onAir IP
PANEL MIN

User Manual

Model ID: ONAIRPANELMINIP

CHAUVET PROFESSIONAL

Edition Notes

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

Trademarks

Chauvet, the Chauvet logo, and onAir are registered trademarks or trademarks of Chauvet & Sons, LLC (d/b/a Chauvet and Chauvet Lighting) in the United States and other countries. Other company and product names and logos referred to herein may be trademarks of their respective companies.

Copyright Notice

The works of authorship contained in this manual, including, but not limited to, all designs, text, and images are owned by Chauvet.

© Copyright 2023 Chauvet & Sons, LLC. All rights reserved.

Electronically published by Chauvet in the United States of America.

Manual Use

Chauvet authorizes its customers to download and print this manual for professional information purposes only. Chauvet expressly prohibits the usage, copy, storage, distribution, modification, or printing of this manual or its content for any other purpose without written consent from Chauvet.

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.

Disclaimer

Chauvet believes that the information contained in this manual is accurate in all respects. However, Chauvet assumes no responsibility and specifically disclaims any and all liability to any party for any loss, damage or disruption caused by any errors or omissions in this document, whether such errors or omissions result from negligence, accident or any other cause. Chauvet reserves the right to revise the content of this document without any obligation to notify any person or company of such revision, however, Chauvet has no obligation to make, and does not commit to make, any such revisions. Download the latest version from www.chauvetprofessional.com.

Document Revision

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

Revision	Date	Description
2	10/2023	Updated USB Update instructions. Combined DMX charts.

TABLE OF CONTENTS

1. Before You Begin

What Is Included

- onAir IP Panel Min
- Seetronic Powerkon IP65 power cable
- DMX mini XLR adapter

- Ball-head mount
- Baby pin receiver
- 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.

ⓘ **Any reference to data or power connections in this manual assumes the use of Seetronic IP rated cables.**

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

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 should be positioned so that prolonged staring into the luminaire at a distance closer than 18.4 ft (5.6 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.
- The luminaire is intended for professional use only.
- **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.
    - 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.
    - Operate this product outdoors or in any location where dust, excessive heat, water, or humidity may affect it. (IP20)
- 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 -4°F (-20°C). Do not start the product at lower temperatures.
- The minimum ambient temperature is -22°F (-30°C). Do not operate 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.

If a 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.

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 your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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.
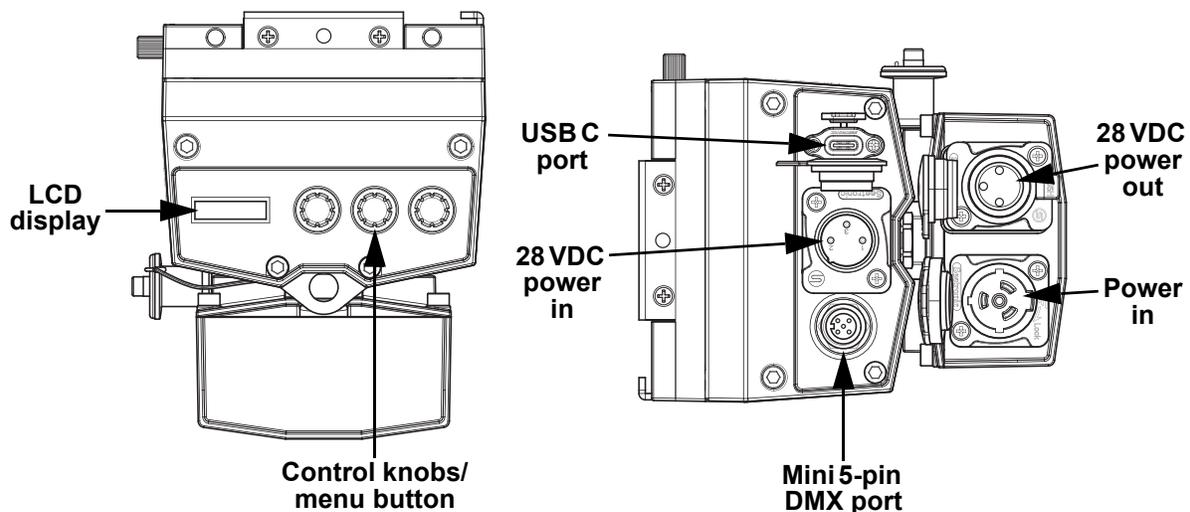
2. Introduction

Description

The onAir IP Panel Min is a small and rugged IP65, full-spectrum LED soft light capable of facing all of the elements, outdoors or in. Ready to go on-location, or squeeze into any studio space with a low trim, the onAir IP Panel Min also features a superior quality of white light with high CRI/TLC and TM-30 scores; a smooth 16-bit dimming curve and +/- green adjustment, an emulated redshift, and the ability to produce a pop of color to achieve the exact look the user is aiming to create along with built-in, customizable effects accessible from the onboard LED menu. Conveniently switch mounting options from the Ball Head Mount with included adapters for a Baby Pin Receiver or a threaded insert for attaching a clamp. The rugged build is designed with a drop-in slot to ensure ease of use when changing accessories. PWM, DMX, RDM, CRMX, and an onboard control option ensure camera-ready use. Its small size makes it super portable, and the user can remove the main power supply for a 28 VDC input via 3-pin XLR to power the fixture from an external battery pack to add increased flexibility for all of the user's remote needs.

Features

- Full-spectrum LED mini soft light panel style fixture for broadcast, film, and special events
- IP65 rating for all weather use indoors or out.
- Linear color temperature presets from 2800 K to 8000 K with high CRI and CQS
- Virtual color wheel with color matched to popular gel colors
- +/- Green adjustment and emulated red-shift via DMX or on-board control
- RDM (Remote Device Management) and CRMX wireless control for added flexibility
- Adjustable PWM (Pulse Width Modulation) to avoid flickering on camera
- Completely silent operation for use in studio applications
- Ultra-smooth 16-bit dimming curves and speeds to complement any lighting scheme.
- Easily switch mounting options from clamp mount on a ball head to baby pin
- Drop-in slot for accessories (sold separately)
- Rugged design for years of rough use in the most extreme conditions.
- Easy to use on-board control with full access to all the features of the fixture without the need for a dedicated controller.
- USB port for fixture software updates
- Compact design perfect for run-and-gun or indoor installation
- 28 VDC power input via 3-pin XLR to power the fixture from an external battery pack

