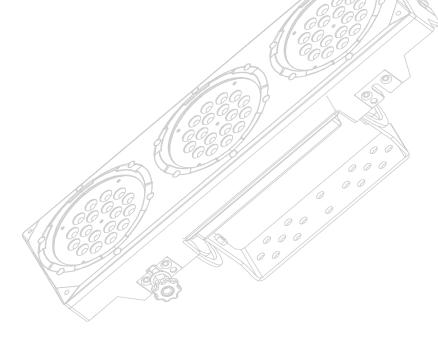
COLORado™ 3P









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Notice!

As a part of CHAUVET's commitment to continual process improvement, this fixture has been upgraded from the original production version to allow the output to be filmed by most cameras without flickering. As a consequence, the current version of the COLORado 3 may not synchronize properly with older non-400Hz COLORado 3's when using the strobe channel (channel 8) or the color-cycle modes on channel 9. However, these functions will synchronize properly with other 400Hz units. All other operating characteristics should be identical between the 400Hz version and the older non-400Hz version.

If desired, older versions of the COLORado 3 can be upgraded to the latest version of the COLORado 3. Please contact Chauvet at the location below for the cost and time required for this upgrade.

CHAUVET

Address: Service Dept.

5200 NW 108th Avenue Sunrise, FL 33351 (U.S.A.)

Support (Email): tech@chauvetlighting.com Telephone: (954) 929-1115 - (Press 4) Fax: (954) 929-5560 - (Attention: Service)

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Information and specifications in this User Manual are subject to change without notice. CHAUVET assumes no responsibility or liability for any errors or inaccuracies that may appear in this manual.

1. Before You Begin

Unpacking Instructions

Immediately upon receiving a product, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Note: If you should require sending any items back to CHAUVET, call CHAUVET for

a (RMA) Return Merchandise Authorization number. The factory will not allow

any shipments without an RMA.

Your shipment includes the following:

1 x COLORado™ 3

· 1 x Power cable with plug

1 x IP66 power extension cable

1 x IP66 signal extension cable

1 x DMX input cable

1 x DMX output cable

Warranty Card

Users Manual

Contact Us

World Wide

General Information Chauvet Lighting

5200 NW 108th Avenue Sunrise, FL 33351 voice: 954.929.1115 fax: 954.929.5560 toll free: 800.762.1084

Technical Support Chauvet Lighting

5200 NW 108th Avenue Sunrise, FL 33351

voice: 954.929.1115 (Press 4)

fax: 954.929.5560 (Attention: Service)

World Wide Web www.chauvetlighting.com

Safety Instructions



Please read these instructions carefully, which includes important information about the installation, usage and maintenance of this product.

- Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Always make sure that you are connecting to the proper voltage, and that the line voltage you are connecting to is not higher than that stated on the decal or rear panel of the fixture.
- · Make sure there are no flammable materials close to the unit while operating.
- Always disconnect from power source before servicing or replacing fuse and be sure to replace with same fuse source.
- · Secure fixture to fastening device using a safety chain.
- Maximum ambient temperature (Ta) is 95°F (35°C). Do not operate fixture at temperatures higher than this.
- In the event of a serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- Don't connect the device to a dimmer pack.
- · Make sure the power cord is never crimped or damaged.
- Never disconnect the power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to the light source while it is on.
- · Do not daisy chain power to more than 23 units.

Caution!

There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact CHAUVET at: 954-929-1115.

LED Expected Lifespan

LEDs gradually decline in brightness over time. HEAT is the dominant factor that leads to the acceleration of this decline. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal or singular optimum conditions. For this reason when all color LEDs are used at their fullest intensity, life of the LEDs is significantly reduced. It is estimated that a viable lifespan of 40,000 to 50,000 hours will be achieved under normal operational conditions. If improving on this lifespan expectancy is of a higher priority, place care in providing for lower operational temperatures. This may include climatic-environmental and the reduction of overall projection intensity.

2. Introduction

Features

- 3, 4, 9 or 12-channel DMX-512 LED bank system (with ID addressing)
- Operating modes:

3-channel: RGB control 4-channel: RGB, dimmer

9-channel: RGB, ID, dim, macro, strobe, automatic, custom, DMX modes

9-channel: RGB of 3 separate sections

12-channel: RGB, CMY, ID, dim, macro, strobe, automatic, custom, DMX

modes

- Blackout/static/dimmer/strobe
- Color macros for individual pod control
- RGB color mixing with or without DMX controller
- Automatic DMX addressing system (ADAS)
- Built-in automated programs via master/slave, DMX or COLOR-CON

ADDITIONAL FEATURES

- High-power, 1W (350mA) LEDs
- o Ingress Protection: IP66
- o Interlock multiple units to create blinder, wall or strip light effects
- o Additional power output: max 23 units @ 120V (see manual for details)
- o LCD display with password protection

Introduction

DMX Channel Summary

| DIVIA Channel Summary | | | | | |
|-----------------------|------------------------------|---|--|--|--|
| STAGE 1 [DMX MODE 1] | CHANNEL | DESCRIPTION | | | |
| | 1 | Red | | | |
| | 2 | Green | | | |
| | 3 | Blue | | | |
| | 4 | Yellow | | | |
| | 5 | Cyan | | | |
| | 6 | Purple | | | |
| | 7 | White | | | |
| | 8 | Strobe | | | |
| | 9 | Mode Selection Color-cycle Mode 245 <> 255 : DMX Mode 2 | | | |
| | 10 | ID Address Selection | | | |
| | 11 | Module Selection | | | |
| | | | | | |
| | 12 | Effect Macro | | | |
| | | | | | |
| STAGE 1 [DMX MODE 2] | | | | | |
| STAGE 1 [DMX MODE 2] | 12 | Effect Macro | | | |
| STAGE 1 [DMX MODE 2] | 12 CHANNEL | Effect Macro DESCRIPTION | | | |
| STAGE 1 [DMX MODE 2] | 12 CHANNEL 1 | DESCRIPTION Module #1 | | | |
| STAGE 1 [DMX MODE 2] | 12 CHANNEL 1 2 | DESCRIPTION Module #1 Module #2 | | | |
| STAGE 1 [DMX MODE 2] | 12 CHANNEL 1 2 3 | DESCRIPTION Module #1 Module #2 | | | |
| STAGE 1 [DMX MODE 2] | 12 CHANNEL 1 2 3 4 | DESCRIPTION Module #1 Module #2 Module #3 | | | |
| STAGE 1 [DMX MODE 2] | 12 CHANNEL 1 2 3 4 5 | DESCRIPTION Module #1 Module #2 Module #3 | | | |
| STAGE 1 [DMX MODE 2] | 12 CHANNEL 1 2 3 4 5 6 | DESCRIPTION Module #1 Module #2 Module #3 | | | |
| STAGE 1 [DMX MODE 2] | 12 CHANNEL 1 2 3 4 5 6 7 | DESCRIPTION Module #1 Module #2 Module #3 No Function | | | |
| STAGE 1 [DMX MODE 2] | 12 CHANNEL 1 2 3 4 5 6 7 8 | DESCRIPTION Module #1 Module #2 Module #3 No Function Strobe Mode Selection | | | |

