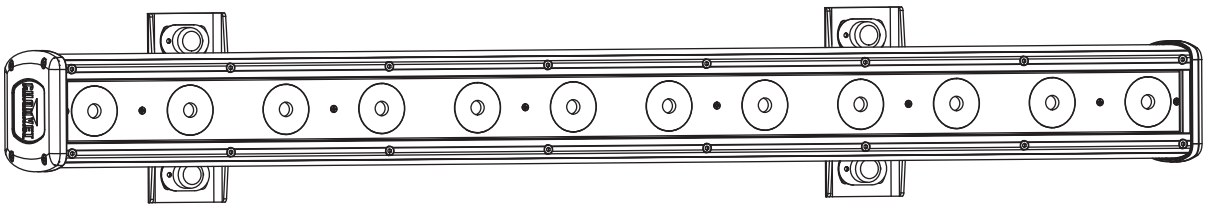
COLORdash Batten-H 12XIP

# User Manual



Model ID: COLORDASHBATTENH12XIP

CHAUVET PROFESSIONAL

# Edition Notes

The COLORdash Batten H12X IP User Manual includes a description, safety precautions, installation, programming, operation, and maintenance instructions for the COLORdash Batten H12X IP as of the release date of this edition.

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## Document Printing

For best results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure the printer to scale the content accordingly.

## Intended Audience

Any person installing, operating, and/or maintaining this product should completely read through the guide that shipped with the product, as well as this manual, before installing, operating, or maintaining this product.

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## Document Revision

This COLORdash Batten H12X IP User Manual is the 1st edition of this document. Go to www.chauvetprofessional.com for the latest version.

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# 1. Before You Begin

## What Is Included

- COLORdash Batten H12X IP
- Neutrik powerCON TRUE1 power cable
- Quick Reference Guide

## Claims

Carefully unpack the product immediately and check the container to make sure all the parts are in the package and are in good condition.
If the box or the contents (the product and included accessories) appear damaged from shipping, or show signs of mishandling, notify the carrier immediately, not Chauvet. Failure to report damage to the carrier immediately may invalidate a claim. In addition, keep the box and contents for inspection.
For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with Chauvet within 7 days of delivery.

## Text Conventions

| Convention | Meaning |
|---|---|
| **1–512** | A range of values |
| **50/60** | A set of values of which only one can be chosen |
| **Settings** | A menu option not to be modified |
| **<ENTER>** | A key to be pressed on the product's control panel |

## Symbols

| Symbol | Meaning |
|---|---|
| | Critical installation, configuration, or operation information. Not following these instructions may make the product not work, cause damage to the product, or cause harm to the operator. |
| | Important installation or configuration information. The product may not function correctly if this information is not used. |
| | Useful information. |

**The term "DMX" used throughout this manual refers to the USITT DMX512-A digital data transmission protocol.**

## FCC Compliance

This device complies with Part 15 Part B of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### RF Exposure Warning for North America, and Australia

**Warning!** This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and the user. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

## Expected LED Lifespan

Use and heat will gradually reduce LED brightness over time. Clustered LEDs produce more heat than single LEDs, contributing to shorter lifespans if always used at full intensity. The average LED lifespan is 40,000 to 50,000 hours. To extend LED lifespan, maintain proper ventilation around the product, and limit the overall intensity.

## Safety Notes

These Safety Notes include important information about installation, use, and maintenance of the COLORdash Batten H12X IP.

- The luminaire is intended for professional use only.
- The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 3.28 ft (1 m) is not expected.
- If the external flexible cable or cord of this luminaire is damaged, it shall be replaced by a special cord or cord exclusively available from the manufacturer or its service agent.
- The light source contained in this luminaire shall only be replaced by the manufacturer or its service agent or a similar qualified person.
- **CAUTION:**
  - This product's housing may be hot when operating. Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
  - When transferring the product from extreme temperature environments, (e.g., cold truck to warm humid ballroom) condensation may form on the internal electronics of the product. To avoid causing a failure, allow the product to fully acclimate to the surrounding environment before connecting it to power.
  - Flashing light is known to trigger epileptic seizures. User must comply with local laws regarding notification of strobe use.
- **ALWAYS:**
  - Disconnect from power before cleaning the product or replacing the fuse.
  - When using an IP65-rated product in an outdoor environment, use IP65- (or higher) rated power and data cable.
  - Replace and secure IP-rated protective covers to all power, data, USB, or other ports when not in use.
  - Replace the fuse with the same type and rating.
  - Use a safety cable when mounting this product overhead.
  - Connect this product to a grounded and protected circuit.
- **DO NOT:**
  - Open this product. It contains no user-serviceable parts.
  - Look at the light source when the product is on.
  - Leave any flammable material within 50 cm of this product while operating or connected to power.
  - Connect this product to a dimmer or rheostat.
  - Operate this product if the housing, lenses, or cables appear damaged.
  - Submerge this product (adhere to standards for the published IP rating). Regular outdoor operation is fine.
  - Permanently install outdoors in locations with extreme environmental conditions. This includes, but is not limited to:
    - Exposure to a marine/saline environment (within 3 miles of a saltwater body of water).
    - Locations where normal temperatures exceed the temperature ranges in this manual.
    - Locations that are prone to flooding or being buried in snow.
    - Other areas where the product will be subject to extreme radiation or caustic substances.
- ONLY use the hanging/mounting bracket to carry this product.
- The maximum ambient temperature is 113 °F (45 °C). Do not operate this product at higher temperatures.
- The minimum startup temperature is -14°F (-10°C). Do not start the product at lower temperatures.
- To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.
- In the event of a serious operating problem, stop using immediately.