Product Overview

LCD display

Control knobs/ menu button

USB C port

28 VDC power in

Mini 5-pin DMX port

28 VDC power out

Power in

Product Dimensions

4.31 in
109.4 mm

3.15 in
80 mm

10 in
254 mm

3.74 in
95 mm

5.28 in
134.2 mm

5.64 in
143.2 mm
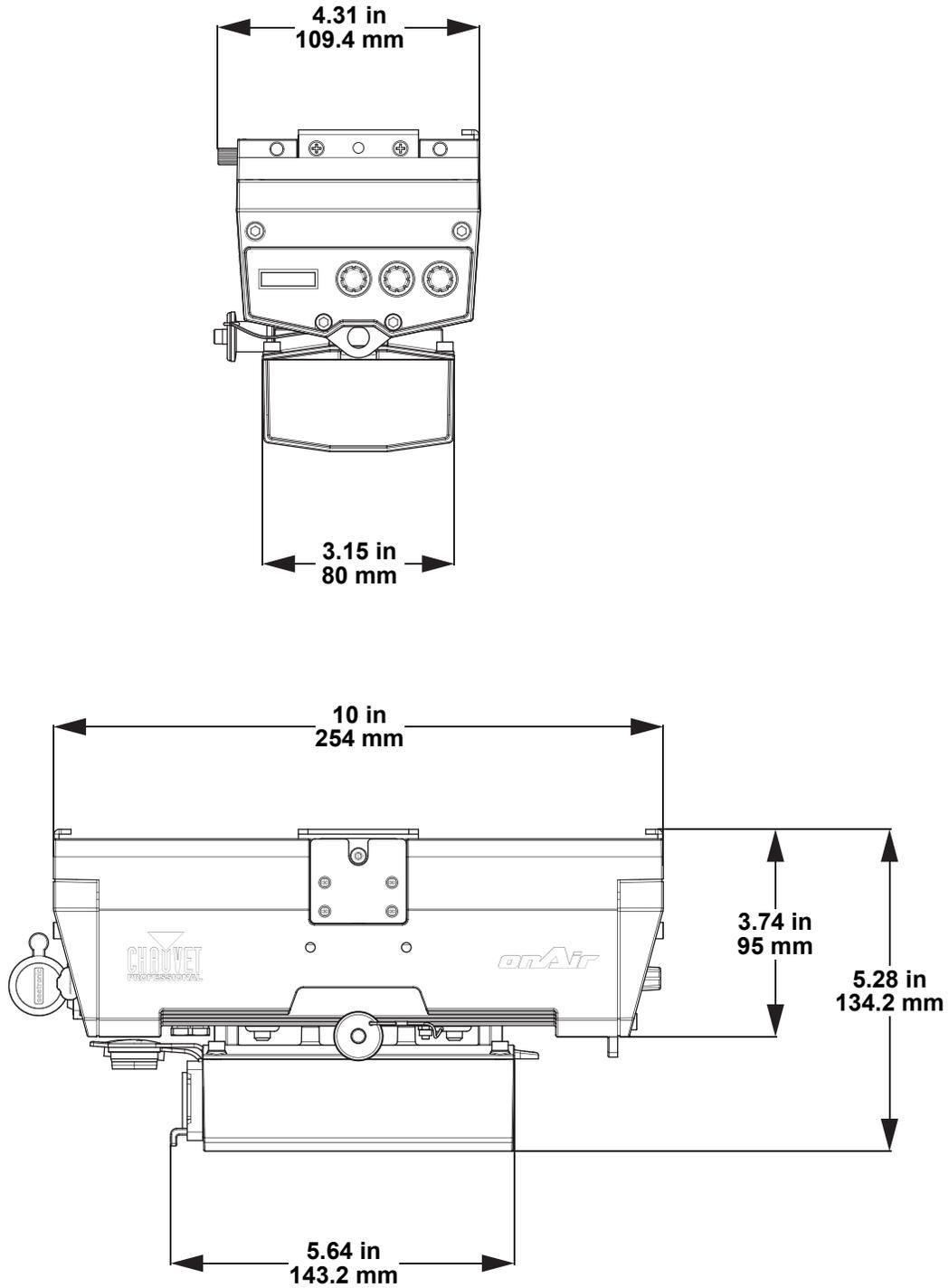
3. Setup

DC Power

The onAir IP Panel Min has a 3-pin IP65 XLR power input that can work with an input voltage of 28 VDC, 50 W.

AC Power

The onAir IP Panel Min has an auto-ranging external power supply that can work with an input voltage range of 100–240 VAC, 50/60 Hz and converts it to a 28 V DC, 50 W 3-pin IP65 XLR output.

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.**

Installing the Power Supply

The power supply attaches to the onAir IP Panel Min with a retaining pin.
1. Align the power supply so the loop on the back of the product and the loop on the power supply line up and fit into each other.
2. Press and hold the latch button down on the retaining pin and insert it through the sets of loops on the product and power supply.
3. Release the latch button.

Latch button
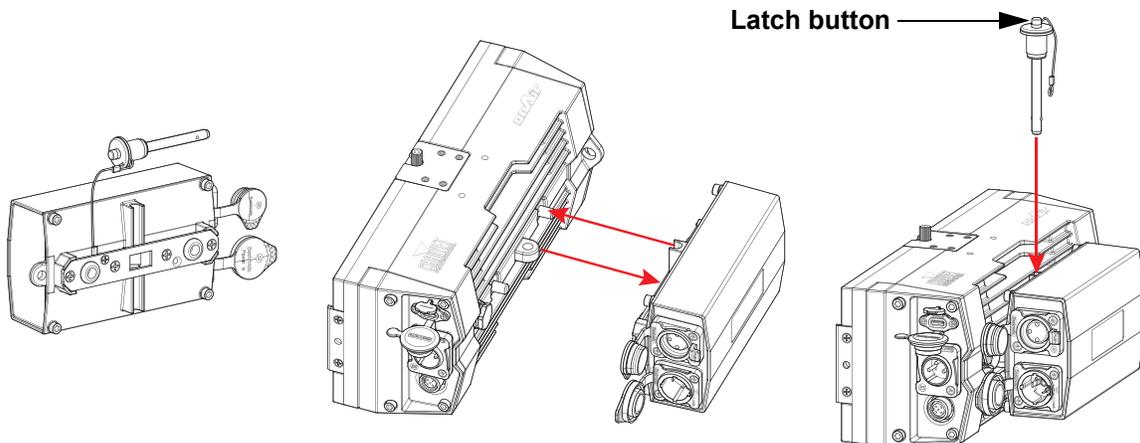
AC Plug

The onAir IP Panel Min comes with a power input cord terminated with a Seetronic Powerkon IP65 connector on one end and an Edison plug on the other end (U.S. market). If the power input cord that came with the product has no plug, or if the user needs to change the plug, 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

Signal Connections

The onAir IP Panel Min can receive a wired DMX or wireless Lumenradio CRMX™ signal. The product has a mini 5-pin DMX in port.

