AcueLighting®

PROFESSIONAL STAGE LIGHTING

FLEX 740 IP

USER MANUAL

1. INTRODUCTION

Thank you for choosing the Acue Lighting Flex 740 IP. To use this product correctly and safely, please read the instructions carefully before installing and using this product. This manual contains important installation and operation information. Make sure to strictly follow the instructions when installing and operating this product. Retain this manual in a safe place for future reference.

The Flex 740 IP uses a high-temperature & moisture resistant Aluminum body giving it an IP rating of 65. IP65 is a classification given to devices that are dust, water, and moisture resistant. This product is designed and produced in strict accordance with CE standards and conforms to the international standard of DMX512 signal protocol. It can be controlled manually from the display or by DMX using the built in 3-pin IP65 rated XLR in/out connectors. This fixture has multiple DMX channel modes to choose from. It is suitable for various types of indoor or outdoor concerts, indoor/outdoor events, indoor/outdoor installations, and other like environments.

2. SAFETY INSTRUCTIONS

● Please keep this User Manual for future reference. All users of this fixture must read the user manual thoroughly.

● Unpack and check contents carefully to make sure there is no damage caused by shipping before using the unit.

● Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.

● It's important to properly ground the fixture to avoid electric shock.

● The unit is designed for indoor or outdoor use. It is alright to leave outdoors in rain or sun but do not submerse in water or block ventilation fans. Do not point fixture directly into sunlight. Make sure main power connector is connected to an outlet that is not near water or moisture. Even though the fixture is IP65 rated, the main power connections are not.

● The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.

● Disconnect main power before moving fixture.

● Make sure there are no flammable materials close to the unit while operating, as it is fire hazard.

● Use safety cable when mounting this unit.

● Do not connect this product to other dimmers.

● Maximum ambient operating temperature is 40°C. Do not operate if the temperature is higher than this.

● Unit surface temperature may reach up to 85°C. Do not touch the housing bare-handed during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.

● In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled individuals can lead to further damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type of parts.

3. Maintenance and Installation

3.1   Maintenance

● To reduce the risk of electrical shock or fire, do not expose the power cable connector of this unit to rain or moisture.

● Intermittent usage will extend this fixtures service life.

● Please clear the fan, fan net, and optical lens of any dust or obstructions in order to keep the fixture in a proper working state.

● Do not use alcohol or any other organic solvent to wipe the shell.

3.2   Statement

All fixtures have been tested thoroughly before leaving the factory. In order to keep the product in good condition and ensure safe operation, users should follow the safety precautions and warnings in this manual.

Important: **Damages caused by not following the guidelines in this user manual are not covered under warranty. The manufacturer is not responsible for product issues caused by misuse.**

3.3   Safety Precaution

● In order to guarantee the product's life expectancy, do not store or use in environments over 60°C.

● Always mount this unit in a safe and stable manner. Mounting system must be able to withstand 10x that of the fixture's weight. A safety cable must always be used as a secondary source for securing the

fixture.

● Installation of this fixture may only be carried out by skilled individuals.

● This product can be used in the voltage range of 90-240V and is an indoor/outdoor product. Please make sure that the power mains voltage used is not higher/or lower than what the product can withstand! The power plug must be inserted into a protected Class I socket and must be grounded properly.

● In order to make sure the product is used properly, please read this manual carefully.

3.4 Cable connection (DMX)

Make sure to use a cable conforming to specifications EIA RS-485: 2-pole twisted, shielded, 120Ohm characteristic impedance, 22-24 AWG, Low capacity. Do not use microphone cable or other cable with characteristics differing from those specified. The end connections must be made using IP65-rated XLR type 3 pin male/female connectors. A terminating plug must be inserted into the last fixture with a resistance of 120 Ohm (minimum 1/4 W) between terminals 2 and 3.

IMPORTANT: The wires must not make contact with each other or with the metal casing of the connectors. The casing itself must be connected to the ground of the connector plugs.

4. Display Operation

Main Menu	Sub-Menu	Settings	Function Description
DMX Address		1-512	
System Settings, Setting	Display Reverse	Normal	
		Turn	
	Language Settings	Chinese	
		English	
	Channel Mode	23CH	
		35CH	
		51CH	
	Operating Mode	DMX	
		Menu	
		Auto	
	Master-Slave Mode	Slave	
		Mast	
	Dimming Mode	Smooth	
		Norm	

