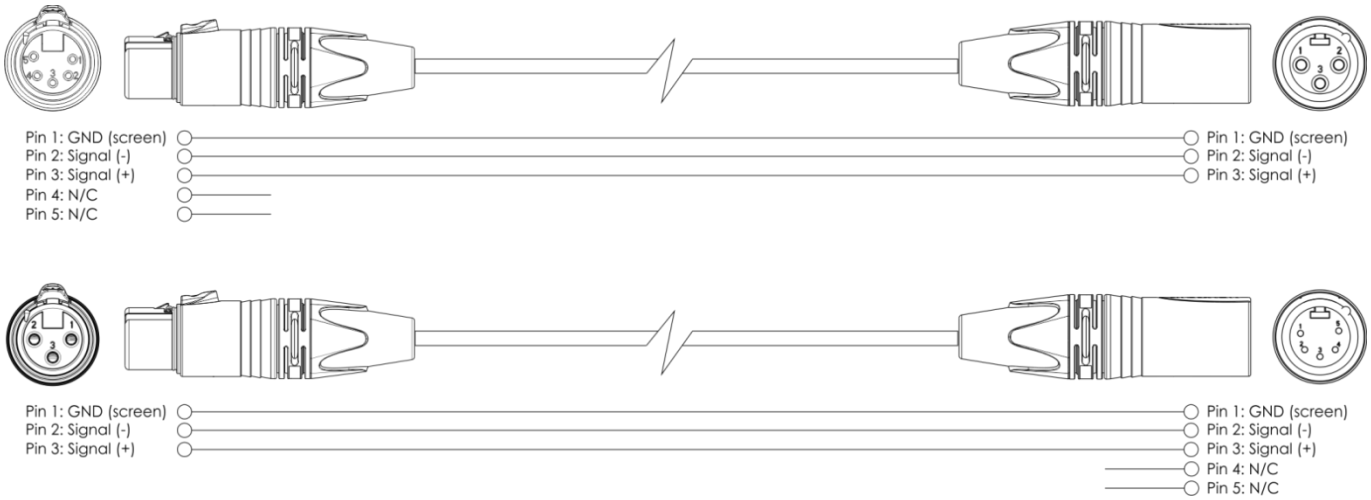
There are 3 modes: Auto test
Manual mode
DMX-512 (5CH, 6CH, 7CH, 8CH, 9CH, 10CH, 14CH)

One NanoQ (Auto test, Manual)

01) Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
02) Always use a safety cable (ordercode 70140 / 70141).
03) Plug the end of the electric mains power cord into a proper electric power supply socket.
04) When the NanoQ 19 Q4 IP is not connected with a DMX cable, it functions as a stand-alone device.
05) Please see page 17 for more information about Auto and Manual modes.

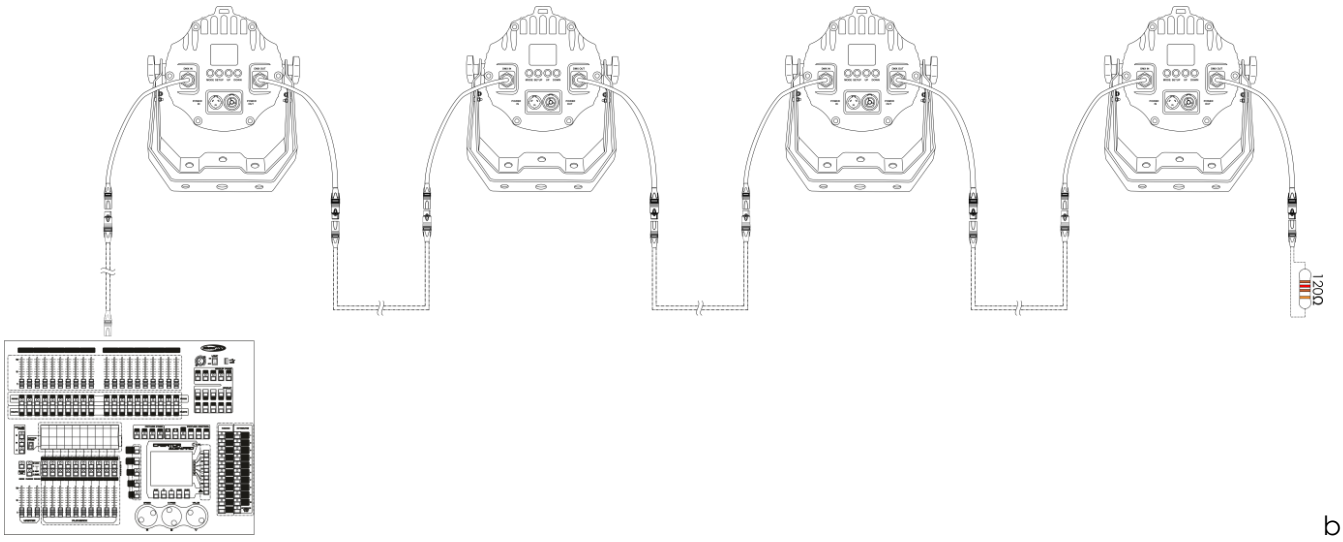
Multiple NanoQs (DMX Control)

01) Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
02) Always use a safety cable (ordercode 70140 / 70141).
03) Use a 3-pin XLR cable to connect the NanoQ 19 Q4 IP and other devices.



04) Link the units as shown in (fig.03). Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units.
05) Supply electric power: Plug electric mains power cords into each unit's PowerCON True1 power connector socket, then plug the other end of the mains power cord into proper electric power supply sockets, starting with the first unit. Do not supply power before the whole system is set up and connected properly.

Multiple NanoQs (DMX Set Up)



b
Fig. 03

Fixture Linking

You will need a serial data link to run light shows of one or more fixtures using a DMX-512 controller or to run synchronized shows on two or more fixtures set to a master / slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

Important: Fixtures on a serial data link must be daisy chained in one single line. To comply with the EIA-485 standard no more than 30 devices should be connected on one data link. Connecting more than 30 fixtures on one serial data link without the use of a DMX optically isolated splitter may result in deterioration of the digital DMX signal.

Maximum recommended DMX data link distance: 100 meters
Maximum recommended number of NanoQs on a DMX data link: 30 fixtures
Maximum recommended number of NanoQs on a Power link: 4 fixtures @110V
Maximum recommended number of NanoQs on a Power link: 8 fixtures @240V

Data Cabling

To link fixtures together you must obtain data cables. You can purchase DAP Audio certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

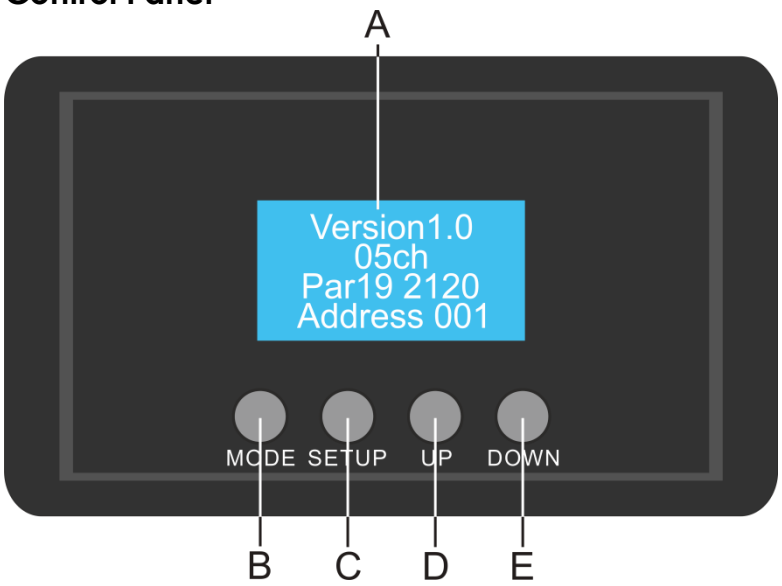
DAP Audio DMX Data Cables

- DAP Audio Basic microphone cable for allround use. bal. XLR/M 3-pin > XLR/F 3-pin. **Ordercode** FL01150 (1,5 m), FL013 (3 m), FL016 (6 m), FL0110 (10 m), FL0115 (15 m), FL0120 (20 m).
- DAP Audio X-type data cable XLR/M 3-pin > XLR/F 3-pin. **Ordercode** FLX0175 (0,75 m), FLX01150 (1,5 m), FLX013 (3 m), FLX016 (6 m), FLX0110 (10 m).
- DAP Audio cable for the demanding user with exceptional audio-qualities and connector made by Neutrik®. **Ordercode** FL71150 (1,5 m), FL713 (3 m), FL716 (6 m), FL7110 (10 m).
- DAP Audio cable for the demanding user with exceptional audio-qualities and connector made by Neutrik®. **Ordercode** FL7275 (0,75 m), FL72150 (1,5 m), FL723 (3 m), FL726 (6 m), FL7210 (10 m).
- DAP Audio 110 Ohm cable with digital signal transmission. **Ordercode** FL0975 (0,75 m), FL09150 (1,5 m), FL093 (3 m), FL096 (6 m), FL0910 (10 m), FL0915 (15 m), FL0920 (20 m).