Control Personalities

The onAir IP Panel Min uses a mini 5-pin DMX data connection or wireless CRMX™ for its 11 control personalities: **1Ch**, **3Ch**, **4Ch**, **5Ch**, **6Ch**, **8Ch**, **10Ch**, **11Ch**, **15Ch**., **XYBasic(6)**, and **XYExtended(10)**.

- Refer to the Operation chapter to learn how to configure the onAir IP Panel Min to work in these personalities.
- The Control Channel Assignments and Values section provides detailed information regarding the control personalities.

> **If the user is not familiar with or need more information about DMX standards or the DMX cables needed to link this product to a DMX controller, download the DMX Primer from the Chauvet website: www.chauvetprofessional.com.**

DMX Linking

The onAir IP Panel Min can be linked to a DMX controller using a mini 5-pin DMX connection or a CRMX™ connection. For more information about DMX, read the DMX primer at:
https://www.chauvetprofessional.com/wp-content/uploads/2016/06/DMX_Primer.pdf.

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 onAir IP Panel Min supports RDM protocol that allows feedback to make changes to menu map options.

Lumenradio CRMX™ Connection

In optimal conditions, the onAir IP Panel Min can operate up to 300 m (900 ft) away from the CRMX™ transmitter, The CRMX™ receiver in the onAir IP Panel Min must be paired with the CRMX™ transmitter for wireless operation.

Initial Setup

1. Turn the CRMX™ transmitter on.
2. Connect the CRMX™ transmitter to a DMX controller.
3. Place the onAir IP Panel Min within 300 m from the CRMX™ transmitter.
4. Turn the onAir IP Panel Min on.

Configuration

1. From the onAir IP Panel Min's control panel, go to **DMX Address**.
2. Select the start address, as with any other DMX compatible product.
3. Go to **Wireless Setting** > **Receive On/Off**.
4. Select **On**. (The Signal Strength Indicator will show a **?** in front of the bars)
5. Press the reset button on the CRMX™ transmitter. (The Signal Strength Indicator on the onAir IP Panel Min will show a ↯ in front of the bars for 3 seconds while a connection is established.)

Product Pairing

If the onAir IP Panel Min has already been paired with the CRMX™ transmitter, the Signal Strength Indicator on top of the display will show the strength of the signal. In this case, the onAir IP Panel Min is ready to work in Wireless mode.

Pairing the onAir IP Panel Min and a New CRMX™ Transmitter

1. From the onAir IP Panel Min control panel, go to **Wireless Setting > Receive Reset**.
2. Select **Yes**.
3. From the CRMX™ transmitter, press **<RESET>**. The signal indicator on the transmitter will flash.
4. Once the transmitter has found the onAir IP Panel Min, the signal indicator on the CRMX™ transmitter will illuminate solid.
5. The display screen on the onAir IP Panel Min will show the strength of the signal.

> **CRMX™ operation can be interrupted or inhibited by people or liquid masses, including water or snow, between the transmitter and receiver. For best results, keep the area between the transmitter and receiver clear of any liquid masses.**

USB Software Update

The onAir IP Panel Min allows for software updates with a USB device using the built-in USB port. To update the software using a USB flash drive, do the following:

1. Power on the product, and plug the flash drive into the USB port.
2. Once the flash drive has been detected, the message "**Upgrade Firmware**" will be displayed. Press <**ENTER**>. If a different message appears on the display, search for the updated software in the main menu (**Upgrade Firmware**) and select from **Only This Unit**, **Multiple Fixture**, or **Other Fixture Type**. A list of the updated software files will be displayed.
3. Select the file that needs to be uploaded. The message "**Are you sure?**" will be displayed. Press <**ENTER**>.

⚠ **If the selected file is incorrect, the update will fail, and the display will go back to the main interface. Repeat steps 1–3 using the correct file.**

4. If the selected file is correct, the update will start. **DO NOT** turn off the power or disconnect the USB during the process. USB update can take several minutes to complete.
5. When the update is completed, the fixture will automatically reboot.
6. Go to Fixture Information on the product's menu map and confirm the firmware revision.
7. When the boot-up process is finished, restart the product.

📝 • **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). Please refer to Force Upload section to fix firmware failure issues.**

Force Upload

A Force Upload is done whenever a software update fails due to accidental removal of the USB flash drive, incorrect control protocol, or loss of power during a regular software update process.

ⓘ • **A Force Upload process requires a target fixture (the fixture that needs a Force Upload and a main fixture (the fixture that controls the upload process).**
• **The Force Upload process can only be done one target fixture at a time.**

To do a Force Upload, follow the instructions below:

1. Link the target fixture to the main fixture via a DMX 5-pin connection. Ensure that the target fixture is turned off.
2. Turn on the main fixture and set its protocol to **DMX512**.
3. Plug the flash drive into the USB-C port of the main fixture.
4. Go to **Upgrade Firmware** on the menu map.
5. Choose between **Multiple Fixture** and **Other Fixture Type**. Press <**ENTER**>.
   • **Multiple Fixture:** Both the target fixture and main fixture are from the same product line (e.g., 2 onAir IP Panel Min fixtures).
   • **Other Fixture Type:** The target fixture and main fixture are from different product series (e.g., a onAir IP Panel Min as the target fixture and a Maverick Silens 2 Profile as the main fixture).
6. Select the file that needs to be uploaded. The message "**Are you sure?**" will appear on the screen. Press <**ENTER**>. Turn on the target fixture within 1–2 seconds of pressing <**ENTER**>. The display on the target fixture should remain off.
   a. The main fixture will show the update progress (0–100%).
   b. The target fixture's display will turn on, and a notification "**<UPDATE>**" will appear on the screen.

📝 **The timing of when the target fixture's display will turn on varies from fixture to fixture.**

7. **DO NOT** turn off power or remove the USB flash drive. Once the software is done uploading, the target fixture will automatically reboot.
8. Go to the target fixture's main menu and confirm that the firmware version has been updated.
9. Reboot the target fixture.

Accessories

The onAir IP Panel Min has an accessory slot for a filter or a honeycomb (sold separately). The optional barndoor (sold separately) fits neatly over the front of the product.

To install a filter or the honeycomb:

1. Slide the filter or honeycomb into the accessory slot.
2. Loosen the thumbscrew on top of the product and slide the panel out to secure the filter or honeycomb.
3. Tighten the thumbscrew.

