USER´S MANUAL
BEDIENUNGSANLEITUNG
MANUEL D`UTILISATION
MANUAL DE USUARIO
INSTRUKCJA OBSŁUGI
MANUALE D‘ USO



CONTROL **54**

54 CHANNEL **DMX CONTROLLER**

CLCONTROL54

CONTENTS / INHALTSVERZEICHNIS / CONTENU / CONTENIDO / TREŚĆ / CONTENUTO

ENGLISH

PREVENTIVE MEASURES	3-4
INTRODUCTION	4
CONNECTIONS, CONTROLS AND INDICATORS	5-7
BATTERY OPERATION	8
SETTING UP AND WALL MOUNTING	8
DMX TECHNOLOGY	9
TECHNICAL SPECIFICATIONS	10
MANUFACTURER INFORMATION	10

DEUTSCH

SICHERHEITSHINWEISE	11-12
EINFÜHRUNG	12
ANSCHLÜSSE, BEDIEN- UND ANZEIGEELEMENTE	13-15
BETRIEB MIT BATTERIE	16
EINBAU UND WANDMONTAGE	16
DMX TECHNIK	17
TECHNISCHE DATEN	18
HERSTELLERERKLÄRUNGEN	18

FRANÇAIS

MESURES PRÉVENTIVES	19-20
INTRODUCTION	20
CONNECTEURS, CONTRÔLES ET INDICATEURS	21-23
FONCTIONNEMENT SUR PILE	24
INSTALLATION ET FIXATION MURALE	24
TECHNIQUE DMX	25
CARACTÉRISTIQUES TECHNIQUES	26
DECLARATIONS	26

ESPAÑOL

MEDIDAS DE SEGURIDAD	27-28
INTRODUCCIÓN	28
CONEXIONES, CONTROLES E INDICADORES	29-31
FUNCIONAMIENTO CON BATERÍAS	32
MONTAJE EMPOTRADO O EN PARED	32
TECNOLOGÍA DMX	33
CARACTERÍSTICAS TÉCNICAS	34
DECLARACIÓN DEL FABRICANTE	34

POLSKI

ŚRODKI OSTROŻNOŚCI	35-36
WPROWADZENIE	36
ZŁĄCZA, ELEMENTY OBSŁUGI I WSKAŹNIKI	37-39
PRACA NA ZASILANIU BATERYJNYM	40
INSTALACJA I MONTAŻ ŚCIENNY	40
TECHNOLOGIA DMX	41
DANE TECHNICZNE	42
DEKLARACJE PRODUCENTA	42

ITALIANO

MISURE PRECAUZIONALI	43-44
INTRODUZIONE	44
CONNESSIONI, ELEMENTI DI COMANDO E VISUALIZZAZIONE	45-47
FUNZIONAMENTO A BATTERIA	48
MONTAGGIO A INCASSO E A PARETE	48
TECNOLOGIA DMX	49
DATI TECNICI	50
DICHIARAZIONI DEL FABBRICANTE	50

ENGLISH

YOU'VE MADE THE RIGHT CHOICE!

We have designed this product to operate reliably over many years. Please read this User's Manual carefully, so that you can begin making optimum use of your Cameo Light product quickly. Learn more about Cameo Light on our website WWW.**CAMEOLIGHT**.COM.