**This product contains no user-serviceable parts. Any reference to servicing in this User Manual will only apply to properly trained, certified technicians. Do not open the housing or attempt any repairs.**

**All applicable local codes and regulations apply to proper installation of this product.**

**If this Chauvet product requires service, contact Chauvet Technical Support.**

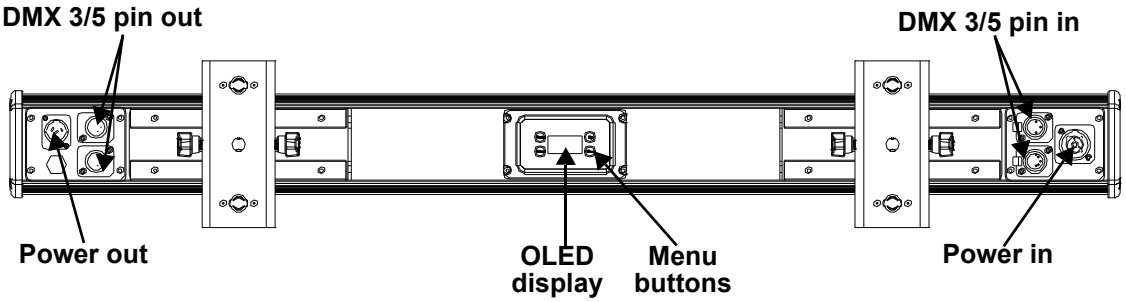
# 2. Introduction

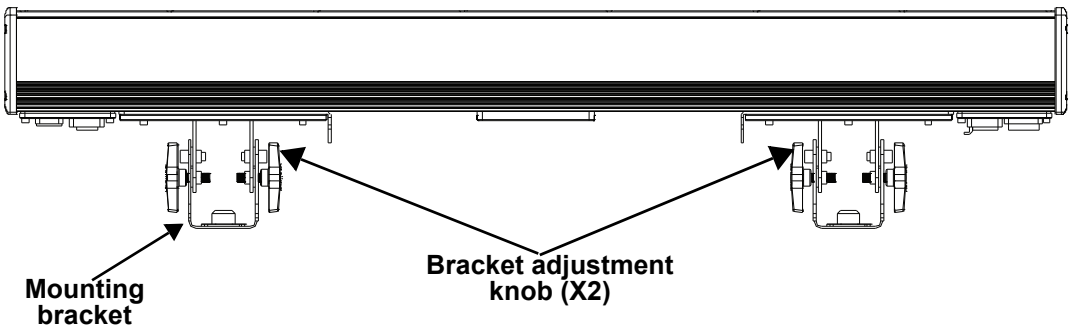
COLORdash Batten H12X IP is a 10W RGBAW LED batten that provides both indoor and outdoor usage. This versatile fixture functions at home or under any weather conditions with adjustable Pulse Width Modulation, Remote Device Management, and advanced optics. The COLORdash Batten H12X IP is also equipped with floor trunnions, omega brackets, and a touchscreen OLED display.

## Features

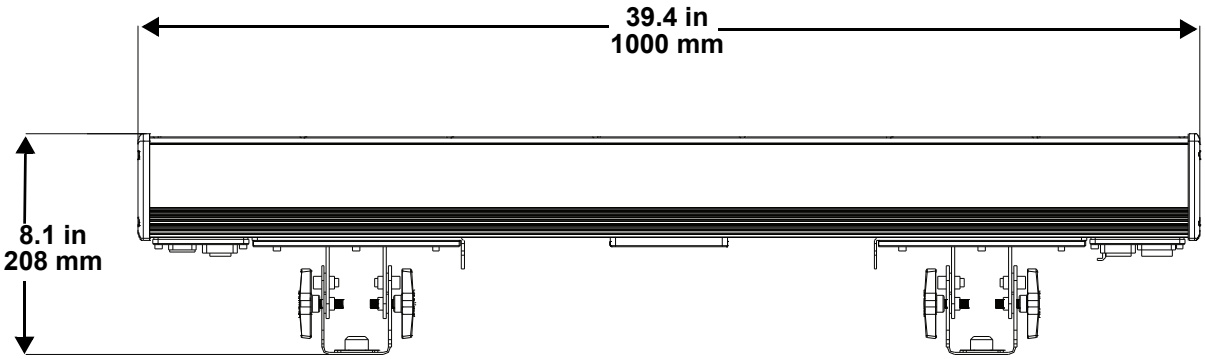
- Indoor/outdoor availability
- 12 RGBAW + UV LEDs
- Easy-to-read OLED display with password protection and touchscreen
- Floor trunnions and omega bracket provide for easy mounting
- IP-rated power and DMX connections
- Adjustable PWM negates flickering on camera
- RDM adds to flexibility
- Advanced optics enable quality color mixing

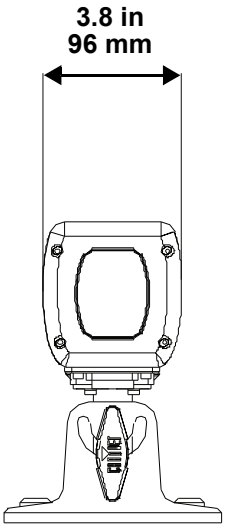
## Product Overview



## Product Dimensions



# 3. Setup

## AC Power

The COLORdash Batten H12X IP has an auto-ranging power supply, and it can work with an input voltage range of 100 to 240 VAC, 50/60 Hz.
To determine the product's power requirements (circuit breaker, power outlet, and wiring), use the current value listed on the label affixed to the product's back panel, or refer to the product's specifications chart. The listed current rating indicates the product's average current draw under normal conditions.

