Mobile D Series

DMX • LINKABLE • AUTOMATIC LUMINAIRE

MOBILE COLOR

User Guide

Professional Entertainment Technology

INDEX

A. GENERAL INSTRUCTIONS

Please read the enclosed instructions carefully as they include important points about safety for the installation, usage and maintenance of the unit.

• Please keep this booklet with the unit for future consultation. If you sell the unit to another user, be sure that the new user also receives this instruction booklet thus giving them the necessary information about the use and general warnings regarding the unit.

• Before the initial start-up, please unpack and carefully check all components in case any damage may have occurred during shipping.

• Locate a suitable spot for your device where there is good ventilation. Also, make sure that no ventilating fans or slots are blocked.

• Protect our environment! Please dispose of the packing boxes properly.

• The electrical work that is necessary for installation must be done by qualified personnel.

• Always remember to unplug the unit from the power mains before any service is done. Do not open the unit, there are no serviceable parts inside.

• It is very important to ground the yellow/green conductor to earth in order to meet regulations for safety.

• Check the surrounding area and make sure there are no flammable liquids, water or metal objects that could enter the fixture. If a foreign object enters the unit, immediately disconnect the main power. Also, place the fixture in a well-ventilated room at about 15 cm from the walls.

• Do not touch any wires during operation, as high voltage might be hazardous.

• I n the event of serious operating problems, stop using the unit immediately. Never try to repair the unit yourself. Repairs carried out by unqualified personnel can lead to damage or malfunction. Please contact the nearest authorized Technical Assistance Center. Always use genuine spare parts.

B. MAIN FEATURES

- Voltage：AC 110~120V 60Hz or AC 230/240/250V 50/60Hz
- Bulb：JCR 15V 150W
- The unit is a DMX512 compatible color changer. It features full DMX512 control, 10 dichroic colors plus clear and shutter, accurate focus able optics system and stepper motor with blackout and switch off the bulb feature. Fan cooled.
- T hermal switch for overheat protection.
- It can be operated by DMX512 control or can be used as an individual unit without a control.
- It can be linked together in master/slave combination units, as many as required in 4 or 8 channels and run by built-in preprogrammed chase sequences automatically or by sound activation through an internal microphone to create an intelligent effect.
- Please use a 3 pin XLR cable/plug when connecting them together.
- It features different preprogrammed chase patterns.
- Dimensions：265 x 140 x 160 mm
- Weight：5.0 kg

C. LAMP

JCR 15V 150W

- Always switch off the mains supply and never handle the lamp or luminaire when it is hot.
- Do not touch the bulb with bare hands. If this does happen, clean the lamp with denatured alcohol and wipe with a lint free cloth before installing.
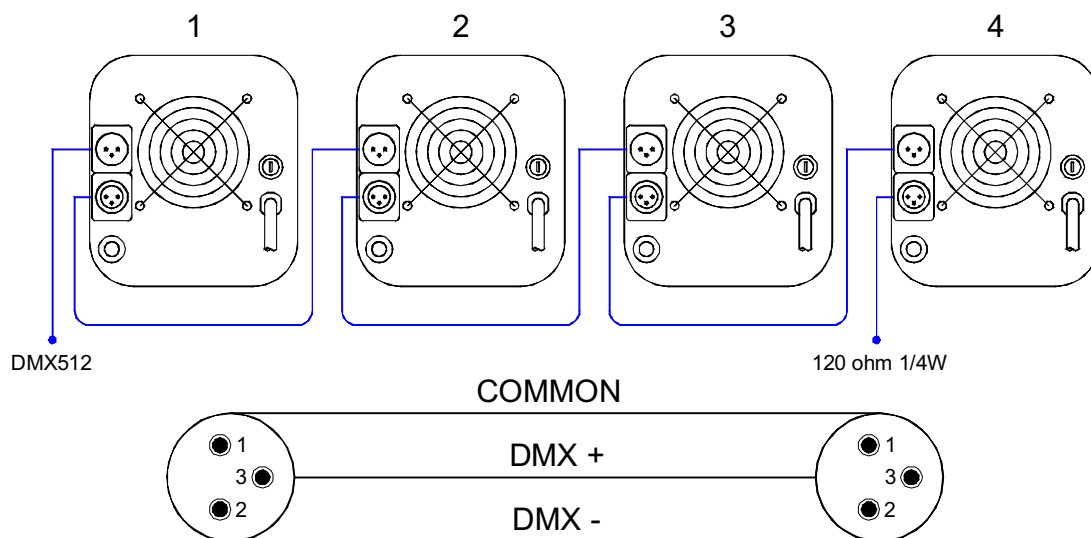
D. HOW TO CONTROL THE UNIT
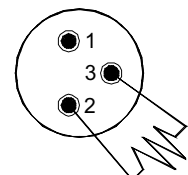
(1) By universal DMX controller

The DMX512 is widely used in intelligent lighting control, with a maximum of 512 channels.

- A DMX512 system requires a controller, lighting equipment and cable. These are connected together in a "daisy chain" with the terminator at the end. The cable cannot be branched or split to a "Y" cable.