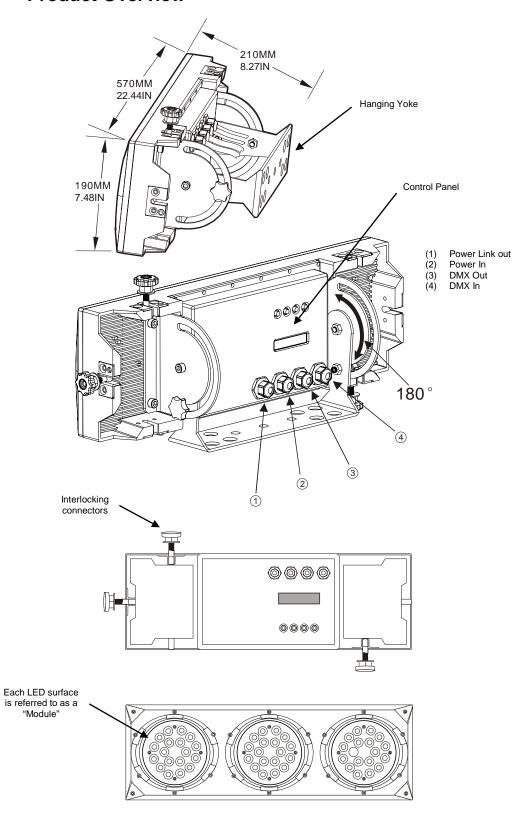
No Function

11

12

| STAGE 2 [DMX MODE 1] | CHANNEL | DESCRIPTION |
|----------------------|--|---|
| | 1 | Dimmer |
| | 2 | Red |
| | 3 | Green |
| | 4 | Blue |
| | 5 | Color Macros |
| | 6 | Strobe |
| | | Mode Selection |
| | 7 | Color-cycle Mode 245 <> 255 : DMX Mode 2 |
| | 8 | ID Address Selection |
| | 9 | Module Selection |
| | 10 | Effect Macro |
| | ii | 1 |
| STAGE 2 [DMX MODE 2] | CHANNEL | DESCRIPTION |
| | 1 | Module #1 |
| | 2 | Module #2 |
| | 3 | Module #3 |
| | 4 | No Function |
| | 5 | TVOT UNION |
| | 6 | Strobe |
| | 7 | Mode Selection 245 <> 255 : DMX Mode 2 |
| | 8 | ID Address Selection |
| | 0 | |
| | 9 | No Function |
| | 10 | No Function |
| | | No Function |
| Pixel | | No Function DESCRIPTION |
| PIXEL | 10 | |
| Pixel | 10 | DESCRIPTION |
| PIXEL | 10 CHANNEL 1 | DESCRIPTION Block 1Red |
| PIXEL | 10 CHANNEL 1 2 | DESCRIPTION Block 1Red Block 1 Green |
| PIXEL | 10 CHANNEL 1 2 3 4 5 | DESCRIPTION Block 1 Red Block 1 Green Block 1 Blue Block 2 Red Block 2 Green |
| PIXEL | 10 CHANNEL 1 2 3 4 5 6 | DESCRIPTION Block 1 Red Block 1 Green Block 1 Blue Block 2 Red |
| PIXEL | 10 CHANNEL 1 2 3 4 5 6 7 | DESCRIPTION Block 1 Red Block 1 Green Block 1 Blue Block 2 Red Block 2 Green Block 2 Blue Block 3 Red |
| PIXEL | 10 CHANNEL 1 2 3 4 5 6 7 8 | DESCRIPTION Block 1 Red Block 1 Green Block 1 Blue Block 2 Red Block 2 Green Block 2 Blue Block 3 Red Block 3 Green |
| PIXEL | 10 CHANNEL 1 2 3 4 5 6 7 | DESCRIPTION Block 1 Red Block 1 Green Block 1 Blue Block 2 Red Block 2 Green Block 2 Blue Block 3 Red |
| | 10 CHANNEL 1 2 3 4 5 6 7 8 9 | DESCRIPTION Block 1 Red Block 1 Green Block 1 Blue Block 2 Red Block 2 Green Block 2 Blue Block 3 Red Block 3 Green Block 3 Green |
| PIXEL ARC 1 | 10 CHANNEL 1 2 3 4 5 6 7 8 | DESCRIPTION Block 1 Red Block 1 Green Block 1 Blue Block 2 Red Block 2 Green Block 2 Blue Block 3 Red Block 3 Green |
| | 10 CHANNEL 1 2 3 4 5 6 7 8 9 | DESCRIPTION Block 1 Red Block 1 Green Block 2 Red Block 2 Green Block 2 Blue Block 3 Red Block 3 Green Block 3 Green Block 3 Blue |
| | 10 CHANNEL 1 2 3 4 5 6 7 8 9 CHANNEL 1 | DESCRIPTION Block 1 Red Block 1 Green Block 2 Red Block 2 Green Block 2 Blue Block 3 Red Block 3 Green Block 3 Blue |
| | 10 CHANNEL 1 2 3 4 5 6 7 8 9 CHANNEL 1 2 | DESCRIPTION Block 1 Red Block 1 Green Block 2 Red Block 2 Green Block 2 Blue Block 3 Red Block 3 Green Block 3 Blue DESCRIPTION Red Green |
| | 10 CHANNEL 1 2 3 4 5 6 7 8 9 CHANNEL 1 2 | DESCRIPTION Block 1 Red Block 1 Green Block 2 Red Block 2 Green Block 2 Blue Block 3 Red Block 3 Green Block 3 Blue DESCRIPTION Red Green |
| ARC 1 | 10 CHANNEL 1 2 3 4 5 6 7 8 9 CHANNEL 1 2 3 | DESCRIPTION Block 1 Red Block 1 Green Block 2 Red Block 2 Green Block 2 Blue Block 3 Red Block 3 Green Block 3 Green Block 3 Green Block 3 Blue |
| ARC 1 | 10 CHANNEL 1 2 3 4 5 6 7 8 9 CHANNEL 1 2 3 | DESCRIPTION Block 1 Red Block 1 Green Block 2 Red Block 2 Green Block 2 Blue Block 3 Red Block 3 Green Block 3 Blue DESCRIPTION Red Green Blue |
| ARC 1 | 10 CHANNEL 1 2 3 4 5 6 7 8 9 CHANNEL 1 2 3 | DESCRIPTION Block 1 Red Block 1 Green Block 2 Blue Block 2 Green Block 2 Blue Block 3 Red Block 3 Green Block 3 Blue DESCRIPTION Red Green Blue |

Product Overview



3. Setup

AC Power

Warning!

Verify that the power requirement label on your unit matches the line voltage applied. All fixtures must be connected to circuits with a suitable Earth Ground.

- To determine the power requirements for a particular fixture, see the label affixed to the back plate
 of the fixture or refer to the fixture's specifications chart.
- · A fixture's listed current rating is its average current draw under normal conditions.
- All fixtures must be powered directly off a switched circuit and cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch.
- Before applying power to a fixture, check that the source voltage matches the fixture's requirement.
- · All fixtures must be connected to circuits with a suitable Earth Ground.

Power Cable Configuration

| CABLE | Pin | International | Screw Color |
|--------------|-------|---------------|-----------------|
| Brown Live | | L | Yellow or Brass |
| BLUE Neuti | | N | Silver |
| YELLOW/GREEN | Earth | EG (Ground) | Green |

Mounting

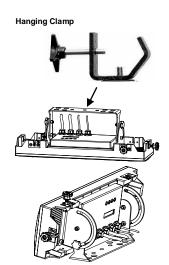
Orientation

This fixture can be mounted on a truss using a clamp in any position.

Rigging

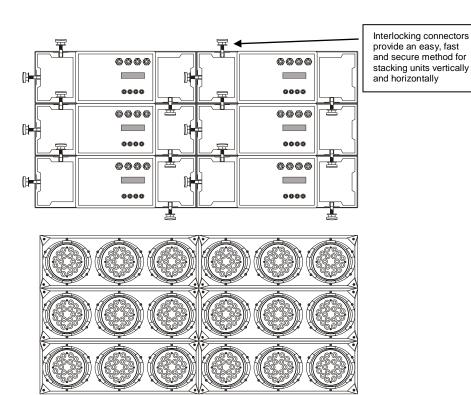
The fixture includes a mounting yoke to which a rigging clamp can be attached. You must supply your own clamp and make sure the clamp is capable of supporting the weight of this fixture. You can order C or O-clamps from any CHAUVET dealer or distributor.

- Block access below the work area and use suitable and stable platform when installing or servicing fixture.
- Align the clamp screw with the center hole on the yoke and tighten
- 3. Verify the structure can hold 10 times the weight of all to-be installed fixtures
- 4. Adjust the angle on the yoke arm as necessary.
- 5. Always use a safety cable or chain as a secondary source of attachment. The safety cable must hold 10 times the weight of the fixture. If safety cable attachment point is provided that is permanently affixed to the surface or body of the fixture, use that instead of looping through a hanging yoke/arm.



Stacking

The COLORado™ 3 can be stacked vertically and horizontally creating a blinder or a strip light. Stack them horizontally to increase intensity of the projection for more distant throws or to use as a blinder effect. The strip light stacking can be used for runway lighting and cycloramas.



COLORado™ stacked for use as a Blinder or Large Wash Flood

Fixture Linking

You will need a serial data link to run light shows of one or more fixtures using a DMX-512 controller or to run synchronized shows on two or more fixtures set to a master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

The COLORado™ 3 fixtures use 12 channels (maximum) of DMX control.

