

COLORDash Par-H18XM

User Manual



Model ID: COLORDASHPARH18XM

Edition Notes

The COLORdash Par H18XM User Manual includes a description, safety precautions, installation, programming, operation, and maintenance instructions for the COLORdash Par H18XM as of the release date of this edition.

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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

Go to www.chauvetprofessional.com for the latest version.

Revision	Date	Description
1	12/2025	Initial release.

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Before You Begin

1. Before You Begin

What Is Included

- COLORdash Par H18XM
- USB Firmware Upload Adapter
- DMX XLR Adapter
- 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.

Connection of the control signal: DMX line

- The product has XLR sockets for DMX input and output.
- Notice: This control circuit is isolated and belongs to the Class 2 data port.

The control circuit has a cumulative leakage current of less than 3.5 mA.

Safety Notes

Read all the following safety notes before working with this product. These notes contain important information about the installation, usage, and maintenance of this product.



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.

- 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:**
 - 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.
 - Use a safety cable when mounting this product overhead.
 - Connect this product to a grounded and protected circuit.
 - Create a drip loop to ensure appropriate space for maintenance and prevent water from accumulating at the end of the wire around the fixture.
- **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.
 - Mount the fixture in direct contact with other metals, as this may encourage corrosion.
 - Permanently install outdoors in locations with extreme environmental conditions. This includes, but is not limited to:
 - 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 minimum ambient temperature is -4 °F (-20 °C). Do not operate this product at lower temperatures.
- The maximum ambient temperature is 113°F (45°C). Do not operate the product at higher 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.

Before You Begin

- In the event of a serious operating problem, stop using immediately.



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

FCC Statement of 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.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

Expected LED Lifespan

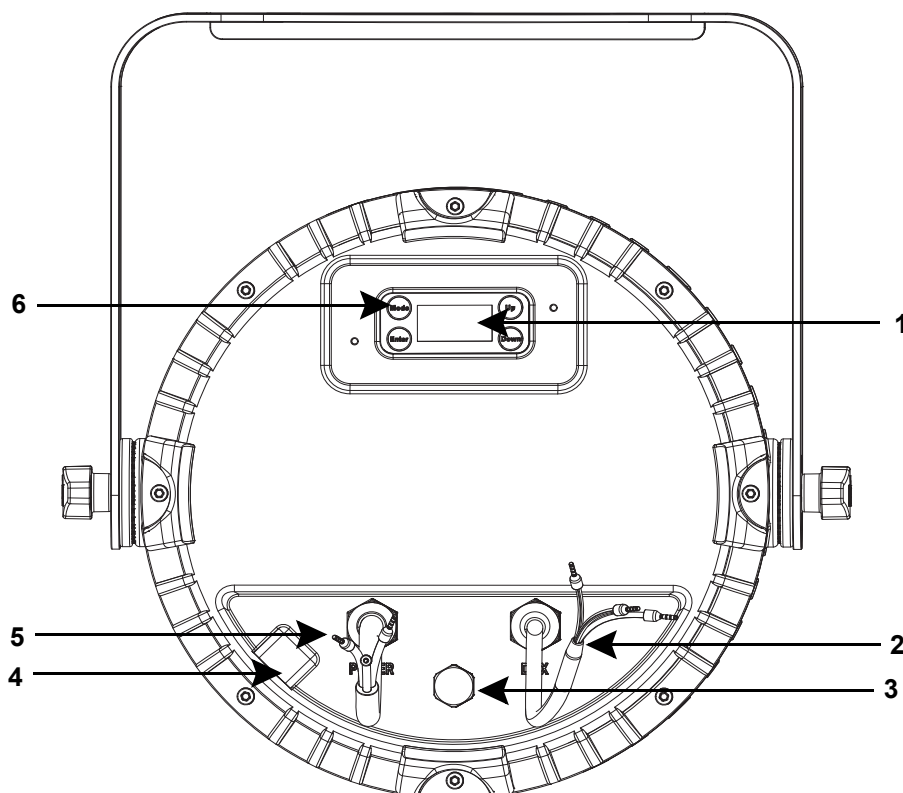
Over time, use and heat will gradually reduce LED brightness. Clustered LEDs produce more heat than single LEDs, contributing to shorter lifespans if always used at full intensity. The average LED lifespan is 40,000 to 50,000 hours. To extend LED lifespan, maintain proper ventilation around the product,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