To install the barndoor:

1. Place the barndoor frame around the front of the product.
2. Tighten the knob to secure the barndoor in place.
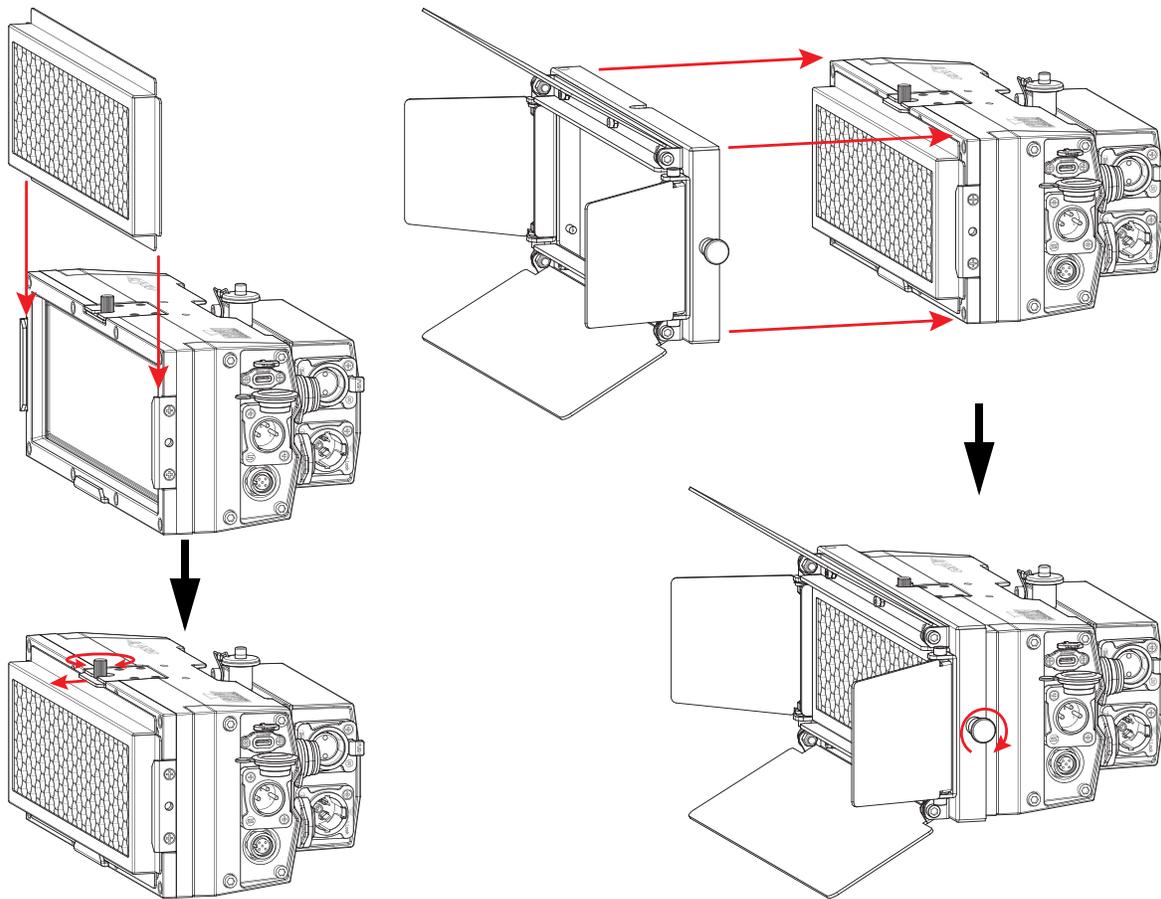
Mounting

Before mounting the product, read and follow the safety recommendations indicated in the Safety Notes. For our 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 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.

Procedure

The onAir IP Panel Min comes with a ball-head mount which is compatible with the included baby pin receiver, surface-mount adapter, and 12 mm clamp bolt adapter. Mounting clamps are sold separately. Make sure the mounting hardware or surface is capable of supporting the weight of this product.