PREVENTIVE MEASURES

1. Please read these instructions carefully.
2. Keep all information and instructions in a safe place.
3. Follow the instructions.
4. Observe all safety warnings. Never remove safety warnings or other information from the equipment.
5. Use the equipment only in the intended manner and for the intended purpose.
6. Use only sufficiently stable and compatible stands and/or mounts (for fixed installations). Make certain that wall mounts are properly installed and secured. Make certain that the equipment is installed securely and cannot fall down.
7. During installation, observ e the applicable safety regulations for your country.
8. Never install and operate the equipment near radiators, heat registers, ovens or other sources of heat. Make certain that the equipment is always installed so that is cooled sufficiently and cannot overheat.
9. Never place sources of ignition, e.g., burning candles, on the equipment.
10. Ventilation slits must not be blocked.
11. This appliance is designed exclusively for indoor use, do not use this equipment in the immediate vicinity of water (does not apply to special outdoor equipment - in this case, observe the special instructions noted below). Do not expose this equipment to flammable materials, fluids or gases.
12. Make certain that dripping or splashed water cannot enter the equipment. Do not place containers filled with liquids, such as vases or drinking vessels, on the equipment.
13. Make certain that objects cannot fall into the device.
14. Use this equipment only with the accessories recommended and intended by the manufacturer.
15. Do not open or modify this equipment.
16. After connecting the equipment, check all cables in order to prevent damage or accidents, e.g., due to tripping hazards.
17. During transport, make certain that the equipment cannot fall down and possibly cause property damage and personal injuries.
18. If your equipment is no longer functioning properly, if fluids or objects have gotten inside the equipment or if it has been damaged in anot her way, switch it off immediately and unplug it from the mains outlet (if it is a powered device). This equipment may only be repaired by authorized, qualified personnel.
19. Clean the equipment using a dry cloth.
20. Comply with all applicable disposal laws in your country. During disposal of packaging, please separate plastic and paper/cardboard.
21. Plastic bags must be kept out of reach of children.

FOR EQUIPMENT THAT CONNECTS TO THE POWER MAINS:

22. CAUTION: If the power cord of the device is equipped with an earthing contact, then it must be connected to an outlet with a protective ground. Never deactivate the protective ground of a power cord.
23. If the equipment has been exposed to strong fluctuations in temperature (for example, after transport), do not switch it on immediately. Moisture and condensation could damage the equipment. Do not switch on the equipment until it has reached room temperature.
24. Before connecting the equipment to the power outlet, first verify that the mains voltage and frequency match the values specified on the equipment. If the equipment has a voltage selection switch, connect the equipment to the power outlet only if the equipment values and the mains power values match. If the included power cord or power adapter does not fit in your wall outlet, contact your electrician.
25. Do not step on the power cord. Make certain that the power cable does not become kinked, especially at the mains outlet and/or power adapter and the equipment connector.
26. When connecting the equipment, make certain that the power cord or power adapter is always freely accessible. Always disconnect the equipment from the power supply if the equipment is not in use or if you want to clean the equipment. Always unplug the power cord and power adapter from the power outlet at the plug or adapter and not by pulling on the cord. Never touch the power cord and power adapter with wet hands.
27. Whenever possible, avoid switching the equipment on and off in quick succession because otherwise this can shorten the useful life of the equipment.
28. IMPORTANT INFORMATION: Replace fuses only with fuses of the same type and rating. If a fuse blows repeatedly, please contact an authorised service centre.
29. To disconnect the equipment from the power mains completely, unplug the power cord or power adapter from the power outlet.
30. If your device is equipped with a Volex power connector, the mating Volex equipment connector must be unlocked before it can be removed. However, this also means that the equipment can slide and fall down if the power cable is pulled, which can lead to personal injuries and/or other damage. For this reason, always be careful when laying cables.
31. Unplug the power cord and power adapter from the power outlet if there is a risk of a lightning strike or before extended periods of disuse.
32. The device must only be installed in a voltage-free condition (disconnect the mains plug from the mains).
33. Dust and other debris inside the unit may cause damage. The unit should be regularly serviced or cleaned (no guarantee) depending on ambient conditions (dust etc., nicotine, fog) by qualified personnel to prevent overheating and malfunction.
34. Please keep a distance of at least 0.5 m to any combustible materials.
35. Power cables to power multiple devices must have a cross-section of at least 1.5 mm². Within the EU, the cables must correspond to H05VV-F, or similar. Suitable cables are offered by Adam Hall. With these cables, you can connect multiple devices via the power OUT connection to the power IN connection of an additional device. Make sure that the total current consumption of all connected devices does not exceed the specified value on all connected devices (label on the device). Make sure to keep power cable connections as short as possible.



