![Elation Professional logo]

Lumina Matrix
USER MANUAL

Elation Professional · Los Angeles, Ca 90040-3402 · www.elationlighting.com

Accessories(Included):

1. The unit power cable (x1) + Yoke Assembly (x1)
2. Axle Bush(x2) + L Type Hexagon Spanner(x1) + M10 Washer(x4)
3. M10*20 S Type Bakelite Screws(x2) + Belleville Washer(x2)
4. M6*12 Screw(x4) + M6*20 Screw(x2) + Profile gasket(x2)
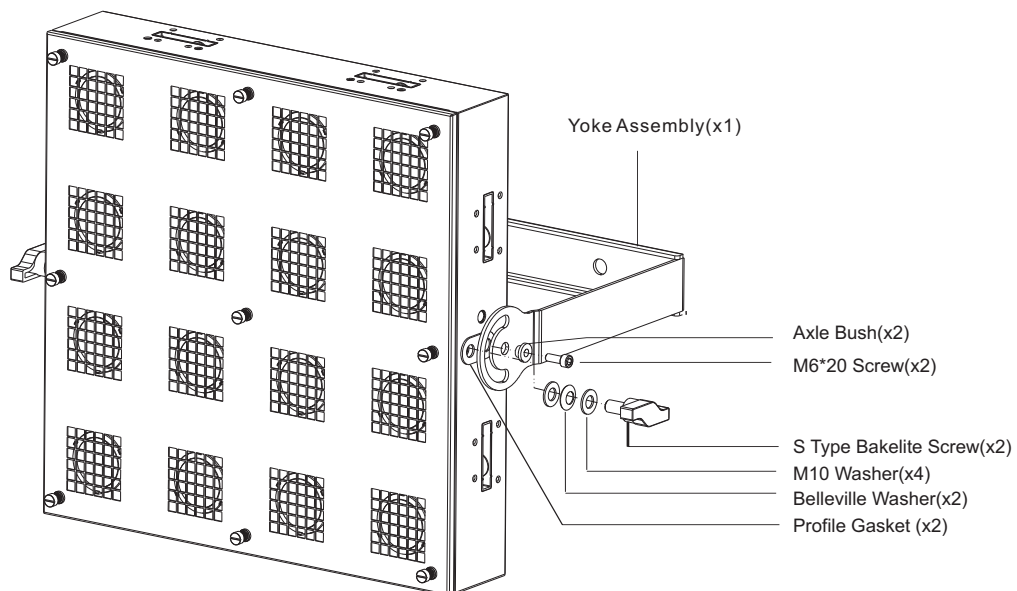
MAIN FEATURES

- 07, 08, 10, 14, 16, 22 DMX Channels selection

- Standard DMX 5-pin In/Out

- 48 built-in programs except for Auto subject to Speed and Dimmer

- 0-100% dimming level

- Standard DMX-512 protocol

- 01 Thru 100 Chase Speed adjustment

- Power failure memory

- LED display window-shows current activity and function state

- On/Off switch

- Fuse protection

INSTALLATION

Lumina Matrix LED is provided with the ability to hang via truss hooks, clamps, etc.(sold separately). Simply attach hook clamp, etc. to the Lumina Matrix LED's mounts in the provided M13 holes. Before use, make sure the screws are secured firmly.

Note :
Once this unit is for hanging application, it is required to use a safety rope (sold separately, which can hold at least 10 times the weight of the fixture) to ensure the mounting safety of the fixture by attached through the holder.

Yoke Assembly(x1)

Axle Bush(x2)
M6*20 Screw(x2)

S Type Bakelite Screw(x2)
M10 Washer(x4)
Belleville Washer(x2)
Profile Gasket (x2)

GENERAL INSTRUCTIONS

Thanks for your purchasing Elation Lumina Matrix LED lighting equipment, which is available in Warm White (WW) version. The Lumina Matrix LED is compatible of both DMX & RDM and with 16 channel LED intensity adjustable. Programs can be updated via RDM interface. It is available in master and slave control connection. It is easy for users to install and operate.

For the optimum operation and best performance, please read the instruction in this manual carefully and thoroughly.

WARNINGS

- To protect against high electric shock and injury to person, **DO NOT** open or dismantle the unit.

- After use, the front panel is extreme hot. Please wait at least 15 min. for absolute cool before touching it. Otherwise, it causes the result of burning.

- **NEVER** try to repair the unit yourself. Repair by unqualified people could cause damage or mis-operation.

