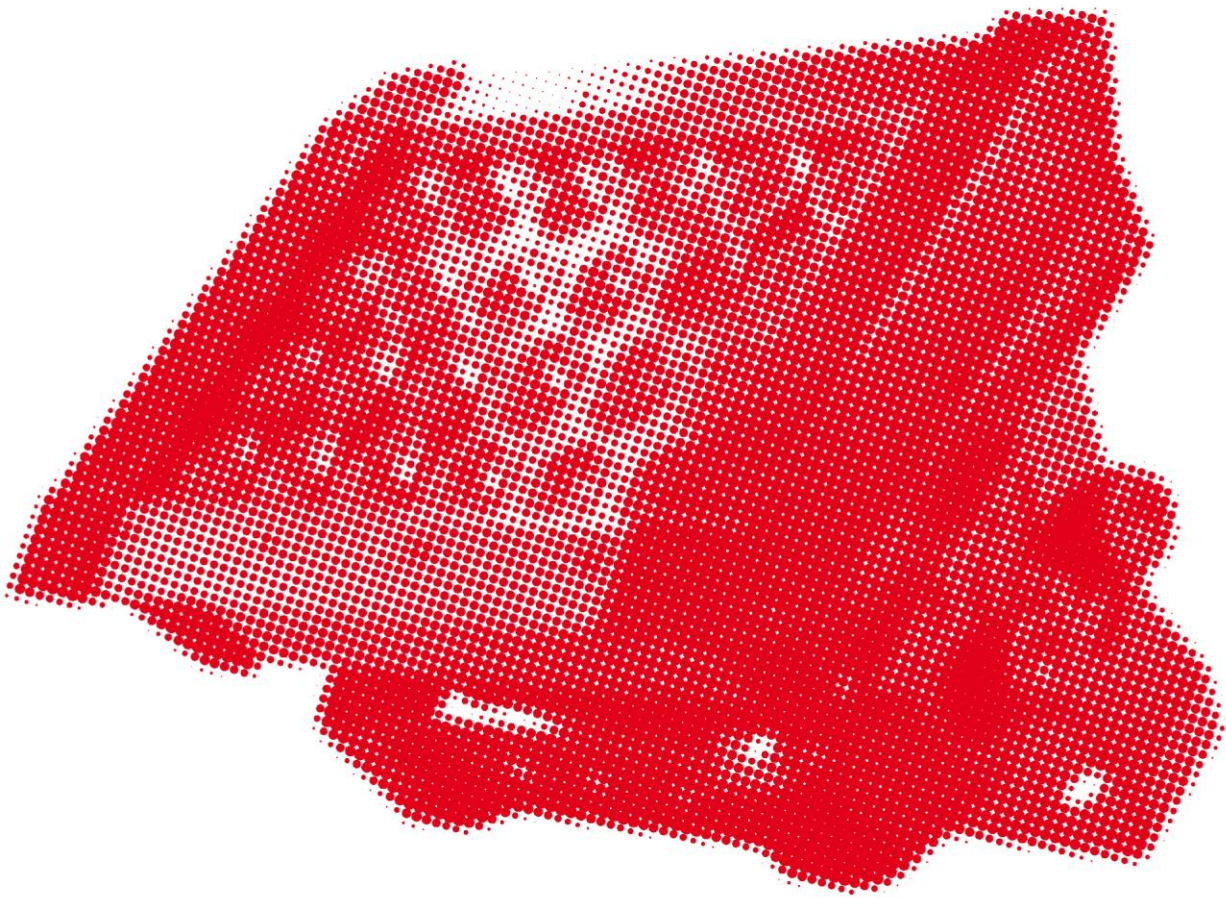




PROFESSIONAL LED COLOR CHANGER USER MANUAL



QUADRO 24

KEEP THIS MANUAL FOR FUTURE NEEDS



At first, thank you for purchasing QUADRO 24. For the sake of safety and regular operation of this projector, please read this manual carefully before using and operating it, lest incur any personal injury or damage to the projector.

GENERAL GUIDELINES

This device is a lighting effect for professional use on stages, in discotheques, theatres, etc..

It adopts high quality LED, with very high brightness, long life and low power consumption.