- The terminator requires a 90-120 Ohm 1/4 Watt resistor soldered between two signal cables.

- The DMX512 uses a very high speed signal.   Inadequate or damaged cables, bad solder joints or corroded connectors can easily distort the signal and shut down the system.   A reliable DMX512 system starts with good quality cables.

- Each lighting unit needs to have an address set to receive the data sent by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).

- The end of the DMX512 system should be terminated to reduce signal errors.

- 3 pin XLR connectors are more popular than 5 pin XLR.

   3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+) 5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

COMMON

DMX +

DMX -

Termination reduces signal errors and to avoid signal transmission problems and interference. It is always advisable to connect a DMX terminal.
(Resistance 120 ohm 1/4W) between pin2 (DMX-) and pin3 (DMX+) of the last fixture.

DMX512 CONFIGURATION

DMX512 Leave Range 0 ~ 255	
255	Fastest speed strobe
224	Slowest speed strobe
192-223	Rainbow effect slow to fast
176-191	Pink
160-175	Magenta
144-159	Light Blue
128-143	Light Green
112-127	Orange
96-111	Amber
80-95	Green
64-79	Blue
48-63	Yellow
32-47	Red
16-31	White
00-15	Blackout

Channel	Dip switches setting
Ch 01	↓ ▯▮▯▯▯▯▯▯▯▯ ON 1 2 3 4 5 6 7 8 9 10
Ch 02	↓ ▯▮▯▯▯▯▯▯▯▯ ON 1 2 3 4 5 6 7 8 9 10
Ch 03	↓ ▮▮▯▯▯▯▯▯▯▯ ON 1 2 3 4 5 6 7 8 9 10
Ch 04	↓ ▯▯▮▯▯▯▯▯▯▯ ON 1 2 3 4 5 6 7 8 9 10

- Start the address

  How to address your DMX512 system:

1. Select the channels of DMX controller

2. Dip switches

Dip	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Value	1	2	4	8	16	32	64	128	256	M/S

- Examples:

  Channel 1 : dip / on : #1 (1)

  Channel 2 : dip / on : #2 (2)

  Channel 3 : dip / on : #1, #2 (1+2 = 3)

  Channel 4 : dip / on : #3 (4)
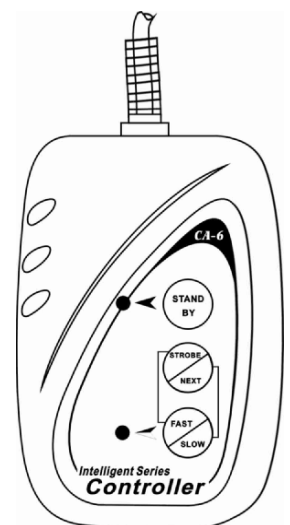
(2) Preprogram functions

• The unit can be linked together as master/slave in 4 or 8 channels and run by built in preprogrammed chase sequences automatically or by sound activation. Please refer to dip switch setting table for how to set the dip switches to achieve master/slave linking.

• The first unit dip switch 10 must be on in master/slave mode

Unit	Dip switches setting
Master	↓ ▮□□□□□□□□▮ ON 1 2 3 4 5 6 7 8 9 10
Slave 1	↓ □▮□□□□□□□□ ON 1 2 3 4 5 6 7 8 9 10
Slave 2	↓ ▮▮□□□□□□□□ ON 1 2 3 4 5 6 7 8 9 10
Slave 3	↓ □□▮□□□□□□□ ON 1 2 3 4 5 6 7 8 9 10

(3) By easy controller

The easy remote control is used only in master/slave mode. By connecting to the 1/4" microphone jack of the first unit, you will find that the remote control on the first unit will control all the other units for Stand by, Strobe/Next and Fast/Slow function.

1. **STAND BY** : blackout and switch off the bulb.
2. **STROBE/NEXT** : when the unit is in fast mode press the button and keep pressed up, it will strobe by sound activation. If the unit is in slow mode, you can select the next color and next sequences.
3. **FAST/SLOW** : when the led light off, it is in FAST mode. The unit change color by sound activation. If the led light on, it is in SLOW mode, you can select the next color by NEXT button.

E. FIXTURE CLEANING

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- Clean with a soft cloth using normal glass cleaning products.
- Always dry the parts carefully.
- Clean the external optics at least once every 20 days. Clean the internal optics at least every 30/60 days.

For further requirements, contact the nearest authorized technical assistance center.

EC Declaration of Conformity

We declare that our products (lighting equipments) comply with the following

specification and bears CE mark in accordance with the provision of the

Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

EN55014-2: 1997 A1:2001, EN61000-4-2: 1995; EN61000-4-3:2002;

EN61000-4-4: 1995; EN61000-4-5: 1995, EN61000-4-6:1996,

EN61000-4-11: 1994.

&

Harmonized Standard

EN60598-1: 2000+ALL:2000+A12:2002

Safety of household and similar electrical appliances

Part 1 : General requirements

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