Note: connect the NanoQ 19 Q4s with the dedicated special XLR cables for outdoor use.
FL73150 1,5 m IP65 XLR/M 3p. > XLR/F 3p. Neutrik
FL733 3,0 m IP65 XLR/M 3p. > XLR/F 3p. Neutrik
FL736 6,0 m IP65 XLR/M 3p. > XLR/F 3p. Neutrik
FL7310 10 m IP65 XLR/M 3p. > XLR/F 3p. Neutrik

The NanoQ 19 Q4 IP can be operated with a controller in **control mode** or without the controller in **stand-alone mode**.

Control Panel



A) LCD display
B) MODE button
C) SETUP button
D) UP button
E) DOWN button

Fig. 04

Control Mode

The fixtures are individually addressed on a data-link and connected to the controller.
The fixtures respond to the DMX signal from the controller. (When you select the DMX address and save it, the controller will display the saved DMX address the next time.)

DMX Addressing

The control panel on the front side of the base allows you to assign the DMX fixture address, which is the first channel from which the NanoQ 19 Q4 IP will respond to the controller.
Please note when you use the controller, the unit has **14** channels.
When using multiple NanoQs make sure you set the DMX addresses right.
Therefore, the DMX address of the first NanoQ should be **1(d001)**; the DMX address of the second NanoQ should be **1+14=15 (d015**); the DMX address of the third NanoQ should be **15+14=29 (d029)**, etc.
Please, be sure that you do not have any overlapping channels in order to control each NanoQ correctly. If two or more NanoQs are addressed similarly, they will work similarly.

Controlling:

After having addressed all NanoQ fixtures, you may now start operating these via your lighting controller.

Note: After switching on, the NanoQ will automatically detect whether DMX 512 data is received or not. If not, the problem may be:

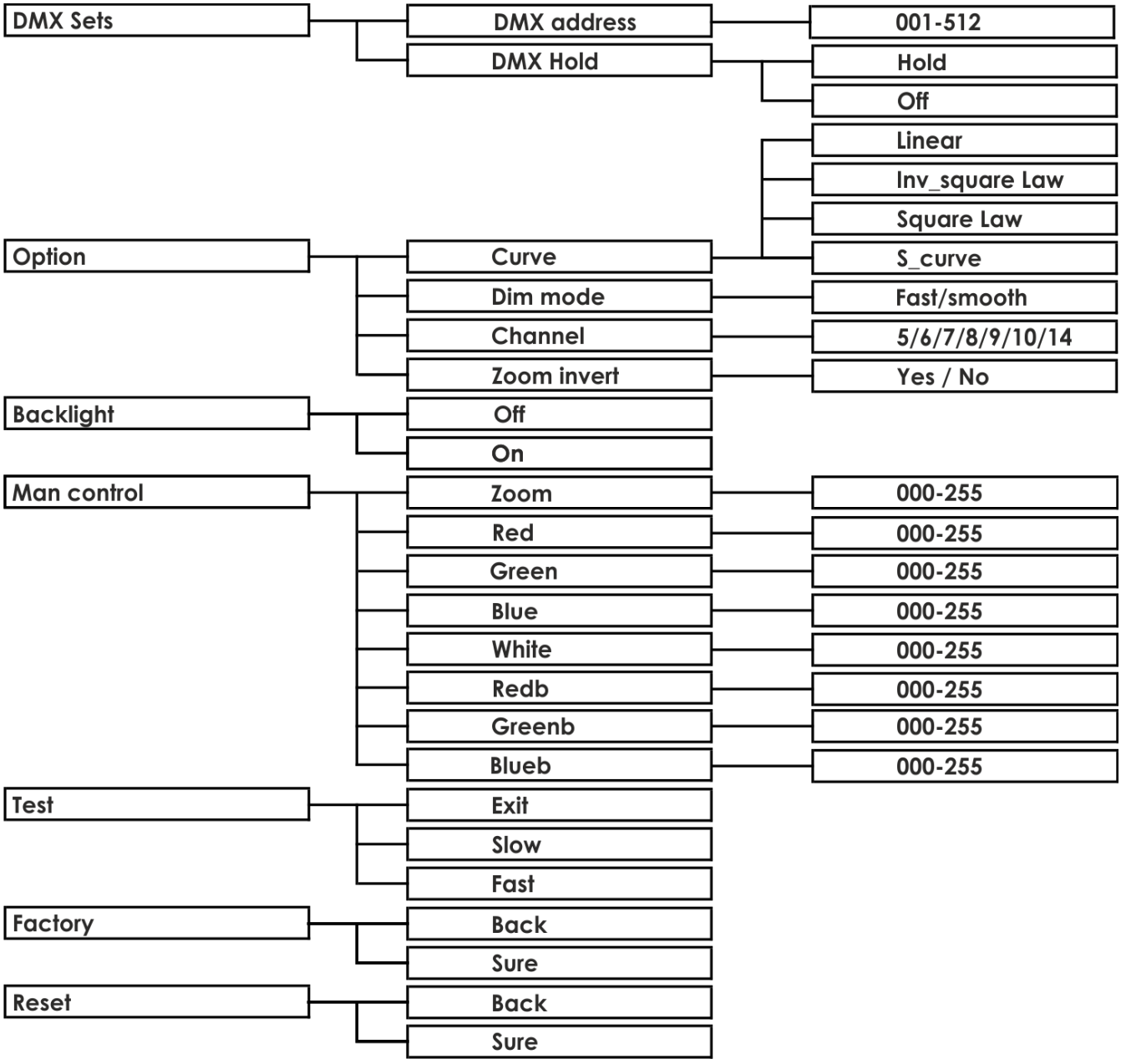
- The XLR cable from the controller is not connected with the input of the NanoQ 19 Q4 IP.
- The controller is switched off or defective, the cable or connector is detective, or the signal wires are swapped in the input connector.