2. Introduction

Features

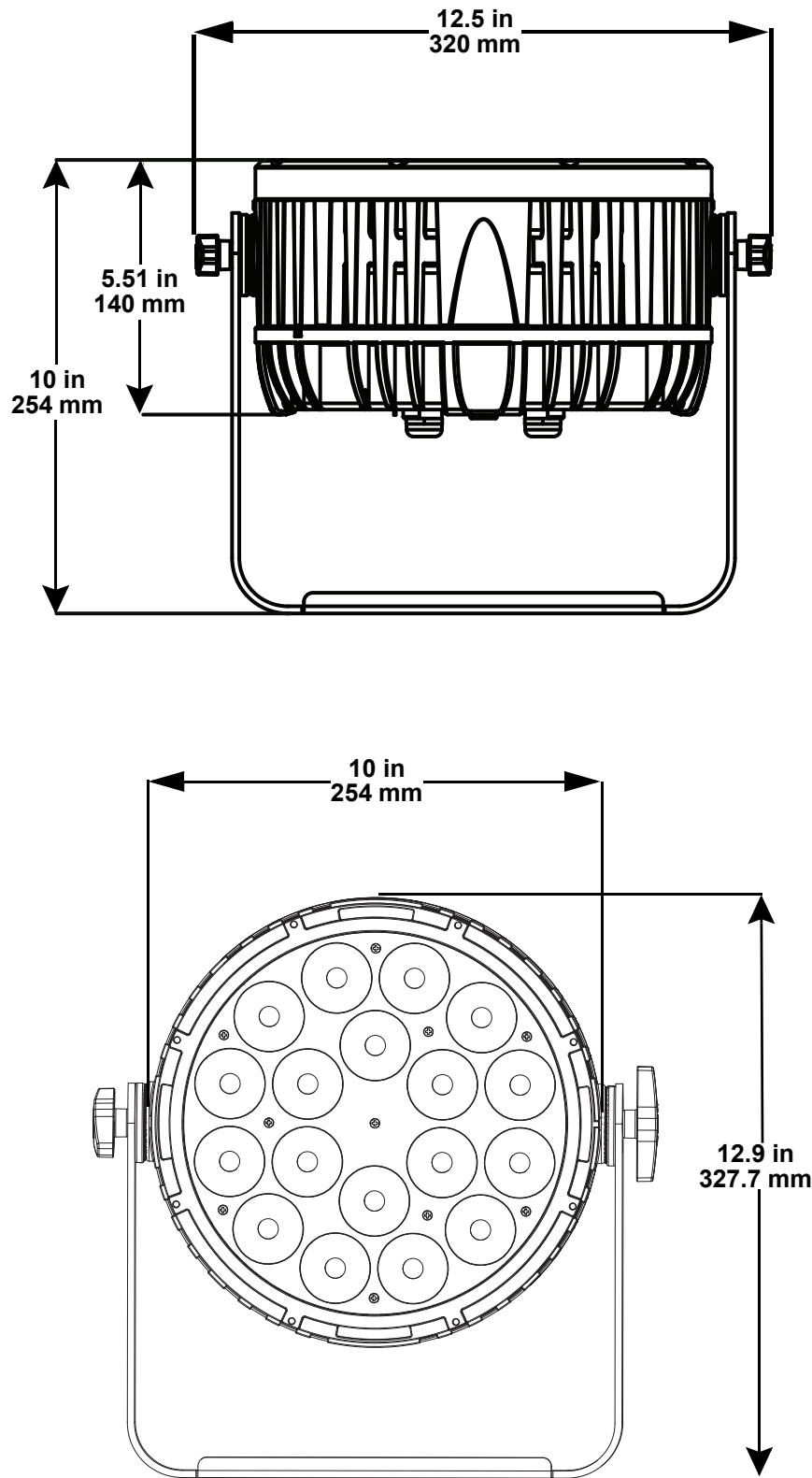
- Rugged RGBWA-UV LED wash with C5-M marine grade coating for events in demanding conditions
- At home in any weather conditions and any environment with IP rated power and DMX connections
- Adjustable PWM (Pulse Width Modulation) to avoid flickering on camera
- RDM (Remote Device Management) for added flexibility
- Selectable, smooth dimming curves for eliminating flicker and choppiness in fades
- Easy to read OLED display with security/protective cover and touchscreen interface
- Advanced optics provide exceptional color mixing and high efficiency
- Heavy duty single yoke for rock solid installation