Important: Fixtures on a serial data link must be daisy chained in one single line. To

comply with the EIA-485 standard no more than 32 devices should be connected on one data link. Connecting more than 32 fixtures on one serial data link without the use of a DMX optically isolated splitter may result in deterioration of the digital DMX signal.

Maximum recommended serial data link distance: 500 meters (1640 ft.)

Maximum recommended number of fixtures on a serial data link: 32 fixtures

Data Cabling

To link fixtures together you must obtain data cables. You can purchase CHAUVET certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own

cable please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

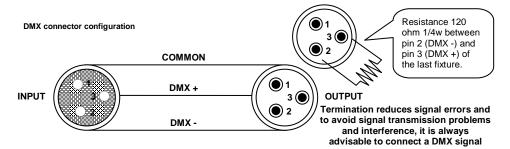
DMX Data Cable

Use a Belden@ 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Standard microphone cables cannot transmit DMX data reliably over long distances. The cable will have the following characteristics:

- 2-conductor twisted pair plus a shield
- Maximum capacitance between conductors 30 pF/ft.
- Maximum capacitance between conductor and shield 55 pF/ft.
- Maximum resistance of $20\Omega / 1000$ ft.
- Nominal impedance 100 140 Ω

Cable Connectors

Cabling must have a male XLR connector on one end and a female XLR connector on the other end.



CAUTION Do not allow contact between the common and the fixture's chassis ground. Grounding the common can cause a ground loop and your fixture to perform erratically. Test cables with OHM meter to verify correct polarity and to make sure the pins are not grounded or shorted to the shield or each other.

3-Pin to 5-Pin Conversion Chart

Note!

If you use a controller with a 5 pin DMX output connector, you will need to use a 5 pin to 3 pin adapter. CHAUVET Model No: DMX5M.

The chart below details a proper cable conversion:

3 PIN TO 5 PIN CONVERSION CHART

| Conductor | 3 Pin Female (output) | 5 Pin Male (Input) |
|-------------------|-----------------------|--------------------|
| Ground/Shield | Pin 1 | Pin 1 |
| Data (-)signal | Pin 2 | Pin 2 |
| Data (+) signal | Pin 3 | Pin 3 |
| Do not use | | Do not use |
| Do not use | | Do not use |

Setting up a DMX Serial Data Link

Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the controller.

Universal DMX Controller

Connect the end of the cable coming from the controller which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector.

Then, proceed to connect from the output as stated above to the input of the following fixture and so on.

CHAUVET Certified DMX Data Cables

| Order Code | Description |
|------------|-----------------------|
| DMX1.5 | DMX Cable 1.5m/4.9ft |
| DMX4.5 | DMX Cable 4.5m/14.8ft |
| DMX10 | DMX Cable 10m/32.8ft |

This drawing provides a general illustration of the DMX Input/Output panel of a lighting fixture. X IN SERIAL DATA LINK

DATA LINK

Control Options

The COLORado[™] 3 is addressable in the DMX range of 001 to 512 in its simplest control form, this allows for the control of 20 fixtures; however, a secondary "ID" address system exists for use in a limited DMX universe and architectural environments. The "ID" address system allows the user to assign up to 66 fixtures within the same DMX address. In effect, multiplying the control of COLORado's™ within a single universe to 1,320 fixtures. The COLORado's™ "ID" address system is accessed using DMX channel 10. Consideration must be placed when programming live performances or cues that need to trigger on demand or on a time line. So, to remain within one second execution time, program no greater than 10 fixtures on ID addressing per DMX channel.

ADAS Overview

Automatic DMX512 Addressing System. Up to 20 fixtures in one universe can be automatically addressed. In ADAS with ID address setting, upon activation of CH8 and CH10 at value 255, the fixtures will self DMX address. This address is not random; it is calculated using the {ADAS fader no} value setting which the user sets in advance. The user can choose between 001 and 244 for the ADAS fader value, this value would be set to at least the number of control channels for a COLORado™ (which is 12) or the number of channel faders on a small console maybe 16 OR 18 (i.e. for a DMX 50). The ADAS DMX address is calculated within each fixture using the following method;

{ADAS fader no value] x (ID - 1)} + 1 = ADAS DMX Address Let's see how that translates, I'll use an ID value of 2 and an **{ADAS fader no}** value of 12; {(ADAS=12) x ([ID=2] - 1)} + 1 || {12 x (2-1)} + 1 || {12 x 1} + 1 = (13) DMX Address

COLORado ™ Control Quick Setup

For detailed instructions on display panel operations and functions please advance to the section titled; "Display Panel Functions". These steps assume that you have read and are familiar with setting up a DMX serial data link.

DMX-512 control without "ID" address

The COLORado™ operates on 12 channels of DMX. Address each fixture in increments of 12 channels. (I.e. 1,13,25,37 etc...) To save time you can use the same DMX address for each fixture. All fixtures will then respond simultaneously to control. You may also group your fixtures and address those groups alike for faster programming and control.

- Access the control panel's {DMX512 address} function by pressing the (UP/DOWN) buttons until the function is displayed
- 2. Press the (SET) button to enter panel function.
- 3. Use the (UP/DOWN) buttons to increase or decrease channels between 001 and 244.
- 4. Press the (SET) button to confirm action.

Deactivate ID addressing in each fixture by setting panel function (ID ON/OFF) to OFF. (MENU) \ddot{U} (Settings) \ddot{U} (ID ON/OFF) \ddot{U} [OFF]

Notes:

If ID addressing is not deactivated in the fixture's control panel function, unintended results may occur if values are present in channel 10. Make sure values on channel 10 are set to "0".

DMX-512 addressing with ID address

Follow instructions 1 ~ 4 for DMX512 addressing.

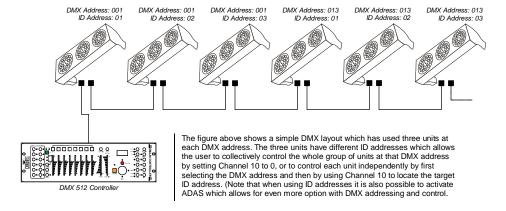
Activate ID addressing in each fixture by setting panel function {ID ON/OFF} to ON. {MENU} \ddot{U} {Settings) \ddot{U} {ID ON/OFF} \ddot{U} [ON]

For every DMX512 starting address the user can set 66 separate ID addresses.

Set ID addresses in each fixture by setting panel function {ID address} to incremental values. (i.e. 1,2,3,4,5,6,etc...)

{MENU} Ü {Settings} Ü {ID address} Ü [01 ~ 66]

ID addresses are accesible using Channel 10.



ADAS with ID address

With ADAS activated it is not necessary to set DMX512 addresses on each fixture. The fixture will automatically assign a temporary DMX address based on the fixture ID address and the value of {ADAS fader no} that will be assigned.

- 1. Set ID addresses as previously explained in ascending numerical order.
- 2. Set {ADAS ON/OFF} to ON. {MENU} Ü {Settings} Ü {ADAS ON/OFF} Ü [ON]
- 3. Set {ADAS fader no} to "12". Which is the number of control channels on a COLORado™. {MENU} Ü {Settings} Ü {ADAS fader no} Ü [12]
- 4. Activate **ADAS** DMX addressing by setting **Channels 8** and **10** to value **255**. (Faders 8 & 10 all the way up!)
- 5. A DMX address will be calculated and temporarily assigned as explained in the "ADAS Overview" section.
- 6. Deactivate **ADAS** DMX addressing by setting **Channels 8**, **10** and **11** to value **255**. (Faders 8, 10 & 11 and the way up!). All fixtures will return to the DMX address previously set before the ADAS activation.

Note: You must set channels 8, 10, and 11 to 255 for EACH fixture you want to deactivate ADAS DMX addressing. For example, if a fixture has a starting address of 17, you must set DMX channels 24, 26, and 27.

You can make the temporary ADAS DMX address permanent on each fixture by selecting the **{ADAS copy}** function.

