

# ACL 360 BAR™

user manual

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## DOCUMENT VERSION



Please check [www.elationlighting.com](http://www.elationlighting.com) for the latest revision/update of this manual.

Date	Document Version	Software Version	DMX Channel Modes	Notes
1/12/16	1	IU01: ≥1.12 2U01: ≥1.06 3U01: ≥1.12	17 / 19 / 43	Updated installation diagram.
1/22/16	2	IU01: ≥1.20 2U01: ≥1.20 3U01: ≥1.20	Basic/Stand/Extend 17 / 19 / 43 UserA/UserB/UserC 20 / 18 / 44	Updated installation diagram and program chase macro descriptions. Added new User A/B/C Modes DMX traits.
08/19/20	3	V1.28	NO CHANGE	Updated primary/secondary

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## **GENERAL INFORMATION**

### **INTRODUCTION**

Congratulations, you have just purchased one of the most innovative and reliable lighting fixtures on the market today! This fixture has been designed to perform reliably for years when the guidelines in this booklet are followed. Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this unit. These instructions contain important information regarding safety during use and maintenance.

### **UNPACKING**

Every fixture has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your unit for damage and be sure all accessories necessary to operate the unit have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this unit to your dealer without first contacting customer support at the number listed below. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

### **BOX CONTENTS**

- (1) Omega Bracket
- (1) Power Cable

## **CUSTOMER SUPPORT**

Elation Professional® provides a customer support line, to provide set up help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at [www.elationlighting.com](http://www.elationlighting.com) for any comments or suggestions. For service related issue please contact Elation Professional®.

### **ELATION SERVICE USA - Monday - Friday 8:00am to 5:00pm PST**

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## **WARRANTY REGISTRATION**

Please complete and mail in the enclosed warranty card or register online: <http://www.elationlighting.com/Login.aspx> to validate your purchase. All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Items returned without a R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain a R.A. number by contacting customer support.

## **IMPORTANT NOTICE!**

**There are no user serviceable parts inside this unit. Do not attempt any repairs yourself; doing so will void your manufactures warranty. Damages resulting from modifications to this fixture and/or the disregard of safety and general user instructions found in this user manual void the manufactures warranty and are not subject to any warranty claims and/or repairs.**

## LIMITED WARRANTY

A. Elation Professional® hereby warrants, to the original purchaser, Elation Professional® products to be free of manufacturing defects in material and workmanship for a period of two years (730 days), and Elation Professional® product rechargeable batteries to be free of manufacturing defects in material and workmanship for a period of six months (180 days), from the original date of purchase. This warranty excludes discharge lamps and all product accessories. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to the Elation Professional® factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation Professional® will pay return shipping charges only to a designated point within the United States. If any product is sent, it must be shipped in its original package and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, Elation Professional® shall have no liability what so ever for loss and/or or damage to any such accessories, nor for the safe return thereof.

C. This warranty is void if the product serial number and/or labels are altered or removed; if the product is modified in any manner which Elation Professional® concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Elation Professional® factory unless prior written authorization was issued to purchaser by Elation Professional®; if the product is damaged because not properly maintained as set forth in the product instructions, guidelines and/or user manual.

D. This is not a service contract, and this warranty does not include any maintenance, cleaning or periodic check-up. During the periods as specified above, Elation Professional® will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Elation Professional® under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation Professional®. All products covered by this warranty were manufactured after January 1, 1990, and bare identifying marks to that effect.

E. Elation Professional® reserves the right to make changes in design and/or performance improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with the products described above. Except to the extent prohibited by applicable law, all implied warranties made by Elation Professional® in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty periods set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said periods have expired. The consumer's and/or dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Elation Professional® be liable for any loss and/or damage, direct and/or consequential, arising out of the use of, and/or the inability to use, this product.

G. This warranty is the only written warranty applicable to Elation Professional® products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

## SAFETY INSTRUCTIONS



This fixture is an extremely sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow the guidelines in this manual. The manufacturer of this device will not accept responsibility for damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual.



This device falls under **PROTECTION CLASS 1**. It's essential this device be grounded properly. Only qualified personnel should perform all electrical connections.



**I N D O O R S U S E O N L Y !**  
**DO NOT EXPOSE FIXTURE RAIN AND MOISTURE!**



**UNPLUG POWER BEFORE SERVICING FIXTURE!**  
**DO NOT PLUG FIXTURE INTO A DIMMER PACK!**  
**NEVER TOUCH FIXTURE DURING OPERATION, AS IT MAY BE HOT!**



**NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!**  
**SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!**

- For proper operation, follow the **Installation** guidelines described in this manual. Only qualified and certified personnel should perform installation of this fixture and only the original rigging parts (brackets) included with this fixture should be used for installation. Any modifications will void the original manufacturer's warranty and increase the risk of damage and/or personal injury.
- Never look directly into the light source of this fixture to prevent risk of injury to your retina, which may induce blindness. Those suffering from **EPILEPSY** should avoid looking directly into the light source of this unit at all times.
- The fan and air inlets must remain clean and never blocked. Allow approx. 6" (15cm) between this fixture and other devices or a wall for proper cooling.
- Always disconnect from main power source before performing any type of service and/or cleaning procedure. Only handle the power cord by the plug end, never pull out the plug by tugging the wire portion of the cord.
- Do not operate this fixture if the power cord has become frayed, crimped and/or damaged. If the power cord is damaged, replace it immediately with a new one of similar power rating.

## GENERAL GUIDELINES

- **NEVER OPEN THIS FIXTURE WHILE IN USE!**
- During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the lamp and will decrease gradually over time.
- This fixture is a professional lighting effect designed for **INDOOR / DRY LOCATIONS ONLY** on stage, in nightclubs, theatres, etc.
- Please make sure there are **NO FLAMMABLE MATERIALS** close to the fixture while operating, to prevent any fire hazard.
- The fixture must be installed in a location with adequate ventilation, at least 1.5 feet (.5m) from adjacent surfaces. Be sure no air ventilation slots are blocked.
- **DO NOT** attempt installation and/or operation without knowledge how to do so.
- **DO NOT** permit operation by persons who are not qualified to operate this type of fixture. Most damages are the result of operations by nonprofessionals.
- Consistent operational breaks may ensure the fixture will function properly for many years to come.
- **DO NOT** shake fixture, avoid brute force when installing and/or operating fixture.
- Always install the fixture with an appropriate safety cable. When installing the fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25 mm, also be sure the hardware is insert in the pre-arranged screw holes in the bracket of the fixture.
- Use the original packaging and materials to transport the fixture in for service.
- **DO NOT TOUCH** the housing bare-hand during its operation. Turn OFF the power and allow approximately 15 minutes for the fixture to cool down before replacing or serving.