Mounting Diagram

---
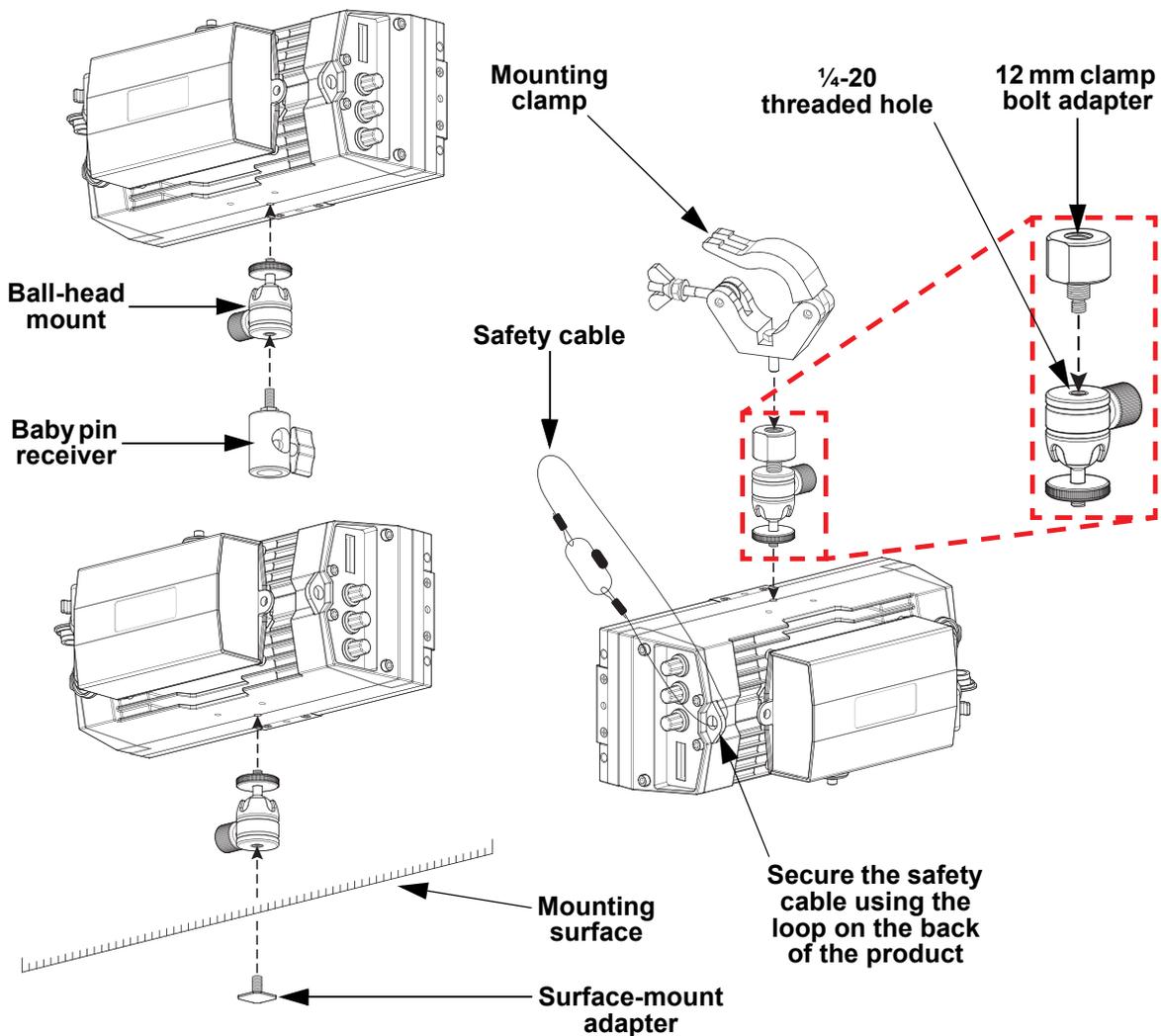
4. Operation

Control Panel Description

Knob	Function
<DIM/INT> **<MENU>**	Turn to increase or decrease the dimmer value in CCT mode and XY control mode, or the intensity in HSV mode
	Press once to access the menu
	Press twice to access On Board Control
	Press and hold to access the home screen
	Press to exit from the current menu or function or cycle through the menu map
<HUE> **<UP/DOWN>**	Increases or decreases the hue value in CCT mode and HSV mode, or the X value in XY Control mode
	Navigates upwards/downwards through the menu list or increases/decreases the numeric value when in a function
<CCT/SAT> **<ENTER>**	Turn to increase or decrease the color temperature in CCT mode, the saturation in HSV mode, or the Y value in XY Control mode
	Press to enable the currently displayed menu or set the currently selected value into the selected function

Control Options

The onAir IP Panel Min has 8 options for control:
- Wired DMX
  - Using the included DMX mini XLR adapter
- Wireless Lumenradio CRMX™
  - With the option to convert wireless input to wired DMX output
- CCT Control
  - Correlated Color Temperature, standalone with the control knobs
- HSV Control
  - Hue, Saturation, Value, standalone with the control knobs
- XY Control
  - Cartesian coordinates X and Y, standalone with the control knobs
- Preset CCTs
  - Preset Correlated Color Control options, standalone through the display menu
- Manual Color Mixer
  - Individual color control to create custom colors, standalone through the display menu
- Effect Macros
  - Automatic programs, standalone through the display menu

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 from the Home Screen, press **<MENU>**.
- To navigate to the desired option in the main menu, press **<MENU>** repeatedly until the option is indicated, or use **<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 **<MENU>** repeatedly until it shows on the display.
- Press and hold **<MENU>** to return to the home screen.

On Board Control

Pressing **<MENU>** twice accesses the On Board Control modes. In an On Board Control mode, the control knobs control the output of the product.

On Board Control Menu

Main Level	Programming Levels			Description
On Board Control	CCT Control	DIM	000–100%	Left knob: dimmer
		HUE	-0.25–+0.25	Middle knob: hue
		CCT	2800–8000K	Right knob: color temperature
	HSV Control	INT	000–255	Left knob: intensity
		HUE		Middle knob: hue
		SAT		Right knob: saturation
	XY Control	DIM	00.0–100%	Left knob controls dimmer
		X	0.00–0.850	Middle knob controls X
		Y		Right knob controls Y
	Effect Macros	Color Chase	Speed <001–100>	Selects effect macro and speed
		Police Car		
		Firetruck		
		Fire		
		Clouds		
		Fireworks		
		Paparazzi		
		Lightning		

Menu Map

Refer to the onAir IP Panel Min product page on www.chauvetprofessional.com for the latest menu map.

Main Menu	Programming Levels				Description
DMX Address	001–512*				Selects DMX address (*Highest channel restricted to personality chosen)
DMX Channel	1Ch	Preset CCTs	Hue	<-25–25>	1-channel: select preset CCT, hue
		Manual Color Mixer	Red	<000–255>	1-channel: combine red, green, blue, and white to make a custom color (0–100%)
			Green	<000–255>	
			Blue	<000–255>	
			White	<000–255>	
	3Ch				3-channel: dimmer, color temperature, hue
	4Ch				4-channel: RGBW
	5Ch				5-channel: 16-bit dimmer, color temperature, hue, strobe
	6Ch				6-channel: dimmer, RGBW, strobe
	8Ch				8-channel: 16-bit RGBW
	10Ch				10-channel: dimmer, 16-bit RGBW, strobe
	11Ch				11-channel: dimmer, RGBW, strobe, color temperature, hue, effect macros and speed, control
	15Ch				15-channel: 16-bit dimmer, 16-bit RGBW, strobe, color temperature, hue, effect macros and speed
	XYBasic(6)				6-channel: 16-bit dimmer, 16-bit X, 16-bit Y
	XYExtended(10)				10-channel: 16-bit dimmer, 16-bit X, 16-bit Y, strobe, effect macros and speed, control

Main Menu	Programming Levels			Description
	CCT Control			Correlated color temperature control
	HSV Control			Hue, saturation, value control
	XY Control			X and Y coordinate control
Static	**Preset CCTs**	2800K		Selects preset color temperature, dimmer and hue
		2900K		
		3000K		
		3100K		
		3200K		
		3300K		
		3400K		
		3500K		
		3600K		
		3700K		
		3800K		
		3900K		
		4000K		
		4100K		
		4200K		
		4300K		
		4400K	**Dimmer**	**<000–255>**
		4500K		
		4600K	**Hue**	**<-25–25>**
		4700K		
		4800K		
		4900K		
		5000K		
		5100K		
		5200K		
		5300K		
		5400K		
		5500K		
		5600K		
		5700K		
		6000K		
		6500K		
		7000K		
		7500K		
		8000K		
	Manual Color	Red	**<000–255>**	Combine red, green, blue, and white to make custom color (0–100%)
		Green		
		Blue		
		White		