{MENU} Ü {Settings} Ü {ADAS copy} Ü [ON] (Will store the new DMX address)

Important When using ADAS, all fixtures must have the following settings;

{ID address} All ID addresses need to be set in ascending order

{ID ON/OFF} Set to [ON]

{ADAS fader no} All units set to the same value

{ADAS ON/OFF} Set to [ON]

COLORcon™ setup

1. FIXTURE CONTROL PANEL SETUP

Activate ID addressing in each fixture by setting panel function {ID ON/OFF} to ON. {MENU} \ddot{U} {Settings) \ddot{U} {ID ON/OFF} \ddot{U} [ON]

Set ID addresses in each fixture by setting panel function {ID address} to incremental values. (I.e. 1,2,3,4,5,6,etc...)

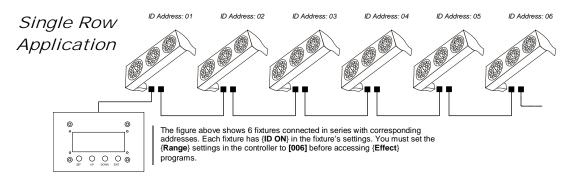
{MENU} Ü {Settings} Ü {ID address} Ü [01 ~ 66]

It is not necessary to set the DMX address.

2. CONTROLLER SETUP

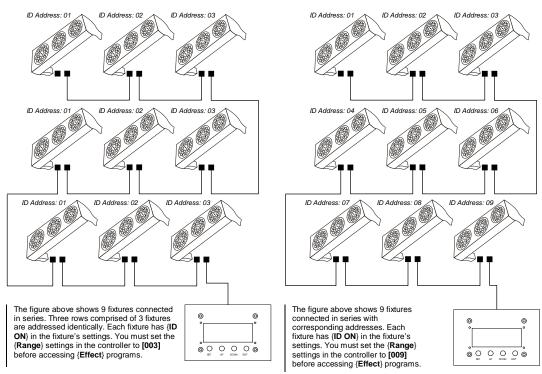
When using the **{Effect program}** function, it is necessary to set the **{Settings}** \dot{U} **{Range}** setting, which is the quantity of fixtures in series.

{MENU} Ü {Settings} Ü {Range} Ü [(No. of fixtures)]



Repeat Row Block Application

Block Application

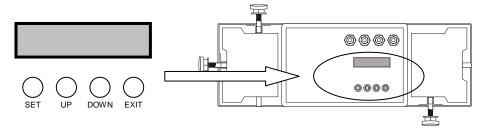


Setting the DMX address

Each fixture requires a "start address" from 1 to 244. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that occupies or uses 7 channels of DMX and was addressed to start on DMX channel 100, would read data from channels: 100, 101, 102, 103, 104, 105 and 106. Choose start addresses so that the channels used do not overlap and note the start address selected for future reference. The COLORado™ 3 uses 12 channels of DMX. If this is your first time using DMX, we recommend reading the DMX Primer in the Appendix Section.

Control Panel Functions

All fixture functions and settings are accessible via the built in control panel interface.



| Виттом | FUNCTION | | | |
|--------|---|--|--|--|
| SET | Enables the currently displayed menu or sets the currently selected value in to the selected function | | | |
| UP | Navigates upwards through the menu list and increases the numeric value when in a function | | | |
| DOWN | Navigates downwards through the menu list and decreases the numeric value when in a function | | | |
| EXIT | Exits from the current menu or function | | | |

Menu Map

| Main Function | SUB-FUNCTION | SELECTION | Instruction |
|----------------|--|---|---|
| Static color | Red Green Blue Yellow Cyan Purple White Strobe | 000 ~ 255* (0 ~ 100%) *Strobe range is 0 ~ 20 (000 ~ 255) | User can combine Red, Green and Blue to generate a custom color Select intensity over pre-composed colors yellow, cyan, purple and white Select strobing frequency between 0 and 20Hz |
| DMX512 address | 1//// | 001 ~ 512 | Sets the DMX starting address |
| Personality | STAGE 1 STAGE 2 PIXEL ARC 1 ARC+D | | RGB for each module RBG RGB + D |
| Run Mode | DMX | | To operate with DMX control |
| Run Mode | CON | | To operate with the COLOr-CON |
| Auto program | | 1 2 3 4 5 6 7 | Choose from 8 Automatic run programs |
| | ID address | 01 ~ 66 | Assigns the ID address to a fixture |
| | ID ON/OFF | On ~ Off | Either enables or disables ID addressing |
| | ADAS faders no | 01 ~ 244 | Sets the number of ADAS channels for use when automating DMX channel assignment |
| Settings | ADAS ON/OFF | On ~ Off | Enables the Automatic DMX512 Addressing System |
| | ADAS copy | On ~ Off | When activated the DMX512 address assigned by the ADAS will become permanent on the fixture |
| | Factory settings | Reset confirm | Resets fixture to factory default settings |
| | Dimmer start | 001 or 005 | |
| | ON/OFF | On ~ Off | When password is set to on the control panel will ask for a password each time the control panel is accessed |
| Password | Set Password | [???????] | Use UP and DOWN buttons to set and press SET to confirm Note! If you forget the password use the following factory password: UP, DOWN, UP, DOWN, UP, UP, DOWN, DOWN |

Manual Power ON/OFF

The $\mathsf{COLORado}^\mathsf{TM}$ can be turned on and off using the control panel.

| Power | ACTION |
|------------|---|
| IIIrn ()FF | When {MENU} is displayed in the LCD panel, hold down the (EXIT) button for 3 seconds to turn off the fixture. |
| Turn ON | Hold the {EXIT} button for 3 seconds to turn power on. |

DMX512 Channel Values

The COLORado™ has 5 DMX512 channel profiles (modes). In Stage 1, Channel 9 is used to switch between DMX Mode 1 & 2. In Stage 2, Channel 7 is used to switch between DMX Mode 1 & 2.

STAGE 1 MODE 1

| CHANN | EL | ١ | /ALUE | | FUNCTION | |
|--|--|--|--|--|---|---|
| 1 | | |) Ó 0(5 Ó 2(| | Red No Function 0 | |
| 2 | | |) Ó 0(5 Ó 2 | | Green No Function 0 | |
| 3 | | |) Ó 0(5 Ó 2! | | Blue No Function 0 \(\times \) 100% | |
| 4 | | |) Ó 0(5 Ó 2! | | Yellow No Function 0 \(\times \) 100% | |
| 5 | | 000 |) Ó 0(5 Ó 2! |)4 | Cyan No Function 0 \(\times \) 100% | |
| 6 | | 000 |) Ó 0(5 Ó 2! |)4 | Purple No Function 0 \(\times \) 100% | |
| 7 | | 000 |) Ó 0(5 Ó 2! |)4 | White No Function 0 \(\times \) 100% | _ |
| 8 | | 000 |) Ó 0(5 Ó 2! |)4 | Strobe No Function 0 \(\times \) 20Hz | _ |
| 9 | | 005 035 065 095 125 155 215 | 0 6 00 5 6 00 5 6 00 5 6 12 5 6 18 5 6 2 5 6 2 5 6 2 5 6 2 | 34 54 94 24 54 34 14 | Mode Selection No Function Color-Cycle Mode 1 Color-Cycle Mode 2 Color-Cycle Mode 3 Color-Cycle Mode 4 Color-Cycle Mode 5 Color-Cycle Mode 6 Color-Cycle Mode 7 Color-Cycle Mode 8 DMX MODE 2 | |
| CHANN | EL 1 | 0 (ID | ADDRE | SS S | SELECTION) | |
| 01 02 03 04 05 06 07 08 09 90 10 11 12 13 14 15 16 17 | 0 6 0 6 0 6 0 6 0 6 0 6 0 6 0 6 0 6 0 6 | 019 029 039 049 059 069 079 089 109 119 129 139 149 159 169 189 199 209 | All ID: ID 1 ID 2 ID 3 ID 10 ID 10 ID 10 ID 10 ID 11 ID 10 ID 11 ID 11 ID 12 ID 13 ID 14 ID 15 ID 16 ID 17 ID 18 ID 19 ID 10 ID 11 ID 12 ID 13 ID 19 ID 20 ID 21 ID 22 | | 212 ID 23 235 ID 46 213 ID 24 236 ID 47 214 ID 25 237 ID 48 215 ID 26 238 ID 49 216 ID 27 239 ID 50 217 ID 28 240 ID 51 218 ID 29 241 ID 52 219 ID 30 242 ID 53 220 ID 31 243 ID 54 221 ID 32 244 ID 55 222 ID 33 245 ID 56 222 ID 33 245 ID 56 224 ID 57 224 ID 35 224 ID 57 225 ID 36 248 ID 59 226 ID 37 249 ID 60 227 ID 38 250 ID 61 229 ID 40 252 ID 63 230 ID 41 253 ID 64 231 ID 42 232 ID 43 233 ID 44 234 ID 45 | |
| CHANN | IEL | ١ | /ALUE | | FUNCTION | |