- This device is not suitable for direct mounting on normally flammable surfaces. To keep a minimum 0.2m safety distance to any flammable materials.

- **DO NOT** make any inflammable liquids, water or metal objects enter the unit.

- This unit contains no user serviceable parts inside. This unit contains dangerous voltages, always remove the power plug from the wall socket before any service operation and when not in use for a long time.

- Earth connection is so essential.

- Stop using the unit immediately in the event of serious operation problems and either contact your local dealer for a check or contact us directly.

PHYSICAL DIMENSIONS
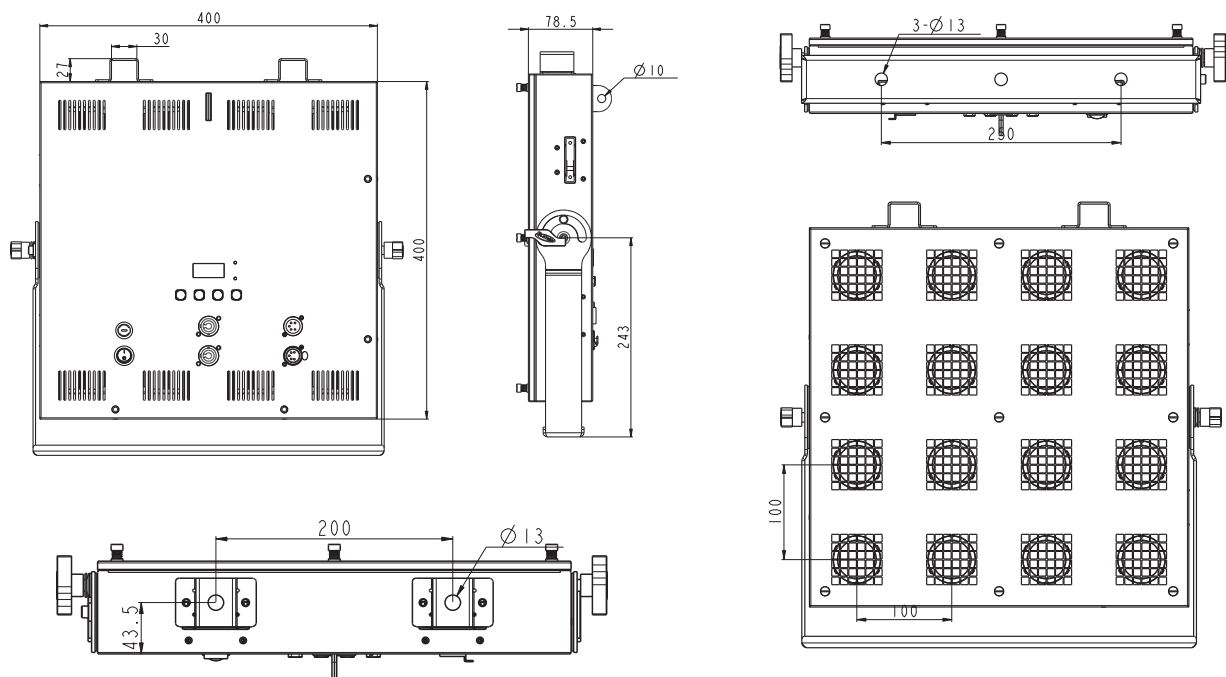
Hooks / Clamps
(sold separately)

Note:
Mounting hole in
mount is M13.

SAFETY CABLE: Is sold separately and recommended for all hanging installation and may be required by national and local codes. Use safety cable anchor points for safety cable attachment for this fixture.
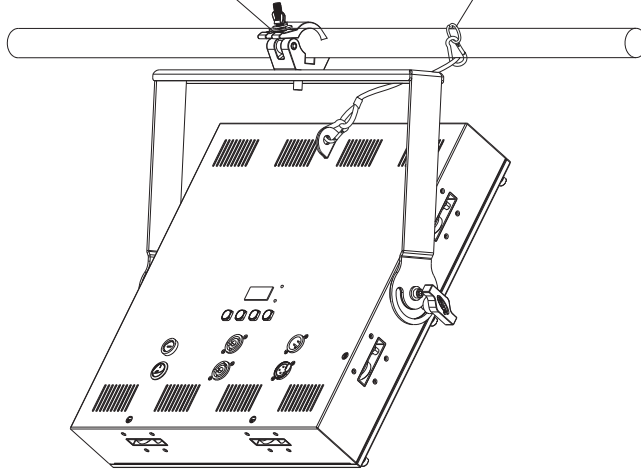
Multi-Lumina Matrix LEDs can be installed together for hanging application via a L type spanner(included). Line up the products side by side, then insert the L type spanner into the mounting hole on the back of the product, and then turn the L type spanner in clockwise, the products will be locked together. (see the illustrations as below)