Note: It's necessary to insert a XLR termination plug (with 120 Ohm) in the last fixture in order to ensure proper transmission on the DMX data link.

⚠ Display Off after 15 seconds ⚠

When no button is pressed for 15 seconds, the display will turn off.
To light up the display, you have to press the **MODE**, **SETUP**, **UP** or **DOWN** button.
Once you have pressed the button, the display will light up.
You can set the backlight in the menu, see chapter 3. Backlight.

Menu Overview

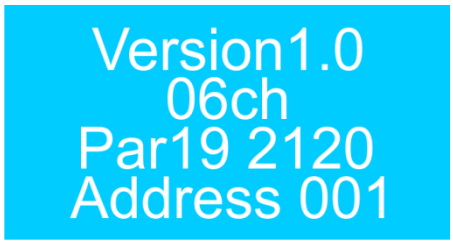


Main Menu Options

There are 7 menu modes:

- 1. DMX Sets
- 2. Option
- 3. Backlight
- 4. Man control
- 5. Test
- 6. Factory
- 7. Reset

The NanoQ19 Q4 IP starts up with screen:



1. DMX Sets
With this menu you can set the DMX address and the behavior of the device in case of a DMX failure.

01) Press the **MODE** button until the display shows 

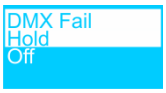
.

02) Press the **SETUP** button to enter the menu, the display shows 

.

1.1 DMX address

01) Press the **SETUP** button to open the menu .
02) You can choose 512 different DMX addresses.
Press the **UP / DOWN** buttons to select the required address from 001-512.
03) Press the **MODE** button to go back to the previous step.

1.2 DMX Hold
01) Press the **UP / DOWN** buttons to choose DMX Hold.
02) Press the **SETUP** button to enter the menu, the display will show 

.
01) If you choose "**Hold**", the device will use the last properly received DMX signal until DMX connection is restored.
04) If you choose "**Off**", the device will black out.
05) Press the **MODE** button to go back to the previous step.

2. Options
With this menu you can adjust several settings.

01) Press the **MODE** button until the display shows 

.

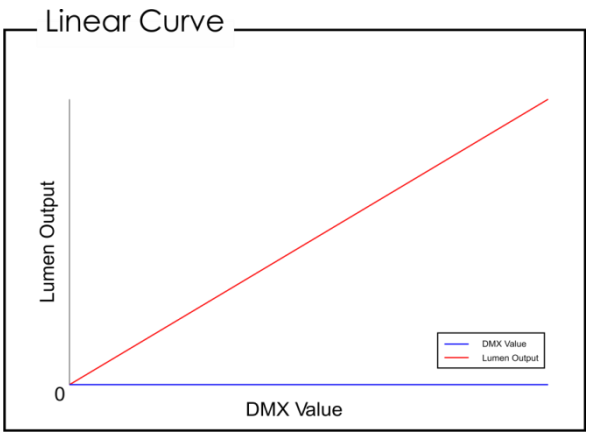
02) Press the **SETUP** button to enter the menu, the display shows 