| | i | 1 | Internal Coloreston |
|---|----|------------------------|---|
| | | 000 6 004 | Module Selection |
| | | 000 Ó 004 005 Ó 034 | #1=ON, #2=ON, #3=ON #1=ON |
| | | 035 6 064 | #2=ON |
| | | 065 Ó 094 | #3=ON |
| | 11 | 095 Ó 124 | #1=ON, #2=ON |
| | •• | 125 ó 154 | #2=ON, #3=ON |
| | | 155 Ó 184 | #1=ON, #3=ON |
| | | 185 Ó 214 | #1=ON, #2=ON, #3=ON |
| | | 215 Ó 255 | #1=OFF, #2=OFF, #3=OFF |
| _ | | 000 Ó 255 | Speed control of Channel 9 Color-Cycle Mode 4 |
| | | | Effect Macro |
| | | 000 Ó 004 | No Function |
| | | 005 Ó 008 | Macro 01 |
| | | 009 Ó 013 014 Ó 018 | Macro 02 Macro 03 |
| | | 019 Ó 023 | Macro 04 |
| | | 024 Ó 028 | Macro 05 |
| | | 029 Ó 033 | Macro 06 |
| | | 034 Ó 038 | Macro 07 |
| | | 039 Ó 043 | Macro 08 |
| | | 044 6 048 | Macro 09 |
| | | 049 Ó 053 | Macro 10 |
| | | 054 Ó 058 059 Ó 063 | Macro 11 Macro 12 |
| | | 064 Ó 068 | Macro 13 |
| | | 069 Ó 073 | Macro 14 |
| | | 074 Ó 078 | Macro 15 |
| | | 079 Ó 083 | Macro 16 |
| | | 084 Ó 088 | Macro 17 |
| | | 089 6 093 | Macro 18 |
| | | 094 Ó 098 | Macro 19 |
| | | 099 ó 103 104 ó 108 | Macro 20 Macro 21 |
| | | 109 6 113 | Macro 22 |
| | | 114 ó 118 | Macro 23 |
| | 12 | 119 ó 123 | Macro 24 |
| | 12 | 124 ó 128 | Macro 25 |
| | | 129 Ó 133 | Macro 26 |
| | | 134 Ó 138 | Macro 27 |
| | | 139 ó 143 144 ó 148 | Macro 28 Macro 29 |
| | | 149 Ó 153 | Macro 30 |
| | | 154 Ó 158 | Macro 31 |
| | | 159 ó 163 | Macro 32 |
| | | 164 Ó 168 | Macro 33 |
| | | 169 ó 173 | Macro 34 |
| | | 174 Ó 178 | Macro 35 |
| | | 179 ó 183 184 ó 188 | Macro 36 Macro 37 |
| | | 189 \(\) 193 | Macro 38 |
| | | 194 ó 198 | Macro 39 |
| | | 199 ó 203 | Macro 40 |
| | | 204 6 208 | Macro 41 |
| | | 209 Ó 213 | Macro 42 |
| | | 214 ó 218 219 ó 223 | Macro 43 Macro 44 |
| | | 219 O 223 224 Ó 228 | Macro 45 |
| | | 229 \(\) 233 | Macro 46 |
| | | 234 Ó 238 | Macro 47 |
| | | 239 Ó 243 | Macro 48 |
| | | 244 Ó 248 | Macro 49 |
| | | 249 ó 255 | Macro 50 |
| | | | |

Important Notes about Stage 1 Mode 1

Red, Green and Blue Selection

- · Channels 1, 2 and 3 control overall intensity of each respective color.
- · Channels 1, 2 and 3 can be combined to create an unlimited range of colors.
- · Channels 1, 2 and 3 have priority over Channels 4, 5, 6 and 7.

Yellow, Cyan, Purple and White

- · These colors can not be mixed.
- When levels are raised on more than one of these channels, the lowest channel number will have priority.

Strobe

- · Strobe occurs at every channel with exception to programs on Channel 9 and 12.
- · Speed of the strobe is adjustable from 0 to 20 Hz.

Mode Selection

- Channel 9 values 5-244 provides mode selection and can only be activated while
 Channels 1 through 7 are at value 0. When channel 9 is between 245 and 255, channels
 1 through 7 can be any value.
- · When Color-Cycle mode 4 is selected channel 11 controls the speed.

ID address selection

- · Use channel 10 to select ID addressed fixtures.
- · Each independent DMX address can have up to 66 ID addressed fixtures.
- · ID address "0" allows control of all fixtures simultaneously.

Module selection

- · Provides individual control of the three LED modules in each fixture.
- · Channel 11 has priority over channel 12.

Effect macro

- · These are pre-programmed color patterns and module chases.
- · Channel 12 has priority over channels (1, 2, 3, 4, 5, 6 & 7).
- · Channel 12 has priority over channel 11 if first activated.

STAGE 1 MODE 2

| CHANNEL | VALUE | FUNCTION |
|---------|------------|--|
| | | Module 1 |
| | 000 Ó 004 | No Function |
| | 005 Ó 034 | Red |
| | 035 Ó 064 | Green |
| 1 | 065 Ó 094 | Blue |
| | 095 Ó 124 | Yellow |
| | 125 Ó 154 | Cyan |
| | 155 Ó 184 | Purple |
| | 185 Ó 255 | Pink-White |
| | | Module 2 |
| | 000 Ó 004 | No Function |
| | 005 Ó 034 | Red |
| | 035 Ó 064 | Green |
| 2 | 065 Ó 094 | Blue |
| | 095 6 124 | Yellow |
| | 125 Ó 154 | Cyan |
| | 155 Ó 184 | Purple |
| | 185 Ó 255 | Pink-White |
| | | Module 3 |
| | 000 ó 004 | No Function |
| | 005 6 034 | Red |
| _ | 035 6 064 | Green |
| 3 | 065 6 094 | Blue |
| | 095 6 124 | Yellow |
| | 125 6 154 | Cyan |
| | 155 6 184 | Purple |
| | 185 Ó 255 | Pink-White |
| 4 | //// | |
| 5 | //// | No Function |
| 6 | | |
| 7 | | |
| | | Strobe |
| 8 | 000 ර 004 | No Function |
| | 005 6 255 | 0 ó 20Hz |
| _ | | Mode Selection |
| 9 | 000 6 244 | DMX MODE 1 (only when channels 1-7 = 0) |
| | 245 6 255 | DMX MODE 2 |
| 10 | ID Address | See Channel 10 (ID address selection) on |
| | Selection | page 16 under DMX Control Mode 1 |
| 11 | 1 1 1 | No Function |
| 12 | 111 | |

Important Notes about STAGE 1 Mode 2

Module selection

· Simplified control of modules using channels 1,2 & 3.

Strobe

- · Controls the strobe of channels 1, 2 and 3 simultaneously.
- · Speed of the strobe is adjustable from 0 to 20 Hz.

Mode selection

· Use channel 9 to switch between DMX mode 1 and DMX mode 2.

ID address selection

· Channel 10 selects ID addressed fixtures.