# FIXTURE OVERVIEW



- |                                         |                       |
|-----------------------------------------|-----------------------|
| 1: LCD Control Display                  | 6: Fuse               |
| 2: DC Switch                            | 7: Power IN           |
| 3: UP, DOWN, LEFT, RIGHT, ENTER Buttons | 8: 3pin, 5pin DMX IN  |
| 4: MODE Button                          | 9: 3pin, 5pin DMX OUT |
| 5: NET IN/OUT (RJ45 Ethernet)           | 10: Power OUT         |

## FIXTURE INSTALLATION



### **FLAMMABLE MATERIAL WARNING**

Keep fixture at least 5.0 ft (1.5m) away from any flammable materials, decorations, pyrotechnics, etc.



### **ELECTRICAL CONNECTIONS**

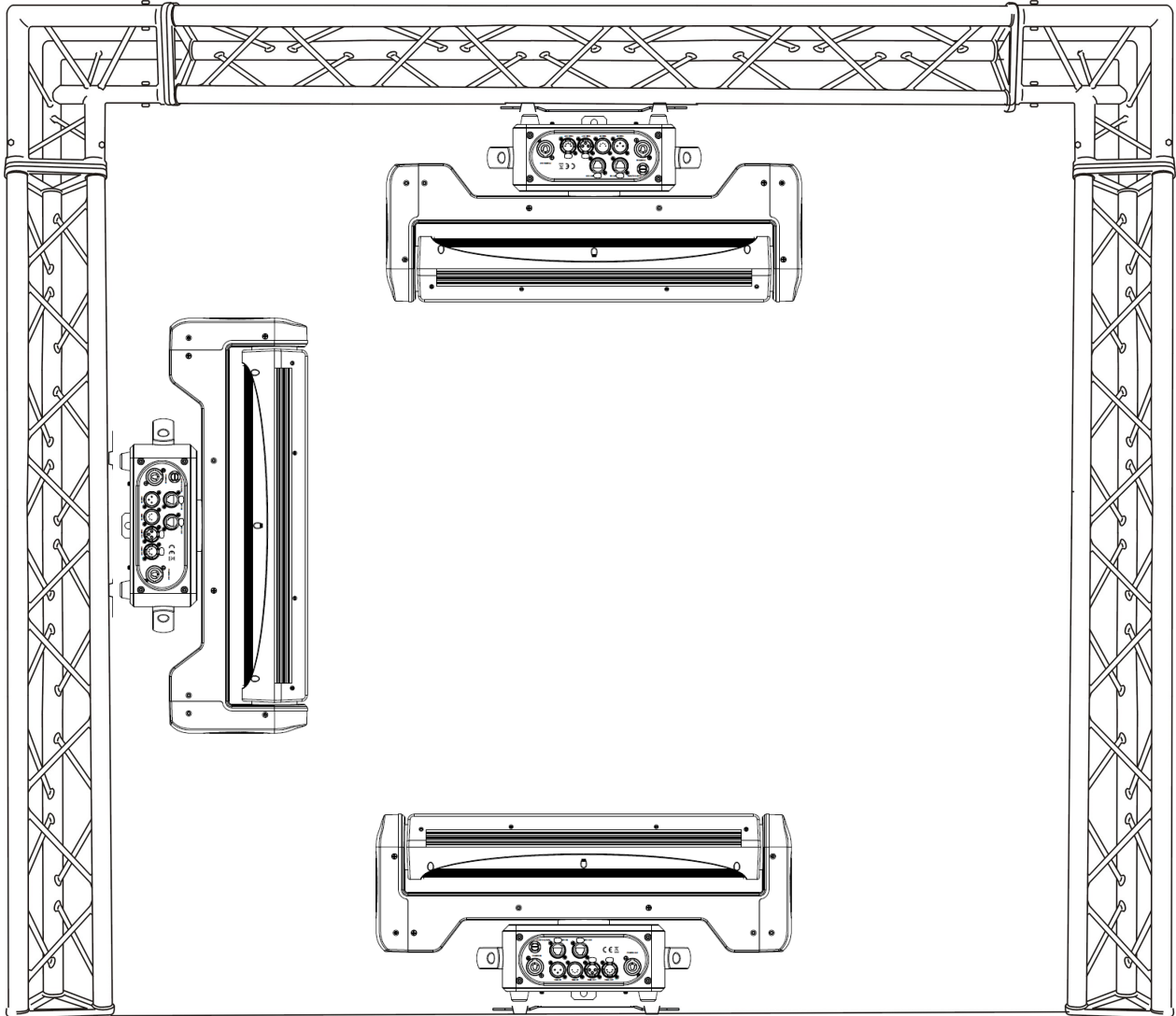
A qualified electrician should be used for all electrical connections and/or installations.

## CAUTIONS

- For added protection, mount the fixture in areas outside walking paths, seating areas, or in areas where unauthorized personnel might reach the fixture.
- Ambient operating temperature range for this fixture is **5° to 113°F. (-15° to 45°C)**  
Do not use the fixture under or above this temperature.
- Before mounting the fixture to any surface, make sure the installation area can hold a minimum point load of 10 times the weight of the fixture.
- Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.
- Never stand directly below the device when mounting, removing or servicing.

## MOUNTING POINTS

- Overhead mounting requires extensive experience, including amongst others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the device. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.
- Fixture is fully operational in the specific mounting positions as illustrated below.



