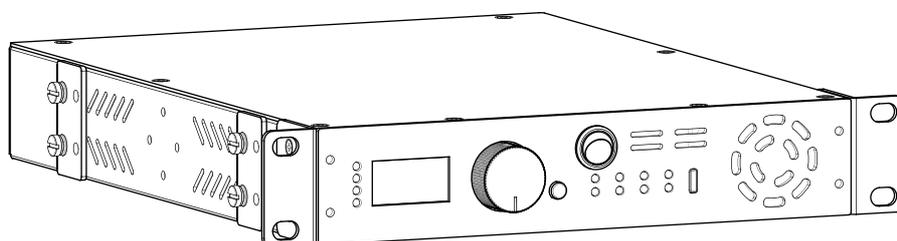# onAir

FLEX DRIVE 2
Quick Reference Guide

CHAUVET
PROFESSIONAL

About This Guide

The onAir Flex Drive 2 Quick Reference Guide (QRG) has basic product information such as connection and menu options. Download the User Manual from www.chauvetvideo.com for more details.

Disclaimer

The information and specifications contained in this QRG are subject to change without notice.

LIMITED WARRANTY

FOR WARRANTY REGISTRATION AND COMPLETE TERMS AND CONDITIONS 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.

Chauvet warrants that this product shall be free from defects in material and workmanship under normal use, for the period specified in, and subject to the exclusions and limitations set forth in the full limited warranty on our website. This warranty extends only to the original purchaser of the product and is not transferable. To exercise rights under this warranty, you must provide proof of purchase in the form of an original sales receipt from an authorized dealer that shows the product name and date of purchase. THERE ARE NO OTHER EXPRESS OR IMPLIED WARRANTIES. This warranty gives you specific legal rights. You may also have other rights that vary from state to state and country to country. This warranty is valid only in the United States, United Kingdom, Republic of Ireland, Belgium, the Netherlands, Luxembourg, France, Germany and Mexico. For warranty terms in other countries, please consult your local distributor.

Safety Notes

These Safety Notes include important information about installation, use, and maintenance.

- DO NOT open this product. It contains no user-serviceable parts.
- 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.
- CAUTION: When transferring 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 product to fully acclimate to the surrounding environment before connecting it to power.
- CAUTION: This product's housing may be hot when lights are operating.
- DO NOT leave any flammable material within 50 cm of this product while operating or connected to power.
- USE a safety cable when mounting this product overhead.
- DO NOT operate this product outdoors or in any location where dust, excessive heat, water, or humidity may affect it. (IP20)
- DO NOT operate this product if the housing, lenses, or cables appear damaged.
- DO NOT connect this product to a dimmer or rheostat.
- ONLY connect this product to a grounded and protected circuit.
- ONLY use the hanging/mounting bracket or the handles to carry this product.
- In the event of a serious operating problem, stop using immediately.
- The maximum ambient temperature is 113 °F (45 °C). Do not operate this product at higher temperatures.

FCC Compliance

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

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

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

Contact

Outside the U.S., United Kingdom, Ireland, Benelux, France, Germany, or Mexico, contact your distributor to request support or return a product. Refer to Contact Us at the end of this QRG for contact information.

What is Included

- onAir Flex Drive 2
- 1 long rack ear and 2 short rack ears
- Neutrik® powerCON® TRUE1 power cord
- Quick Reference Guide

AC Power

This product has an auto-ranging power supply that can work with an input voltage range of 100–240 VAC, 50/60 Hz.

AC Plug

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

⚠ **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.**

Power Linking

You can link up to 7 onAir Flex Drive 2 products at 100 V, 8 products at 120 V, 13 products at 208 V, 14 products at 230 V, or 15 products at 240 V. Never exceed this number. Power linking cords can be purchased separately.

DMX Connection

The onAir Flex Drive 2 will work with a DMX controller using a 5-pin DMX data connection. A DMX Primer is available from www.chauvetprofessional.com.

RDM (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 Flex Drive 2 supports RDM protocol that allows feedback to make changes to menu map options. Download the User Manual from www.chauvetprofessional.com for more details.