Stage 2 MODE 1

| Сна | NNEL | ١ | /ALUE | F | UNCTION | | | | |
|-----|---|---|--|---|--|---|---|---|---|
| | 1 | 000 |) ó 255 | | Dimmer 0 0 100% | | | | _ |
| | 2 | 000 |) ර 004 5 ර 255 | F | Red lo Function 6 100% | | | | |
| | 3 | |) ර 004 5 ර 255 | N | Breen lo Function 6 100% | | | | |
| | 4 | | 0 ó 004 5 ó 255 | N 0 | Blue lo Function | | | | |
| | 5 | 010 030 040 050 070 080 090 110 120 130 150 170 190 220 220 230 | 0 \(\phi \) 009 0 \(\phi \) 029 0 \(\phi \) 039 0 \(\phi \) 049 0 \(\phi \) 069 0 \(\phi \) 079 0 \(\phi \) 079 0 \(\phi \) 109 0 \(\phi \) 119 0 \(\phi \) 159 0 \(\phi \) 169 0 \(\phi \) 189 0 \(\phi \) 199 0 \(\phi \) 219 0 \(\phi \) 229 0 \(\phi \) 239 0 \(\phi \) 255 | FF | color Macros to function ted ted 85%, Yello ted 60%, Yello ted 60%, Gri fellow 60%, Gri feren Green 85%, Blu Green 60%, Cyar slue 85%, Cyar tolue 60%, Cyar tyan tyan 50%, Purp turple turple 50%, Wh White 95%, Yell White | w 40% een 15% een 40% e 15% e 40% i 15% i 40% ble 50% white 50% | | | |
| | 6 | | 0 ó 004 5 ó 255 | N | lo Function ó 20Hz | | | | |
| | 7 | 000 005 035 065 095 125 155 185 215 | 0 6 004 5 6 034 5 6 094 5 6 124 5 6 184 5 6 214 5 6 244 5 6 255 | N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Mode Selecti No Function Color-Cycle M COLOR M | lode 1 lode 2 lode 3 lode 4 lode 5 lode 6 lode 7 lode 8 | | | |
| | | ` | DDRESS | SEL | | 1 | - | | 1 |
| | 000 Ó 010 Ó 020 Ó 030 Ó 040 Ó 050 Ó 060 Ó 070 Ó 110 Ó 120 Ó 140 Ó 150 Ó 160 Ó 170 Ó 180 Ó 190 Ó 200 Ó 210 | 019 029 039 049 059 069 079 089 099 119 129 139 149 159 169 179 189 199 209 | All IDs ID 1 ID 2 ID 3 ID 4 ID 5 ID 6 ID 7 ID 8 ID 9 ID 10 ID 11 ID 12 ID 13 ID 14 ID 15 ID 15 ID 17 ID 18 ID 17 ID 18 ID 19 ID 10 ID 11 ID 17 ID 18 ID 19 ID 10 ID 11 ID 11 ID 15 ID 16 ID 16 ID 16 ID 17 ID 18 ID 18 I | | 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 | ID 23 ID 24 ID 25 ID 26 ID 27 ID 28 ID 30 ID 31 ID 32 ID 33 ID 35 ID 36 ID 37 ID 38 ID 39 ID 39 ID 30 ID 31 ID 35 ID 36 ID 37 ID 38 ID 39 ID 30 ID 31 ID 35 ID 36 ID 37 ID 38 ID 39 ID 30 ID 31 ID 31 ID 35 ID 36 ID 37 ID 38 ID 39 ID 30 ID 31 ID 35 ID 36 ID 37 ID 38 ID 39 ID 30 ID 31 ID 36 ID 37 ID 36 ID 37 ID 38 ID 37 ID 38 ID 37 ID 38 ID 37 ID 38 ID 37 ID 38 ID 37 ID 38 ID 37 ID 37 | | 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 | ID 46 ID 47 ID 48 ID 50 ID 51 ID 52 ID 53 ID 55 ID 56 ID 57 ID 58 ID 59 ID 60 ID 61 ID 62 ID 63 ID 64 ID 65 ID 66 |

| CHANNEL | VALUE | Function |
|---------|--|---|
| | | Module Selection |
| | 000 ర 004 | #1=ON, #2=ON, #3=ON |
| | 005 Ó 034 | #1=ON |
| | 035 Ó 064 | #2=ON |
| | 065 Ó 094 | #3=ON |
| 9 | 095 Ó 124 | #1=ON, #2=ON |
| | 125 ó 154 | #2=ON, #3=ON |
| | 155 Ó 184 | #1=ON, #3=ON |
| | 185 Ó 214 | #1=ON, #2=ON, #3=ON |
| | 215 Ó 255 | #1=OFF, #2=OFF, #3=OFF |
| | 000 Ó 255 | Speed control of Channel 9 Color-Cycle Mode 4 Effect Macro |
| | 000 Ó 004 | No Function |
| | 005 Ó 008 | Macro 01 |
| | 009 Ó 013 | Macro 02 |
| | 014 Ó 018 | Macro 03 |
| | 019 ó 023 | Macro 04 |
| | 024 Ó 028 | Macro 05 |
| | 029 Ó 033 | Macro 06 |
| | 034 Ó 038 | Macro 07 |
| | 039 6 043 | Macro 08 |
| | 044 6 048 | Macro 09 |
| | 049 Ó 053 054 Ó 058 | Macro 10 Macro 11 |
| | 059 Ó 063 | Macro 12 |
| | 064 Ó 068 | Macro 13 |
| | 069 Ó 073 | Macro 14 |
| | 074 Ó 078 | Macro 15 |
| | 079 Ó 083 | Macro 16 |
| | 084 Ó 088 | Macro 17 |
| | 089 Ó 093 | Macro 18 |
| | 094 Ó 098 | Macro 19 |
| | 099 \(\) 103 | Macro 20 |
| | 104 6 108 | Macro 21 |
| | 109 6 113 | Macro 22 |
| | 114 ó 118 119 ó 123 | Macro 23 Macro 24 |
| 10 | 124 Ó 128 | Macro 25 |
| | 129 \(\) 133 | Macro 26 |
| | 134 Ó 138 | Macro 27 |
| | 139 ó 143 | Macro 28 |
| | 144 ó 148 | Macro 29 |
| | 149 Ó 153 | Macro 30 |
| | 154 ó 158 | Macro 31 |
| | 159 Ó 163 | Macro 32 |
| | 164 Ó 168 | Macro 33 |
| | 169 ó 173 174 ó 178 | Macro 34 Macro 35 |
| | 174 Ó 178 179 Ó 183 | Macro 36 |
| | 184 Ó 188 | Macro 37 |
| | 189 Ó 193 | Macro 38 |
| | 194 Ó 198 | Macro 39 |
| | 199 Ó 203 | Macro 40 |
| | 204 ó 208 | Macro 41 |
| | 209 6 213 | Macro 42 |
| | 214 6 218 | Macro 43 |
| | 219 6 223 | Macro 44 |
| | 224 6 228 | Macro 45 |
| | 229 \(\delta \) 233 234 \(\delta \) 238 | Macro 46 Macro 47 |
| | 234 O 236 239 Ó 243 | Macro 48 |
| | 244 Ó 248 | Macro 49 |
| | 249 Ó 255 | Macro 50 |
| Į. | | |

Important Notes about Stage 2 Mode 1

Red, Green and Blue Selection

- · Channels 2, 3 and 4 control overall intensity of each respective color.
- · Channels 2, 3 and 4 can be combined to create an unlimited range of colors.

Strobe

- · Strobe occurs at every channel with the exception of Channels 7 and 10.
- · Speed of the strobe is adjustable from 0 to 20 Hz.

Mode Selection

- Channel 9 values 5-244 provides mode selection and can only be activated while
 Channels 1 through 7 are at value 0. When channel 9 is between 245 and 255, channels
 1 through 7 can be any value.
- · When Color-Cycle mode 4 is selected channel 9 controls the speed.

ID address selection

- · Use channel 8 to select ID addressed fixtures.
- · Each independent DMX address can have up to 66 ID addressed fixtures.
- · ID address "0" allows control of all fixtures simultaneously.

Module selection

- · Provides individual control of the three LED modules in each fixture.
- · Channel 9 has priority over channel 10.

Effect macro

- · These are pre-programmed color patterns and module chases.
- · Channel 10 has priority over channels (1, 2, 3, 4).
- · Channel 10 has priority over channel 9 if first activated.