- **Always connect the product to a protected circuit (a circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.**
- **To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.**

**Never connect the product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.**

### AC Plug

The COLORdash Batten H12X IP comes with a power input cord terminated with an Edison plug (U.S. market). If the power input cord that came with the product has no plug, or if the Edison plug needs to be changed, use the table below to wire the new plug.

| Connection | Wire (U.S.) | Wire (Europe) | Screw Color |
|---|---|---|---|
| AC Live | Black | Brown | Yellow or Brass |
| AC Neutral | White | Blue | Silver |
| AC Ground | Green/Yellow | Green/Yellow | Green |

### Power Linking

It is possible to power link COLORdash Batten H12X IP products. See the table below for the current draw at each voltage and frequency:

| | 100 V, 60 Hz | 120 V, 60 Hz | 208 V, 60 Hz | 230 V, 50 Hz | 240 V, 60 Hz |
|---|---|---|---|---|---|
| **Current Draw** | 1.57 A | 1.28 A | 0.74 A | 0.67 A | 0.64 A |

Never exceed 12A on a single circuit. Power-linking cables can be purchased separately.

## DMX Linking

The COLORdash Batten H12X IP can be linked to a DMX controller using a 3-pin or 5-pin DMX connection. If using other DMX-compatible products with this product, each can be controlled individually with a single DMX controller.

### DMX Personalities

The COLORdash Batten H12X IP uses a 3- or 5-pin DMX data connection for the **6CH**, **8CH**, **9CH**, **13CH**, **14CH, 42CH, 47CH, or 59CH** DMX personalities.

- Refer to the Introduction for a brief description of each DMX personality.
- Refer to the Operation chapter to learn how to configure the COLORdash Batten H12X IP to work in these personalities.
- The Control Channel Assignments and Values section provides detailed information regarding the DMX personalities.

**For information about DMX standards, Master/Slave connectivity, or the DMX cables needed to link this product to a DMX controller, download the DMX Primer from the Chauvet website: www.chauvetprofessional.com.**

### Remote Device Management

Remote Device Management, or RDM, is a standard for allowing DMX-enabled devices to communicate bi-directionally along existing DMX cabling. Check the DMX controller's User Manual or with the manufacturer, as not all DMX controllers have this capability. The COLORdash Batten H12X IP supports RDM protocol that allows feedback to make changes to menu map options.

### Master/Slave Connectivity

The Master/Slave mode allows a COLORdash Batten H12X IP (the master) to control one or more COLORdash Batten H12X IP products (the slaves) without a DMX controller. One COLORdash Batten H12X IP becomes the master when running an auto program or by being in Static mode. Each slave's control panel must be configured to operate in Slave mode. During Master/Slave operation, the slaves will operate in unison with the master.

**DO NOT connect a DMX controller to products operating in Master/Slave mode. The DMX controller signals may interfere with the signals from the master.**

**The Operation section of this manual provides detailed instructions on how to configure the master and slaves.**

## Mounting

Before mounting the product, read and follow the safety recommendations indicated in the Safety Notes. For Chauvet Professional line of mounting clamps, go to http://trusst.com/products/.

### Orientation

Always mount this product in a safe position, making sure there is adequate room for ventilation, configuration, and maintenance.

### Rigging

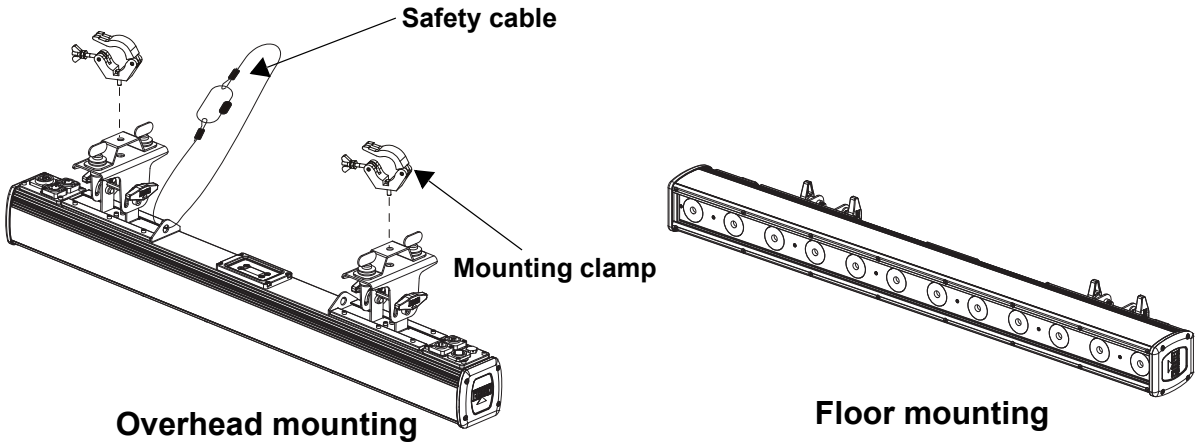
Chauvet recommends using the following general guidelines when mounting this product:

- Before deciding on a location for the product, make sure there is easy access to the product for maintenance and programming purposes.
- Make sure that the structure or surface onto which the product is being mounted can support the product's weight. See the Technical Specifications.
- Always use a safety cable when mounting the product overhead. Mount the product securely to a rigging point, whether an elevated platform or a truss.
- Use a mounting clamp of appropriate weight capacity when rigging the product onto a truss.

### Procedure

The COLORdash Batten H12X IP comes with mounting brackets that can be attached to a mounting clamp for hanging or simply used as a floor stand. Mounting clamps are sold separately. Make sure the clamps are capable of supporting the weight of this product. Use at least one mounting point per product. For the Chauvet Professional line of mounting clamps, go to http://www.trusst.com/products.