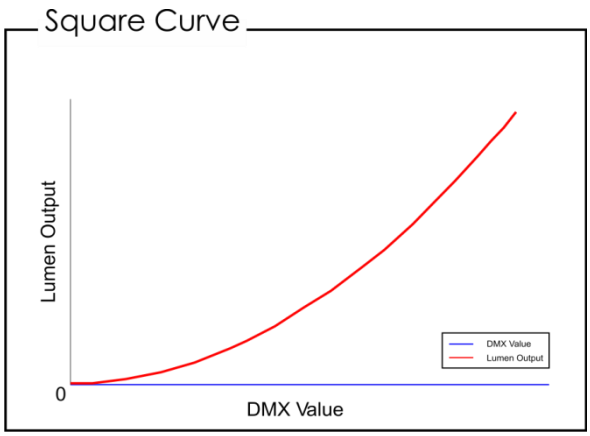
.

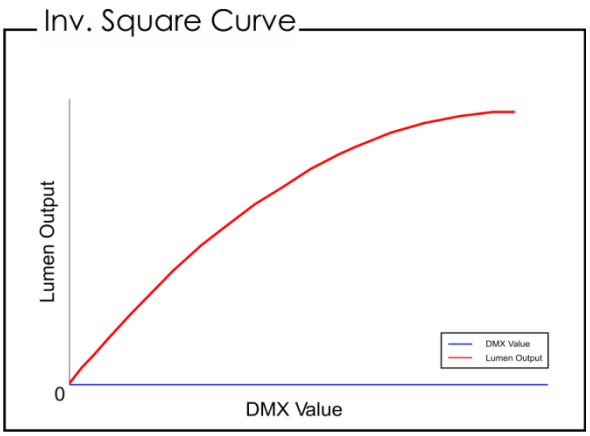
2.1 Curve

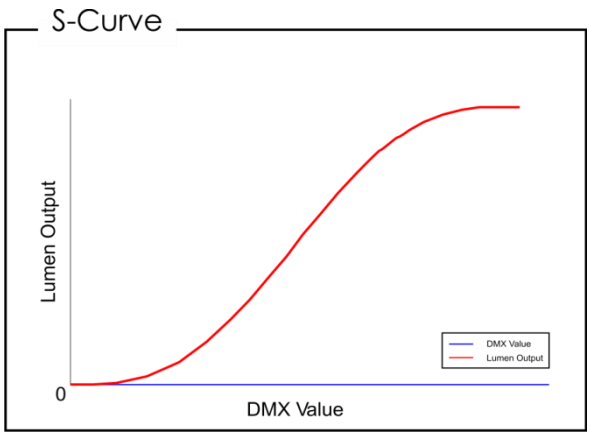
01) Press the **SETUP** button to open the menu 

.
02) Press the **UP / DOWN** buttons to scroll through the 4 curves modes.









03) Press the **MODE** button to go back to the previous step.

2.2 Dim mode

01) Press the **UP / DOWN** buttons to choose Dim mode.
02) Press the **SETUP** button to enter the menu, the display shows 

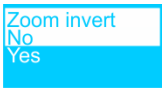
.
03) You can choose Fast or Smooth.
04) Press the **MODE** button to go back to the previous step.

2.3 Channel

01) Press the **UP / DOWN** buttons to choose Channel.
02) Press the **SETUP** button to enter the menu, the display shows 

.
03) You can choose 14, 10, 9, 8, 7, 6 or 5 channels.
04) Press the **MODE** button to go back to the previous step.

2.3 Zoom invert

01) Press the **UP / DOWN** buttons to choose Zoom invert.
02) Press the **SETUP** button to enter the menu, the display shows 

.
03) If you choose "**No**", the device has a normal zoom (in the manual mode).
04) If you choose "**Yes**", the device has an inverted zoom (in the manual mode).
05) Press the **MODE** button to go back to the previous step.

3. Backlight
With this menu you can set the backlight of the display.

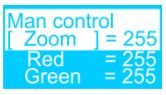
01) Press the **MODE** button until the display shows 

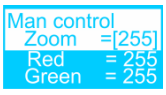
.
02) Press the **SETUP** button to enter the menu, the display shows 

.
03) If you choose "**Off**", the display will blackout after 15 seconds.
04) If you choose "**On**", the display will always light up, even if there is no operation at the device.
05) Press the **MODE** button to go back to the previous step.

4. Manual control
With this menu you can set the manual control.

01) Press the **MODE** button until the display shows 

.
02) Press the **SETUP** button to enter the menu, the display shows 

.
03) Press the **UP / DOWN** buttons to select Zoom, Red, Green, Blue, White, Redb, Greenb or Blueb.
04) Press the **SETUP** button again until the display shows 

.
05) Now you can adjust the intensity of the sections by pressing the **UP / DOWN** buttons from 000-255.
06) Press the **MODE** button to go back to the previous step.

