

onAir

FLEX 12

User Manual



Model ID: ONAIRFLEX12

CHAUVENT
PROFESSIONAL

Edition Notes

The onAir Flex 12 User Manual includes a description, safety precautions, installation, programming, operation and maintenance instructions for the onAir Flex 12 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

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

Revision	Date	Description
2	01/2026	Corrected threaded mounting hole size.

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1. Before You Begin

What Is Included

- onAir Flex 12
- 6 cm Phoenix cable
- 12 cm Phoenix cable
- 2 blank connectors
- Light filter
- Heavy filter
- 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 the 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.

Before You Begin

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.

- **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.
 - 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 (adhere to standards for the published IP rating).
 - 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.
- 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.

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.

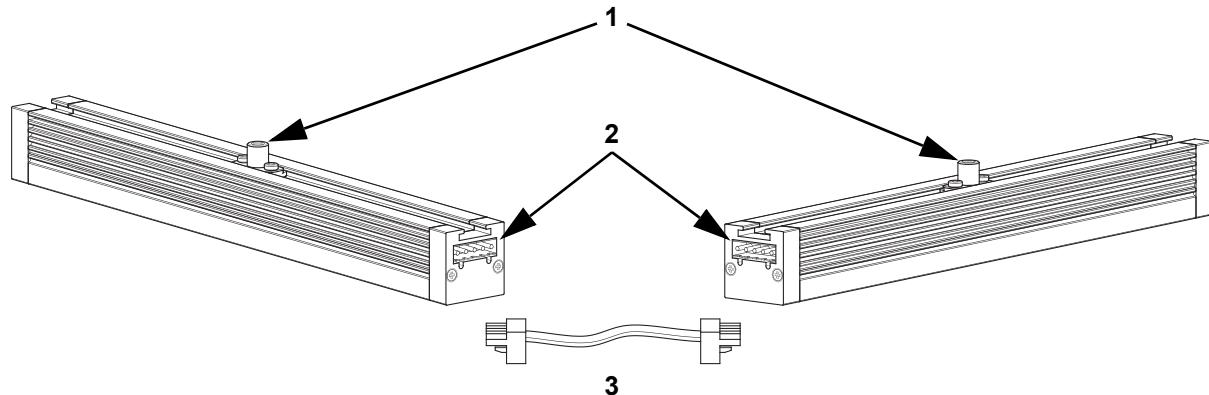
Introduction

2. Introduction

Features

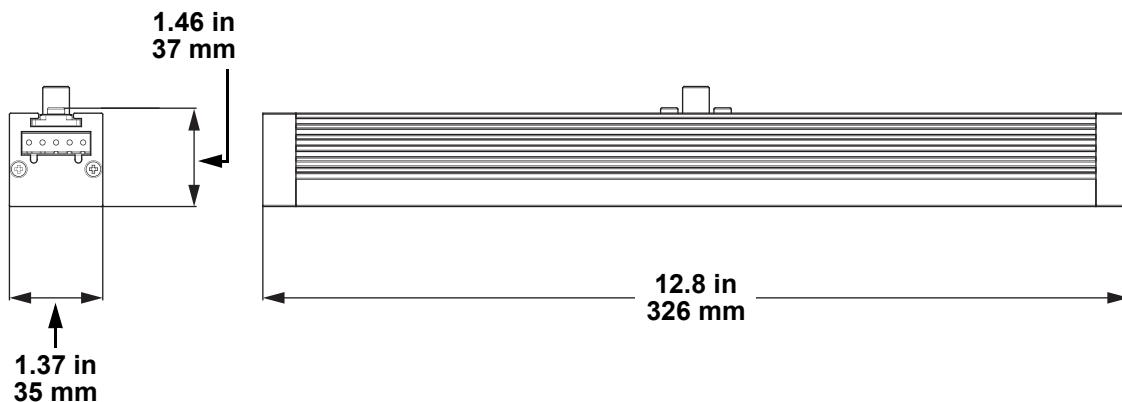
- Full spectrum LED soft catch light for short throw studio applications
- High quality white light and color
- Adjustable PWM (Pulse Width Modulation) to avoid flickering on camera via onAir Flex Drive
- Completely silent operation for use in studio applications
- Ultra-smooth 16-bit dimming curves and speeds to complement any lighting scheme via onAir Flex Drive

Product Overview



#	Name
1	Adjustable 1/4-20 UNC threaded insert
2	Phoenix power/data in/out
3	Phoenix cable with connector installed

Product Dimensions



3. Setup

DC Power

This product is powered and controlled by the onAir Flex Drive 2 with an input voltage of 24 VDC. Download the User Manual for the onAir Flex Drive 2 from www.chauvetprofessional.com for more details.



Always connect the onAir Flex Drive 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.



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.

Power Linking

It is possible to link up to 6 onAir Flex 12 products from each output of the onAir Flex Drive 2.

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://www.trusst.com/products>.

