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LED Colour Bank 40

LED Colour Bank 40
Red – 40, Green – 36, Blue - 36

Please keep these instructions in a safe place for future reference



User's instruction manual

This manual contains important information about the safe installation and use of this product
Please read this instruction manual carefully before installing or operating

 N2317 CE

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Please note that as part of our ongoing commitment to continuous improvement and product development, the specifications in this manual are subject to change without notice. Whilst every care has been taken in the preparation of this manual we reserve the right to change specifications in the course of product improvement.

INTRODUCTION

Congratulations on the purchase of your Led Colourbank 40 by Light Emotion

We are confident that you will be satisfied with your purchase.

We have prepared this manual to assist you with the care and operation of this item.

The Led Colourbank 40 can be operated in following modes

- Audio activated
- Static Colours
- Colour Changing
- Colour Chase
- RGB
- Stand-alone
- Master/Slave
- DMX

UNPACKING

CAUTION: Do not use sharp objects whilst unpacking this product

Contents of the carton

- 1pc Led Colourbank 40 lighting effect
- 2pcs Yokes (Hanging adaptor)
- 2pcs Thumbwheels
- 2pcs Rubber washers
- 1pc Power cord
- 2pcs Coupling bracket

Please note: Some of the items above may be fitted to the product by the manufacturer

FEATURES

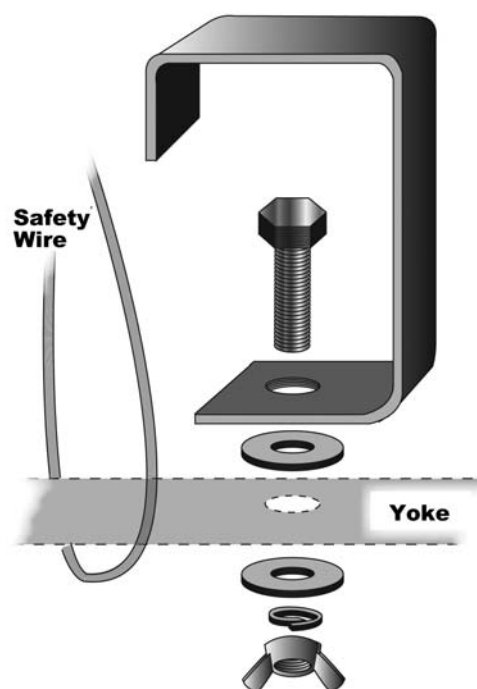
Static colours
Colour chasing
RBG colour mixing
Audio Activated with sensitivity control
Master/Slave linkable
DMX-512 controllable with 4 channels

INSTALLATION

Fig.1

CAUTION:

- For safe mounting read the following instructions carefully
- Use suitable hook clamps* for hanging the lighting effect
- Use a safety wire* with a breaking strain of more than double the lighting effect
- Do not look directly into the light source
- Make sure the lighting effect has suitable ventilation as per the instructions below
- This lighting effect is **intended for indoor use only**
- To avoid electrical shock keep away from rain and moisture
- Keep unit out of reach from children



NOTE:

Use washers* and spring washers* when attaching your hook clamp* to the yoke

1. For installation of the hook clamps* and safety wire* please refer to Fig 1.
2. This lighting effect must be 0.5m away from any flammable materials or any walls or ceilings.
3. Do not block or inhibit the air flow from the ventilation vents

Light Emotion has various hook clamps* and safety wires* suitable for your Led Colourbank 40, Please contact your local dealer for more information

*Not included

MAINTENANCE & PERIODIC CHECKS

CAUTION:

Some maintenance and checks may require the product to be opened and should only be done by qualified persons. Warranty may be void if damage has been caused by improper maintenance

1. Perspex lenses should be wiped with a clean moist cloth to remove dust and residue

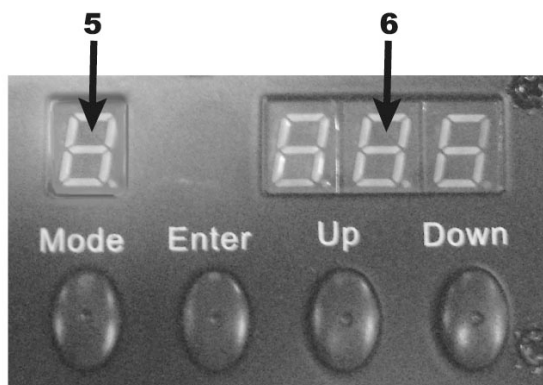
CONNECTIONS AND CONTROLS

fig 2



1. Power input socket
2. Fuse Holder
3. Sound sensitivity pot
4. Master/Slave output socket
5. DMX input socket
6. DMX output socket

fig 3



1. Mode
2. Enter
3. Up
4. Down
5. Mode display
6. Number display

POWER

CAUTION:

This lighting effect is designed to operate at 240V.

