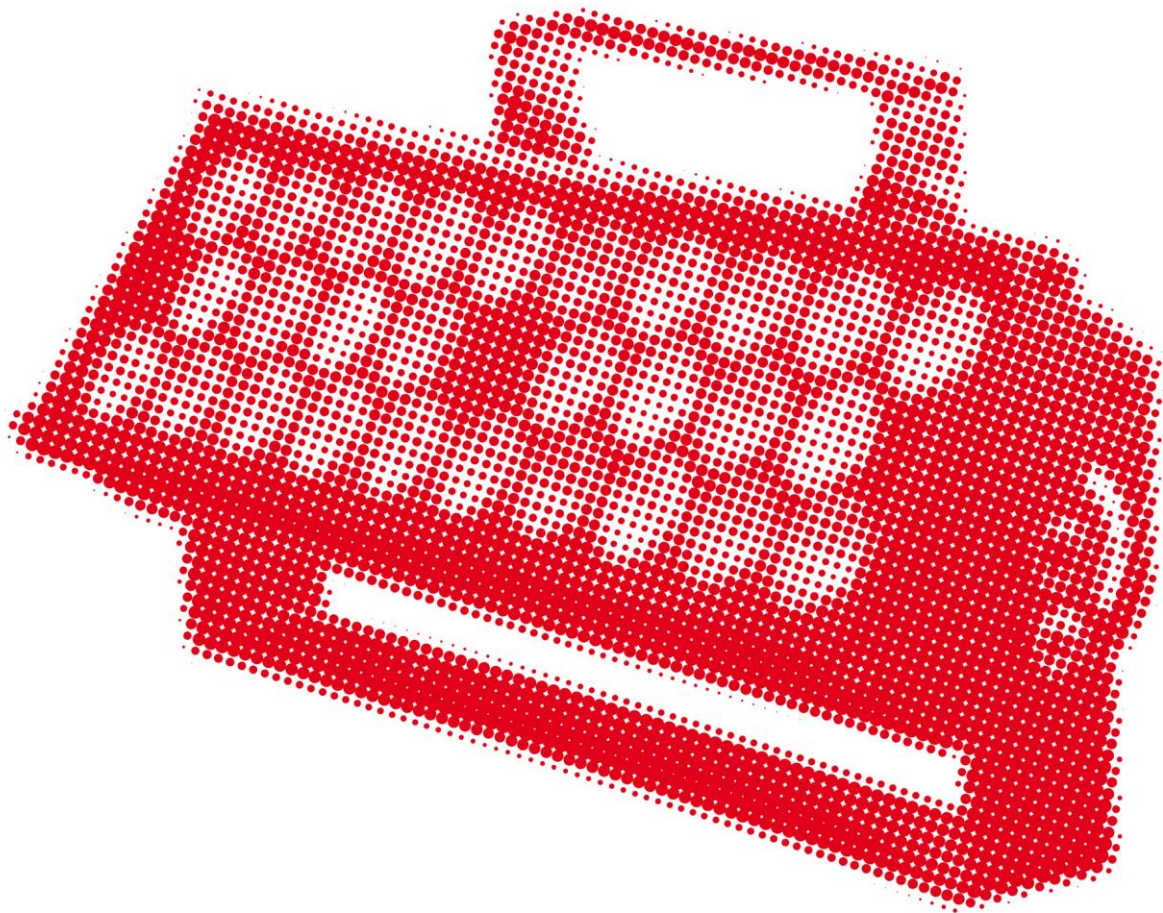




PROFESSIONAL LED COLOR CHANGER USER MANUAL



**QUADRO L24**

KEEP THIS MANUAL FOR FUTURE NEEDS



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**Thank you for using QUADRO L 24. For the sake of safety and better operation of this projector, please read this manual carefully before using and operating it, lest incur any personal injury or damage to the projector.**

## **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 0.1m 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.

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## GENERAL GUIDELINES

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

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 was designed for indoor use.

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 0.1 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.

## 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, an appropriate safety rope.

Never stand directly below the device when mounting, removing or servicing the fixture.

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.

## Product Introduction

This series of products adopt high quality illuminant, with high brightness, long life and low power consumption. Its structure and appearance are designed properly and better. It has three function modes: automatic control, DMX-512 control and master &-slave synchronization control.

## Operation instruction

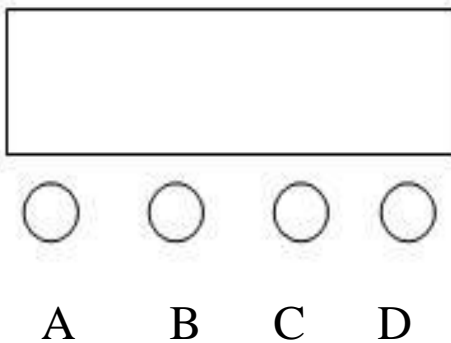
### Operation Instruction:

After unpacking, please check whether the projector has been damaged by transport such as screw loosening, etc.