### SAFETY CABLE

**ALWAYS USE A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THE FIXTURE WILL NOT DROP IF THE CLAMP FAILS.**

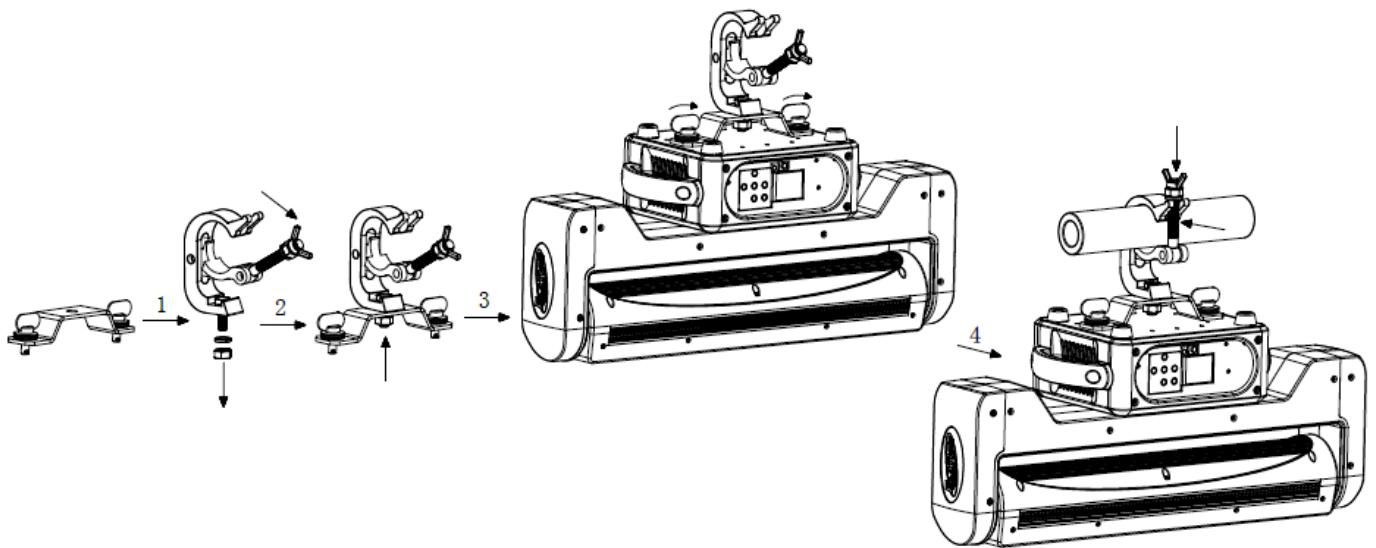
## POWER LINKING



Max number of units that can be power linked is **7 units @110V** and **16 units @240V**.

## CLAMP MOUNTING

The fixture provides a unique mounting assembly (**Omega Bracket**) that integrates the bottom of the base. (See the illustration below). When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included **Omega Bracket** using a M10 screw fitted through the center hole of the **Omega Bracket**. Be sure to attach an appropriate **Safety Cable** (not included) to the fixture using the safety cable rigging point integrated in the base assembly.



## SECURING

Regardless of the rigging option you choose for your fixture always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.


# FIXTURE MENU

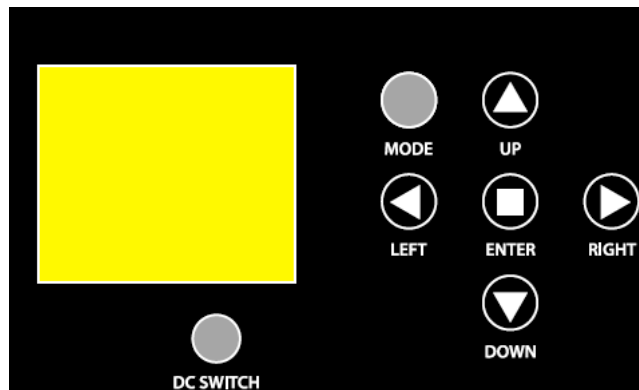
## ON-BOARD SYSTEM MENU

The fixture comes with an easy to navigate system menu. The next section will detail the functions of each command in the system menu.

## LCD MENU CONTROL PANEL

The control panel (see image below) located on back of the fixture allows you to access the main menu and make all necessary adjustments to the fixture. During normal operation, pressing **MODE** button once will access the fixture’s main menu. Once in the main menu you can navigate through the different functions and access the sub-menus with the **UP**, **DOWN**, **RIGHT**, and **LEFT** buttons. Once you reach a field that requires adjusting, press the **ENTER** button to activate that field and use the **UP** and **DOWN** buttons to adjust the field. Pressing the **ENTER** button once more will confirm your setting. You may exit the main menu at any time without making any adjustments by pressing the **MODE/ESC** button.

 **NOTE:** To access the LCD Menu Control Display via the internal battery, press and hold the **DC SWITCH** button for 3 seconds. The LCD Menu Control Display will shut **OFF** automatically about 1 minute from the last button press.



## INFORMATION DISPLAYED DURING INITIAL POWER ON

When the fixture is initially powered ON, the display shows the following information:



**ELATION® ACL 360 BAR™  
SYSTEM MENU**

Specifications and features are subject to change without any prior written notice.

MAIN MENU	SUB MENU	OPTIONS / VALUES (Default Settings in <b>BOLD</b> )		DESCRIPTION	
Receive	Set DMX Address	A001~AXXX		DMX Address Setting	
User Mode	User Mode	<b>Standard</b> , Basic, Extend, User A, User B, User C		Set DMX Channel Modes	
	Edit A	Max. Chan		Edit User Defined Channel Assignments	
	Edit B	:			
Edit C	Fade Time				
Function	Status	Remote Add	<b>ON/OFF</b>	Address Via DMX	
		NoDMX Mode	<b>Hold</b> / Auto / Blackout	Function If NO DMX Detected	
		Pan Invert	<b>ON/OFF</b>	Pan Reverse Movement	
		TiltInvert	<b>ON/OFF</b>	Tilt Reverse Movement	
		Pan Degree	630/ <b>540</b>	Pan Degree Select	
		Feedback	<b>ON/OFF</b>	Movement Feedback	
		Move. Spd	Speed <b>1</b> ~ 4	Movement Mode Select	
	Stand By	OFF, 01M~99M, <b>15M</b>	Stand By Mode		
	Fixture ID	ServicePIN	PIN=XXX		Service PIN <b>050</b>
		RDM PID	<b>XXXXX</b>		RDM PID Code
		UnitIPAddr	XXX.XXX.XXX.XXX.		Enter Fixture's IP Address
		Universe	000-255		Enter Universe Number
	ProtocolSet	<b>ArtNet</b> , Kling-Net		Fans Speed Select	
	Net Switch	<b>ON/OFF</b>		Activate NET OUT Port.	
	LCD. Set	Backlight	02~60m <b>05m</b>	LCD Backlight Shut Off Time	
		FlipDisplay	<b>ON/OFF</b>	Flip Display 180°	
		Key Lock	<b>ON/OFF</b>	Control Buttons Key Lock	
		Disp Flash	<b>ON/OFF</b>	Display flashes when NO DMX	
	Dim Curve	<b>Standard</b> , Stage, TV, Architectur, Theatre		Set Dimmer Curve Mode	
	Temp. C/F	<b>Celsius/Fahrenheit</b>		Temperature Switch Between C° / F°	
	Init. Effect	PAN =XXX		Initial Effect Position	
	Disp. Set	Chan. Value	PAN...		Value of each Channel Displayed
		SEcd Set	Secd 1, Secd 2, Secd 3		Set Secondary Mode Preset
Auto.Pro		Alone, Primary		Set Auto Program Mode	
DFSE	<b>ON/OFF</b>		Restore Factory Settings		
Information	Time. Info	Current	XXXX (Hours)	Fixture Run Time From Power ON	
		Total Time	XXXX (Hours)	Fixture Total Run Time	
		Last Clear	XXXX (Hours)	Clear Fixture Last Run Time	
		Timer PIN	PIN= <b>066</b>	Enter PIN to Access Clear Last. Menu	
		Clean Last	<b>ON / OFF</b>	Reset Fixture Last Run Time	
	Temp. Info	Head Temp.	XXX C° / F°	Temperature in Fixture Head	
	Error. Info			Reset Error Message	
	Model. Info	ACL 360 Bar		Display Model Name	
	Software Version	1U01:	≥V1.20		Software Versions
2U01:		≥V1.20			
3U01:		≥V1.20			
Error Info	Error Record 1 ~ Error Record 10		Pan....		