Connect the supplied power lead to the lighting effect Power input socket
(Refer to fig 2 and fig 4)

Power Consumption: 36W

FUSE

CAUTION:

Only use the correct fuse as specified on the rear panel of the lighting effect.
Disconnect the lighting effect from the mains before attempting to replace the fuse

NOTE:

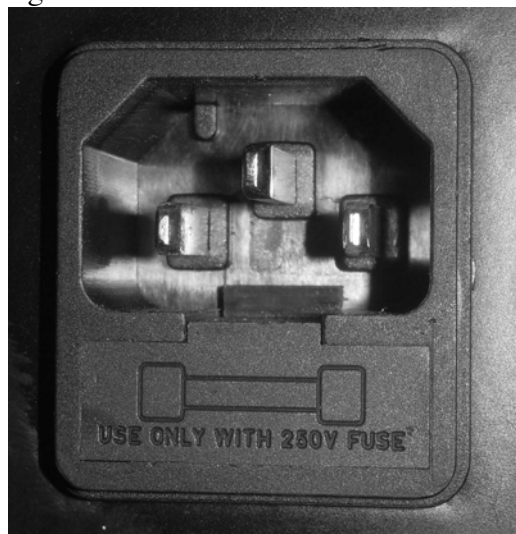
This lighting effect has a position for a spare fuse located in the fuse holder toward the outside of the fixture

To replace the fuse please follow the following steps

1. Remove the fuse holder by levering the holder out with a screwdriver
(Refer to fig 2 and fig 4)
2. Remove existing fuse
3. Fit new fuse
4. Refit the fuse holder

Fuse: M205 2A fast

fig 2



CONTROL PANEL

The control panel allows the user to change the mode and operation of the lighting effect by setting the mode as per the table below.

1. Press [Mode] button until the display reads the mode function you wish to change
2. Press the [Up] / [Down] buttons to toggle or scroll through the values
3. Press [Enter] to enter the sub-menus.

| MODE | FUNCTION | PROGRAM | FUNCTION / PROGRAM | (P) RUN SPEED | (F) FLASH SPEED | (C) COLOUR |
|------|----------|---------|--|-----------------|-------------------|----------------|
| Act | A 000 | 001 | Blackout | | Yes | |
| | | 002 | Red | | Yes | |
| | | 003 | Green | | Yes | |
| | | 004 | Blue | | Yes | |
| | | 005 | Yellow | | Yes | |
| | | 006 | Purple/Cyan | | Yes | |
| | | 007 | White | | Yes | |
| | | 008 | Colour Change 1 | Yes | Yes | |
| | | 009 | Colour Change 2 | Yes | Yes | |
| | | 010 | Colour Change 3 | Yes | Yes | |
| | | 011 | Colour Change 4 | Yes | Yes | |
| | | 012 | Colour Change 5 | Yes | | |
| | | 013 | Colour Change 6 | Yes | | |
| | | 014 | Sequential Colour Chase 1 | Yes | | |
| | | 015 | Sequential Colour Chase 2 | Yes | | |
| | | 016 | Sequential Colour Chase 3 | Yes | | |
| | | 017 | Sequential Colour Chase 4 | Yes | | |
| | | 018 | Sequential Colour Chase 5 | Yes | | |
| | | 019 | Sequential Colour Chase 6 | Yes | | |
| | | 020 | Sequential Colour Chase 7 | Yes | | |
| | | 021 | R B G | Red (001-100) | Green (001-100) | Blue (001-100) |
| | | 022 | Colour Fade | Yes | | |
| | | 023 | Automatic Program (sound) | | | |
| SYS | S dAd | | DMX channel addressing | | | |
| | S Aad | | Re-initialise fixture Re-establishes correct # of down-link fixtures for sequential colour chase runs | | | |

Functions detail

| Program | Function | Options |
|-----------|---------------------------|---|
| 000 | Blackout | |
| 001 – 007 | Solid Colours | F = Flash speed |
| 008 – 013 | Colour change | P = Run speed, F = Flash speed |
| 014 – 020 | Sequential colour chase | Use sound sensitivity rotary knob to adjust sound level for optimum response or decrease sensitivity completely to operate in Run speed only P = Run speed |
| 021 | R B G | P = Red, F = Green, C = Blue |
| 022 | Colour Fade | P = Run speed |
| 023 | Automatic program (sound) | |

STAND-ALONE

NOTE: There are multiple stand-alone programs available. Refer to the table on the previous page for more details

SETTINGS

To setup the lighting effect in Stand-alone mode you need to set the mode and function to the following settings

1. Press the [Mode] button until the display reads 'Act' then press [Enter]
2. Select the desired program by pressing the [Up] / [Down] buttons
3. Some programs have additional controls such as flash and run speeds. Press the [Mode] button once again to toggle additional functions, then use the [Up] / [Down] buttons to change the values

FOR SOUND ACTIVE PROGRAMS

1. Turn the Sound sensitivity pot (refer to fig 2.) anticlockwise to '0'
2. Turn up your music to the volume which will be used throughout the show
3. Then turn the sound sensitivity pot clock wise till the lighting effect moves to the sound of the beat

MASTER/SLAVE MODE

NOTE: Do not use the DMX output socket for linking LED Colour bank 40s in a Master/Slave configuration.