Product Overview



#	Name	#	Name
1	OLED display	4	Safety cable pass-through
2	Power in	5	DMX in
3	Condensation valve	6	Menu buttons

Product Dimensions



3. Setup

AC Power

The COLORdash Par H18XM 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). Ensure 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 Par H18XM comes with a termination-ready, bare-ended power input cable. Use the table below to wire a 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

DMX Linking

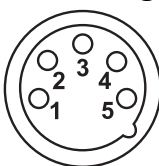
The COLORdash Par H18XM can link to a DMX controller using a DMX connection. For more information about DMX, read the DMX primer at:

https://www.chauvetprofessional.com/wp-content/uploads/2016/06/DMX_Primer.pdf.

DMX Connection

The COLORdash Par H18XM provides a DMX-512 connection using a bare-ended signal cable. Use the included DMX XLR adaptor to connect to a DMX controller.

DMX Plug



DMX XLR Adaptor



Pin	Function	Clip	Wire
1	Ground	Black	Ground
2	Data -	Green	White/Orange
3	Data +	Red	Green/Yellow
4	N/A		
5	N/A		

Signal Cable



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 Par H18XM supports RDM protocol that allows feedback to make changes to menu map options.

DMX Personalities

The COLORdash Par H18XM uses a 5-pin DMX data connection for its 5 DMX personalities, ranging from **6Ch, 8Ch, 9Ch, 13Ch, to 14Ch**.

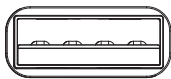


- Refer to the [Operation](#) chapter to learn how to configure the COLORdash Par H18XM to work in these personalities.
- The [DMX Channel Assignments and Values](#) section provides detailed information regarding the DMX personalities.



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.

USB Software Update

The COLORdash Par H18XM allows for software update using the included USB Firmware Upload adaptor. Use the table below to connect the USB adaptor.

USB	USB Connector	Pin	Function	Clip	Wire	USB Cable
		1	Ground	Black	Black	
		2	Data -	Green	White/Orange	
		3	+5V	Red	Red	
		4	Data +	White	Green/Yellow	
		5	N/A			

To update the software using a USB firmware upload adaptor, do the following:

1. Power on the product and plug the flash drive into the USB firmware upload adaptor.
2. Go to **"System Update"** on the main menu and press **<ENTER>**.
3. Scroll down through the directions on the display until **"NO"** and **"YES"** appear.
4. Select from **"NO"** (return to main menu), or **"YES"** (begin software update).
5. When the **"YES"** option is selected, the update will start. DO NOT turn off power or disconnect the USB during the process. The USB update can take several minutes to complete.
6. When the update is complete, the product will automatically reboot.
7. Go to the **Information** level of the product main menu and confirm the firmware revision.
8. When the boot-up process is finished, restart the product manually.



- Place the .chl file in the root directory of the USB drive.
- The product's USB port supports up to 32GB capacity and only works with FAT32 file format.



Turning off the power, removing the USB, or not setting the fixture to the correct protocol during the update can cause partial or total firmware failure in the targeted fixture(s).

Mounting

Before mounting the product, read and follow the safety recommendations indicated in the [Safety Notes](#).