5. Test
With this menu you can activate the automatic test programs.

01) Press the **MODE** button until the display shows 

.
02) Press the **SETUP** button to enter the menu, the display shows 

.
03) If you choose "**Exit**", the device will stop its DMX running mode.
04) If you choose "**Slow**", the device will start automatically with its slow running program.
05) If you choose "**Fast**", the device will start automatically with its fast running program.
06) Press the **MODE** button to go back to the previous step.

6. Factory
With this menu you can reset the device to its factory settings.

01) Press the **MODE** button until the display shows 

.
02) Press the **SETUP** button to enter the menu, the display shows 

.
03) If you choose "**Back**", you will go back to the main menu.
04) If you choose "**Sure**", the device will reset to its factory settings.
05) Press the **MODE** button to go back to the previous step.

7. Reset
With this menu you can reset the device.

01) Press the **MODE** button until the display shows 

.

02) Press the **SETUP** button to enter the menu, the display shows 

.
03) If you choose "**Back**", you will go back to the main menu.
04) If you choose "**Sure**", the device will reset.
05) Press the **MODE** button to go back to the previous step.

DMX Channels

14 Channels

Channel 1 – Master Dimmer

0-255	From black to brightest

Channel 2 – Master Strobe (CH1 and CH3, CH4, CH5, CH6 or CH7 must be set between 001-255)

0-255	Strobe effect, from slow to fast (0-20Hz)

Channel 3 – Master Colors (CH1 must be set between 001-255)

1-17	Red
18-35	Green
36-53	Blue
54-71	White
72-89	Red + Green
90-107	Red + Blue
108-125	Green + Blue
126-142	Red + Green + Blue + White (Full on)
143-192	Color pulse
193-224	Color fade
225-255	Color jump

Channel 4 – Red Dimmer intensity (CH1 must be set between 001-255)

0-255	Red from 0 – 100%

Channel 5 – Green Dimmer intensity (CH1 must be set between 001-255)

0-255	Green from 0 – 100%

Channel 6 – Blue Dimmer intensity (CH1 must be set between 001-255)

0-255	Blue from 0 – 100%

Channel 7 – White Dimmer intensity (CH1 must be set between 001-255)

0-255	White from 0 – 100%

Channel 8 – Background LED Dimmer

0-255	From black to brightest

Channel 9 – Background LED Strobe

(CH8 and CH10, CH11, CH12 or CH13 must be set between 001-255)

0-255	Strobe effect, from slow to fast (0-20Hz)

Channel 10 – Background LED Colors (CH8 must be set between 001-255)

1-17	Red
18-35	Green
36-53	Blue
54-71	White
72-89	Red + Green
90-107	Red + Blue
108-125	Green + Blue
126-142	Red + Green + Blue (Full on)
143-192	Color pulse
193-224	Color fade
225-255	Color jump

Channel 11 – Background LED Red Dimmer intensity (CH8 must be set between 001-255)

0-255	Red from 0 – 100%

Channel 12 – Background LED Green Dimmer intensity (CH8 must be set between 001-255)

0-255	Green from 0 – 100%

Channel 13 – Background LED Blue Dimmer intensity (CH8 must be set between 001-255)

0-255	Blue from 0 – 100%

Channel 14 – Zoom

0-255	Zoom from 0 - 100%

10 Channels

Channel 1 – Total Dimmer

0-255	From black to brightest

Channel 2 – Strobe (CH1 and CH3, CH4, CH5, CH6, CH7, CH8 or CH9 must be set between 001-255)

0-255	Strobe effect, from slow to fast (0-20Hz)

Channel 3 – Red Dimmer intensity (CH1 must be set between 001-255)

0-255	Red from 0 – 100%

Channel 4 – Green Dimmer intensity (CH1 must be set between 001-255)

0-255	Green from 0 – 100%

Channel 5 – Blue Dimmer intensity (CH1 must be set between 001-255)

0-255	Blue from 0 – 100%

Channel 6 – White Dimmer intensity (CH1 must be set between 001-255)

0-255	White from 0 – 100%

Channel 7 – Background LED Red Dimmer intensity (CH1 must be set between 001-255)

0-255	Red from 0 – 100%

Channel 8 – Background LED Green Dimmer intensity (CH1 must be set between 001-255)

0-255	Green from 0 – 100%

Channel 9 – Background LED Blue Dimmer intensity (CH1 must be set between 001-255)