Orientation

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

Rigging

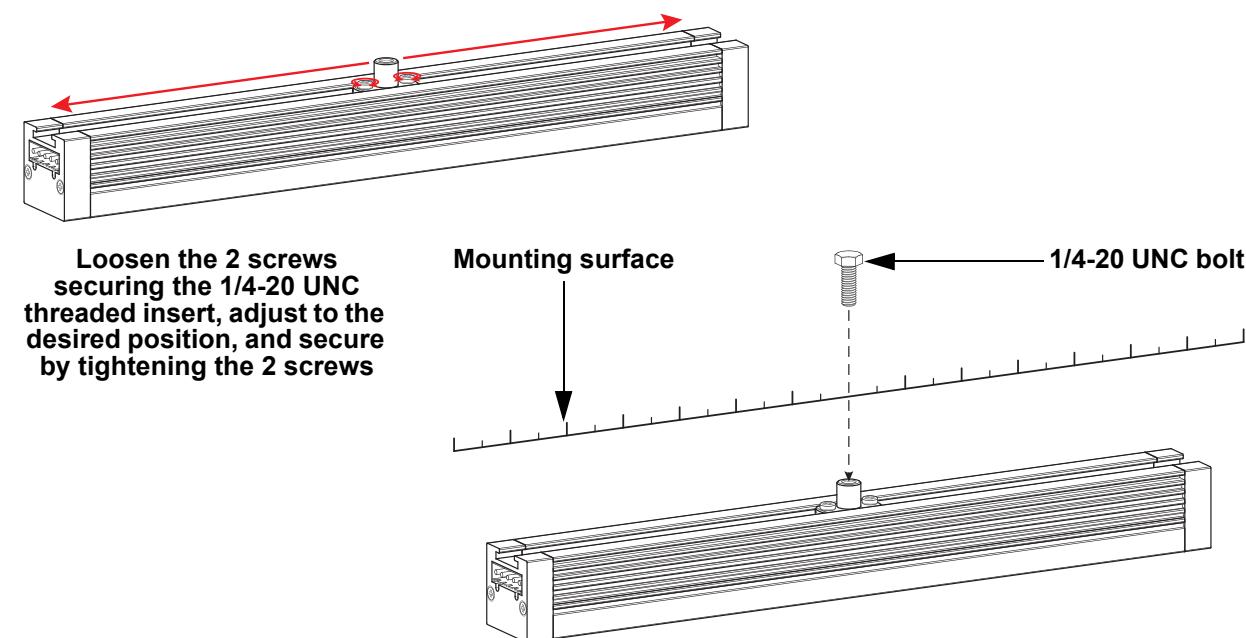
Chauvet recommends using the following general guidelines when mounting this product.

- 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 can support the weight before hanging the product. See the [Technical Specifications](#) for weight information.
- 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 Flex 12 features an adjustable M6 threaded insert to which it is possible to attach a 1/4-20 UNC bolt or clamp. Make sure the mounting surface and hardware 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



4. Operation

Color Temperature Chart

When operating this product via DMX and the onAir Flex Drive 2, use the values in the following chart to achieve the standard color temperatures listed.

Color Temperature	Red Value	Green Value	Blue Value	White Value
2800K	103	049	000	245
3000K	102	069	000	255
3200K	095	085	002	255
3400K	071	089	004	255
3600K	058	089	008	255
3800K	051	093	016	254
4000K	051	093	030	255
4500K	049	124	039	255
4800K	049	136	047	255
5000K	049	146	053	255
5500K	036	165	061	255
6000K	036	180	075	255
6500K	033	189	086	255
7000K	029	192	095	255
7500K	026	200	104	255
8000K	022	194	111	255
10000K	026	229	143	254

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.

Technical Specifications

6. Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
12.8 in (299.7 mm)	1.37 in (35 mm)	1.46 in (37 mm)	0.975 lb (0.442 kg)

Note: Dimensions in inches are rounded.

Power

Power Supply Type	Input Voltage	Voltage Selection	Power Linking
onAir Flex Drive 2	24 VDC	Fixed	6 products per port 12 products per onAir Flex Drive 2

Parameter	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz
Consumption	26 W	24 W	24 W
Operating Current	0.28 A	0.31 A	0.29 A
Power I/O		U.S./Worldwide	UK/Europe
Power Input Connector	5-pin Phoenix connector		5-pin Phoenix connector
Power Output Connector	5-pin Phoenix connector		5-pin Phoenix connector
Power Cable plug	Bare wire		Bare wire

Light Source

Type	Color	Quantity	Power	Current	Lifespan
LED	Tri-color RGB	12	1.5 W	150 mA	50,000 hours
LED	White	12	0.36 W	150 mA	50,000 hours

Photometrics

Color Temperature Range	Color Temperature At Full	CRI		
2800 to 10000 K	9190 K	96		
Filter	Beam Angle	Field Angle	Lumens	Illuminance @ 5 m
Light	111° x 62°	149.8° x 126.3°	810	16 lux
Medium (installed)	96.1° x 64.3°	148.8° x 123.8°	765	17 lux
Heavy	93.3° x 72.2°	151.7° x 136°	734	15 lux

Thermal

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

DMX

I/O Connector	Channel Range
5-pin Phoenix	8 or 10

Ordering

Product Name	Item Name	Item Code	UPC Number
onAir Flex 12	ONAIRFLEX12	99132015	781462223632

RoHS



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.