Stage 2 MODE 2

| CHANNEL | VALUE | FUNCTION |
|---------|--|---|
| 1 | 000 \(\phi \) 004 005 \(\phi \) 034 035 \(\phi \) 064 065 \(\phi \) 094 095 \(\phi \) 124 125 \(\phi \) 154 155 \(\phi \) 184 185 \(\phi \) 255 | Module 1 No Function Red Green Blue Yellow Cyan Purple Pink-White |
| 2 | 000 \(\times \) 004 005 \(\times \) 034 035 \(\times \) 064 065 \(\times \) 094 095 \(\times \) 124 125 \(\times \) 154 155 \(\times \) 184 185 \(\times \) 255 | Module 2 No Function Red Green Blue Yellow Cyan Purple Pink-White |
| 3 | 000 6 004 005 6 034 035 6 064 065 6 094 095 6 124 125 6 154 155 6 184 185 6 255 | Module 3 No Function Red Green Blue Yellow Cyan Purple Pink-White |
| 4 | //// | |
| 5 | /// | |
| 6 | 000 Ó 004 005 Ó 255 | Strobe No Function 0 \(\times \) 20Hz |
| 7 | 000 ර 244 245 ර 255 | Mode Selection DMX MODE 1 (only when channels 1-7 = 0) DMX MODE 2 |
| 8 | ID Address Selection | See Channel 10 (ID address selection) on page 16 under DMX Control Mode 1 |
| 9 | | No Function |
| 10 | | INO F UNCTION |

Important Notes about Stage 2 Mode 2

Module selection

· Simplified control of modules using channels 1, 2 & 3.

Strobe

- · Controls the strobe of channels 1, 2 and 3 simultaneously.
- · Speed of the strobe is adjustable from 0 to 20 Hz.

Mode selection

· Use channel 7 to switch between DMX mode 1 and DMX mode 2.

ID address selection

· Channel 8 selects ID addressed fixtures.

DMX Channel Values (ARC Mode)

| CHANNEL | VALUE | FUNCTION |
|---------|-----------|--|
| 1 | 000 Ó 255 | Red (or step time when PR. 01 – PR. 10 is activated) $0-100\%$ |
| 2 | 000 ó 255 | Green (or fade time when PR. 01 – PR. 10 is activated) $0-100\%$ |
| 3 | 000 Ó 255 | Blue 0 – 100% |

DMX Channel Values (ARC+D Mode)

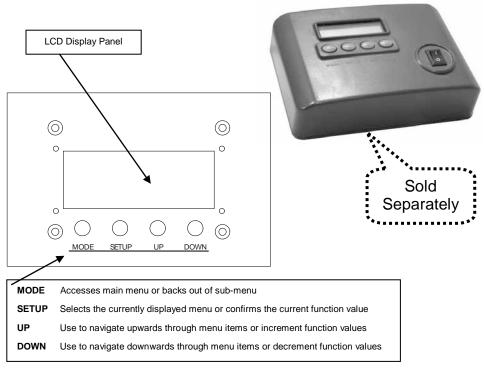
| CHANNEL | VALUE | Function |
|---------|-----------|--|
| 1 | 000 Ó 255 | Master Dimmer: 0 – 100% |
| 2 | 000 Ó 255 | Red (or step time when PR. 01 – PR. 10 is activated) 0 – 100% |
| 3 | 000 Ó 255 | Green (or fade time when PR. 01 – PR. 10 is activated) $0-100\%$ |
| 4 | 000 Ó 255 | Blue 0 – 100% |

DMX Channel Values (PIXEL Mode)

| CHANNEL | VALUE | FUNCTION |
|---------|------------------------|----------------------------------|
| 1 | 000 Ó 004 005 Ó 255 | Red No function 0 – 100% |
| 2 | 000 Ó 004 005 Ó 255 | Green No function 0 – 100% |
| 3 | 000 Ó 004 005 Ó 255 | Blue No function 0 – 100% |
| 4 | 000 Ó 004 005 Ó 255 | Red No function 0 – 100% |
| 5 | 000 Ó 004 005 Ó 255 | Green No function 0 – 100% |
| 6 | 000 Ó 004 005 Ó 255 | Blue No function 0 – 100% |
| 7 | 000 Ó 004 005 Ó 255 | Red No function 0 – 100% |
| 8 | 000 Ó 004 005 Ó 255 | Green No function 0 – 100% |
| 9 | 000 Ó 004 005 Ó 255 | Blue No function 0 – 100% |

5. COLORado™ Controller

Overview Setup



Connect from the OUT on the controller to the DMX Input side of the COLORado™ using a DMX XLR cable. Visit the section titled: Setting up a DMX Serial Data Link on Page 13.

It is recommended that you power up all COLORado units connected prior to turning on the controller. This ensures that the controller will auto-detect DMX addresses.

Alternatively you can use {**Detect device**} from the {**Settings**} menu.

Set ID addresses on the COLORados in ascending order.

Set the {Range} in the {Settings} menu.

Note There is no need to set ID and Range for {Wash} programs.

Menu Map

| MAIN FUNCTION | SELECTION | SELECTION | SELECTION | SELECTION |
|-------------------|--|---|--|---|
| Wash program | Wash [1] Ó Wash [8] | Edit | Step time [001] \circlearrowleft [255] Fade time [001] \circlearrowleft [255] | |
| Effect program | Effect [1] Ó Effect [8] | Edit | Speed [001] o [100] | |
| Custom program | Custom [1] ර Custom [8] | Edit | Scene [1] ഠ Scene [100] | ID address [000*] ← [100] (*0 = all units) Step time [000] ← [255] Fade time [000] ← [255] Red [000] ← [255] Green [000] ← [255] Blue [000] ← [255] Module [001] ← [006] Strobe [000] ← [020] |
| Play schedule | Schedule | | | |
| Clock | Time now | I.e. 12/31/2006 13:50:24 I.e. 12/31/2006 13:50:24 | | |
| Schedule | Wash [1] Ó Wash [8] Effect [1] Ó Effect [8] Custom [1] Ó Custom [8] | Start>>>End 00:00>>00:00 | | |
| Settings | DMX address Range Allow edit Detect device Reset to Factory settings | [001] \circlearrowleft [255] [001] \circlearrowleft [066] [YES] \circlearrowleft [NO] >>> [YES] \circlearrowleft [NO] | | |
| Password | Password ON/OFF Set password | [ON] 6 [OFF] | | |

Wash Program

Select from the eight existing [Wash] programs and it will instantly play.

Set the [Step time] and the [Fade time] in the [Edit] function if desired.

The unit of time is 5 seconds and it can be adjusted between 1 and 255.

Effect Program

Select from the eight existing [Effect] programs and it will instantly play.

Vary the [Speed] of the effect between 1 and 255.

Custom Program

- 1) Select from the eight existing [Custom] programs and it will instantly play.
- 2) Enter the [Edit] section to create or edit program.
- You can create or edit up to 100 scenes. To program less than 100 scenes, set the [Step time]
 of the scene after your last scene to 0.
- Select the ID address of the target unit. Setting ID address to 0 selects all units in the serial link. Color/Effects combination for different IDs is allowed.
- 5) Specify the [Module] or modules to run active.

Note: this option is intended for use with the COLORado 3; for the COLORado 1, it will function as if **[Module]** is set to one.

```
0 = 1,2,3

1 = 1

2 = 2

3 = 3

4 = 1,2

5 = 2,3
```

6 = 1,3

- RGB mix using the [Red], [Green] and [Blue] functions and adjusting the range between 0 and 255.
- 7) Select a [Strobe] speed from 0-20Hz if desired.
- 8) Select the [Step time] for the current scene.

```
Step time unit values

Range 0 - 10 = 0.1sec per unit

Range 11 - 255 = 1 sec per unit
```

9) Set a [Fade time] for the current scene in one second increments from 0 to 255.

Play Schedule

Simply activate this menu [Play schedule] to run.

Clock

[Clock] \ddot{U} **[Time now]**: To view the current time on the controller. **[Clock]** \ddot{U} **[Edit now]**: Edit the time and date.

Schedule

There are 24 **Wash**, **Effect** and **Custom** programs that can be set with Start and End times. Start times take priority over End times. Programs will not overlap. Programs with the most recent Start time will always override the existing previously executed program.

Settings

[DMX address]

This function sets the DMX address for the controller. It is addressable from 1 to 250.

[Range]

Enter the number of fixtures connected in series.

[Allow edit]

This function either enables or disables editing in Wash, Effect and Custom programs.

[Detect device]

This is the manual method of detecting and connecting the controller to all new units in series. It is

generally used when you add more units to an existing system. Turning off and then on the controller has the same effect.