**Mounting Diagram**



# 4. Operation

## Control Panel Operation

| Button | Function |
|---|---|
| **<MENU>** | Exits from the current menu or function |
| **<UP>** | Enables the currently displayed menu or sets the currently selected value in to the current function |
| **<DOWN>** | Navigates upward through the menu list or increases the numeric value when in a function |
| **<ENTER>** | Navigates downward through the menu list or decreases the numeric value when in a function |

## Passcode

When prompted, enter the following passcode: **<UP>**, **<DOWN>**, **<UP>**, **<DOWN>**, **<ENTER>**.
This passcode cannot be changed.

## Menu Map

Refer to the COLORdash Batten H12X IP product page on www.chauvetprofessional.com for the latest menu map.

| Main Level | Programming Levels | Description |
|---|---|---|
| **DMX Address** | **001–507*** | Selects DMX address<br>(*highest channel restricted to personality chosen) |
| **DMX Channel** | **6CH** | 6-channel: RGBAWUV |
| | **8CH** | 8-channel: dimmer, RGBAWUV, strobe |
| | **9CH** | 9-channel: dimmer, 16-bit dimmer, RGBAWUV, strobe |
| | **13CH** | 13-channel: dimmer, RGBAWUV, strobe, color macro, color temperature, auto programs and speed, dimmer mode |
| | **14Ch** | 14-channel: dimmer, 16-bit dimmer, RGBAWUV, strobe, color macro, color temperature, auto programs and speed, dimmer mode |
| | **42CH** | 42-channel: dimmer, 16-bit dimmer, 12-zone RGB, AWUV, strobe |
| | **47CH** | 47-channel: dimmer, 16-bit dimmer, 12-zone RGB, AWUV, strobe, color macro, color temperature, auto programs and speed, dimmer mode |
| | **59CH** | 59-channel: dimmer, 16-bit dimmer, 12-zone RGB, AWUV, 12-zone strobe, color macro, color temperature, auto programs and speed, dimmer mode |

| Main Level | Programming Levels | | Description |
|---|---|---|---|
| Static | Fixed Color | **R** | Red |
| | | **G** | Green |
| | | **B** | Blue |
| | | **A** | Amber |
| | | **W** | White |
| | | **UV** | Ultraviolet (UV) |
| | | **RG** | Red/Green |
| | | **RB** | Red/Blue |
| | | **RA** | Red/Amber |
| | | **RW** | Red/White |
| | | **RUV** | Red/UV |
| | | **GB** | Green/Blue |
| | | **GA** | Green/Amber |
| | | **GW** | Green/White |
| | | **GUV** | Green/UV |
| | | **BA** | Blue/Amber |
| | | **BW** | Blue/White |
| | | **BUV** | Blue/UV |
| | | **AW** | Amber/White |
| | | **AUV** | Amber/UV |
| | | **WUV** | White/UV |
| | | **RGB** | Red/Green/Blue |
| | | **RGA** | Red/Green/Amber |
| | | **RGW** | Red/Green/White |
| | | **RGUV** | Red/Green/UV |
| | | **RBA** | Red/Blue/Amber |
| | | **RBW** | Red/Blue/White |
| | | **RBUV** | Red/Blue/UV |
| | | **RAW** | Red/Amber/White |
| | | **RAUV** | Red/Amber/UV |
| | | **RWUV** | Red/White/UV |
| | | **GBA** | Green/Blue/Amber |
| | | **GBW** | Green/Blue/White |
| | | **GBUV** | Green/Blue/UV |
| | | **GAW** | Green/Amber/White |
| | | **GAUV** | Green/Amber/UV |
| | | **GWUV** | Green/White/UV |
| | | **BAW** | Blue/Amber/White |
| | | **BAUV** | Blue/Amber/UV |
| | | **BWUV** | Blue/White/UV |
| | | **AWUV** | Amber/White/UV |
| | | **RGBA** | Red/Green/Blue/Amber |
| | | **RGBW** | Red/Green/Blue/White |
| | | **RGBUV** | Red/Green/Blue/UV |
| | | **RGAW** | Red/Green/Amber/White |
| | | **RGAUV** | Red/Green/Amber/UV |

| Main Level | Programming Levels | | | Description |
|---|---|---|---|---|
| Static | Fixed color | RGWUV | | Red/Green/White/UV |
| | | RBAW | | Red/Blue/Amber/White |
| | | RBAUV | | Red/Blue/Amber/UV |
| | | RBWUV | | Red/Blue/White/UV |
| | | RAWUV | | Red/Amber/White/UV |
| | | GBAW | | Green/Blue/Amber/White |
| | | GBAUV | | Green/Blue/Amber/UV |
| | | GBWUV | | Green/Blue/White/UV |
| | | GAWUV | | Green/Amber/White/UV |
| | | BAWUV | | Blue/Amber/White/UV |
| | | RGBAW | | Red/Green/Blue/Amber/White |
| | | RGBAUV | | Red/Green/Blue/Amber/UV |
| | | RGBWUV | | Red/Green/Blue/White/UV |
| | | RGAWUV | | Red/Green/Amber/White/UV |
| | | RBAWUV | | Red/Blue/Amber/White/UV |
| | | GBAWUV | | Green/Blue/Amber/White/UV |
| | | RGBAWUV | | Red/Green/Blue/Amber/White/UV |
| | Color Temperature | Warm White 1 | | Preset white color temperatures |
| | | Warm White 2 | | |
| | | Warm White 3 | | |
| | | Neutral White 1 | | |
| | | Neutral White 2 | | |
| | | Neutral White 3 | | |
| | | Daylight 1 | | |
| | | Daylight 2 | | |
| | | Daylight 3 | | |
| | | Daylight 4 | | |
| | Manual Color | Red | 0–255 | Combine red, green, blue, amber, white, and ultraviolet to make a custom color (0–100%) |
| | | Green | | |
| | | Blue | | |
| | | Amber | | |
| | | White | | |
| | | UV | | |
| Auto Show | Auto 1–5 | 0–100 | | Preset automatic programs and speed |
| Master/Slave | Master | | | DMX mode (master) |
| | Slave | | | Slave mode |
| Dimmer Speed | OFF | | | Linear dimmer |
| | Dimmer 1–3 | | | Dimming speed: **Dimmer 1** (fast) to **Dimmer 3** (slow) |
| White Balance | Off | | | Uses factory default white setting |
| | Manual | Red | 125–255 | Sets maximum red value |
| | | Green | | Sets maximum green value |
| | | Blue | | Sets maximum blue value |
| | | Amber | | Sets maximum amber value |
| | | White | | Sets maximum white value |
| | | UV | | Sets maximum UV value |
| LED Frequency | 600Hz | | | Sets the Pulse Width Modulation (PWM) frequency |
| | 1200Hz | | | |
| | 2000Hz | | | |
| | 4000Hz | | | |
| | 6000Hz | | | |
| | 25KHz | | | |