		Quick	
	Pan Reverse	Off	
		On	
	Tilt Reverse	Off	
		On	
	Pan and Tilt Speed	Slow	
		Medium	
		Quick	
	Magnetic encoding detection	Off	
		On	
	Signal Clear	Off	
		On	
	Sound Sensitivity	0-100%	
	Screen Protection	Off	
		On	
	White Balance	Off	
		On	
	White Balance Red	0-255	
	White Balance Green	0-255	
	White Balance Blue	0-255	
	White Balance White	0-255	
	Return	▲	
Manual	Red Color	0-255	
	Red Color Fine Adjustment	0-255	
	Green Color	0-255	
	Green Color Fine Adjustment	0-255	
	Blue Color	0-255	
	Blue Color Fine Adjustment	0-255	
	White Color	0-255	
	White Color Fine Adjustment	0-255	
	Color Temperature, RGBW CTO	0-255	
	Color Macro	0-255	
	Strobe	0-255	
	Dimming	0-255	
	Dimming Fine Adjustment	0-255	
	Pan	0-255	
	Pan Fine Adjustment	0-255	
	Tilt	0-255	
	Tilt Fine Adjustment	0-255	

	Function setting	0-255	
	Reset	0-255	
	Focus	0-255	
	Focus rotation	0-255	
	LED effect	0-255	
	LED speed	0-255	
	Effect fade	0-255	
	Effect red	0-255	
	Effect green	0-255	
	Effect blue	0-255	
	Effect white	0-255	
	Effect dimming	0-255	
	Background dimming	0-255	
	Excessive effect	0-255	
	Effect Angle	0-255	
	Foreground Strobe	0-255	
	Background Strobe	0-255	
	Background Selection	0-255	
	Return	▲	
Running Status	All Time	0-9999	Current Status
	Display Software	Vxxx	
	Mainboard Software	Vxxx	
	Focus Hall	Normal, Natu	
		Error, Err	
	Rotation Hall	Normal, Natu	
		Error, Err	
	Tilt Hall	Normal, Natu	
		Error, Err	
	Pan Magnetic encoding	Normal, Natu	
		Error, Err	
	Tilt Magnetic encoding	Normal, Natu	
		Error, Err	
	Temperature Detection	Normal, Natu	
		Error, Err	
	Mainboard Communication	Normal, Natu	
		Error, Err	
	Return	▲	
Auxiliary Tools, Tools	CheckCode 1	0-9999	
	All Time	Reset	
		Exec	
	Default	Default	
		Restore	

		Save	
	Pan	0-255	
	Tilt	0-255	
	Focus	0-255	
	Focus Rotation	0-255	
	LED1 Red	0-255	
	LED1 Green	0-255	
	LED1 Blue	0-255	
	LED1 White	0-255	
	LED2 Red	0-255	
	LED2 Green	0-255	
	LED2 Blue	0-255	
	LED2 White	0-255	
	LED3 Red	0-255	
	LED3 Green	0-255	
	LED3 Blue	0-255	
	LED3 White	0-255	
	LED4 Red	0-255	
	LED4 Green	0-255	
	LED4 Blue	0-255	
	LED4 White	0-255	
	LED5 Red	0-255	
	LED5 Green	0-255	
	LED5 Blue	0-255	
	LED5 White	0-255	
	LED6 Red	0-255	
	LED6 Green	0-255	
	LED6 Blue	0-255	
	LED6 White	0-255	
	LED7 Red	0-255	
	LED7 Green	0-255	
	LED7 Blue	0-255	
	LED7 White	0-255	
	Pan	0-255	
	Tilt	0-255	
	Focus	0-255	
	Focus Rotation	0-255	
	Return	▲	
Channel Fine Adjustment	Red	0-255	Can only check the channel values
	Red Color Fine Adjustment	0-255	
	Green	0-255	

	Green Color Fine Adjustment	0-255	
	Blue	0-255	
	Blue Color Fine Adjustment	0-255	
	White	0-255	
	White Color Fine Adjustment	0-255	
	RGBW CTO	0-255	
	Macro	0-255	
	Strobe	0-255	
	Dimmer	0-255	
	Dimming Fine Adjustment	0-255	
	Pan	0-255	
	Pan fine adjustment	0-255	
	Tilt	0-255	
	Tilt fine adjustment	0-255	
	Function setting	0-255	
	Reset	0-255	
	Focus	0-255	
	Focus rotation	0-255	
	LED effects	0-255	
	LED speed	0-255	
	Effect gradient	0-255	
	Effect Red	0-255	
	Effect Green	0-255	
	Effect Blue	0-255	
	Effect White	0-255	
	Effect dimming	0-255	
	Background Dimming	0-255	
	Effect transition	0-255	
	Effect Angle	0-255	
	Foreground Strobe	0-255	
	Background Strobe	0-255	
	Background Selection	0-255	
	Return	▲	
All Reset	Cancel		
	Execute		
	Green-Blue Swap	Off	
		Open	
	Return	▲	