Product Front Overview

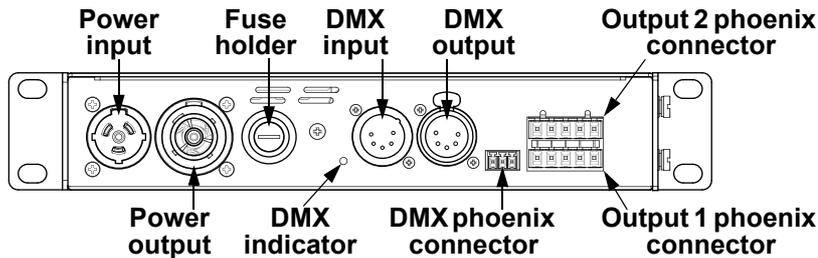LCD display   Power switch

1   2   3   4   5
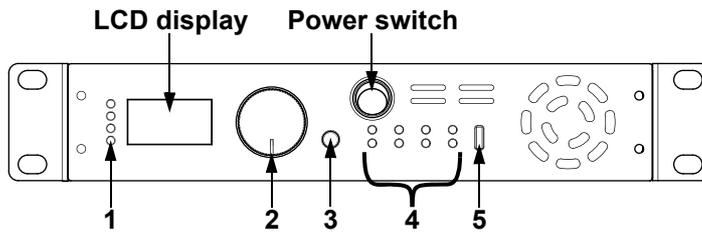
Control Panel Description

#	Name	Function
1	Product Indicators	POWER: Indicates power input DMX: Indicates DMX input Fault1: Indicates error in output 1 Fault2: Indicates error in output 2
2	Control Knob	Rotate to navigate upwards or downwards through the menu list, and increase or decrease a selected numeric value. Push to enable the currently displayed menu option or set the currently selected value into the selected function.
3	Back Button	Exits the current menu or function
4	Output Indicators	Indicates activity of output signals, RGBW 2 and 1
5	USB Port	USB Type C port for firmware updates

Product Rear Overview

Power input   Fuse holder   DMX input   DMX output   Output 2 phoenix connector

Power output   DMX indicator   DMX phoenix connector   Output 1 phoenix connector

Phoenix Connector Pin-Out

Name	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5
DMX	Ground	Data negative	Data positive		
Output 1	Red signal	Green signal	Blue signal	White signal	24 V DC output
Output 2					

Product Capacity

The onAir Flex Drive 2 can support up to 600 quad-color LEDs per output, or up to 1200 quad-color LEDs total.

Mounting

The onAir Flex Drive 2 comes with 1 long rack ear and 2 short rack ears for mounting 1 or 2 products in a standard 19" rack or for mounting on a wall or other surface. Make sure the mounting surface and hardware are capable of supporting the weight of the product.

Rack ear front position screw placements

2 products in a rack

1 product in a rack

Wall or surface mounting, top of product

Rack ear side position screw placements

Wall or surface mounting, bottom of product
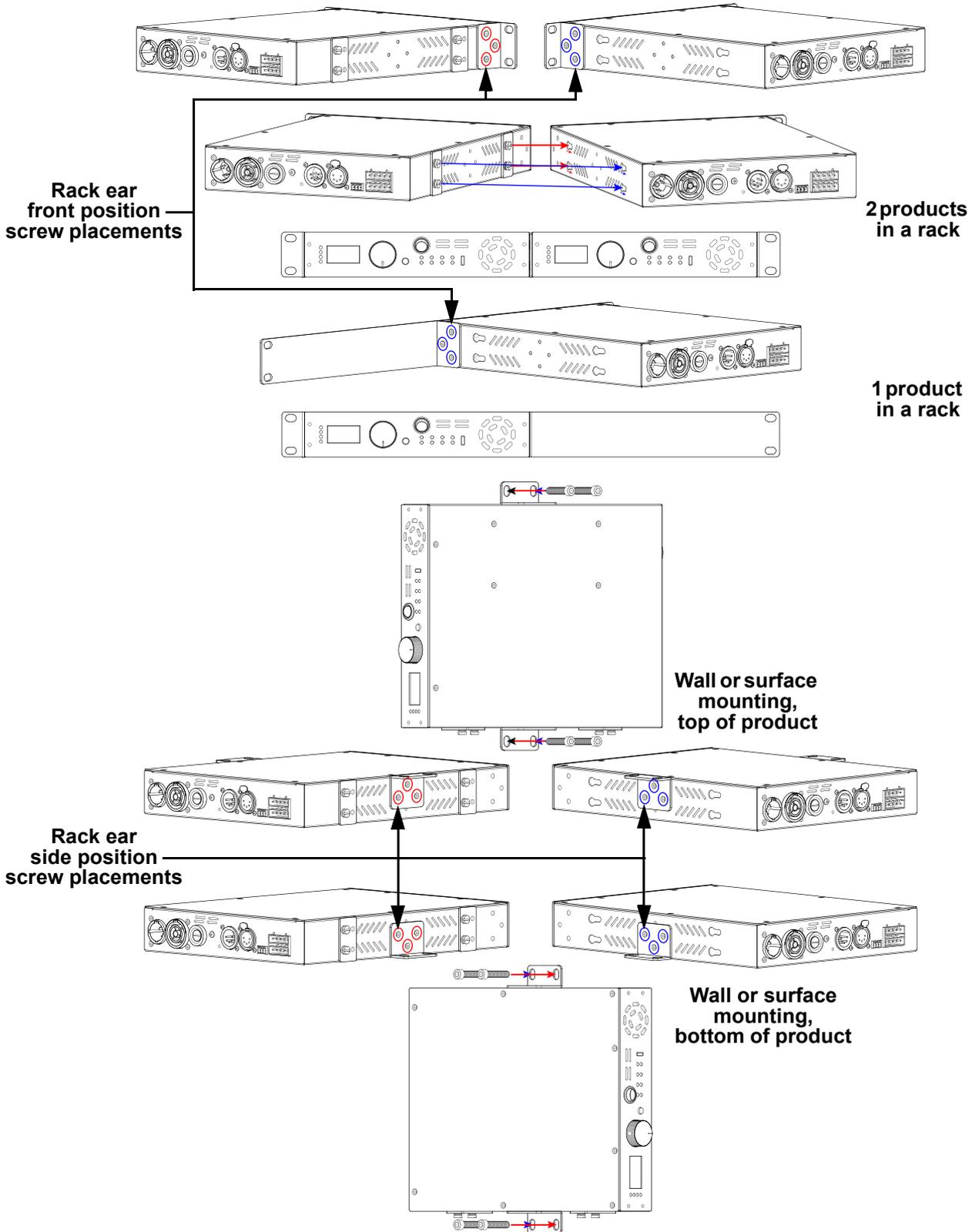
Menu Map