CAUTION:
To reduce the risk of electric shock, do not remove cover (or back). There are no user serviceable parts inside. Maintenance and repairs should be exclusively carried out by qualified service personnel.



The warning triangle with lightning symbol indicates dangerous uninsulated voltage inside the unit, which may cause an electrical shock.



The warning triangle with exclamation mark indicates important operating and maintenance instructions.



Warning! This symbol indicates a hot surface. Certain parts of the housing can become hot during operation. After use, wait for a cool-down period of at least 10 minutes before handling or transporting the device.

CAUTION! IMPORTANT INFORMATION ABOUT LIGHTING PRODUCTS!

1. The product has been developed for professional use in the field of event technology and is not suitable as household lighting.
2. Do not stare, even temporarily, directly into the light beam.
3. Do not look at the beam directly with optical instruments such as magnifiers.
4. Stroboscope effects may cause epileptic seizures in sensitive people! People with epilepsy should definitely avoid places where strobes are used.

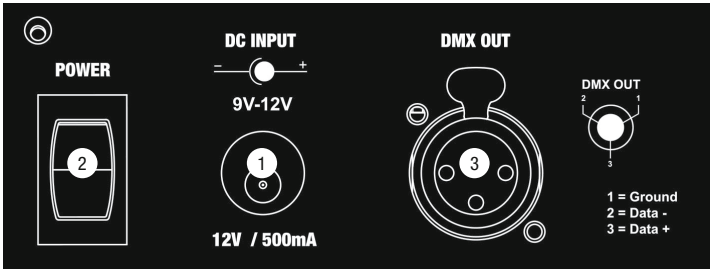
INTRODUCTION

The CLCONTROL54 is a 54-channel DMX controller with which up to 9 DMX devices, or spotlights in a group with the same DMX start address can be operated. DMX spotlights can be configured as RGB, RGBW, and RGBWA devices to easily and quickly enable different colour presets using the 9 one-touch buttons. Colour changing programs (COLOUR FADE, COLOUR JUMP, AUTO) extend the features of the DMX controller as well as of the music control (SOUND) and strobe effect (STROBE). The manual control of the DMX devices is done using the 6 smooth faders.

FEATURES

54 DMX channels, 9 separately controllable DMX units/groups, 6 smooth channel faders, 2-line LC display with lighting, light and compact, operating as a desk station, mountable, preparation for wall mounting, power supply via supplied power pack or 9 V block battery.

CONNECTIONS, CONTROLS AND INDICATORS



1 LOW VOLTAGE CONNECTOR

Connection for the voltage supply of the device. Please use only the original power pack supplied with the device.

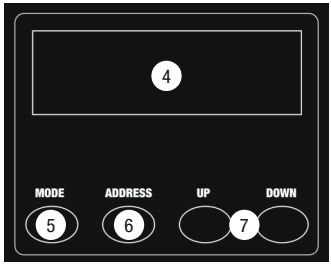
NOTE: When the equipment is operated with the power pack, the voltage supply from the battery is automatically interrupted.

2 POWER

On / Off switch.

3 DMX OUT

DMX output with female 3-pin XLR socket and standard configuration. Use a DMX cable to connect the DMX output of the DMX controller to the DMX input of your DMX device.



4 LC DISPLAY

This illuminated 2-line LC display shows the number of the currently selected device (FIX 1 - 9), as well as its starting address and channel number with the corresponding value. In addition, the display shows if the corresponding DMX unit is configured as an RGB, RGBW, or RGBWA device (press MODE).