Orientation

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

Rigging

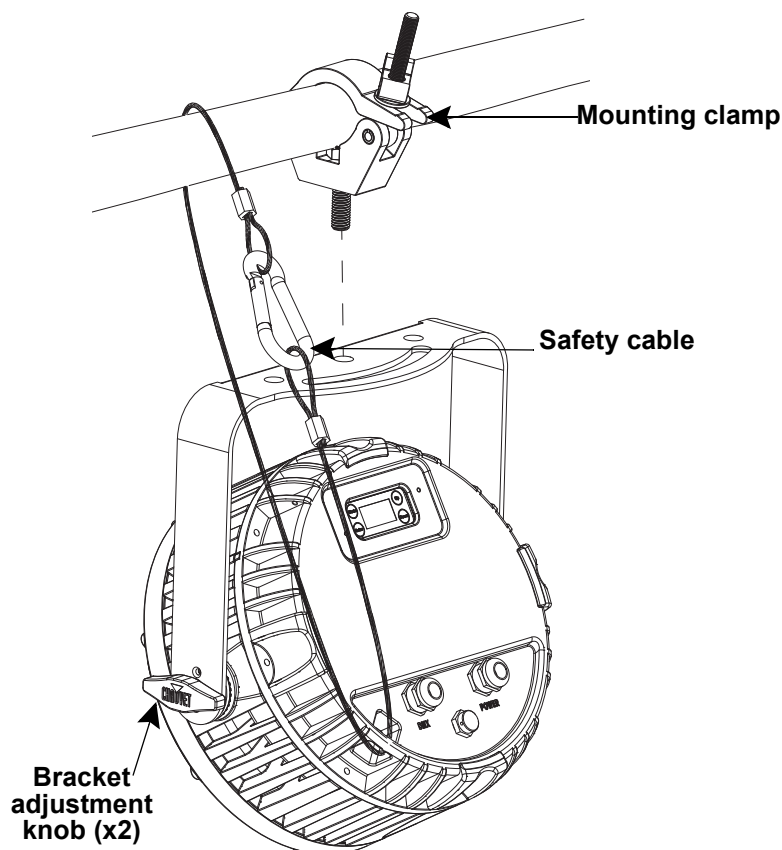
Chauvet recommends using the following general guidelines when mounting this product.

- 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 and attachment points can support the weight before hanging the product (see the [Technical Specifications](#) for weight information).
- When mounting the product overhead, always use a safety cable. Mount the product securely to a rigging point, whether an elevated platform or a truss.
- When rigging the product onto a truss, use a mounting clamp of appropriate weight capacity.
- The bracket adjustment knobs allow for directional adjustment when aiming the product to the desired angle. Only loosen or tighten the bracket knobs manually. Using tools could damage the knobs.

Procedure

The COLORdash Par H18XM comes with a hanging bracket. The user can directly attach a mounting clamp (sold separately) to this bracket. Make sure the clamp is capable of supporting the weight of this product. For the Chauvet Professional line of mounting clamps, go to <http://www.trusst.com/products>.





Mounting Diagram



Operation

4. Operation

Control Panel Description

Button	Name	Function
	<Mode>	Exits the from the current menu or function
	<Enter>	Enables the currently displayed menu or sets a selected value into a function
	<Up>	Navigates upwards through the menu or increases the numeric value of a function
	<Down>	Navigates downwards through the menu or decreases the numeric value of a function

Control Options

Set the COLORdash Par H18XM starting address in the **001–507** DMX range. This enables control of up to 85 products in the 6-channel **6CH** personality.

Programming

Refer to the menu map to understand the menu options. The menu map shows the main menu and a variable number of programming levels for each option.

- To access the main menu, press **<Mode>**.
- To navigate to the desired option in the main menu, press **<Up>** or **<Down>** to navigate directly.
- Press **<Enter>** to select the indicated option.
- Use **<UP>** or **<DOWN>** to navigate within a programming level until the desired option is indicated.
- To return to the main menu, press **<Mode>** repeatedly until it shows on the display.
- Press and hold **<Mode>** to return to the home screen.

Passcode

When prompted, enter the following passcode: **<UP>**, **<DOWN>**, **<UP>**, **<DOWN>**, **<ENTER>**.
It is not possible to change this passcode.

Menu Map

Refer to the COLORdash Par H18XM product page on www.chauvetprofessional.com for the latest menu map.

Main Level	Programming Levels		Description
DMX Address	001–507		Selects DMX address (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: 16-bit dimmer, RGBAWUV, strobe, color macro, color temperature, auto program, auto speed, dimmer speed
	14CH		14-channel: dimmer, 16-bit dimmer, RGBAWUV, strobe, color macro, color temperature, auto program, auto speed, dimmer speed
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

Main Level	Programming Levels		Description
Static (cont.)	Fixed Color (cont.)	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
		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
		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	
		Daylight3	
		Daylight4	
	Manual Color Mixer	Red	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	001–100	Selects automatic programs and program speed
Master/Slave	Master		DMX mode (Master)
	Slave		Slave mode
Dimmer Mode	Off		Linear dimmer
	Dimmer 1–3		Dimming curves Dimmer 1 (fast) to Dimmer 3 (slow)