Main Menu	Programming Levels			Description
Effect Macros	**Color Chase**	**<001–100>**		Selects effect macro and speed
	Police Car			
	Firetruck			
	Fire			
	Clouds			
	Fireworks			
	Paparazzi			
	Lightning			
Red Shift	**On**			Enables or disables red shift
	Off			
Master/ Slave	**Master**			Standalone mode
	Slave			Slave mode
DMX Loss	**Hold Last**			Holds last signal received
	Stop DMX			Holds output
	Blackout			Blacks out the product
Dimmer Curve	**S Curve**			Sets the dimmer curve
	Linear			
	Square			
	Inverse Square			
Dimmer Mode	**Off**			Instantaneous dimmer
	Dimmer 1–3			Dimmer mode, fast (**1**) to slow (**3**)
Color Calibrate	**Off**			Color calibration off
	User	**Red**	**<125–255>**	Sets maximum red LED value
		Green		Sets maximum green LED value
		Blue		Sets maximum blue LED value
		White		Sets maximum white LED value
	Factory Calibration			Color calibration set by factory
LED Frequency	**600Hz**			Sets the Pulse Width Modulation frequency
	1200Hz			
	2000Hz			
	4000Hz			
	6000Hz			
	25KHz			
Wireless Setting	**Receive On/Off**	**Off**		Enables/disables CRMX™
		On		
	Receive Reset	**No**		Resets wireless receiver
		Yes		
	Wireless to DMX	**No**		Converts wired CRMX™ to wired DMX output
		Yes		
Back Light	**10S**			Times out display after 10 seconds of inactivity
	30S			Times out display after 30 seconds
	2Min			Times out display after 2 minutes
	Always On			Display always on

Main Menu	Programming Levels		Description
Information	**Fixture Hours**	**<_ _ _ _ _H>**	Shows total hours the product has been powered on
	LED Hours	**<_ _ _ _ _H>**	Shows total hours the LEDs have been powered on
	Version	**<V_._ _>**	Shows current firmware version
	UID	**21A40139_ _ _ _**	Shows product UID
Upgrade Firmware	**Only This Unit**	**_ _ _ _ _ _.CHL**	Selects an update file for this product, or shows "**No such file!**"
		...	
	Multiple Units	**_ _ _ _ _ _.CHL**	Selects an update file for this and connected onAir IP Panel Min products, or shows "**No such file!**"
		...	
	Other Fixture Type	**_ _ _ _ _ _.CHL**	Selects an update file for other connected products, or shows "**No such file!**"
		...	
Factory Reset	**No**		Resets the product to factory default settings
	Yes		

ⓘ **The "Other Fixture Type" option under Upgrade Firmware can only be selected for connected products compatible with the Upload 03 (the first 2 digits of the item code must be 03).**

Home Screen

The home screen of the onAir IP Panel Min shows the current settings and status of the product. To see the home screen, press and hold **<MENU>** until it shows on the display. From the home screen, press **<MENU>** to access the menu.

1 ⟶ 26 °C   ⫶⫲⫸ ⟵ 2

3 ⟶ No Signal
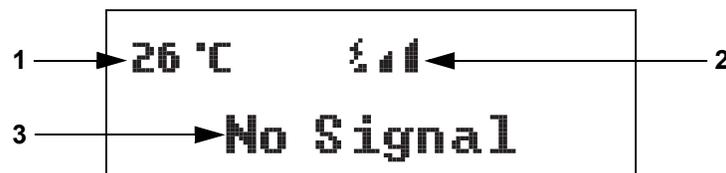
Number	Description
1	Current product temperature
2	Current wireless signal status
3	Bottom line shows details of the current control mode

Example Home Screens

DIM   HUE   CCT
00.0%   0.00 5600K

INT   HUE   SAT
510   000   060

Effects   Speed
Color Chase 060

DMX Configuration

Use control 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, from **1Ch**, **3Ch**, **4Ch**, **5Ch**, **6Ch**, **8Ch**, **10Ch**, **11Ch**, **15Ch**, **XYBasic(6)**, or **XYExtended(10)**.

> • See the Starting Address section for the highest starting address available 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**−**512**).

Personality	Highest Address	Products per Universe
1Ch	512	512
3Ch	510	170
4Ch	509	128
5Ch	508	102
6Ch	507	85
8Ch	505	64
10Ch	503	51
11Ch	502	46
15Ch	498	34
XYBasic(6)	507	85
XYExtended(10)	503	51

Control Channel Assignments and Values

XYExtended(10) / XYBasic(6)

XY Basic (6)	XY Extended (10)	Function	Value	Percent/Setting
1	1	**Dimmer**	000 ⇔ 255	0–100%
2	2	**Fine dimmer**	000 ⇔ 255	0–100%
3	3	**X coordinate**	000 ⇔ 255	0–100%
4	4	**Fine X coordinate**	000 ⇔ 255	0–100%
5	5	**Y coordinate**	000 ⇔ 255	0–100%
6	6	**Fine Y coordinate**	000 ⇔ 255	0–100%
–	7	**Strobe**	000 ⇔ 010	No function
			011 ⇔ 255	Strobe, slow to fast
–	8	**Effect macros**	000 ⇔ 010	No function
			011 ⇔ 039	Color chase
			040 ⇔ 068	Police car
			069 ⇔ 096	Firetruck
			097 ⇔ 125	Fire
			126 ⇔ 154	Clouds
			155 ⇔ 182	Fireworks
			183 ⇔ 211	Paparazzi
			212 ⇔ 240	Lightning
			241 ⇔ 255	No function
–	9	**Effect macro speed**	000 ⇔ 255	Speed, slow to fast
–	10	**Control**	000 ⇔ 255	See the Control Chart

15Ch / 11Ch / 10Ch / 8Ch / 6Ch / 5Ch

5Ch	6Ch	8Ch	10Ch	11Ch	15Ch	Function	Value	Percent/Setting
1	1	–	1	1	1	**Dimmer**	000 ⇔ 255	0–100%
2	–	–	–	–	2	**Fine dimmer**	000 ⇔ 255	0–100%
–	2	1	2	2	3	**Red**	000 ⇔ 255	0–100%
–	–	2	3	–	4	**Fine red**	000 ⇔ 255	0–100%
–	3	3	4	3	5	**Green**	000 ⇔ 255	0–100%
–	–	4	5	–	6	**Fine green**	000 ⇔ 255	0–100%
–	4	5	6	4	7	**Blue**	000 ⇔ 255	0–100%
–		6	7	–	8	**Fine blue**	000 ⇔ 255	0–100%
–	5	7	8	5	9	**White**	000 ⇔ 255	0–100%
–	–	8	9	–	10	**Fine white**	000 ⇔ 255	0–100%
5	6	–	10	6	11	**Strobe**	000 ⇔ 010	No function
							011 ⇔ 255	Strobe, slow to fast
3	–	–	–	7	12	**Color temperature**	000 ⇔ 255	See the Color Temperature Chart
4	–	–	–	8	13	**Hue**	000 ⇔ 001	0
							002 ⇔ 255	-25–+25
–	–	–	–	9	14	**Effect macros**	000 ⇔ 010	No function
							011 ⇔ 039	Color chase
							040 ⇔ 068	Police car
							069 ⇔ 096	Firetruck
							097 ⇔ 125	Fire
							126 ⇔ 154	Clouds
							155 ⇔ 182	Fireworks
							183 ⇔ 211	Paparazzi
							212 ⇔ 240	Lightning
							241 ⇔ 255	No function
–	–	–	–	10	15	**Effect macro speed**	000 ⇔ 255	Speed, slow to fast
–	–	–	–	11	–	**Control**	000 ⇔ 255	See the Control Chart