0-255	Blue from 0 – 100%

Channel 10 – Zoom

0-255	Zoom from 0 - 100%

9 Channels

Channel 1 – Total Dimmer

0-255	From black to brightest

Channel 2 – Red Dimmer intensity (CH1 must be set between 001-255)

0-255	Red from 0 – 100%

Channel 3 – Green Dimmer intensity (CH1 must be set between 001-255)

0-255	Green from 0 – 100%

Channel 4 – Blue Dimmer intensity (CH1 must be set between 001-255)

0-255	Blue from 0 – 100%

Channel 5 – White Dimmer intensity (CH1 must be set between 001-255)

0-255	White from 0 – 100%

Channel 6 – Background LED Red Dimmer intensity (CH1 must be set between 001-255)

0-255	Red from 0 – 100%

Channel 7 – Background LED Green Dimmer intensity (CH1 must be set between 001-255)

0-255	Green from 0 – 100%

Channel 8 – Background LED Blue Dimmer intensity (CH1 must be set between 001-255)

0-255	Blue from 0 – 100%

Channel 9 – Zoom

0-255	Zoom from 0 - 100%

8 Channels

Channel 1 – Red Dimmer intensity

0-255	Red from 0 – 100%

Channel 2 – Green Dimmer intensity

0-255	Green from 0 – 100%

Channel 3 – Blue Dimmer intensity

0-255	Blue from 0 – 100%

Channel 4 – White Dimmer intensity

0-255	White from 0 – 100%

Channel 5 – Background LED Red Dimmer intensity

0-255	Red from 0 – 100%

Channel 6 – Background LED Green Dimmer intensity

0-255	Green from 0 – 100%

Channel 7 – Background LED Blue Dimmer intensity

0-255	Blue from 0 – 100%

Channel 8 – Zoom

0-255	Zoom from 0 - 100%

7 Channels

Channel 1 – Total Dimmer

0-255	From black to brightest

Channel 2 – Strobe (CH1 and CH3, CH4, CH5 or CH6 must be set between 001-255)

0-255	Strobe effect, from slow to fast (0-20Hz)

Channel 3 – All LEDs Red Dimmer intensity (CH1 must be set between 001-255)

0-255	Red from 0 – 100%

Channel 4 – All LEDs Green Dimmer intensity (CH1 must be set between 001-255)

0-255	Green from 0 – 100%

Channel 5 – All LEDs Blue Dimmer intensity (CH1 must be set between 001-255)

0-255	Blue from 0 – 100%

Channel 6 – White Dimmer intensity (CH1 must be set between 001-255)

0-255	White from 0 – 100%

Channel 7 – Zoom

0-255	Zoom from 0 - 100%

6 Channels

Channel 1 – Total Dimmer

0-255	From black to brightest

Channel 2 – All LEDs Red Dimmer intensity (CH1 must be set between 001-255)

0-255	Red from 0 – 100%

Channel 3 – All LEDs Green Dimmer intensity (CH1 must be set between 001-255)

0-255	Green from 0 – 100%

Channel 4 – All LEDs Blue Dimmer intensity (CH1 must be set between 001-255)

0-255	Blue from 0 – 100%

Channel 5 – White Dimmer intensity (CH1 must be set between 001-255)

0-255	White from 0 – 100%

Channel 6 – Zoom

0-255	Zoom from 0 - 100%

5 Channels

Channel 1 – All LEDs Red Dimmer intensity

0-255	Red from 0 – 100%

Channel 2 – All LEDs Green Dimmer intensity

0-255	Green from 0 – 100%

Channel 3 – All LEDs Blue Dimmer intensity

0-255	Blue from 0 – 100%

Channel 4 – White Dimmer intensity

0-255	White from 0 – 100%

Channel 5 – Zoom

0-255	Zoom from 0 - 100%

Maintenance

The Showtec NanoQ 19 Q4 IP requires almost no maintenance. However, you should keep the unit clean. Otherwise, the fixture's light-output will be significantly reduced. Disconnect the mains power supply and then wipe the cover with a damp cloth. Wipe the front glass panel clean with glass cleaner and a soft cloth. Do not use alcohol or solvents. The front glass panel will require weekly cleaning, as smoke-fluid tends to build up residues, reducing the light output very quickly. Do not immerse in liquid.
Keep connections clean. Disconnect electric power, and then wipe the DMX and audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

The operator has to make sure that safety-relating and machine-technical installations are to be inspected by an expert after every year in the course of an acceptance test.
The operator has to make sure that safety-relating and machine-technical installations are to be inspected by a skilled person once a year.