5 MODE

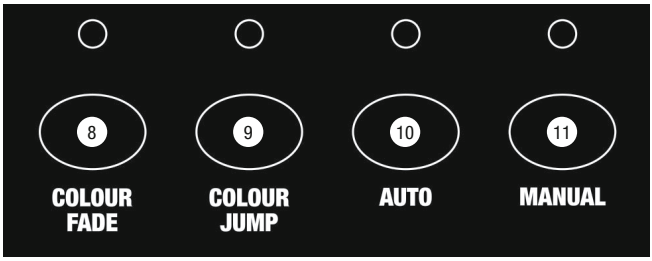
Button to configure the DMX spotlights or light groups (up to 9) as RGB, RGBW, or RGBWA devices (prerequisite for the selection of the colour macros COLOURS)

6 ADDRESS

Press the ADDRESS button to set the DMX start address of the DMX controller for Device 1 (Fixture 1) (change of address with UP and DOWN). After the change of address, confirm again with ADDRESS. The DMX start addresses of the DMX controller for the devices 2 to 9 move up automatically by 6 units (example 1: start address device 1 = 001 / start address device 2 = 007, etc., example 2: start address device 1 = 080 / start address device 2 = 086, etc.)

7 UP & DOWN

Buttons to change the DMX address of DMX controller for device 1 (Fixture 1).



8 COLOUR FADE

Colour fade effect with adjustable speed Select a DMX spotlight by pressing the FIXTURE button, and then click the one-touch button (1 to 9) associated with the desired device. Press COLOUR FADE (LED indicator above the button lights up) and set the spotlight brightness using the channel fader 3 MASTER and the speed of the colour fade effect using fader 2 FADE.

9 COLOUR JUMP

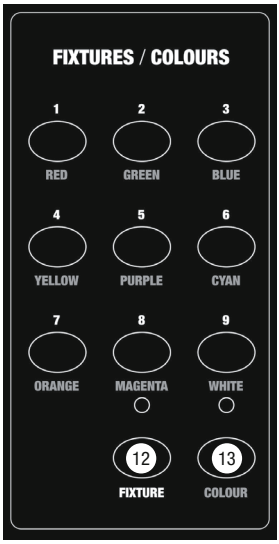
Colour jump effect with adjustable speed. Select a DMX spotlight by pressing the FIXTURE button, and then click the one-touch button (1 to 9) associated with the desired device. Press COLOUR JUMP (LED indicator above the button lights up) and set the spotlight brightness using the channel fader 3 MASTER and the speed of the colour jump effect using fader 1 SPEED.

10 AUTO

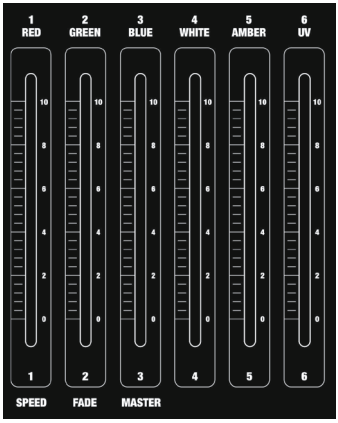
Combination of Colour Fade and Colour Jump effects with adjustable speed. Select a DMX spotlight by pressing the FIXTURE button, and then click the one-touch button (1 to 9) associated with the desired device. Press AUTO (LED indicator above the button lights up) and set the spotlight brightness using the channel fader 3 MASTER, the speed of the colour fade effect using fader 2 FADE, and the speed of the colour jump effect using fader 1 SPEED.

11 MANUAL

The manual control of DMX devices is done using the channel faders (e.g. colour mixing). Select a DMX device by pressing the FIXTURE button, and then click the one-touch button (1 to 9) associated with the desired device. Press MANUAL (LED indicator above the button lights up) and make the desired adjustments using the channel faders 1 to 6.



14



15



12 FIXTURE

To control one of the up to 9 DMX devices (or groups) connected to the DMX controller as desired, press the FIXTURE button (LED indicator above the button will light up), and then one-touch button (1 - 9), associated with the corresponding device (or group).

13 COLOUR

9 different colour macros can be quickly and easily enabled as presets using the one-touch buttons. Select a DMX spotlight, as described in point 12, press the COLOUR button and select the desired colour preset using the one-touch buttons (N 14). The brightness is adjusted on the channel fader 3 MASTER.

14 ONE-TOUCH BUTTONS

One-touch buttons for selecting the DMX devices connected to the DMX controller, or the colour presets (see points 12 and 13).