5. DMX Channels

23 Channel Mode

Channel	Function	DMX value	Description
1	Pan control	0 - 255	Pan control
2	Pan fine-tuning	0 - 255	Pan fine-tuning
3	Tilt control	0 - 255	Tilt control
4	Tilt fine-tuning	0 - 255	Tilt fine-tuning
5	Pan and Tilt speed	0 - 255	Speed from slow to fast
6	Focus	0 - 255	Focus control
7	Rotate + 6th channel 131-255 combination enabled	0 - 127	0 to 60 degrees
		128 - 190	Clockwise rotation from fast to slow
		191 - 192	Stop
		193 - 255	Rotate counterclockwise from fast to slow
8	Total Dimming	0 - 255	0-100% linear dimmer
9	Strobe	0 - 3	Open
		4 - 103	Use the same steps from slow to fast
		104 - 107	Open
		108 - 207	Change the strobe rate from slow to fast
		208 - 212	Open
		213 - 225	High-speed random strobe
		226 - 238	Medium-speed random strobe
		239 - 251	Low-speed random strobe
		252 - 255	Open
10	Red	0 - 255	Red 0-100% brightness adjustment, from dark to bright
11	Green	0 - 255	Red 0-100% brightness adjustment, from dark to bright
12	Green	0 - 255	Red 0-100% brightness adjustment, from dark to bright
13	White	0 - 255	Red 0-100% brightness adjustment, from dark to bright

14	Color Temperature	0 - 255	Linear color temperature control
15	Color macro	0 - 255	Color macro control
16	Static effect	0 - 255	Every 5 DMX values is a static effect
17	Dynamic effect	0 - 255	Every 5 DMX values is a dynamic effect
18	Dynamic effect speed	0 - 255	Dynamic effect speed
19	Background color Red	0 - 255	Adjust the brightness of background red from 1-100%, from dark to bright
20	Background color Green	0 - 255	Adjust the brightness of background blue from 1-100%, from dark to bright
21	Background color Blue	0 - 255	Adjust the brightness of background green from 1-100%, from dark to bright
22	Background color White	0 - 255	Adjust the brightness of background blue from 1-100%, from dark to bright
23	Reset	0 - 250	No function
		251 - 255	Reset time is 5 seconds

35 Channel Mode

Channel	Function	DMX value	Description
1	Red	0 - 255	Red 0-100% brightness adjustment, from dark to bright
2	Red fine-tuning	0 - 255	Red fine-tuning
3	Green	0 - 255	Green 0-100% brightness adjustment, from dark to bright
4	Green fine-tuning	0 - 255	Green fine-tuning
5	Blue	0 - 255	Blue 0-100% brightness adjustment, from dark to bright
6	Blue fine-tuning	0 - 255	Blue fine-tuning
7	White	0 - 255	White 0-100% brightness adjustment, from dark to bright
8	White fine-tuning	0 - 255	White fine-tuning
9	Color temperature	0 - 255	Color temperature linear control
10	Macro color	0 - 255	Color macro change
11	Strobe	0 - 3	Light off
		4 - 103	Use the same steps from slow to fast

		104 - 107	Open
		108 - 207	Change the strobe rate from slow to fast
		208 - 212	Open
		213 - 225	High-speed random strobe
		226 - 238	Medium-speed random strobe
		239 - 251	Low-speed random strobe
		252 - 255	Open
12	Total dimming	0 - 255	0-100 linear adjustment of brightness
13	Total dimming fine-tuning	0 - 255	Dimmer fine-tuning
14	Pan control	0 - 255	Pan control
15	Pan fine-tuning	0 - 255	Pan fine-tuning
16	Tilt control	0 - 255	Tilt control
17	Tilt fine-tuning	0 - 255	Tilt fine-tuning
18	Function	0 - 255	Empty (No Function)
19	Reset	0 - 250	No Function
		251 - 255	Wait for 5 seconds to reset automatically
20	Focus	0 - 255	Focus Control
21	Rotate + 21 Channels Enable 131-255	0 - 127	0 to 60 degrees
		128 - 190	Rotate clockwise from fast to slow
		191 - 192	Stop
		193 - 255	Rotate counterclockwise from slow to fast
22	Shape Selection	0 - 255	Select Shape
23	Shape Speed	0 - 255	Shape Speed Control
24	Shape OFF	0 - 255	Shape close
25	Red shape	0 - 255	Red shape
26	Green shape	0 - 255	Green shape
27	Blue shape	0 - 255	Blue shape
28	White shape	0 - 255	White shape
29	Shape brightness adjustment	0 - 255	Shape dimmer 0-100%
30	Background brightness adjustment	0 - 255	Background dimmer 0-100%
31	Shape Selection	0 - 255	Shape Selection
32	Shape offset	0 - 255	Shape offset