CONNECTIONS

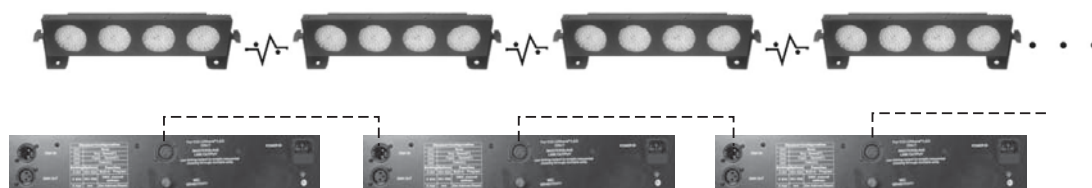
To connect multiple Led Colour bank 40 in Master/Slave mode you need to connect a 3 pin DMX lead (Refer to Fig 7) from the Master/Slave output socket of the master to the DMX input socket of the slave, then from the Master/Slave output socket of the 1st slave to the DMX input socket of 2nd slave and so on and so forth. (Refer to Fig 5).

SETTINGS

You then need to set the Led Colour bank 40s to Master/Slave mode by following these steps

1. Set the 1st unit to Stand-alone or DMX mode as per the Stand-Alone instructions
2. All the other units will automatically synchronise with the master. No other settings are required.

Fig 5.



DMX MODE

NOTE:

Do not use the Master/Slave output socket for linking in a DMX chain

To determine the address required you should refer to your DMX controller's manual

Do not forget to use a DMX terminator

Do not forget to turn off the 'Blackout' on your controller

CONNECTION

To connect the Led Colour bank 40 in DMX mode you need to use a 3 pin DMX lead (Refer to Fig 7) from the DMX output socket of the controller to the DMX input socket of the 1st unit, then from the DMX output socket of the 1st unit to the DMX input socket of 2nd unit and so on and so forth. (Refer to Fig 6)

Fig. 6



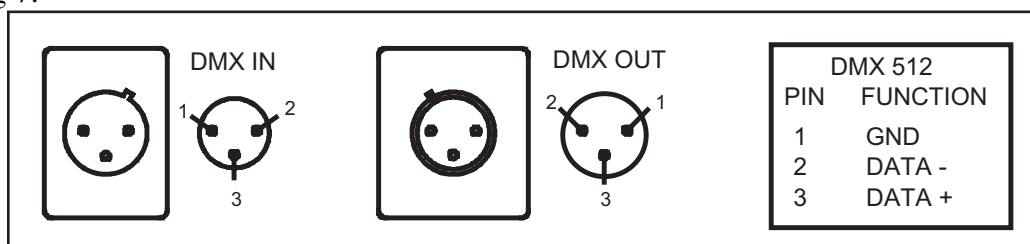
SETTINGS

You then need to set each Led Colour bank 40 to the addresses required by following the steps below

1. Press [Mode] button until the display reads 'SyS' then press [Enter]
2. Press the [Up] / [Down] buttons until the display reads 'S dAd', press [Enter]
3. Set the DMX address value by using the [Up] / [Down] buttons
4. Press the [Mode] button until the display reads 'S Aad' then press [Enter] to make permanent changes
5. Press the [Up] / [Down] buttons till the display reads 'S dAd'

DMX LEAD

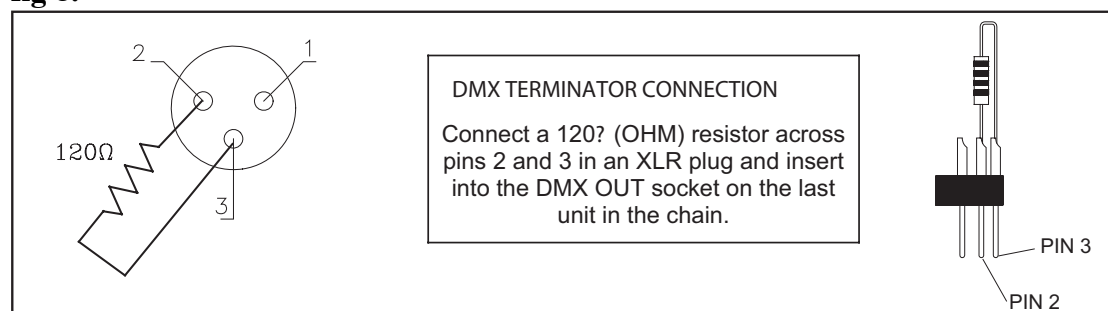
The DMX lead is used to link up multiple units. For Wiring connections refer to fig 7. fig 7.