| Main Level | Programming Levels | | Description |
|---|---|---|---|
| Back Light | **10S** | | Turns off display backlight after 10 seconds of inactivity |
| | **30S** | | Turns off display backlight after 30 seconds of inactivity |
| | **2Min** | | Turns off display backlight after 2 minutes of inactivity |
| | **Always On** | | Display backlight remains on |
| Key Lock | **On** | | Locks the display. Password: **<UP>**, **<DOWN>**, **<UP>**, **<DOWN>**, **<ENTER>** |
| | **Off** | | |
| Information | **Fixture Hours** | _ _ _ _ _Hours | Displays total hours the product has been powered on |
| | **Version** | V_._ _ _ _ _ _ | Displays firmware version |
| | **UID** | – – – – – – – – – – – – – – – – | Displays product UID |
| Reset Factory | **NO** | | Resets to factory default settings |
| | **YES** | | |
| System Update | **Put the update file into the USB stick and connect it to the device through an adapter cable.** | | Update firmware via USB to DMX adapter cable |
| | **NO** | | |
| | **YES** | | |

# Configuration (DMX)

Use DMX configurations to operate the product with a DMX controller.

## Control Personalities

To set the control personality:

1. Go to the **DMX Channel** main level.
2. Select the desired personality (**6Ch, 8Ch, 9Ch, 13Ch, 14Ch, 42Ch, 47Ch,** or **59Ch**).

- **See the Starting Address section for the highest starting address recommended for each personality.**
- **Make sure that the starting addresses on the various products do not overlap due to the new personality setting.**

## Starting Address

Each product will respond to a unique starting address from the DMX controller. All products with the same starting address will respond in unison. To set the starting address:

1. Go to **DMX Address** main level.
2. Select the starting address (**000–507**).
   - The highest assignable starting address for **6CH** is **507**.
   - The highest assignable starting address for **8CH** is **505**.
   - The highest assignable starting address for **9CH** is **504**.
   - The highest assignable starting address for **13CH** is **500**.
   - The highest assignable starting address for **14CH** is **499**.
   - The highest assignable starting address for **42CH** is **471**.
   - The highest assignable starting address for **47CH** is **466**.
   - The highest assignable starting address for **59CH** is **454**.

## Control Channel Assignments and Values

### DMX Mode 59CH / 47CH / 42CH

| 42CH | 47CH | 59CH | Function | Value | Percent/Setting |
|---|---|---|---|---|---|
| 1 | 1 | 1 | Dimmer | 000 ⇔ 255 | 0–100% |
| 2 | 2 | 2 | Dimmer fine | 000 ⇔ 255 | 0–100% |
| 3 | 3 | 3 | Red 1 | 000 ⇔ 255 | 0–100% |
| 4 | 4 | 4 | Green 1 | 000 ⇔ 255 | 0–100% |
| 5 | 5 | 5 | Blue 1 | 000 ⇔ 255 | 0–100% |
| – | – | 6 | Strobe 1 | 000 ⇔ 010<br>011 ⇔ 255 | Open<br>Strobe, slow to fast |
| 6 | 6 | 7 | Red 2 | 000 ⇔ 255 | 0–100% |
| 7 | 7 | 8 | Green 2 | 000 ⇔ 255 | 0–100% |
| 8 | 8 | 9 | Blue 2 | 000 ⇔ 255 | 0–100% |
| – | – | 10 | Strobe 2 | 000 ⇔ 010<br>011 ⇔ 255 | Open<br>Strobe, slow to fast |
| 9 | 9 | 11 | Red 3 | 000 ⇔ 255 | 0–100% |
| 10 | 10 | 12 | Green 3 | 000 ⇔ 255 | 0–100% |
| 11 | 11 | 13 | Blue 3 | 000 ⇔ 255 | 0–100% |
| – | – | 14 | Strobe 3 | 000 ⇔ 010<br>011 ⇔ 255 | Open<br>Strobe, slow to fast |
| 12 | 12 | 15 | Red 4 | 000 ⇔ 255 | 0–100% |
| 13 | 13 | 16 | Green 4 | 000 ⇔ 255 | 0–100% |
| 14 | 14 | 17 | Blue 4 | 000 ⇔ 255 | 0–100% |
| – | – | 18 | Strobe 4 | 000 ⇔ 010<br>011 ⇔ 255 | Open<br>Strobe, slow to fast |
| 15 | 15 | 19 | Red 5 | 000 ⇔ 255 | 0–100% |
| 16 | 16 | 20 | Green 5 | 000 ⇔ 255 | 0–100% |
| 17 | 17 | 21 | Blue 5 | 000 ⇔ 255 | 0–100% |
| – | – | 22 | Strobe 5 | 000 ⇔ 010<br>011 ⇔ 255 | Open<br>Strobe, slow to fast |
| 18 | 18 | 23 | Red 6 | 000 ⇔ 255 | 0–100% |
| 19 | 19 | 24 | Green 6 | 000 ⇔ 255 | 0–100% |
| 20 | 20 | 25 | Blue 6 | 000 ⇔ 255 | 0–100% |
| – | – | 26 | Strobe 6 | 000 ⇔ 010<br>011 ⇔ 255 | Open<br>Strobe, slow to fast |
| 21 | 21 | 27 | Red 7 | 000 ⇔ 255 | 0–100% |
| 22 | 22 | 28 | Green 7 | 000 ⇔ 255 | 0–100% |
| 23 | 23 | 29 | Blue 7 | 000 ⇔ 255 | 0–100% |
| – | – | 30 | Strobe 7 | 000 ⇔ 010<br>011 ⇔ 255 | Open<br>Strobe, slow to fast |
| 24 | 24 | 31 | Red 8 | 000 ⇔ 255 | 0–100% |
| 25 | 25 | 32 | Green 8 | 000 ⇔ 255 | 0–100% |
| 26 | 26 | 33 | Blue 8 | 000 ⇔ 255 | 0–100% |
| – | – | 34 | Strobe 8 | 000 ⇔ 010<br>011 ⇔ 255 | Open<br>Strobe, slow to fast |
| 27 | 27 | 35 | Red 9 | 000 ⇔ 255 | 0–100% |
| 28 | 28 | 36 | Green 9 | 000 ⇔ 255 | 0–100% |
| 29 | 29 | 37 | Blue 9 | 000 ⇔ 255 | 0–100% |
| – | – | 38 | Strobe 9 | 000 ⇔ 010<br>011 ⇔ 255 | Open<br>Strobe, slow to fast |
| 30 | 30 | 39 | Red 10 | 000 ⇔ 255 | 0–100% |
| 31 | 31 | 40 | Green 10 | 000 ⇔ 255 | 0–100% |
| 32 | 32 | 41 | Blue 10 | 000 ⇔ 255 | 0–100% |