Main Level	Programming Levels			Description
White Balance	Off			Uses factory default white setting
	Manual	Red	125–255	Sets red LED maximum value
		Green		Sets green LED maximum value
		Blue		Sets blue LED maximum value
		White		Sets white LED maximum value
		UV		Sets UV LED maximum value
LED Frequency	600Hz			Sets the PWM frequency
	1200Hz			
	2000Hz			
	4000Hz			
	6000Hz			
	25KHz			
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 always on
Key Lock	On			Locks display (password is <UP>, <DOWN>, <UP>, <DOWN>, <ENTER>)
	Off			
Information	Fixture Hours	<_ _ _ _H>		Shows total hours the product has been powered on
	Version	<V _ _>		Shows current firmware version
	UID	<_ _ _ _ _>		Shows product UID
Factory Reset	No			Resets the product to factory default settings
	Yes			
System Update	No			Download the update file onto a USB flash drive and connect it to the product using the include adapter cable. Update firmware via USB to DMX adapter cable
	Yes			

Operation

DMX Configuration

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

DMX Personalities

To set the DMX personality:

1. Go to the **DMX Channel** main level.
2. Select the desired personality, from **6CH**, **8CH**, **9CH**, **13CH**, or **14CH**.



- See the [Starting Address](#) section for the highest selectable starting address 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 controller. All products with the same starting address will respond in unison. To set the starting address in DMX mode:

1. Go to the **DMX Address** main level.
2. Select the starting address (**001–507**).

Personality	Highest Address	Products per Universe
6CH	507	85
8CH	505	64
13CH	500	39
14CH	499	35

DMX Channel Assignments and Values

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	Fine dimmer	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 ⇔ 010 011 ⇔ 255	No function Strobe, slow to fast
–	–	–	9	10	Color macro	000 ⇔ 010 011 012 ⇔ 029 030 031 ⇔ 049 050 051 ⇔ 069 070 071 ⇔ 089 090 091 ⇔ 109 110 111 ⇔ 129 130 131 ⇔ 149 150 151 ⇔ 169 170 171 ⇔ 200 201 ⇔ 255	No function Red full Red full, green increases Red and green full Green full, red decreases Green full Green full, blue increases Green and blue full Blue full, green decreases Blue full Blue full, red increases Red and blue full Red full, blue decreases Red full Red full, green and blue increase Red, green, and blue full Blue, full red and green decrease Blue full Red, green, and blue full Color temperature, warm to cool
–	–	–	10	11	Color temperature	001 ⇔ 005 006 ⇔ 025 026 ⇔ 050 051 ⇔ 075 076 ⇔ 100 101 ⇔ 125 126 ⇔ 150 151 ⇔ 175 176 ⇔ 200 201 ⇔ 225 226 ⇔ 250 251 ⇔ 255	No function Warm white 1 Warm white 2 Warm white 3 Neutral white 1 Neutral white 2 Neutral white 3 Daylight 1 Daylight 2 Daylight 3 Daylight 4 No function

6CH	8CH	9CH	13CH	14CH	Function	Value	Percent/Setting
–	–	–	11	12	Automatic programs	000 ⇄ 010	No function
						011 ⇄ 060	Auto program 1
						061 ⇄ 110	Auto program 2
						111 ⇄ 160	Auto program 3
						161 ⇄ 210	Auto program 4
						211 ⇄ 255	Auto program 5 (Auto program 1-4)
–	–	–	12	13	Program speed	000 ⇄ 255	Automatic program speed, slow to fast
–	–	–	13	14	Dimmer speed	000 ⇄ 051	Preset dimmer speed from display menu
						052 ⇄ 101	Linear dimmer
						102 ⇄ 152	Dimmer speed 1 (fastest)
						153 ⇄ 203	Dimmer speed 2
						204 ⇄ 255	Dimmer speed 3 (slowest)

Standalone Configuration

Static Mode

The static mode option includes fixed colors, preset color temperatures and a manual color mixer.

Fixed Color

To select a preset fixed color combination:

1. Go to the **Static** main level.
2. Select the desired combination of **R** (red), **G** (green), **B** (blue), **A** (amber), **W** (white), and/or **UV** (ultraviolet), from **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**, **RGUAUV**, **RGWUV**, **RBAW**, **RBAUV**, **RBWUV**, **RAWUV**, **GBAW**, **GBAUV**, **GBWUV**, **GAWUV**, **BAWUV**, **RGBAW**, **RGBAUUV**, **RGBWUV**, **RGAWUV**, **RBAWUV**, **GBAWUV**, or **RGBAWUV**.