DMX TERMINATOR

A DMX terminator helps to reduce 'noise' on the DMX chain, and makes the light respond to control more accurately. It should be plugged in to the last fixture in any chain. For Terminator connections refer to fig 8

fig 8.



DMX CHANNEL INFORMATION

NOTE

While Channel 1 is set between 000 and 079, Channel 2 and 4 will have no effect and Channel 3 will control the flash speed and sound active control.

While Channel 1 is set between 210 and 219, Channel 2, 3 and 4 will control the Red, Green and Blue respectively

The Led Colour bank 40 uses 4 DMX channels as per table 11

Table 11 DMX CHANNEL INFORMATION

| CHANNEL 1 | | CHANNEL 2 | CHANNEL 3 | CHANNEL 4 |
|-----------|------------------------------|-------------------------|---|-----------|
| Value | Function | | | |
| 000 – 009 | Blackout | No effect | 000 – 249 Flash Speed 250 – 255 Sound Active | No effect |
| 010 – 019 | Red | | | |
| 020 – 029 | Green | | | |
| 030 – 039 | Blue | | | |
| 040 – 049 | Yellow | | | |
| 050 – 059 | Purple | | | |
| 060 – 069 | Cyan | | | |
| 070 - 079 | White | | | |
| 080 – 089 | Colour Change 1 | 000 – 255 Run Speed | 000 – 249 Flash Speed 250 – 255 Sound Active | No effect |
| 090 – 099 | Colour Change 2 | | | |
| 100 – 109 | Colour Change 3 | | | |
| 110 – 119 | Colour Change 4 | | | |
| 120 – 129 | Colour Change 5 | | No effect | |
| 130 – 139 | Colour Change 6 | | | |
| 140 – 149 | Colour Chase 1 | | | |
| 150 – 159 | Colour Chase 2 | | | |
| 160 – 169 | Colour Chase 3 | | | |
| 170 – 179 | Colour Chase 4 | | | |
| 180 – 189 | Colour Chase 5 | | | |
| 190 – 199 | Colour Chase 6 | | | |
| 200 - 209 | Colour Chase 7 | | | |
| 210 - 219 | R B G | | 000 – 255 Red | |
| 220 - 229 | Colour Fade | 000 – 255 Fade Speed | No effect | No effect |
| 230-255 | Automatic program (sound) | No effect | | |

FREQUENT ANSWERED QUESTIONS

| Symptom | Fault |
|---|---|
| Unit does not power up | Check that the power outlet is turned on and fuse is OK |
| Unit powers up but no light appears | Check that the mode is set correctly and that you are controlling the unit correctly |
| Unit chases constantly and not to the beat of the music | Check that the microphone sensitivity is not turned up too high and that the mode is set correctly |
| Units do not work or is uncontrollable when linked or in DMX mode | Check that the mode is set correctly, check that all the leads are OK, check that the controller is set to pin 3 +ve (If linking the lead should come out of the Master/Slave output socket) (If using DMX the lead should come out of the DMX output socket) |

SPECIFICATIONS

| | |
|----------------------------------|---|
| Voltage: | 240V AC |
| Power Consumption: | 36W |
| Operating Frequency: | 50Hz |
| Power lead: | Removable IEC |
| Fuse: | M205 2A fast blow |
| Sound activated: | Yes with sound sensitivity control |
| Stand alone mode | Yes |
| DMX: | 4 channels Ch1: Static, Colour change, Colour chase, RGB mode and sound active mode Ch2,3,4: Dependant on Ch1 |
| Linkable | Yes |
| Effects / Control: | Push button controlled |
| Colours: | 1.6M colours |
| Output power / level: | 304 LEDs, 4 sections of 76 LEDs 40 Red, 36 Green, 36 Blue in each section |
| Included accessories / features: | Coupling bracket |
| Input connection: | Power: Male IEC DMX: Male 3 pin XLR |
| Output connection: | Master/Slave: Female 3 pin XLR DMX: Female 3 pin XLR |
| Rated lamp life: | 100 000 Hrs |
| Hanging Bracket | Yes |
| Colour: | Black |
| Weight: | 3Kg |
| Dimensions: | L572mm x H146mm x D97mm |