ELATION® ACL 360 BAR™ SYSTEM MENU					
Specifications and features are subject to change without any prior written notice.					
MAIN MENU	SUB MENU	OPTIONS / VALUES (Default Settings in <b>BOLD</b> )		DESCRIPTION	
Test	Reset. M			Reset of Pan/Tilt Motors	
	Test. Chan			Test Functions	
	Panel. Ctrl			Fine Adjustments	
	Calibrate	Password	Password= <b>050</b>	Calibration of Motors and LEDs	
Program	Select. Pro	Auto Pro Part1 = Program 1~9 ( <b>Program 1</b> )		Select Programs To Be Run	
		Auto Pro Part2 = Program 1~9 ( <b>Program 2</b> )			
		Auto Pro Part3 = Program 1~9 ( <b>Program 3</b> )			
	Edit. Pro	Program 1	Program Test		Testing Program
		:	Step 01=SCxxx		Program In Loop
		Program 9	Step 64=SCxxx		Save and Exit
	Edit. Sce	Scene 001 ~ Scene 250	Pan,Tilt,.....		Save and Automatically Return
			--Fade Time-- --Scene Time--		Manual Scenes Edit
			Input By Outside		Stores Scenes via Ext DMX Console
	Sce. Input	XX-XX			Automatic Scenes Recorder

**Function - Status - Remote Add**

When ON, define the desired DMX address of fixture via an external controller.

1. Connect the fixture to the external controller and power ON.
2. Set the DMX value of **Channel 1** on the controller to **(7)**.
3. Set the DMX value of **Channel 2** on the controller to **(7)** or **(8)**.

When set to **(7)**, the DMX address can be set between **(1)** and **(255)**.

When set to **(8)**, the DMX address can be set between **(256)** and **(511)**.

4. Using **Channel 3** on the controller set the desired DMX address of the fixture.

**Example 1:**

If the desired DMX address is **57**, set **Channel 1** to a value of **(7)**, set **Channel 2** to a value of **(7)**, and then set **Channel 3** to a value of **(57)**.

**Example 2:**

If the desired DMX address is **420**, set **Channel 1** to a value of **(7)**, set **Channel 2** to a value of **(8)**, and then set **Channel 3** to a value of **(164)**. (256+164=420)

5. After setting **Channel 3** to the desired DMX address value, wait for approximately 20 seconds for the fixture to complete the address reset function.

### Function – Fixture ID - RDM PID

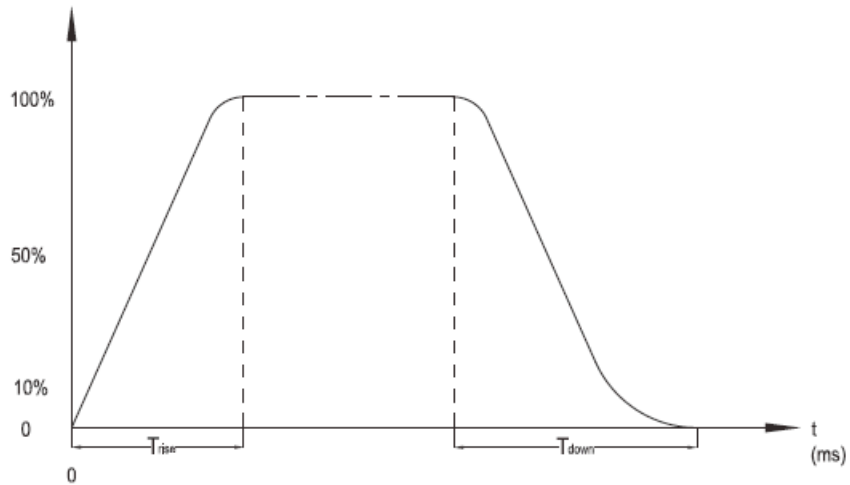
Select various submenus via RDM.

RDM stands for "Remote Device Management", which provides the ability to control the device remotely while connected to a DMX-bus. ANSI E1.20-2006 by ESTA specifies the RDM standard as an extension of the DMX512 protocol. Manual settings like adjusting the DMX starting address are no longer needed. This is especially useful when the device is installed in a remote area.

RDM ready and conventional DMX devices can be operated in one DMX line. The RDM protocol sends its own packages in the DMX512 data feed and does not influence conventional devices. If DMX splitters are used and RDM control is to be used, these splitters must support RDM. The number and type of RDM parameters depend on the RDM controller being used.

### Function - Dim Curve

Select desired DIMMER MODE (**Standard**, Stage, TV, Architectural, Theatre).



Ramp Effect	0  255 OS (Fade Time)		0  255 1S (Fade Time)	
	T <sub>rise</sub> (ms)	T <sub>down</sub> (ms)	T <sub>rise</sub> (ms)	T <sub>down</sub> (ms)
Standard	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural	1380	1730	2040	2120
Theatre	1580	1940	2230	2280



## Test – Calibrate



### **ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION.**

This function allows small adjustments to be made to the effect wheels to compensate for wear or in the event a sensor has been knocked slightly out of place. Because improper use of this function can result in undesired operation this function has been password protected. The password is **050** and must be entered each time the calibration menu function is entered. Because calibration is an extremely delicate procedure, instructions on performing this action are left out of this manual. For a first time calibrator, please contact our customer support team for step-by-step instructions.

# DMX CHANNEL FUNCTIONS AND VALUES

ELATION® ACL 360 BAR™				
DMX Channel Values / Functions Version 1 (43 DMX Channels)				
Supports Software Versions: ≥ 1.28				
Specifications are subject to change without any prior written notice.				
*Pixel control position depends on the specific Pan/Tilt position of the head.				
MODE / CHANNEL			VALUE	FUNCTION
BASIC	STAND	EXTEND		
1	1	1		PAN MOVEMENT [8 BIT]
			0-255	PAN Movement 630/540
	2	2		PAN FINE MOVEMENT [16 BIT]
			0-255	Fine Control of PAN Movement
2	3	3		TILT MOVEMENT [8 BIT]
			0-255	TILT Movement
	4	4		TILT MOVEMENT [16 BIT]
			0-255	Fine Control of TILT Movement
3	5	5		PAN CONTINUOUS MOVEMENT
			0-127	NO FUNCTION
			128-189	PAN Clockwise from FAST to SLOW
			190-193	NO Rotation
	6	6	194-255	PAN Counter-Clockwise from SLOW to FAST
				TILT CONTINUOUS MOVEMENT
			0-127	NO FUNCTION
			128-189	TILT Clockwise from FAST to SLOW
	7		190-193	NO Rotation
			194-255	TILT Counter-Clockwise from SLOW to FAST
				RED (ALL LEDs)
			0-255	0 to 100%
6	8			GREEN (ALL LEDs)
			0-255	0 to 100%
7	9			BLUE (ALL LEDs)
			0-255	0 to 100%
8	10			WHITE (ALL LEDs)
			0-255	BLUE FINE Adjustment
		7		*RED - LED 1
		8		*GREEN - LED 1
		9		*BLUE - LED 1
		10		*WHITE - LED 1
		11		*RED - LED 2
		12		*GREEN - LED 2
		13		*BLUE - LED 2
		14		*WHITE - LED 2
			0-255	0 to 100%