Channel	Function	DMX value	Description
33	Foreground color control	0 - 255	Foreground color control
34	Background color control	0 - 255	Background color control
35	Background selection	0 - 255	Background selection

51 Channel Mode

Channel	Function	DMX value	Description
1	Pan control	0 - 255	Pan control
2	Pan fine-tuning	0 - 255	Pan fine-tuning
3	Tilt control	0 - 255	Tilt control
4	Tilt fine-tuning	0 - 255	Tilt fine-tuning
5	Pan and Tilt speed	0 - 255	Speed from slow to fast
6	Focus	0 - 255	Focus control
7	Rotation + Channel 6 Mode 131-155 enabled	0 - 127	0 to 60 degrees
		128 - 190	Clockwise rotation from fast to slow
		191 - 192	Stop
		193 - 255	Counterclockwise rotation from fast to slow
8	Total dimming	0 - 255	0-100% linear dimmer
9	Strobe	0 - 3	Light off
		4 - 103	Strobe rate from slow to fast
		104 - 107	Open
		108 - 207	Increase the strobe rate from slow to fast
		208 - 212	Open
		213 - 225	High-speed random strobe
		226 - 238	Medium-speed random strobe
		239 - 251	Low-speed random strobe
		252 - 255	Open
10	Red	0 - 255	Red 0-100% brightness adjustment, from dark to bright

11	Green	0 - 255	Red 0-100% brightness adjustment, from dark to bright
12	Green	0 - 255	Red 0-100% brightness adjustment, from dark to bright
13	White	0 - 255	Red 0-100% brightness adjustment, from dark to bright
14	Color tdemperature	0 - 255	Linear color temperature control
15	Color macro	0 - 255	Color macro variation
16	Static effect	0 - 255	Every 5 DMX values is a kind of static effect
17	Dynamic effect	0 - 255	Every 5 DMX values is a kind of dynamic effect
18	Dynamic effect speed	0 - 255	Dynamic effect speed
19	Background color Red	0 - 255	1-100% background red brightness adjustment, from dark to bright
20	Background color Green	0 - 255	1-100% background blue brightness adjustment, from dark to bright
21	Background color Blue	0 - 255	1-100% background green brightness adjustment, from dark to bright
22	Background color White	0 - 255	1-100% background blue brightness adjustment, from dark to bright
23	Reset	0 - 250	No function
		251 - 255	Reset (hold 5 seconds)
24	Red dimmer 1	0 - 255	LED1 red dimmer
25	Green dimmer 1	0 - 256	LED1 green dimmer
26	Blue dimmer 1	0 - 257	LED1 blue dimmer
27	White dimmer 1	0 - 258	LED1 white dimmer
......	....	......	....
......	....	......	....
48	Red dimmer 7	0 - 255	LED7 red dimmer
49	Green dimmer 7	0 - 256	LED7 green dimmer
50	Blue dimmer 7	0 - 257	LED7 blue dimmer
51	White dimmer 7	0 - 258	LED7 white dimmer

6. Technical Specifications

- Input voltage: AC110V-240V 50/60HZ
- Power link between fixtures: Up to 4 units can be daisy-chained
- Rated power: 350w
- Total power: 260W
- Light source: 7x40W RGBW LEDs
- Average LED life: 10000h
- Strobe: 1-50Hz
- Zoom Range: 3°-60°
- Z-Axis: 360° rotation of lens to create kaleidoscope effect
- X-Axis: 540° precision 2.11°/step, fine-tuning precision 0.008
- Y-Axis: 230° precision 1.05 degrees/step, fine-tuning precision 0.004
- 256 magnetic encoding precise positioning
- Temperature controlled intelligent heat dissipation
- Operation mode: DMX512, Auto program, Sound Active, & Master-Slave
- Control channel: 23CH/CH35/51CH
- Data connection: 3-pin IP65 rated XLR input/output
- Display: IP65 rated LCD w/touch buttons

7. Warranty

This product carries a 1-year manufacturer's warranty which covers factory defects or internal issues not caused by the owner/operator of the fixture. Misuse, physical damage, or any other issues caused by misuse by the customer are not covered under manufacturer's warranty. All warranty claims must be handled directly through the manufacturer and not the dealer. Original sales receipt required for all warranty claims. Submit all claims to Info@Acueligthing.com.

For more information about this product as well as all our other products please visit:

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