15 CHANNEL FADER

Channel fader 1 to 6 for controlling DMX devices connected to the DMX controller in the operating modes COLOUR FADE, COLOUR JUMP, AUTO, MANUAL and the colour presets COLOUR, as well as the stroboscope effect STROBE.

16 SOUND SENSITIVITY

Rotary encoder for adjusting the sensitivity of the integrated microphone in the music control mode (SOUND). When turned to the left, the sensitivity is lowered, when turned to the right, it is increased.

17 SOUND

Press the SOUND button (LED indicator above the button lights up), to control the changing of the colours in the operating modes COLOUR FADE, COLOUR JUMP and AUTO via the integrated microphone (bass pulses). Press SOUND to disable the Music control mode (LED indicator turns off).

18 STROBE

Activate the stroboscope effect by pressing STROBE (LED indicator above the button lights up) and set the strobe speed using the channel fader 1 SPEED (fader on 0 = strobe effect disabled, fader on 10 = fastest flash speed). Press STROBE to disable the strobe control mode (LED indicator turns off).

19 BLACKOUT

When pressing the BLACKOUT button, the DMX values of all connected DMX units are set to 0, i.e. the light of the DMX spotlights goes out. Pressing BLACKOUT once more re-activates the previously selected mode of the devices.

BATTERY OPERATION



To operate the DMX controller with a battery, open the battery compartment on the bottom of the unit by pressing the OPEN latch lever in the direction of the arrow and lift the battery compartment cover. Connect the internal battery clip to the plus and minus poles of a fresh 9 V block battery, place the battery into the battery compartment and close the battery compartment cover with light pressure, until the latch lever clicks into place. When the equipment is operated with the power pack, the voltage supply from the battery is automatically interrupted. Remove the battery before extended periods of disuse and operation only with the power pack.

SETTING UP AND WALL MOUNTING



There are 2 mounting holes left and right on the edges of the front panel for the installation. The fixing holes for the wall mounting can be found at the back of the housing.

DMX TECHNOLOGY



DMX-512

DMX (Digital Multiplex) is the designation for a universal transmission protocol for communications between corresponding devices and controllers. A DMX controller sends DMX data to the connected DMX device(s). The DMX data is always transmitted as a serial data stream that is forwarded from one connected device to the next via the "DMX IN" and "DMX OUT" connectors (XLR plug-type connectors) that are found on every DMX-capable device, provided the maximum number of devices does not exceed 32 units. The last device in the chain needs to be equipped with a terminator (terminating resistor).

DMX CONNECTION

DMX is the common "language" via which a very wide range of types and models of equipment from various manufacturers can be connected with one another and controlled via a central controller, provided that all of the devices and the controller are DMX compatible. For optimum data transmission, it is necessary to keep the connecting cables between the individual devices as short as possible. The order in which the devices are integrated in the DMX network has no influence on the addresses. Thus the device with the DMX address 1 can be located at any position in the (serial) DMX chain: at the beginning, at the end or somewhere in the middle. If the DMX address 1 is assigned to a device, the controller "knows" that it should send all data allocated to address 1 to this device regardless of its position in the DMX network.

SERIAL CONNECTION OF MULTIPLE LIGHTS

1. Connect the male XLR connector (3-pin or 5-pin) of the DMX cable to the DMX output (female XLR socket) of the first DMX device (e.g. DMX-Controller).
2. Connect the female 3-pin XLR connector of the DMX cable connected to the first projector to the DMX input (male 3-pin socket) of the next DMX device. In the same way, connect the DMX output of this device to the DMX input of the next device and repeat until all devices have been connected. Please note that as a rule, DMX devices are connected in series and connections cannot be shared without active splitters. The maximum number of DMX devices in a DMX chain should not exceed 32 units.

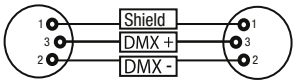
The Adam Hall 3 STAR, 4 STAR, and 5 STAR product ranges include an extensive selection of suitable cables.