[Reset to factory settings]

This function will reset all the settings to the factory defaults except for [Custom] programs.

| Factory Default Settings | | | |
|--------------------------|--|--|--|
| Setting | Default | | |
| [Schedule] | All times in schedule are reset to [00:00] | | |
| [Wash program] | Step times and fade times are reset to [001] | | |
| [Effect program] | Speeds are reset to [001] | | |
| [DMX address] | DMX address is reset to [001] | | |
| [Range] | Range is reset to [066] | | |
| [Allow edit] | Reset to [Yes] | | |
| [Password ON/OFF] | Password is reset to [OFF] | | |
| [Set password] | Password is reset to [00000000] Down=0, Up=1 | | |

Activating password mode

Set [Password] function to [ON]. This will prompt the user for a password every time the controller is powered on.

Toggle to [Set password] function in order to change the password.

Input an 8 digit password using the [UP] & [DOWN] keys. Press the [SET] button to confirm.

Note In the event that the user forgets the password use the following factory

password override:

[UP] Ü [DOWN] Ü [UP] Ü [DOWN] Ü [UP] Ü [UP] Ü [DOWN] Ü [DOWN]

Control via external DMX

Programs in the controller can be accessed via an external DMX controller. It will be necessary to have the DMX address set on the COLORado Controller. The controller operates on 4 channels of control.

DMX Channel Values

| CHANNEL | VALUE | FUNCTION |
|---------|-----------|------------|
| | 000 Ó 010 | Blackout |
| | 011 Ó 030 | Wash [1] |
| | 031 Ó 040 | Blackout |
| | 041 Ó 060 | Wash [2] |
| | 061 Ó 070 | Blackout |
| | 071 Ó 090 | Wash [3] |
| | 091 Ó 100 | Blackout |
| 1 | 101 ó 120 | Wash [4] |
| • | 121 Ó 130 | Blackout |
| | 131 ó 150 | Wash [5] |
| | 151 Ó 160 | Blackout |
| | 161 Ó 180 | Wash [6] |
| | 181 Ó 190 | Blackout |
| | 191 ó 210 | Wash [7] |
| | 211 Ó 220 | Blackout |
| | 221 ó 255 | Wash [8] |
| | 000 ර 010 | Blackout |
| | 011 Ó 030 | Effect [1] |
| | 031 Ó 040 | Blackout |
| 2 | 041 Ó 060 | Effect [2] |
| 2 | 061 Ó 070 | Blackout |
| | 071 Ó 090 | Effect [3] |
| | 091 Ó 100 | Blackout |
| | 101 ó 120 | Effect [4] |

| | 121 \(\times \) 130 131 \(\times \) 150 151 \(\times \) 160 161 \(\times \) 180 181 \(\times \) 190 191 \(\times \) 210 211 \(\times \) 220 221 \(\times \) 255 | Blackout Effect [5] Blackout Effect [6] Blackout Effect [7] Blackout Effect [8] |
|---|--|---|
| | 000 6 010 011 6 030 | Blackout Custom [1] |
| | 031 6 040 | Blackout |
| | 041 6 060 | Custom [2] |
| | 061 6 070 | Blackout |
| | 071 Ó 090 | Custom [3] |
| | 091 6 100 | Blackout |
| 3 | 101 6 120 | Custom [4] |
| | 121 6 130 | Blackout |
| | 131 6 150 | Custom [5] |
| | 151 Ó 160 | Blackout |
| | 161 Ó 180 181 Ó 190 | Custom [6] Blackout |
| | 191 Ó 210 | Custom [7] |
| | 211 Ó 220 | Blackout |
| | 221 Ó 255 | Custom [8] |
| | 000 Ó 127 | OFF |
| 4 | 128 \(\) 255 | ON |
| | | 1 |

6. Appendix

DMX Primer

There are 512 channels in a DMX-512 connection. Channels may be assigned in any manner. A fixture capable of receiving DMX-512 will require one or a number of sequential channels. The user must assign a starting address on the fixture that indicates the first channel reserved in the controller. There are many different types of DMX controllable fixtures and they all may vary in the total number of channels required. Choosing a start address should be planned in advance. Channels should never overlap. If they do, this will result in erratic operation of the fixtures whose starting address is set incorrectly. You can however, control multiple fixtures of the same type using the same starting address as long as the intended result is that of unison movement or operation. In other words, the fixtures will be slaved together and all respond exactly the same.

DMX fixtures are designed to receive data through a serial Daisy Chain. A Daisy Chain connection is where the DATA OUT of one fixture connects to the DATA IN of the next fixture. The order in which the fixtures are connected is not important and has no effect on how a controller communicates to each fixture. Use an order that provides for the easiest and most direct cabling. Connect fixtures using shielded two conductor twisted pair cable with three pin XLR male to female connectors. The shield connection is pin 1, while pin 2 is Data Negative (S-) and pin 3 is Data positive (S+). CHAUVET carries 3-pin XLR DMX compliant cables, DMX-10 (33'), DMX-4.5 (15') and DMX-1.5 (5')

Returns Procedure

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Merchandise Authorization Number (RA #). Products returned without an RA # will be refused. Call CHAUVET and request RA # prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. CHAUVET reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Claims

Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise. It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Any other claim for items such as missing component/part, damage not related to shipping, and concealed damage, must be made within seven (7) days of receiving merchandise.

Maintenance

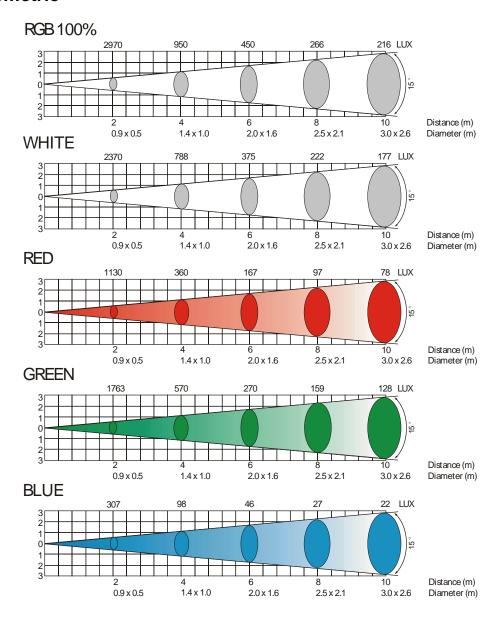
To maintain optimum performance and minimize wear, fixtures should be cleaned frequently. Usage and environment are contributing factors in determining frequency. As a general rule, fixtures should be cleaned at least twice a month. Dust build up reduces light output performance and can cause overheating. This can lead to reduced lamp life and increased mechanical wear. Be sure to power off fixture before conducting maintenance.

Unplug fixture from power. Clean all glass when the fixture is cold with a mild solution of glass cleaner or Isopropyl Alcohol and a soft lint free cotton cloth or lens tissue. Apply solution to the cloth or tissue and drag dirt and grime to the outside of the lens. Gently polish optical surfaces until they are free of haze and lint.

Appendix

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 soft cloth using normal glass cleaning fluid. - Always dry the parts carefully. - Clean the external optics at least every 20 days.

Photometric



Technical Specifications

| WEIGHT & DIMENSIONS | |
|---|------------------------------|
| Length | 22.5 in (570 mm) |
| Width | , |
| Height | ` , |
| Weight | ` , |
| • | 10 IDS (0.2 Ng) |
| POWER | 1010011 01011 5010011 |
| Autoswitching | |
| AC input | IEC 60320 C14 |
| Current draw(peak <75W @ 1 | |
| Power Factor | PF 1.00 @ 120V |
| FUSE | |
| Internal (Power Supply) | 20mm Glass 4A Fast Blow |
| , | |
| LED | |
| Quantity54 Total, (| |
| LED | 1 Watt |
| PHOTO OPTIC | |
| Luminance at 1m (15° lenses, included) | 7 270 lux |
| Luminance at 1m (30° lenses, optional) | |
| Beam angle with included 15° lenses | |
| Field angle with included 15° lenses | |
| Beam angle with optional 30° lenses | |
| Field angle with optional 30° lenses | |
| Tiona di gio mai optional do Tonoso | |
| CONTROL & PROGRAMMING | |
| | okina 2 nin VI D mala acakat |
| Data input lock | |
| Data output | |
| Protocols | |
| DMX Channels | |
| DIVIA CHAIIIGS | |
| ORDERING INFORMATION | |
| COLORado ™ 3P | COLORADO3P |

Technical Support

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Telephone: (954) 929-1115 - (Press 4) Fax: (954) 929-5560 - (Attention: Service) Website: http://www.chauvetlighting.com