MODE / CHANNEL			VALUE	FUNCTION
BASIC	STAND	EXTEND		
		15		*RED - LED 3
			0-255	0 to 100%
		16		*GREEN - LED 3
			0-255	0 to 100%
		17		*BLUE - LED 3
			0-255	0 to 100%
		18		*WHITE - LED 3
			0-255	0 to 100%
		19		*RED - LED 4
			0-255	0 to 100%
		20		*GREEN - LED 4
			0-255	0 to 100%
		21		*BLUE - LED 4
			0-255	0 to 100%
		22		*WHITE - LED 4
			0-255	0 to 100%
		23		*RED - LED 5
			0-255	0 to 100%
		24		*GREEN - LED 5
			0-255	0 to 100%
		25		*BLUE - LED 5
			0-255	0 to 100%
		26		*WHITE - LED 5
			0-255	0 to 100%
		27		*RED - LED 6
			0-255	0 to 100%
		28		*GREEN - LED 6
			0-255	0 to 100%
		29		*BLUE - LED 6
			0-255	0 to 100%
		30		*WHITE - LED 6
			0-255	0 to 100%
		31		*RED - LED 7
			0-255	0 to 100%
		32		*GREEN - LED 7
			0-255	0 to 100%
		33		*BLUE - LED 7
			0-255	0 to 100%
		34		*WHITE - LED 7
			0-255	0 to 100%

MODE / CHANNEL			VALUE	FUNCTION
BASIC	STAND	EXTEND		
9	11	35		<b>COLOR MACROS</b>
			0	OFF
			1-4	COLOR MACRO 01
			5-8	COLOR MACRO 02
			9-12	COLOR MACRO 03
			13-16	COLOR MACRO 04
			17-20	COLOR MACRO 05
			21-24	COLOR MACRO 06
			25-28	COLOR MACRO 07
			29-32	COLOR MACRO 08
			33-36	COLOR MACRO 09
			37-40	COLOR MACRO 10
			41-44	COLOR MACRO 11
			45-48	COLOR MACRO 12
			49-52	COLOR MACRO 13
			53-56	COLOR MACRO 14
			57-60	COLOR MACRO 15
			61-64	COLOR MACRO 16
			65-68	COLOR MACRO 17
			69-72	COLOR MACRO 18
			73-76	COLOR MACRO 19
			77-80	COLOR MACRO 20
			81-84	COLOR MACRO 21
			85-88	COLOR MACRO 22
			89-92	COLOR MACRO 23
			93-96	COLOR MACRO 24
			97-100	COLOR MACRO 25
			101-104	COLOR MACRO 26
			105-108	COLOR MACRO 27
			109-112	COLOR MACRO 28
			113-116	COLOR MACRO 29
			117-120	COLOR MACRO 30
			121-124	COLOR MACRO 31
125-128	COLOR MACRO 32			

MODE / CHANNEL			VALUE	FUNCTION			
BASIC	STAND	EXTEND					
9	11	35		<b>COLOR MACROS [continued]</b>			
			129-132	COLOR MACRO 33			
			133-136	COLOR MACRO 34			
			137-140	COLOR MACRO 35			
			141-144	COLOR MACRO 36			
			145-148	COLOR MACRO 37			
			149-152	COLOR MACRO 38			
			153-156	COLOR MACRO 39			
			157-160	COLOR MACRO 40			
			161-164	COLOR MACRO 41			
			165-168	COLOR MACRO 42			
			169-172	COLOR MACRO 43			
			173-176	COLOR MACRO 44			
			177-180	COLOR MACRO 45			
			181-184	COLOR MACRO 46			
			185-188	COLOR MACRO 47			
			189-192	COLOR MACRO 48			
			193-196	COLOR MACRO 49			
			197-200	COLOR MACRO 50			
			201-204	COLOR MACRO 51			
			205-208	COLOR MACRO 52			
			209-212	COLOR MACRO 53			
			213-216	COLOR MACRO 54			
			217-220	COLOR MACRO 55			
			221-224	COLOR MACRO 56			
			225-228	COLOR MACRO 57			
			229-232	COLOR MACRO 58			
			233-236	COLOR MACRO 59			
			237-240	COLOR MACRO 60			
			241-244	COLOR MACRO 61			
			245-248	COLOR MACRO 62			
			249-252	COLOR MACRO 63			
			253-255	COLOR MACRO 64			
			10	12	36		<b>SHUTTER / STROBE</b>
						0-31	LEDs OFF
32-63	LEDs ON						
64-95	Strobe Effect SLOW to FAST						
96-127	LEDs ON						
128-159	Pulse Effect in Sequences						
160-191	LEDs ON						
192-223	Random Strobe Effect SLOW to FAST						
224-255	LEDs ON						

MODE / CHANNEL			VALUE	FUNCTION
BASIC	STAND	EXTEND		
11	13	37		<b>DIMMER INTENSITY</b>
			0-255	Intensity 0 to 100%
12	14	38		<b>DIMMER INTENSITY FINE</b>
			0-255	Dimmer Intensity FINE Adjustment
13	15	39		<b>AUTO PROGRAM MACROS</b>
			0	NO FUNCTION
			1-20	01 - Single LED Chase Sequence #1
			21-40	02 - Center LED ON then Burst LEDs Out Towards Both Ends and Back
			41-60	03 - Single LED Chase Sequence #2
			61-80	04 - Single LED Chase in Alternating Directions Sequence
			81-100	05 - Single to ALL LED Fill Chase in Same Direction Sequence
			101-120	06 - All LEDs ON Color Changing Sequence
			121-140	07 - Outside to Inside back to Outside LEDs Chase / Color Sequence
			141-160	08 - Single LED Chase Sequence Yellow/Green Color
			161-180	09 - Single LED Chase Sequence Light Purple Color
			181-200	10 - Single LED Chase Sequence Light Blue Color
			201-220	11 - Outside to Inside back to Outside LEDs Chase Sequence Yellow/Green Color
			221-240	12 - Outside to Inside back to Outside LEDs Chase Sequence Light Purple Color
241-250	13 - Outside to Inside back to Outside LEDs Chase Sequence Light Blue Color			
251-255	14 - All LEDs ON Color Gradient Sequence			
14	16	40		<b>AUTO PROGRAM MACRO SPEED</b>
			0-255	Auto Program Macro Speed SLOW to FAST
15	17	41		<b>DIMMING CURVE MODES</b>
			0-20	STANDARD
			21-40	STAGE
			41-60	TV
			61-80	ARCHITECTURAL
			81-100	THEATRE
			101-255	Default to Unit Setting
16	18	42		<b>PAN / TILT MOVEMENT SPEED</b>
			0-225	MAX to MIN SPEED
			226-235	Blackout By Movement
			236-255	NO FUNCTION
17	19	43		<b>LAMP ON/OFF, RESET, INTERNAL PROGRAMS</b>
			0-79	Normal
			80-84	ALL Motor Reset
			85-99	NO FUNCTION
			100-119	Internal Program 1 (scene1~8 of EEPROM)
			120-139	Internal Program 2 (scene9~16 of EEPROM)
			140-159	Internal Program 3 (scene17~24 of EEPROM)
			160-179	Internal Program 4 (scene25~32 of EEPROM)
			180-199	Internal Program 5 (scene33~40 of EEPROM)
			200-219	Internal Program 6 (scene41~48 of EEPROM)
			220-239	Internal Program 7 (scene49~56 of EEPROM)
240-255	NO FUNCTION			