4Ch

Channel	Function	Value	Percent/Setting
1	**Red**	000 ⇔ 255	0–100%
2	**Green**	000 ⇔ 255	0–100%
3	**Blue**	000 ⇔ 255	0–100%
4	**White**	000 ⇔ 255	0–100%

3Ch

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ⇔ 255	0–100%
2	**Color temperature**	000 ⇔ 255	See the Color Temperature Chart
3	**Hue**	000 ⇔ 001	0
		002 ⇔ 255	-25–+25

1Ch

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ⇔ 255	0–100% (color set through display menu)

Control Chart

Value	Percent/Setting	Value	Percent/Setting
000 ⇔ 007	No function	056 ⇔ 063	Inverse square dimmer
008 ⇔ 015	Reset all	064 ⇔ 071	Dimmer mode off
016 ⇔ 023	Red shift on	072 ⇔ 079	Dimmer mode 1 (fast)
024 ⇔ 031	Red shift off	080 ⇔ 087	Dimmer mode 2
032 ⇔ 039	S-curve dimmer	088 ⇔ 095	Dimmer mode 3 (slow)
040 ⇔ 047	Linear dimmer	096 ⇔ 255	Reserved for future use
048 ⇔ 055	Square dimmer		

Color Temperature Chart

Value	Percent/Setting	Value	Percent/Setting
000 ⇔ 005	No function	125 ⇔ 131	4500K
006 ⇔ 012	2800K	132 ⇔ 138	4600K
013 ⇔ 019	2900K	139 ⇔ 145	4700K
020 ⇔ 026	3000K	146 ⇔ 152	4800K
027 ⇔ 033	3100K	153 ⇔ 159	4900K
034 ⇔ 040	3200K	160 ⇔ 166	5000K
041 ⇔ 047	3300K	167 ⇔ 173	5100K
048 ⇔ 054	3400K	174 ⇔ 180	5200K
055 ⇔ 061	3500K	181 ⇔ 187	5300K
062 ⇔ 068	3600K	188 ⇔ 194	5400K
069 ⇔ 075	3700K	195 ⇔ 201	5500K
076 ⇔ 082	3800K	202 ⇔ 208	5600K
083 ⇔ 089	3900K	209 ⇔ 215	5700K
090 ⇔ 096	4000K	216 ⇔ 222	6000K
097 ⇔ 103	4100K	223 ⇔ 229	6500K
104 ⇔ 110	4200K	230 ⇔ 236	7000K
111 ⇔ 117	4300K	237 ⇔ 243	7500K
118 ⇔ 124	4400K	244 ⇔ 255	8000K

Standalone Configuration

In a standalone mode, the onAir IP Panel Min can be controlled through the display menu, the control knobs, and/or the preset buttons.

CCT Control

In CCT Control mode, the control knobs have the following functions:
- **<DIM/INT>**: Increase or decrease the dimmer value, from **00.0–100%**.
- **<HUE>**: Increase or decrease the green level, from **-0.25–0.25**.
- **<CCT/SAT>**: Increase or decrease the correlated color temperature, from **2800–8000K**.

To set the product to CCT Control mode, press one of the preset buttons, or:
1. Go to the **Static** main level.
2. Select the **CCT Control** option.

HSV Control

In HSV Control mode, the control knobs have the following functions:
- **<DIM/INT>**: Increase or decrease the dimmer value, from **000–255**.
- **<HUE>**: Increase or decrease the hue value, from **000–255**.
- **<CCT/SAT>**: Increase or decrease the saturation, from **000–255**.

To set the product to HSV Control mode:
1. Go to the **Static** main level.
2. Select the **HSV Control** option.

XY Control

In HSV Control mode, the control knobs have the following functions:
- **<DIM/INT>**: Increase or decrease the dimmer value, from **00.0–100%**.
- **<HUE>**: Increase or decrease the X coordinate value, from **0.00–0.850**.
- **<CCT/SAT>**: Increase or decrease the Y coordinate value, from **0.00–0.850**.

To set the product to HSV Control mode:
1. Go to the **Static** main level.
2. Select the **XY Control** option.

Preset CCTs

To set the onAir IP Panel Min to a preset correlated color temperature through the display menu:
1. Go to the **Static** main level.
2. Select the **Preset CCTs** option.
3. Select the preset correlated color temperature, from **2800K**, **2900K**, **3000K**, **3100K**, **3200K**, **3300K**, **3400K**, **3500K**, **3600K**, **3700K**, **3800K**, **3900K**, **4000K**, **4100K**, **4200K**, **4300K**, **4400K**, **4500K**, **4600K**, **4700K**, **4800K**, **4900K**, **5000K**, **5100K**, **5200K**, **5300K**, **5400K**, **5500K**, **5600K**, **5700K**, **6000K**, **6500K**, **7000K**, **7500K**, or **8000K**.
4. Set the **Dimmer** from **000–255**.
5. Set the **Hue** from **-25–25**.

Manual Color Mixer

To mix a custom static color through the display menu of the onAir IP Panel Min:
1. Go to the **Static** main level.
2. Select the **Manual Color Mixer** option.
3. Select the color value to edit, from **Red**, **Green**, **Blue**, and **White**.
4. Set the selected color value from **000–255**.
5. Repeat until the color is set as desired.

Effect Macros

The onAir IP Panel Min features 8 effect macros which simulate lighting effects.
1. Go to the **Effect Macros** main level.
2. Select the effect macro, from **Color Chase**, **Police Car**, **Firetruck**, **Fire**, **Clouds**, **Fireworks**, **Paparazzi**, or **Lightning**.
3. Set the speed from **001–100**.

Settings Configuration

Red Shift

With red shift enabled, the color temperature will warm as the dimmer decreases in imitation of a lamp. To enable or disable the red shift function:
1. Go to the **Red Shift** main level.
2. Select from **On** or **Off**.