| 42CH | 47CH | 59CH | Function | Value | Percent/Setting |
|---|---|---|---|---|---|
| – | – | 42 | **Strobe 10** | 000 ⇔ 010<br>011 ⇔ 255 | Open<br>Strobe, slow to fast |
| 33 | 33 | 43 | **Red 11** | 000 ⇔ 255 | 0–100% |
| 34 | 34 | 44 | **Green 11** | 000 ⇔ 255 | 0–100% |
| 35 | 35 | 45 | **Blue 11** | 000 ⇔ 255 | 0–100% |
| – | – | 46 | **Strobe 11** | 000 ⇔ 010<br>011 ⇔ 255 | Open<br>Strobe, slow to fast |
| 36 | 36 | 47 | **Red 12** | 000 ⇔ 255 | 0–100% |
| 37 | 37 | 48 | **Green 12** | 000 ⇔ 255 | 0–100% |
| 38 | 38 | 49 | **Blue 12** | 000 ⇔ 255 | 0–100% |
| – | – | 50 | **Strobe 12** | 000 ⇔ 010<br>011 ⇔ 255 | Open<br>Strobe, slow to fast |
| 39 | 39 | 51 | **Amber** | 000 ⇔ 255 | 0–100% |
| 40 | 40 | 52 | **White** | 000 ⇔ 255 | 0–100% |
| 41 | 41 | 53 | **UV** | 000 ⇔ 255 | 0–100% |
| 42 | 42 | 54 | **Strobe** | 000 ⇔ 010<br>011 ⇔ 255 | Open<br>Strobe, slow to fast |
| – | 43 | 55 | **Color macro** | 000 ⇔ 010<br>011 ⇔ 255 | No function<br>See Color Macro Chart |
| – | 44 | 56 | **Color temperature** | 000 ⇔ 005<br>006 ⇔ 025<br>026 ⇔ 050<br>051 ⇔ 075<br>076 ⇔ 100<br>101 ⇔ 125<br>126 ⇔ 150<br>151 ⇔ 175<br>176 ⇔ 200<br>201 ⇔ 225<br>226 ⇔ 250<br>251 ⇔ 255 | No function<br>Warm white 1<br>Warm white 2<br>Warm white 3<br>Neutral white 1<br>Neutral white 2<br>Neutral white 3<br>Daylight 1<br>Daylight 2<br>Daylight 3<br>Daylight 4<br>No function |
| – | 45 | 57 | **Auto programs** | 000 ⇔ 010<br>011 ⇔ 060<br>061 ⇔ 110<br>111 ⇔ 160<br>161 ⇔ 210<br>211 ⇔ 255 | No function<br>Auto program 1<br>Auto program 2<br>Auto program 3<br>Auto program 4<br>Auto program 5 (Auto program 1–4) |
| – | 46 | 58 | **Auto speed** | 000 ⇔ 255 | Auto speed (slow to fast) |
| – | 47 | 59 | **Dimmer speed** | 000 ⇔ 051<br>052 ⇔ 101<br>102 ⇔ 152<br>153 ⇔ 203<br>204 ⇔ 255 | Preset dimmer<br>Off<br>Dimmer speed 1 (Fast)<br>Dimmer speed 1 (Moderate)<br>Dimmer speed 1 (Slow) |