The following points have to be considered during the inspection:
01) All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
02) There may not be any deformations on housings, fixations and installation spots.
03) Mechanically moving parts like axles, eyes and others may not show any traces of wearing.
04) The electric power supply cables must not show any damages or material fatigue.

Troubleshooting

No Light

This troubleshooting guide is meant to help solve simple problems.
If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.
If the light effect does not operate properly, refer servicing to a technician.
Suspect two potential problem areas as: the power supply and the LEDs.
01) Power supply. Check if the unit is plugged into an appropriate power supply.
02) The LEDs. Return the NanoQ 19 Q4 IP to your Showtec dealer.
03) If both of the above appear to be O.K., plug the unit in again.
04) If you are unable to determine the cause of the problem, do not open the NanoQ 19 Q4 IP, as this may damage the unit and the warranty will become void.
05) Return the device to your Showtec dealer.

No Response to DMX

Suspect the DMX cable or connectors, a controller malfunction, a light effect DMX card malfunction.
01) Check the DMX setting. Make sure that DMX addresses are correct.
02) Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
03) Determine whether the controller or light effect is at fault. Does the controller operate properly with other DMX products? If not, take the controller in for repair. If so, take the DMX cable and the light effect to a qualified technician.

Problem	Probable cause(s)	Solution
One or more fixtures do not function at all.	No power to the fixture.	• Check that power is switched on and cables are plugged in.
	Internal fuse blown.	• Return the device to your Showtec dealer
Fixtures reset correctly, but all respond erratically or not at all to the controller.	The controller is not connected.	• Connect controller.
	3-pin Out of the controller does not match XLR Out of the first fixture on the link (i.e. signal is reversed).	• Install a phase reversing cable between the controller and the first fixture on the link.
Fixtures reset correctly, but some respond erratically or not at all to the controller.	Poor data quality	• Check data quality. If much lower than 100 percent, the problem may be a bad data link connection, poor quality or broken cables, missing termination plug, or a defective fixture disturbing the link.
	Bad data link connection	• Inspect connections and cables. Correct poor connections. Repair or replace damaged cables.
	Data link not terminated with 120 Ohm termination plug.	• Insert termination plug in output jack of the last fixture on the link.
	Incorrect addressing of the fixtures.	• Check address setting.
	One of the fixtures is defective and disturbs data transmission on the link.	• Bypass one fixture at a time until normal operation is regained: unplug both connectors and connect them directly together. • Have the defective fixture serviced by a qualified technician.
	3-pin Out on the fixtures does not match (pins 2 and 3 reversed).	• Install a phase-reversing cable between the fixtures or swap pin 2 and 3 in the fixture, that behaves erratically.
No light or LEDs cuts out intermittently	Fixture is too hot.	• Allow fixture to cool. • Turn up the air conditioning .
	LEDs damaged	• Disconnect fixture and return to your dealer.
	The power supply settings do not match local AC voltage and frequency.	• Disconnect fixture. Check settings and correct if necessary.

Product Specification

Model:	Showtec NanoQ 19 Q4 IP
Input Voltage:	100-240V AC, 50/60Hz
Power consumption:	220W
DMX linking:	30pcs
Power linking @110V:	4 pcs
Power linking @240V:	8 pcs
Dimensions:	310 x 270 x 390 mm (LxWxH)
Weight:	7,4 kg
Operating and Programming:	
Signal pin OUT:	Pin 1 (earth), pin 2 (-), pin 3 (+)
DMX modes:	5, 6, 7, 8, 9, 10, 14 channels
Signal input:	3-pin IP XLR IN
Signal output:	3-pin IP XLR OUT
Electro-mechanical effects:	
Light source:	19 x 10W RGBW LEDs
Backlight:	21 x RGB 5050 SMD
Refresh rate:	1kHz
Light output @ 2 m:	29300 lux (6°)
Color mixing:	RGBW
Beam angle:	6-60°
Dimmer:	0-100%
Strobe:	0-20Hz
IP Rating:	IP54
Housing:	Specially designed housing ensures an optimum heat dissipation during operation
DMX-control:	via standard DMX-controller
On Board:	LCD display for easy setup
Control:	Auto run, Manual mode, DMX512
Housing:	Die-cast aluminum powder coat finish
Connections:	Dedicated PowerCON True1 power connector & Data connector
Cooling:	Convection
Max. ambient temperature t_A:	40°C
Max. housing temperature t_B:	80°C
Minimum distance:	
Minimum distance from flammable surfaces:	0,5 m
Minimum distance to lighted object:	1 m

Design and product specifications are subject to change without prior notice.

CE

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Dimensions