WARNING! Never install over 5 units together in a vertical row. Or else, there will be overweight danger.
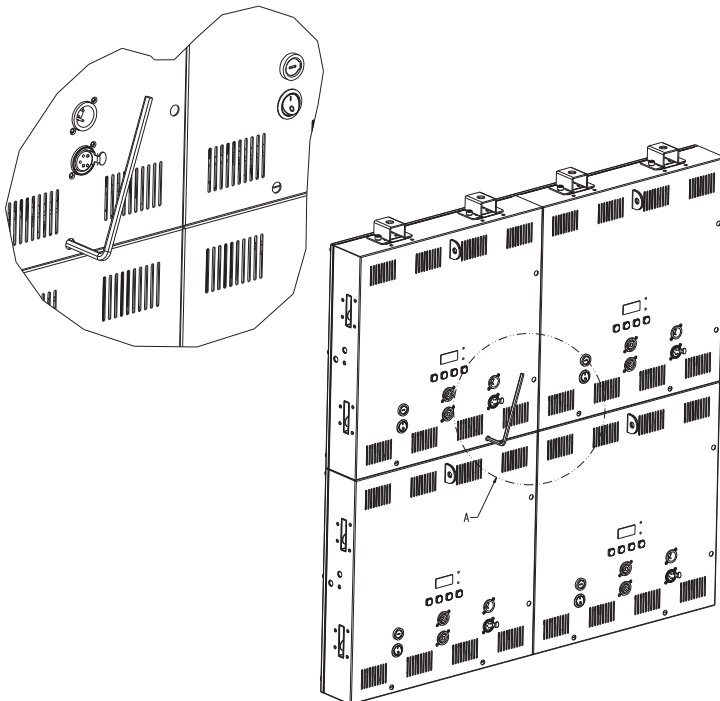
A

Lock Details

Fasten

SAFETY CABLE: Is sold separately and recommended for all hanging installation and may be required by national and local codes. Use safety cable anchor points for safety cable attachment for this fixture.
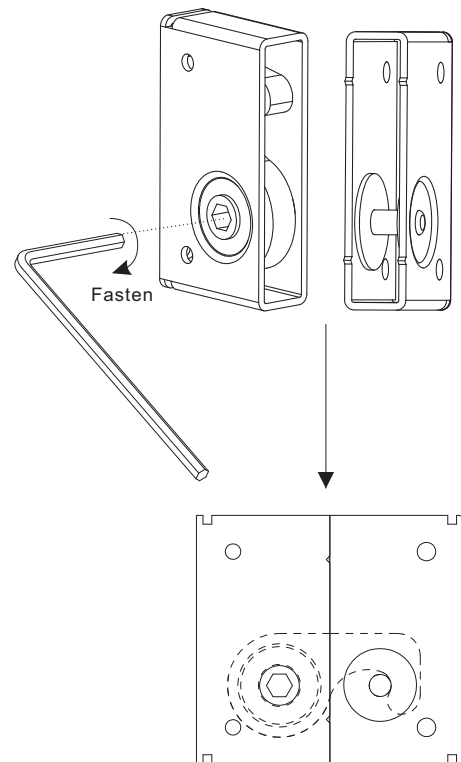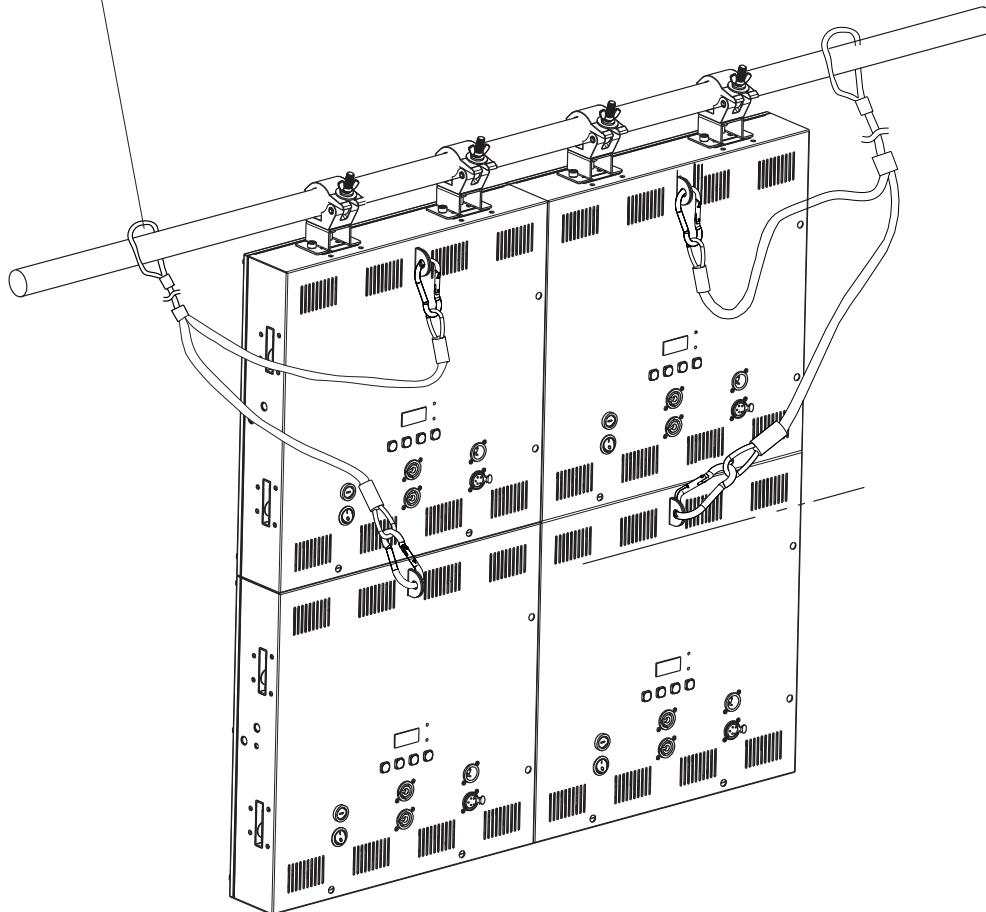
Power:

Before plugging your unit in, be sure the resource voltage in your area matches the unit required voltage. The unit is available in 100-240 VAC. Because the line voltage may vary from venue to venue, you should be sure to plug the socket into a matching wall outlet before attempting to operate your unit.

Fuses:

The Lumina Matrix LED electric system is protected by T3.15A 250V 5x20mm. Please see the printing on the case and these fuses prevent you from overloading damaging your unit. To replace the protective fuse, use a flat head screwdriver to unscrew the fuse holder. Pull out the old fuse and replace it with a new one. Insert the fuse back into the slot and tighten. Always replace with exact same type fuse removed unless otherwise specified by an authorized service technician,

SYSTEM CONNECTION

Maximum amount of this units that may be connected is 12pcs(AC100-120V) or 21pcs(220-240V). One universe DMX candrive up to 32pcs of Lumina Matrix LED, please add DMX booster if Lumina Matrix LEDs are connected together in line over 32pcs or data cable over 100M. the connections may be illuminated as following.

LCD DISPLAY/MENU SYSTEM

LCD Display —

POWER

RDM/DMX

— Power indicator

— RDM/DMX indicator

MODE MENU UP DOWN

Mode Key —

— Down Key

Menu Key Up Key
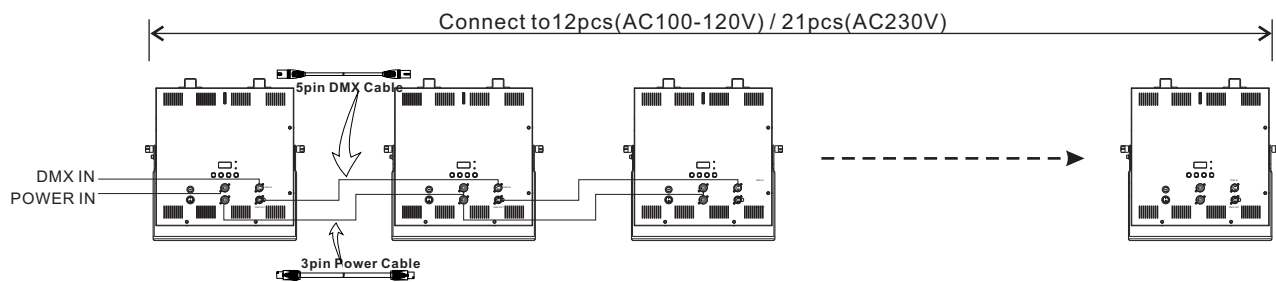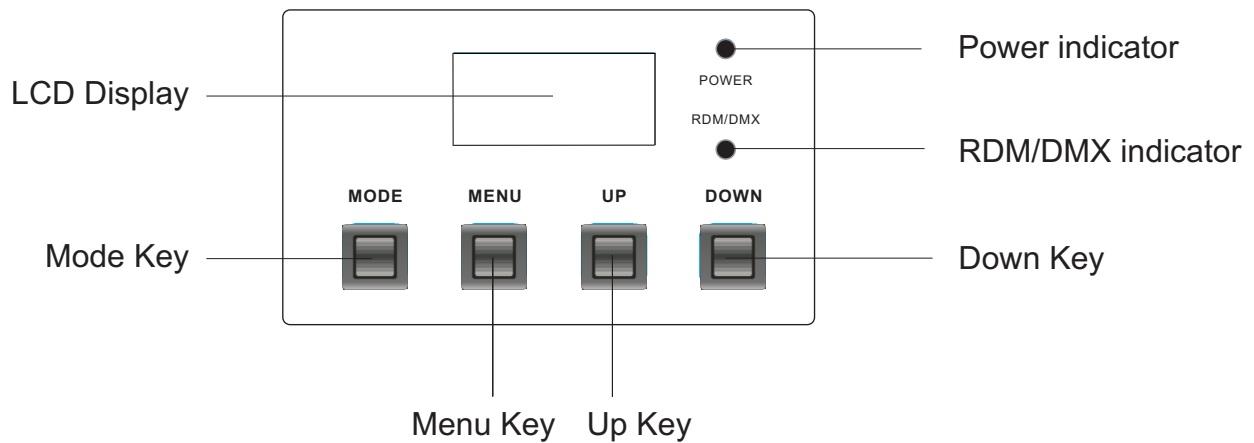
OPERATION MODES

The "Lumina Matrix LED" has two different operation modes. It can be used as a 07, 08, 10, 14, 16, 22 channel DMX dimmer. Tap "Mode" button to switch the operation mode between "DMX Control Mode" and "Built-in Program Mode". Please follow illustrations below to operate the unit in your desired mode.