## DMX Mode 14CH /13CH / 9CH / 8CH / 6CH

| 6CH | 8CH | 9CH | 13CH | 14CH | Function | Value | Percent/Setting |
|---|---|---|---|---|---|---|---|
| – | 1 | 1 | 1 | 1 | Dimmer | 000 ⇔ 255 | 0–100% |
| – | – | 2 | – | 2 | Dimmer fine | 000 ⇔ 255 | 0–100% |
| 1 | 2 | 3 | 2 | 3 | Red | 000 ⇔ 255 | 0–100% |
| 2 | 3 | 4 | 3 | 4 | Green | 000 ⇔ 255 | 0–100% |
| 3 | 4 | 5 | 4 | 5 | Blue | 000 ⇔ 255 | 0–100% |
| 4 | 5 | 6 | 5 | 6 | Amber | 000 ⇔ 255 | 0–100% |
| 5 | 6 | 7 | 6 | 7 | White | 000 ⇔ 255 | 0–100% |
| 6 | 7 | 8 | 7 | 8 | UV | 000 ⇔ 255 | 0–100% |
| – | 8 | 9 | 8 | 9 | Strobe | 000 ⇔ 010<br>011 ⇔ 255 | Open<br>Strobe, slow to fast |
| – | – | – | 9 | 10 | Color macro | 000 ⇔ 010<br>011 ⇔ 255 | No function<br>See Color Macro Chart |
| – | – | – | 10 | 11 | Color temperature | 000 ⇔ 005<br>006 ⇔ 025<br>026 ⇔ 050<br>051 ⇔ 075<br>076 ⇔ 100<br>101 ⇔ 125<br>126 ⇔ 150<br>151 ⇔ 175<br>176 ⇔ 200<br>201 ⇔ 225<br>226 ⇔ 250<br>251 ⇔ 255 | No function<br>Warm white 1<br>Warm white 2<br>Warm white 3<br>Neutral white 1<br>Neutral white 2<br>Neutral white 3<br>Daylight 1<br>Daylight 2<br>Daylight 3<br>Daylight 4<br>No function |
| – | – | – | 11 | 12 | Auto programs | 000 ⇔ 010<br>011 ⇔ 060<br>061 ⇔ 110<br>111 ⇔ 160<br>161 ⇔ 210<br>211 ⇔ 255 | No function<br>Auto program 1<br>Auto program 2<br>Auto program 3<br>Auto program 4<br>Auto program 5 (Auto program 1–4) |
| – | – | – | 12 | 13 | Auto speed | 000 ⇔ 255 | Auto speed (slow to fast) |
| – | – | – | 13 | 14 | Dimmer speed | 000 ⇔ 051<br>052 ⇔ 101<br>102 ⇔ 152<br>153 ⇔ 203<br>204 ⇔ 255 | Preset dimmer<br>Off<br>Dimmer speed 1 (Fast)<br>Dimmer speed 1 (Moderate)<br>Dimmer speed 1 (Slow) |

## Color Macro Chart

| DMX Channel Value | Red Value | Green Value | Blue Value | Amber Value | White Value |
|---|---|---|---|---|---|
| 000 ⇔ 010 | No function | No function | No function | No function | No function |
| 011 ⇔ 051 | 100–0% | 0–100% | 0% | 0% | 0% |
| 052 ⇔ 091 | 0% | 100–0% | 0–100% | 0% | 0% |
| 092 ⇔ 131 | 0–100% | 0% | 100–0% | 0% | 0% |
| 132 ⇔ 151 | 100–0% | 0% | 0% | 0% | 0–100% |
| 152 ⇔ 170 | 0% | 0% | 0–100% | 0% | 100–0% |
| 171 ⇔ 200 | 100% | 100% | 100% | 100% | 100% |
| 201 ⇔ 255 | 0–100% | 0–100% | 0–100% | 100–0% | 0–100% |

# Configuration (Standalone)

## Fixed Color

To select a preset fixed color combination:

1. Go to the **Static** main level.
2. Select the desired combination (**R, G, B, A, W, UV, RG, RB, RA, RW, RUV, GB, GA,GW, GUV, BA, BW, BUV, AW, AUV, WUV, RGB, RGA, RGW, RGUV, RBA, RBW, RBUV, RAW, RAUV, RWUV, GBA, GBW, GBUV, GAW, GAUV, GWUV, BAW, BAUV, BWUV, AWUV, RGBA, RGBW, RGBUV, RGAW, RGAUV, RGWUV, RBAW, RBAUV, RBWUV, RAWUV, GBAW, GBAUV, GBWUV, GAWUV, BAWUV, RGBAW, RGBAUV, RGBWUV, RGAWUV, RBAWUV, GBAWUV,** or **RGBAWUV**).

## Color Temperature

To select a preset color temperature:

1. Go to the **Static** main level.
2. Select the desired **color temperature** option.
3. Select the color temperature, from **Warm White 1, Warm White 2, Warm White 3, Neutral White 1, Neutral White 2, Neutral White 3, Daylight 1, Daylight 2, Daylight 3,** or **Daylight 4**.

## Manual Color Mixer

To manually mix a custom static color:

1. Go to the **Static** main level.
2. Select the **Manual Color** Option.
3. Select the desired color from **Red**, **Green**, **Blue**, **Amber, White,** or **Ultraviolet**.
4. Set the desired value for the selected color (**0–255**).

## Auto Show

To select an automatic program:

1. Go to the **Auto Show** main level.
2. Select the program, from **Auto 1–5**.
3. Set the program speed, from **001–100**.

# Configuration (Settings)

## Master/Slave

The Master/Slave mode allows a group of COLORdash Batten H12X IP products (the slaves) to simultaneously duplicate the output of another COLORdash Batten H12X IP (the master) without a DMX controller.

To set each of the slaves:

1. Go to the **Master/Slave** main level.
2. Select **Slave**.

To set the master:

1. Go to the **Master/Slave** main level.
2. Select **Master**.
3. Select a static setting.

- **The master is the one that runs a program whether in Auto or Static mode.**
- **Do not connect a DMX controller to the products configured for Master/Slave operation. The DMX controller may interfere with signals from the master.**
- **The master should be the first product in the daisy chain.**

## Dimmer Speed

This setting determines how fast the output of the COLORdash Batten H12X IP changes when the user modifies the output value. This setting provides three different options to simulate the dimming curve of an incandescent lighting product.