Master/Slave

To set the onAir IP Panel Min product to master or slave mode:
1. Go to the **Master/Slave** main level.
2. Select from **Master** (sends control signal) or **Slave** (receives control signal).

> • **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.**

DMX Loss

To set the way in which the product will respond to the loss of a DMX signal:
1. Go to the **DMX Loss** main level.
2. Select from
   • **Hold Last** (maintain and send the last DMX values received),
   • **Stop DMX** (maintain the last DMX values received without sending), or
   • **Blackout** (set all channels to 000).

Dimmer Curve

To set the dimmer curve:
1. Go to the **Red Shift** main level.
2. Select from **S Curve**, **Linear**, **Square**, or **Inverse Square**.

Dimmer Speed Mode

To set the dimmer speed:
1. Go to the **Dimmer Mode** main level.
2. Select the dimmer speed mode from **Off** (instant), **Dimmer 1** (fastest), **Dimmer 2**, or **Dimmer 3** (slowest).

Color Calibration

To configure the color calibration:
1. Go to the **Color Calibration** main level.
2. Select from **Off**, **User**, or **Factory Calibration**.
3. If **User**, select the maximum color value to edit, from **Red**, **Green**, **Blue**, or **White**.
4. Set the maximum level for the selected color, from **125–255**.
5. Repeat until the colors are calibrated as desired.

Pulse Width Modulation

To set the frequency of the pulse width modulation:
1. Go to the **LED Frequency** main level.
2. Select the PWM frequency, from **600Hz**, **1200Hz**, **2000Hz**, **4000Hz**, **6000Hz**, or **25KHz**.

Wireless Lumenradio CRMX™ Settings

Toggle CRMX™

To enable or disable wireless CRMX™ control:
1. Go to the **Wireless Setting** main level.
2. Select the **Receive Off/On** option.
3. Select from **Off** (disabled) or **On** (enabled).

Receiver Reset

To reset the CRMX™ receiver:
1. Go to the **Wireless Setting** main level.
2. Select the **Receive Reset** option.
3. Select from **No** (do not reset) or **Yes** (reset).

Wireless to DMX

The onAir IP Panel Min can convert wireless CRMX™ to wired DMX output. To enable or disable this function:

1. Go to the **Wireless Setting** main level.
2. Select the **Wireless To DMX** option.
3. Select from **No** (do not convert) or **Yes** (convert).

Fan Mode

To set the fan mode:

1. Go to the **Fan Mode** main level.
2. Select the fan mode, from **Auto** (adjusts to product temperature), **On** (always on), **Off** (always off), or **Silent** (silent mode).

Display Backlight

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

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

Information

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

Factory Reset

To reset the product to factory default settings:

1. Go to the **Factory Reset** main level.
2. Select **No** (do not reset) or **Yes** (reset).

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 all 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

Power Supply (PSU)	Length	Width	Height	Weight
With	10 in (254 mm)	5.62 in (143 mm)	4.29 in (109 mm)	6.2 lb (2.9 kg)
Without	10 in (254 mm)	4.13 in (105 mm)	4.29 in (109 mm)	4.2 lb (2.0 kg)

Note: Dimensions in inches are rounded.

Power

Power Supply Type	Range	Voltage Selection
Switching (external)	100 to 240 VAC, 50/60 Hz	Auto-ranging
Battery	28 VDC, 50 W	Fixed

Parameter	100 V, 60 Hz	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz	240 V, 50 Hz
Consumption	48 W	47 W	51 W	51 W	51 W
Operating current	0.470 A	0.393 A	0.253 A	0.217 A	0.213 A

Power I/O	U.S./Worldwide	UK/Europe
Power Input connector (PSU)	Seetronic Powerkon IP65	Seetronic Powerkon IP65
Power output connector (PSU)	3-pin IP65 XLR (28 VDC)	3-pin IP65 XLR (28 VDC)
Power input connector (Min)	3-pin IP65 XLR (28 VDC)	3-pin IP65 XLR (28 VDC)
Power cord plug	Edison (U.S.)	Local Plug

Light Source

Type	Color	Quantity	Power	Current	Lifespan
LED	Tri-color RGB	40	1.4 W	150 mA	50,000 hours
LED	Warm white	40	0.50 W	150 mA	50,000 hours

Photometrics

Color Temperature (Range)	Color Temperature (At Full)	Beam Angle	Field Angle	Illuminance @ 5 m
2800 to 8000 K	6367 K	94.9°	149.4°	47 lux

Thermal

Startup Temperature Range	Operating Temperature Range	Cooling System
-4 °F–113 °F (-20 °C–45 °C)	-22 °F–113 °F (-30 °C–45 °C)	Convection

DMX

I/O Connector	Channel Range
Mini 5-pin XLR	1, 3, 4, 5, 6, 8, 10, 11, 15

Ordering

Product Name	Item Name	Item Code	UPC Number
onAir IP Panel Min	ONAIRPANELMINIP	03131792	781462221409

RoHS

ART NET ETHERNET   DMX RDM   MET ® c us   UL 1573 CSA C22.2 No. 166 E113093   FC   UK CA   C E

Contact Us

General Information	Technical Support
Chauvet World Headquarters	
Address: 3360 Davie Rd.	Voice: (844) 393-7575
Davie, FL 33314	Fax: (954) 756-8015
Voice: (954) 577-4455	Email: chauvetcs@chauvetlighting.com
Fax: (954) 929-5560	
Toll Free: (800) 762-1084	Website: www.chauvetprofessional.com
Chauvet U.K.	
Address: Pod 1 EVO Park	Email: UKtech@chauvetlighting.eu
Little Oak Drive, Sherwood Park	
Nottinghamshire, NG15 0EB	Website: www.chauvetprofessional.eu
UK	
Voice: +44 (0) 1773 511115	
Fax: +44 (0) 1773 511110	
Chauvet Benelux	
Address: Stokstraat 18	Email: BNLtech@chauvetlighting.eu
9770 Kruishoutem	
Belgium	Website: www.chauvetprofessional.eu
Voice: +32 9 388 93 97	
Chauvet France	
Address: 3, Rue Ampère	Email: FRtech@chauvetlighting.fr
91380 Chilly-Mazarin	
France	Website: www.chauvetprofessional.eu
Voice: +33 1 78 85 33 59	
Chauvet Germany	
Address: Bruno-Bürgel-Str. 11	Email: DEtech@chauvetlighting.de
28759 Bremen	
Germany	Website: www.chauvetprofessional.eu
Voice: +49 421 62 60 20	
Chauvet Mexico	
Address: Av. de las Partidas 34 - 3B	Email: servicio@chauvet.com.mx
(Entrance by Calle 2)	

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