DMX CABLES

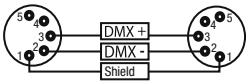
When fabricating your own cables, always observe the illustrations on this page. Never connect the shielding of the cable to the ground contact of the plug, and always make certain that the shielding does not come into contact with the housing of the XLR plug. If the shielding is connected to the ground, this can lead to short-circuiting and system malfunctions.

Pin Assignment

DMX cable with 3-pin XLR connectors:



DMX cable with 5-pin XLR connectors (pin 4 and 5 are not used):

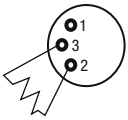


DMX TERMINATORS (TERMINATING RESISTORS)

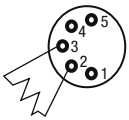
To prevent system errors, the last device in a DMX chain needs to be equipped with a terminating resistor (120 ohm, 1/4 Watt).
3-pin XLR connector with a terminating resistor: K3DMXT3
5-pin XLR connector with a terminating resistor: K3DMXT5

Pin Assignment

3-pin XLR connector:



5-pin XLR connector:

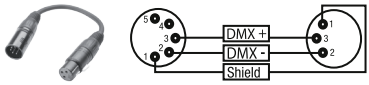


DMX ADAPTER

The combination of DMX devices with 3-pin connectors and DMX devices with 5-pin connectors in a DMX chain is possible with suitable adapters.

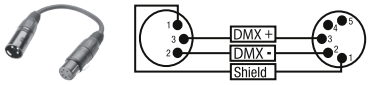
Pin Assignment

DMX Adapter 5-pin XLR male to 3-pin XLR female: K3DGF0020
Pins 4 and 5 are not used.



Pin Assignment

DMX Adapter 3-pin XLR male to 5-pin XLR female: K3DHM0020
Pins 4 and 5 are not used.



TECHNICAL SPECIFICATIONS

Model Name:	CLCONTROL54
Product Type:	DMX mixer
Type:	table, installation, wall mounting device
Number of DMX Channels:	54 (9 x 6 channels)
Control:	USITT DMX 512 protocol
Functions:	Manual Mode, Auto Mode, Sound Control, Colour Macros, Colour Fade, Colour Jump, Strobe, Blackout
DMX Output:	3-pin XLR female
Controls:	6 x channel faders, 22 control buttons, rotary encoder for microphone sensitivity, on / off switch
Display Elements:	backlit 2-line LC display, 9 indicator LEDs
Power Supply:	external universal power pack, 9 V block battery
Operating Voltage:	9 - 12 V DC
Power Consumption:	650 mW.
Housing Material:	metal
Housing Colour:	grey
Dimensions (W x H x D):	316 x 63 x 140 mm
Weight:	1.54 kg
Other Features:	power pack included, rubber feet, ready for installation, ready for wall mounting

MANUFACTURER´S DECLARATIONS

MANUFACTURER'S WARRANTY & LIMITATIONS OF LIABILITY

You can find our current warranty conditions and limitations of liability at: http://www.adamhall.com/media/shop/downloads/documents/manufacturersdeclarations.pdf. To request warranty service for a product, please contact Adam Hall GmbH, Daimler Straße 9, 61267 Neu Anspach / Email: Info@adamhall.com / +49 (0)6081 / 9419-0.



CORRECT DISPOSAL OF THIS PRODUCT

(valid in the European Union and other European countries with a differentiated waste collection system)

This symbol on the product, or on its documents indicates that the device may not be treated as household waste. This is to avoid environmental damage or personal injury due to uncontrolled waste disposal. Please dispose of this product separately from other waste and have it recycled to promote sustainable economic activity. Household users should contact either the retailer where they purchased this product, or their local government office, for details on where and how they can recycle this item in an environmentally friendly manner. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial waste for disposal.

cameo
colours of light

WWW.**CAMEOLIGHT**.COM

Adam Hall GmbH | Daimlerstrasse 9 | 61267 Neu-Anspach | Germany
Tel. +49(0)6081/9419-0 | Fax +49(0)6081/9419-1000
web : www.adamhall.com | e-mail : mail@adamhall.com

REV: 01