Refer to the onAir Flex Drive 2 product page on www.chauvetvideo.com for the latest menu map.

Main Level	Programming Levels					Description
Address	**Address All**	001–512				Sets all addresses in sequence
	Address Sub1	001–512				Sets Output 1 addresses in sequence
	Address Sub2	001–512				Sets Output 2 addresses in sequence
	Address Sep		R	G	B	W	Sets a separate address for each output, from **001–512** (**8CH–RGBWx2** only)
		1	_ _ _	_ _ _	_ _ _	_ _ _	
		2	_ _ _	_ _ _	_ _ _	_ _ _	
DMX Person	**8CH–RGBWx2**					8-channel mode: RGBW control for each output
	10CH–RGBW+Dx2					10-channel mode: RGBW control and dimmer for each output
Test	**Red**					Tests Red 1 and Red 2 at 255
	Green					Tests Green 1 and Green 2 at 255
	Blue					Tests Blue 1 and Blue 2 at 255
	White					Tests White 1 and White 2 at 255
	FullOn					Tests each output at 255
	Manual		R	G	B	W	Tests each output manually, from **000–255**
		1	_ _ _	_ _ _	_ _ _	_ _ _	
		2	_ _ _	_ _ _	_ _ _	_ _ _	
Setting	**Factory Reset**	Yes				Resets the product to factory default settings
		No				
	Information	UID: _ _ _ _ _ _ _ _ _ _ _ _				Displays the product UID
		Version _-_ _				Displays the current firmware version
		Temp: _ _ _ _ _ _				Displays the current temperatures in °C
		Runtime: _ _ _H				Displays the runtime of the product
	PWM Frequency	500–2500Hz				Sets the pulse width modulation frequency
	FAN Speed	Level 0–20				Sets the fan speed from **0** (off) to **20** (maximum)
	Backlight	Always ON				Display backlight always on
		60 Seconds				Display backlight turns off after 60 seconds of inactivity
		30 Seconds				Display backlight turns off after 30 seconds of inactivity
	Dimming Curve	off				Linear dimming
		Dim1				Fast dimming
		Dim2				Medium dimming
		Dim3				Slow dimming

DMX Values
10CH–RGBW+Dx2
Address All

Channel	Function	Value	Percent/Setting
1	Red 1	000 ⇔ 255	0–100%
2	Green 1	000 ⇔ 255	0–100%
3	Blue 1	000 ⇔ 255	0–100%
4	White 1	000 ⇔ 255	0–100%
5	Dimmer 1	000 ⇔ 255	0–100%
6	Red 2	000 ⇔ 255	0–100%
7	Green 2	000 ⇔ 255	0–100%
8	Blue 2	000 ⇔ 255	0–100%
9	White 2	000 ⇔ 255	0–100%
10	Dimmer 2	000 ⇔ 255	0–100%

Address Sub1 or Sub2

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

8CH–RGBWx2
Address All

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

Address Sub1 or Sub2

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

Contact Us

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Visit the applicable website above to verify our contact information and instructions to request support. Outside the U.S., U.K., Ireland, Mexico, France, Germany, or Benelux, contact the dealer of record.

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