Check before electrification. Check whether the projector has been laid correctly and stably, whether the voltage of the power is adapted to the requirement, otherwise we'll not be responsible for the damage of the light.

This projector is the first class protected equipment. Notice that while using, the green and yellow wires have to connect to the ground properly by professionals. Please examine the electricians and voltage before powering on it.

### Illustration:



- A. Function **button marked with a sign (+)**
- B. Value **button marked with a sign (+)**
- C. Value **button marked with a sign (-)**
- D. Function **button marked with a sign (-)**

Function details List of LED display window(All the functions will be confirmed by “D”button)

No.	Display	Function explanations
1	A.001	Address code, (001—512) “B”and “C”button for increasing or decreasing address code
2	1.255	“B”and “C”button for adjusting red luminance (1.001-1.255)
3	2.255	“B”and “C”button for adjusting red luminance (2.001-2.255)
4	3.255	“B”and “C”button for adjusting blue luminance (3.001-3.255)
5	4.255	“B”and “C”button for adjusting white luminance (4.001-4.255)
6	5.001	Automatic mode 5.000 for effect automation 5.001 for RGB gradual changing effect 5.002 for RGB changing effect 5.003-4.009 for RGB single color effect 5.010-4.016 for RGB single color strobe effect 5.017-4.025 for RGB color changing strobe effect the white leds are off when in Auto Mode

7	6.001	Speed “B”and “C”button for revising automatic effect speed
8	7.001	Sound mode “B”and “C”button for Sound mode
9	8.001	Master&Slave 8.000 for closing master projector 8.001 for opening master projector “B”and “C”button for revising state Please remove from the machine as the host logo

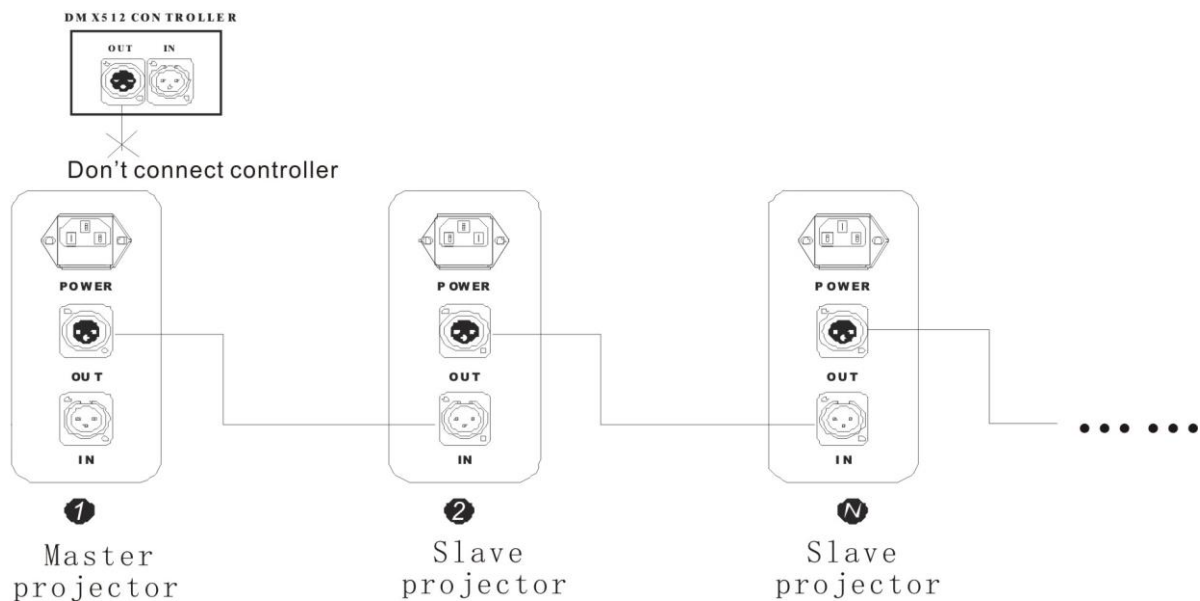
## DMX512 Channels Explanations

Channel		DMX-512 Value	Control Content
CH1	RGB luminance adjustment	0~255	adjusting light luminance
CH2	red	0~255	adjusting red LED luminance
CH3	green	0~255	adjusting green LED luminance
CH4	blue	0~255	adjusting blue LED luminance
CH5	white	0~255	adjusting white LED luminance
CH6	Strobe	0~255	strobe speed adjustment

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

Connecting controller signal cable and power DMX controller, the lights will be off upon receiving DMX512 controller signal, then the lights are controlled by controller signal.

## Master-slave synchronization Connect Maps below:



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## 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:

Rated voltage: AC 110V-220V  $\pm 10\%$

Rated frequency: 50Hz-60Hz

Power consumption: 100W(MAX)

Quantity of lights: 24×5W RGB(3 in 1)+4×3W White

Control channel: 6

Control signal: DMX-512 international standard signal

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

Operating environment: indoor