ELATION© ACL 360 BAR™				
DMX Channel Values / Functions Version 2 (44 Total DMX Channels)				
Supports Software Versions: ≥ 1.28				
Specifications are subject to change without any prior written notice.				
*Pixel control position depends on the specific Pan/Tilt position of the head.				
MODE / CHANNEL			VALUE	FUNCTION
USER A	USER B	USER C		
1	1	1		PAN MOVEMENT [8 BIT]
			0-255	PAN Movement 630/540
2		2		PAN FINE MOVEMENT [16 BIT]
			0-255	Fine Control of PAN Movement
3	2	3		TILT MOVEMENT [8 BIT]
			0-255	TILT Movement
4		4		TILT MOVEMENT [16 BIT]
			0-255	Fine Control of TILT Movement
5	3	5		SPEED PAN/TILT MOVEMENT
			0-225	MAX to MIN SPEED
			226-235	BLACKOUT by Movement
			236-255	NO FUNCTION
6	4	6		PAN CONTINUOUS MOVEMENT
			0-127	NO FUNCTION
			128-189	Forwards PAN Rotation from FAST to SLOW
			190-193	NO Rotation
			194-255	Backwards PAN Rotation from SLOW to FAST
7	5	7		TILT CONTINUOUS MOVEMENT
			0-127	NO FUNCTION
			128-189	Forward TILT Rotation from FAST to SLOW
			190-193	NO Rotation
			194-255	Backwards TILT Rotation from SLOW to FAST
8	6			RED (ALL LEDs)
			0-255	0 to 100%
9	7			GREEN (ALL LEDs)
			0-255	0 to 100%
10	8			BLUE (ALL LEDs)
			0-255	0 to 100%
11	9			WHITE (ALL LEDs)
			0-255	BLUE FINE Adjustment
		17		*RED - LED 1
		17	0-255	0 to 100%
		18		*GREEN - LED 1
		18	0-255	0 to 100%
		19		*BLUE - LED 1
		19	0-255	0 to 100%
		20		*WHITE - LED 1
		20	0-255	0 to 100%

MODE / CHANNEL			VALUE	FUNCTION
USER A	USER B	USER C		
		21		*RED - LED 2
			0-255	0 to 100%
		22		*GREEN - LED 2
			0-255	0 to 100%
		23		*BLUE - LED 2
			0-255	0 to 100%
		24		*WHITE - LED 2
			0-255	0 to 100%
		25		*RED - LED 3
			0-255	0 to 100%
		26		*GREEN - LED 3
			0-255	0 to 100%
		27		*BLUE - LED 3
			0-255	0 to 100%
		28		*WHITE - LED 3
			0-255	0 to 100%
		29		*RED - LED 4
			0-255	0 to 100%
		30		*GREEN - LED 4
			0-255	0 to 100%
		31		*BLUE - LED 4
			0-255	0 to 100%
		32		*WHITE - LED 4
			0-255	0 to 100%
		33		*RED - LED 5
			0-255	0 to 100%
		34		*GREEN - LED 5
			0-255	0 to 100%
		35		*BLUE - LED 5
			0-255	0 to 100%
		36		*WHITE - LED 5
			0-255	0 to 100%
		37		*RED - LED 6
			0-255	0 to 100%
		38		*GREEN - LED 6
			0-255	0 to 100%
		39		*BLUE - LED 6
			0-255	0 to 100%
		40		*WHITE - LED 6
			0-255	0 to 100%
		41		*RED - LED 7
			0-255	0 to 100%
		42		*GREEN - LED 7
			0-255	0 to 100%
		43		*BLUE - LED 7
			0-255	0 to 100%
		44		*WHITE - LED 7
			0-255	0 to 100%



MODE / CHANNEL			VALUE	FUNCTION
USER A	USER B	USER C		
12	10	8		<b>SHUTTER / STROBE</b>
			0-31	LEDs OFF
			32-63	LEDs ON
			64-95	Strobe Effect SLOW to FAST
			96-127	LEDs ON
			128-159	Pulse Effect in Sequences
			160-191	LEDs ON
			192-223	Random Strobe Effect SLOW to FAST
224-255	LEDs ON			
13	11	9		<b>DIMMER INTENSITY</b>
			0-255	Intensity 0 to 100%
14	12	10		<b>COLOR MACROS</b>
			0-7	NO FUNCTION
			Aug-39	from RED to YELLOW
			40-71	from YELLOW to GREEN
			72-103	from GREEN to CYAN
			104-135	from CYAN to BLUE
			136-167	from BLUE to MAGENTA
			168-199	from MAGENTA to RED
			200-231	from RED to WHITE
			232-255	Crossfading Colors from SLOW to FAST

MODE / CHANNEL			VALUE	FUNCTION
USER A	USER B	USER C		
15	13	11		<b>COLOR PRESETS</b>
			0-4	NO FUNCTION
			5-9	WHITE 2,700K
			10-14	WHITE 3,200K
			15-19	WHITE 4,200K
			20-24	WHITE 5,600K
			25-29	WHITE 6,500K
			30-34	WHITE 8,000K
			35-39	YELLOW
			40-44	MAGENTA
			45-49	CYAN
			50-54	SALMON
			55-59	TURQUOISE
			60-64	LIGHT GREEN
			65-69	STEEL BLUE
			70-74	ORANGE
			75-79	STRAW
			80-84	PALE LAVENDER
			85-89	PINK
			90-94	RED
			95-99	GREEN
			100-104	BLUE
			105-109	RAINBOW 1
			110-114	RAINBOW 2
			115-119	RAINBOW 3
			120-124	RAINBOW 4
			125-129	RAINBOW 5
			130-134	RAINBOW 6
			135-139	RAINBOW 7
			140-144	RAINBOW 8
			145-149	RAINBOW 9
150-154	RAINBOW 10			
155-159	RAINBOW 11			
160-164	RAINBOW 12			
165-169	RAINBOW 13			
170-174	RAINBOW 14			
175-179	RAINBOW 15			
180-184	RAINBOW 16			
185-189	RAINBOW 17			
190-194	RAINBOW 18			
195-199	RAINBOW 19			
200-255	RESERVED			
19	17	15		<b>COLOR PRESETS DIMMER</b>
			0-255	Intensity 100% to 0%