Color Temperature

To select a preset color temperature:

1. Go to the **Static** main level.
2. Select the **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 Mixer** option.
3. Select the color value to alter, from **Red, Green, Blue, Amber, White, or UV**.
4. Set the value of the selected color, from **000–255**.

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**.

Settings Configuration

Master/Slave

The Master/Slave mode allows a group of COLORdash Par H18XM products (the slaves) to simultaneously duplicate the output of another COLORdash Par H18XM (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 standalone setting.



- **Configure all the slave products before connecting the master to the daisy chain.**
- **Never connect a DMX controller to a DMX string configured for Master/Slave operation because the controller may interfere with the signals from the master.**
- **Do not connect more than 31 slaves to the master.**

Dimmer Speed

This setting determines how fast the output of the COLORdash Par H18XM changes when the output value is modified. It provides four different options to simulate the dimming curve of an incandescent lighting product. To select a specific dimmer profile, do the following:

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 Color Mixer** (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**.

Pulse Width Modulation

To set the frequency of the pulse width modulation:

1. Go to the **LED Frequency** main level.
2. Select the frequency, from **600Hz**, **1200Hz**, **2000Hz**, **4000Hz**, **6000Hz**, or **25kHz**.

Display Back light

To set how long the display will stay lit without activity:

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 enable or disable the pass code lock on the display:

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

Information

To view product information, such as the number of hours the product has been on, the driver firmware, and the UID., go to the **Information** main level.

Operation

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 (**Download the update file into the USB stick and connect it to the device through the USB adapter cable**).
3. Select **NO** (to cancel) or **YES** (to update the firmware).

5. Maintenance

Marine Fixture Maintenance

Overview

Chauvet coats fixtures intended for marine environments with C5-M, C5-H, or CX paint to provide enhanced protection against damage in both inshore and offshore areas of high salinity. However, even with the enhanced protection, exposure to marine conditions may cause damage to the fixture without proper maintenance. Scratches, salt, and mineral accumulation may degrade the fixture's protective coating and expose underlying metal if not cleaned properly. In marine environments, you should inspect and clean the product's protective coating regularly to preserve the underlying metal and minimize wear on the product.

Maintenance

To preserve the coating of the product, exterior maintenance is recommended at least twice a month. To properly maintain the exterior of the product:

1. Unplug the product from power.
2. Rinse off any loose dirt.



Use a low-pressure, freshwater spray to rinse off the product. High pressure or saltwater sprays may incur damage.

3. Scrub with a soft brush to remove dust collected on the external surface/vents.
4. Rinse thoroughly.



Even if the luminaires are NOT in use, maintenance is still required due to the fixture's environment. During periods of non-use, periodically wipe the fixture with a clean, soft cloth. Only dampen this cloth with freshwater or an alcohol-based cleaner. Abrasive, alkaline, or acid cleaners may incur damage to the fixture.

Clean the external glass.



- **Only use an optical glass cleaner. DO NOT use Windex or other kinds of multi-surface cleaner as ammonia will damage the glass.**
- **Only spray the cleaner on a microfiber or 100% cotton cloth. DO NOT spray cleaner on the glass.**



Always dry the transparent surfaces carefully after cleaning them.

6. Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
10 in (254 mm)	10 in (254 mm)	5.51 in (140 mm)	14.8 lb (6.7 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	156 W	154 W	152 W	151 W	151 W
Operating Current	1.56 A	1.28 A	0.74 A	0.666 A	0.640 A

Power I/O	U.S./Worldwide	UK/Europe
Power Input Connector	Termination-ready bare-end	Termination-ready bare-end

Light Source

Type	Color	Quantity	Power
LED	Hex-color RGBWAUV	18	12 W

Photometrics

Color Temperature Range	Color Temperature at Full
2800 to 10,000 K	8017 K

Beam Angle	Field Angle
25.2°	39.4°

Illuminance @ 5 m	Lumens
1259 lux	6485

Thermal

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

Control

DMX I/O Connector	Channel Range
Termination-ready bare-end	6, 8, 9, 13, or 14

Ordering

Product Name	Item Name	Item Code	UPC Number
COLORdash Par H18XM	COLORDASHPARH18XM	10032275	781462226237



UL 1573
CSA C22.2 No. 166
E113093



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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.