1. Go to the **Dimmer Speed** main level.
2. Select a dimmer curve (**OFF**, **Dimmer 1**, **Dimmer 2**, or **Dimmer 3**).

**OFF**: The output is proportional (linear) to the dimmer channel value.
**Dimmer 1–3**: The output follows the dimmer value based on the corresponding dimmer curve, **Dimmer 1** being the fastest.

## White Balance

This setting determines the maximum output values for each color, which affects the appearance of the total color output.

1. Go to the **White Balance** main level.
2. Select from **Off** (uses factory default white setting) or **Manual** (uses a custom white balance).
3. Select the color value to alter, from **Red**, **Green**, **Blue**, **Amber**, **White**, or **UV**.
4. Set the maximum value of the selected color, from **125–255**.

## LED Frequency

This option changes the Pulse Width Modulation (PWM) frequency of the LEDs on the COLORdash Batten H12X IP.

1. Go to the **LED Frequency** main level.
2. Select PWM Frequency (**600Hz**, **1200Hz**, **2000Hz**, **4000Hz**, **6000Hz**, or **25KHz**).

## Back Light

To set how long before an inactive display will turn off:

1. Go to the **Back Light** main level.
2. Select the length of the back light timer, from **10S** (10 seconds), **30S** (30 seconds), **2Min** (2 minutes), or **Always On**.

## Key Lock

To lock the display with a passcode:

1. Go to the **Key Lock** main level.
2. Select **On** (lock the display) or **Off** (unlock the display).

## Information

To view essential product information:

1. Go to the **Information** main level.
2. Select **Fixture Hours**, **Version**, or **UID**.

## Factory Reset

To reset the product to factory settings:

1. Go to the **Reset Factory** main level.
2. Select **NO** (to cancel) or **YES** (to reset the product configuration).

## System Update

To update the firmware with a USB to DMX adapter cable:

1. Go to the **System Update** main level.
2. Follow the instructions (**Put the update file into the USB stick and connect it to the device through an adapter cable**).
3. Select **NO** (to cancel) or **YES** (to update the firmware).

# 5. Maintenance

## Product Maintenance

Dust build-up reduces light output performance and can cause overheating. This can lead to reduction of the light source's life and/or mechanical wear. To maintain optimum performance and minimize wear, clean lighting products at least twice a month. However, be aware that usage and environmental conditions could be contributing factors to increase the cleaning frequency.
To clean the product, follow the instructions below:

1. Unplug the product from power.
2. Wait until the product is at room temperature.
3. Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external surface/vents.
4. Clean all transparent surfaces with a mild soap solution, ammonia-free glass cleaner, or isopropyl alcohol.
5. Apply the solution directly to a soft, lint-free cotton cloth or a lens-cleaning tissue.
6. Softly drag any dirt or grime to the outside of the transparent surface.
7. Gently polish the transparent surfaces until they are free of haze and lint.

**Always dry the transparent surfaces carefully after cleaning them.**

# 6. Technical Specifications

**Dimensions and Weight**

| Length | Width | Height | Weight |
|---|---|---|---|
| 39.4 in (1000 mm) | 8.1 in (208 mm) | 3.8 in (96 mm) | 17.4 lb (8 kg) |

**Note**: Dimensions in inches are rounded.

**Power**

| Power Supply Type | Range | Voltage Selection |
|---|---|---|
| Switching (internal) | 100 to 240 VAC, 50/60 Hz | Auto-ranging |

| Parameter | 100 V, 60 Hz | 120 V, 60 Hz | 208 V, 60 Hz | 230 V, 50 Hz | 240 V, 50 Hz |
|---|---|---|---|---|---|
| Consumption | 160 W | 154 W | 151 W | 151 W | 151 W |
| Operating current | 1.575 A | 1.284 A | 0.741 A | 0.667 A | 0.641 A |

| Power I/O | U.S./Worldwide | UK/Europe |
|---|---|---|
| Power input connector | Hardwired | Hardwired |
| Power output connector | Hardwired | Hardwired |
| Power cord plug | Edison (U.S.) | Local Plug |

**Light Source**

| Type | Color | Quantity | Power | Current | Lifespan |
|---|---|---|---|---|---|
| LED | RGBAW + UV | 12 | 10 W | 532 mA | 50,000 hours |

**Photometrics**

| Color temperature | Beam Angle | Field Angle | Lumens | Illuminance @ 5 m |
|---|---|---|---|---|
| 11567 K | 24.9° | 40.7° | 4,796 lm | 881 lux |

**Thermal**

| Maximum External Temperature | Cooling System |
|---|---|
| 113 °F (45 °C) | Convection |

**Control**

| I/O Connector | Channel Range |
|---|---|
| 3-pin/ 5-pin XLR DMX input and output cable whips | 6, 8, 9, 13, 14, 42, 47, or 59 channels |

**Ordering**

| Product Name | Item Name | Item Code | UPC Number |
|---|---|---|---|
| COLORdash Batten H12X IP | COLORDASHBATTENH12XIP | 10031868 | 781462222161 |

UL 1573
CSA C22.2 No. 166
E113093

# Contact Us

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## Warranty & Returns

**For warranty terms and conditions and return information, please visit our website.**

For customers in the United States and Mexico: www.chauvetlighting.com/warranty-registration.

For customers in the United Kingdom, Republic of Ireland, Belgium, the Netherlands, Luxembourg, France, and Germany: www.chauvetlighting.eu/warranty-registration.