MODE / CHANNEL			VALUE	FUNCTION
USER A	USER B	USER C		
16	14	12		<b>CHASE MACROS - NOTE: Color Must Be Selected To Engage Macros.</b>
			0-14	LEDs OFF
			15-30	01 - Single LED Chase Sequence #1
			31-46	02 - Center LED ON then 2 Single LEDs Burst Out Towards Both Ends
			47-62	03 - Single LED ON then Alternating Single LEDs ON
			63-78	04 - Single LED ON to Other LEDs ON in Same Direction Sequence
			79-94	05 - 2 LED Array Chase Sequence
			95-110	06 - Single LED Chase Sequence #2
			111-126	07 - 4 LED Array to 3 LED Array Transition Sequence
			127-142	08 - 3 LED Array Chase to Opposite Side Sequence
			143-158	09 - 3 LED Array to 4 LED Array Flash Sequence
			159-174	10 - 4 LED Array Chase To Opposite Side Sequence
			175-190	11 - Single LED to Remaining 6 LEDs Fill In to Opposite Side Sequence
			191-206	12 - Outer 3 LEDs Alternate Flash then Center LED Flashes Sequence
			207-222	13 - Alternating 2 LED Array Flash Sequence
			223-238	14 - Single to 7 LED Array ON then OFF in Same Direction Sequence
239-255	15 - Various LED Array Chase Sequence			
17	15	13		<b>CHASE SPEED</b>
			0-125	FAST to SLOW
			126-130	STOP (SPEED = 0)
			131-255	SLOW to FAST
18	16	14		<b>CHASE FADE</b>
			0-255	Fade Chase
20	18	16		<b>RESET, INTERNAL PROGRAMS</b>
			0-79	Normal
			80-84	ALL Motor Reset
			85-87	Scan Motor Reset
			88-90	NO FUNCTION
			91-93	NO FUNCTION
			94-96	NO FUNCTION
			97-99	NO FUNCTION
			100-119	Internal Program 1 (scene1~8 of EEPROM)
			120-139	Internal Program 2 (scene9~16 of EEPROM)
			140-159	Internal Program 3 (scene17~24 of EEPROM)
			160-179	Internal Program 4 (scene25~32 of EEPROM)
			180-199	Internal Program 5 (scene33~40 of EEPROM)
			200-219	Internal Program 6 (scene41~48 of EEPROM)
220-239	Internal Program 7 (scene49~56 of EEPROM)			
240-255	NO FUNCTION			

## ERROR CODES

When power is applied, the unit will automatically enter a **“Motor Reset”** mode, which brings all the internal motors to a home position. If there is an internal problem with one or more of the motors, an error code (see below) will flash on the control display.

ELATION© ACL 360 BAR™ ERROR CODES	
Specifications and features are subject to change without any prior written notice.	
ERROR CODE	DESCRIPTION
<b>TILT Er</b>	The TILT movement is not located in the default position after the reset. This message will appear after a fixture reset if the magnetic-indexing circuit malfunctions (sensor failed or magnet is missing) or there is a motor failure (defective motor or defective motor IC drive on main PCB). This error may also be displayed if the head was blocked during a reset function
<b>PAN Er</b>	The PAN movement is not located in the default position after the reset. This message will appear after a fixture reset if the magnetic-indexing circuit malfunctions (sensor failed or magnet is missing) or there is a motor failure (defective motor or a defective motor IC drive on the main PCB). This error may also be displayed if the head/yoke was blocked during a reset function.

## CLEANING AND MAINTENANCE



**C A U T I O N**

**Disconnect power before cleaning or maintenance.**

### CLEANING

Frequent cleaning is recommended to insure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics.

- Clean the external lens surface at least every 20 days with a soft cloth to avoid dirt/debris accumulation.
- Never use alcohol, solvents, or ammonia based cleaners.

### MAINTENANCE

Regular inspections are recommended to insure proper function and extended life. There are no user serviceable parts inside this fixture, please refer all other service issues to an authorized Elation service technician. Should you need any spare parts, please order genuine parts from your local Elation dealer.

Please refer to the following points during routine inspections:

- A detailed electric check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation resulting in damage or injury as larger parts could fall.
- Check for any deformations on the housing, color lenses, rigging hardware and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).
- Electric power supply cables must not show any damage, material fatigue or sediments. Never remove the ground prong from the power cable.

## TECHNICAL SPECIFICATIONS

### SOURCE

(7) 15W RGBW 4-in-1 LEDs  
100,000 Hour Average Lamp Life\*

\*May vary depending on several factors including but not limited to:  
Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling), Control, and Dimming.

### EFFECTS

Individual Pixel Control  
Strobe and Selectable Dimming Curves

### COLOR

RGBW

### CONTROL / CONNECTIONS

(6) DMX Channel Modes (17 / 19 / 43) (20 / 18 / 44)  
RDM (Remote Device Management)  
6 Button Touch Control Panel  
Full Color 180° Reversible LCD Menu Display  
8 / 16 Bit Resolution Adjustable Movement  
3pin/5pin DMX In/Out  
RJ45 Ethernet In/Out (KlingNET™ / Art-NET)  
Power In/Out

### SIZE / WEIGHT

Length: 22.6" (575mm)  
Width: 7.2" (184mm)  
Vertical Height: 10.2" (258mm)  
Weight: 22.0 lbs. (10 kg)