This fixture is only allowed to be operated with the max alternating current which stated in the technical specifications in the last page of this manual.

The device, with its IP65 class protection, was designed for indoor and outdoor use. However do not use the device in completely waterproof condition.

This fixture has a professional wireless receiver on board.

Lighting effects are not designed for permanent operation. Consistent operational breaks may ensure that the device will function properly for a long time.

Do not shake the device. Avoid brute force when installing or operating the device.

The device shall only be used complete with its protective shield.

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

The minimum distance between light-output from the projector and the illuminated surface must be more than 0.5 meter.

Operate the device only after having familiarized with its functions.

Do not permit operation by persons not qualified for operating the device.

Most damages are the result of unprofessional operation.

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

For safety reasons, please be aware that all modifications on the device are forbidden.

If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void.

Furthermore, any other operation may lead to short-circuit, burns, electric shock, crash, etc..

SAFETY INSTRUCTIONS



CAUTION!

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

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



Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately.

The arising condensation could damage the device.

Leave the device switched off until it has reached room temperature.

This device falls under protection-class I.

Therefore it is essential that the device be earthed.

The electric connection must carry out by qualified person.

No move at operating mode.

Make sure that the available voltage is not higher than stated at the end of this manual.

Make sure the power cord is never crimped or damaged by sharp edges.

If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it.

Only handle the power cord by the plug.

Never pull out the plug by tugging the power cord.

Please don't project the beam onto combustible substances.

Fixtures cannot be installed on combustible substances, keep more than 50cm distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.



CAUTION!

Never touch the device during operation!
The housing may heat up



CAUTION!

Never look directly into the light source,
as sensitive persons may suffer an epileptic shock.

Please be aware that damages caused by manual modifications to the device are not subject to warranty. Keep away from children and non-professionals.

INSTALLATION INSTRUCTIONS

Mounting the device



CAUTION!

Please consider the EN 60598-2-17 and the other respective national norms during the installation. The installation must only be carried out by a qualified person.

The applicable temperature for the lighting is between 0°C~45°C Do not use the lighting under or above the temperature.

The installation of the effect has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.

The installation must always be secured with a secondary safety attachment, e.g. an appropriate safety rope. Never stand directly below the device .

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

These installations have to be approved by a skilled person once a year.

Cautions:

The effect should be installed outside areas where persons may reach it, walk by or be seated.

Overhead mounting requires extensive experience, including amongst others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the device.

If you lack these qualifications, do not attempt the installation yourself.
Improper installation can result in bodily injury.



CAUTION!

The electric connection must only be carried out by a qualified electrician.

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

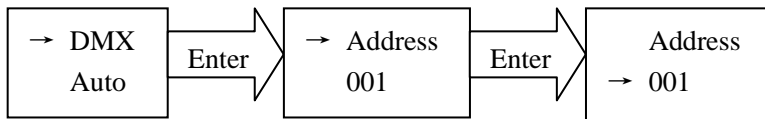
Connect the fixture to the mains with the power plug.

Function Mode Set:

When the performer is switched on, the LCD display will appear Red Lighting ,please press any key to enter into the Function Menu. You can choose function by pressing UP or DOWN,→ arrowhead shows current operation position. Press ENTER or EXIT to enter or return into the current function.

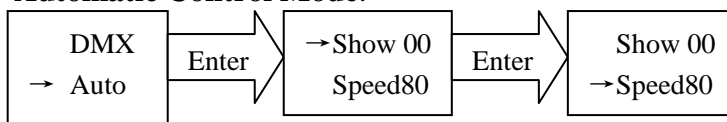
Detailed operating way as below:

1: DMX512 Control Mode:



Press UP or DOWN to set the address, Press EXIT to return.

2: Automatic Control Mode:



When showing →Show 00, Press UP、DOWN choose effects, Press EXIT to return.