### ELECTRICAL / THERMAL

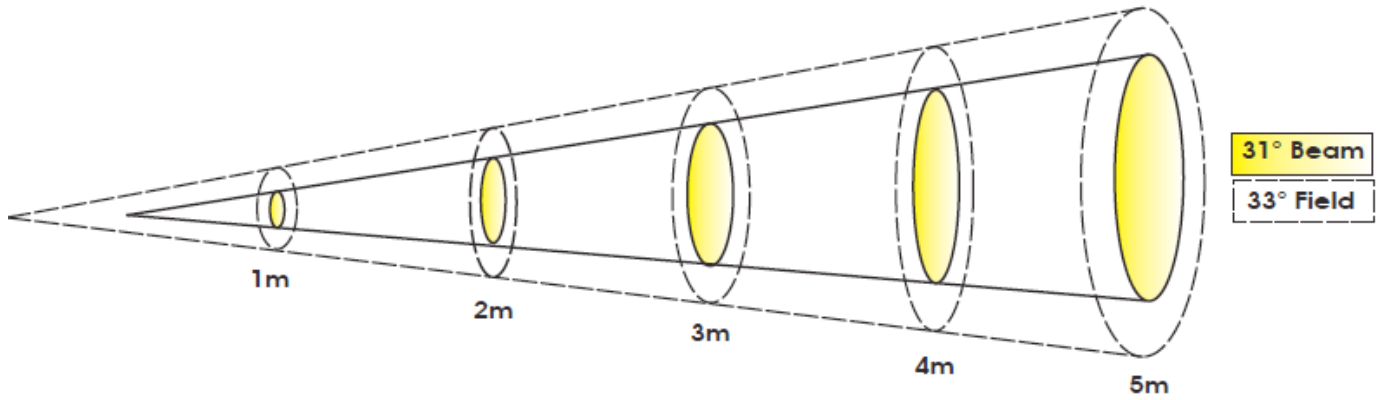
AC 100-240V - 50/60Hz  
135W Max Power Consumption  
5F to 113°F (-15°C to 45°C)

### APPROVALS / RATINGS

CE | IP30

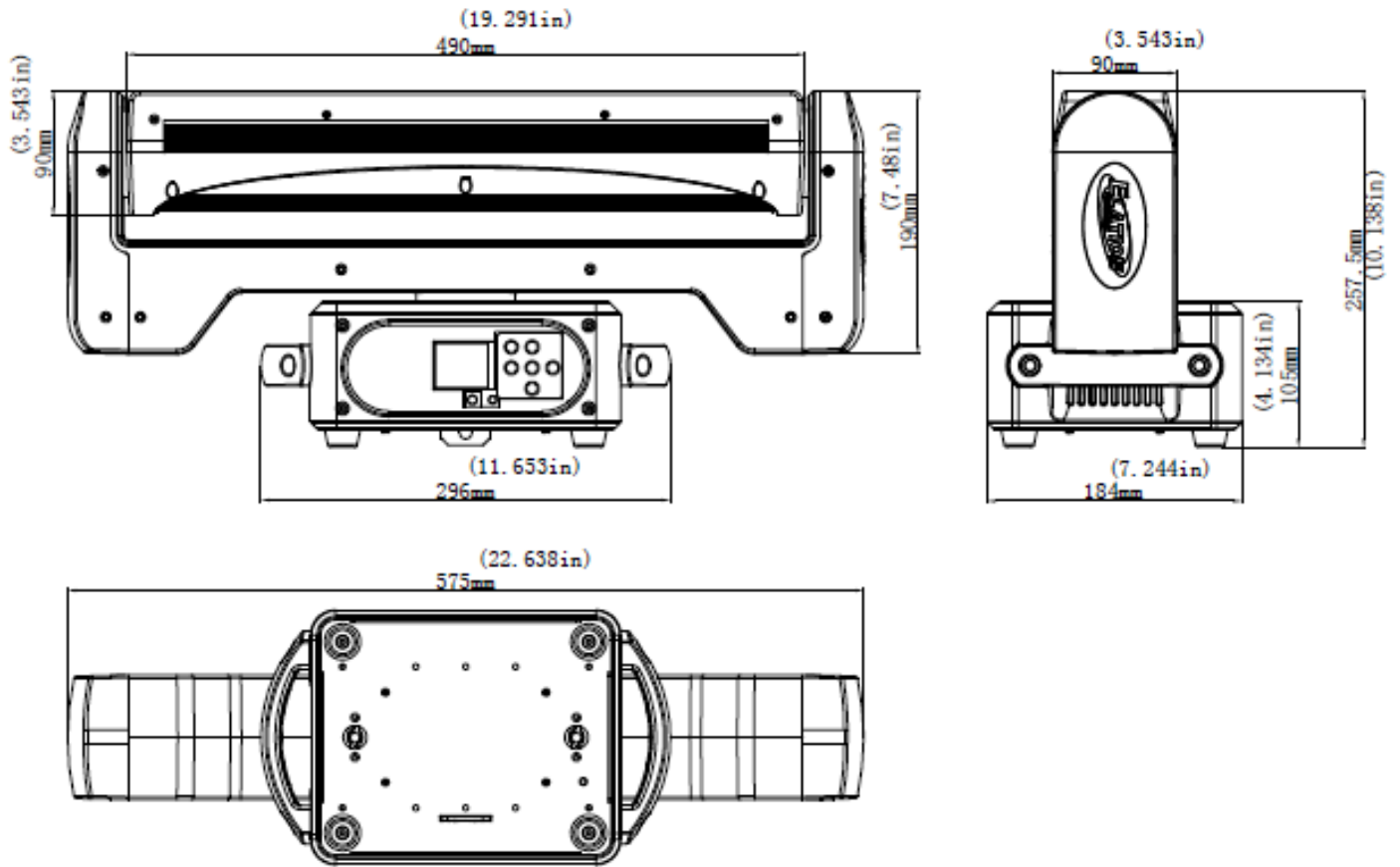
Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

## PHOTOMETRIC DATA



	1 m	3.3 ft	2 m	6.6 ft	3 m	9.8 ft	4 m	13.1 ft	5 m	16.4 ft
<b>31° Beam Diameter</b>	0.53	1.7	1.08	3.5	1.61	5.3	2.15	7.1	2.68	8.8
<b>33° Field Diameter</b>	0.58	1.9	1.14	3.7	1.62	5.3	2.21	7.3	2.75	9.0
	<b>lux</b>	<b>fc</b>	<b>lux</b>	<b>fc</b>	<b>lux</b>	<b>fc</b>	<b>lux</b>	<b>fc</b>	<b>lux</b>	<b>fc</b>
<b>RED LEDs</b>	10,390	965	5,508	512	2,905	270	2,092	194	1,639	152
<b>GREEN LEDs</b>	16,970	1,577	10,550	980	5,740	533	4,119	383	3,053	284
<b>BLUE LEDs</b>	4,120	383	2,507	233	1,320	123	1,149	107	766	71
<b>WHITE LEDs</b>	28,150	2,615	14,750	1,370	7,516	698	5,789	538	3,584	333
<b>FULL ON</b>	44,440	4,128	25,260	2,347	15,430	1,433	10,960	1,018	8,081	751

**DIMENSIONAL DRAWINGS**



Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.



## OPTIONAL ACCESSORIES

ORDER CODE	ITEM
TRIGGER CLAMP	Heavy Duty Wrap Around Hook Style Clamp
DRC360BAR	ACL 360 BAR 4-Pack Road Case
CAT005	5' (1.5m) CAT6 Ethernet Cable
PLC3	3 ft. (1m) PRO Link Cable
AC3PDMX5PRO	5 ft. (1.5m) 3pin PRO DMX Cable
AC5PDMX5PRO	5 ft. (1.5m) 5pin PRO DMX Cable
	Additional Cable Lengths Available