Automatically run all effects -----Show 00

Gradually color change effect-----Show 01

RGB color change effect-----Show 02

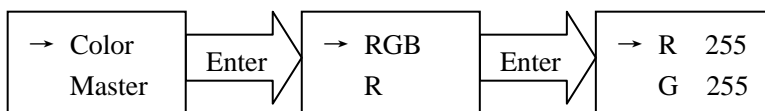
Single color flash effect-----Show 03 to Show 09

RGB color change flash effect-----Show 10 to Show 18

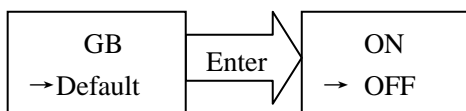
RGB sever colors selection-----Show 19 to Show 25

When showing →Speed80, Press UP、DOWN to choose speed, press EXIT to return.

3: Color set:

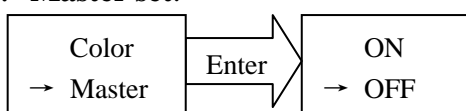


Press UP or DOWN to choose current -setting colors,press ENTER to adjust the color proportion for R、G、B three basic colors.Press EXIT to return.



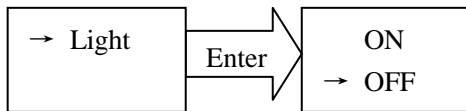
Press UP or DOWN to choose whether to comeback the color set ex-factory,press ENTER to confirm,press EXIT to return.

4: Master set:



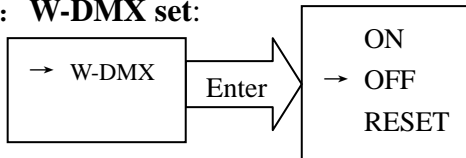
Press UP or DOWN to choose whether the master has been Turned On or Not, Press ENTER to confirm, Press EXIT to return.

5: Back Light set:



Press UP or DOWN to choose whether the back light has been turned on or not, press ENTER to confirm, press EXIT to return.

6: W-DMX set:



Press UP or DOWN to choose wireless ON , OFF or RESET to do the LOGOUT from the transmitter. Press ENTER to confirm, press EXIT to return.

Master and Slave Combine Mode:

Master light should set Master ON, working in Auto. Slave light should set to DMX-512 control mode.

When the master machine is running, the light will send DMX-512 signals, but it can't be connected to the DMX-512 controller, otherwise, they will interrupt each other, so they can not be synchronized.

When many lights are operating master-slave synchronization, only one of them can be master, the others be slave, or they can't be synchronized.

DMX-512 channel function:

	Channel	DMX-512 value	Control Programs
CH1	RGB luminance adjust	0~136	Adjust total luminance
	RGB color change	137~187	CH5=0、adjust color change speed
	RGB gradual color change	188~239	CH5=0、adjust gradual color change speed
	Run Inside-set effect	240~255	Automatic-running effect
CH2	Red	0~255	Adjust Red LED luminance
CH3	Green	0~255	Adjust Green LED luminance
CH4	Blue	0~255	Adjust Blue LED luminance
CH5	Flash	0~255	Adjust flash pace
	CH1 Set flash frequency	137~239	Adjust RGB flash color change frequency

DMX-512 Signal Connection :

This product is assembled with DMX input and output 3 pins XLR socket, all connect way is to make Pin 1 connected to the ground, Pin 2 connected to the negative pole signal, Pin 3 connected the positive pole signal.

NOTICE: No overloading connection, one same connect branch can connect no more than 32 units.

CLEANING AND MAINTENANCE

The following points have to be considered during the inspection:

- 1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
- 2) There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing).
- 3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
- 4) The electric power supply cables must not show any damage, material fatigue or sediments. Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.



CAUTION!

Disconnect from mains before starting maintenance operation.

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

- 1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
- 2) Clean the fan each week.
- 3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device. Please use a moist, lint-free cloth. Never use alcohol or solvents. Should you need any spare parts, please order genuine parts.

Technical Parameters:

QUADRO 24 (24*15W)

Operating environment: indoor and outdoor with IP65 protection

LED quantity : 24pcs 15W RGB 3in1 high-power LEDs

Control mode: DMX-512 signal , automatic , master and slave

Control signal: DMX-512 with professional wireless receiver onboard

Control channel: 5

Rated voltage: AC110V/220V $\pm 10\%$

Rated frequency: 50/60 Hz

Power consumption: < 400W