Mode	Parameter	Parameter Value	Function
DMX	Address	001-512	To set the initial DMX receiving address
	Channel	07/08/10/14/16/22	To set the DMX Control Mode
	No DMX	OFF/Hold/Program	To set the status of the fixture when no DMX signal input
	Glide	OFF/ON	To set the output of the DMX Data
Program	Program	01--48/AUTO	To select a built-in program
	Speed	01-100	To set the speed level of the built-in Program
	Master	00-100	To set the intensity
	Lamp Mode	Tungsten/LED	To set the mode of Lamp
	Fade Time	00-100	To set the speed of the Fadetime

DMX Mode

Use this operation mode only when you are about to use the unit as a DMX dimmer. This function can allow you set your unit dimmer function as a 07, 08, 10,14, 16 or 22 channel DMX dimmer and DMX address.

DMX Channel Functions Details

DMX Channel	10 Channel Mode	8 Channel Mode	7 Channel
1	LED 1-LED4 Dimmer	LED 1-LED8 Dimmer	LED 1-LED16 Dimmer
2	LED 5-LED8 Dimmer	LED 9-LED16 Dimmer	Program
3	LED 9-LED12 Dimmer	Program	Speed
4	LED 13-LED16 Dimmer	Speed	FadeTime
5	Program	FadeTime	LampMode
6	Speed	LampMode	Play Mode
7	FadeTime	Play Mode	Master
8	Lamp Mode	Master	
9	Play Mode		
10	Master		

DMX Channel	22 Channel Mode	16 Channel Mode	14 Channel Mode
1	LED1 Dimmer	LED1 Dimmer	LED1-LED2 Dimmer
2	LED2 Dimmer	LED2 Dimmer	LED3-LED4 Dimmer
3	LED3Dimmer	LED3Dimmer	LED5-LED6 Dimmer
4	LED4 Dimmer	LED4 Dimmer	LED7-LED8 Dimmer
5	LED5 Dimmer	LED5 Dimmer	LED9-LED10 Dimmer
6	LED6 Dimmer	LED6 Dimmer	LED11-LED12 Dimmer
7	LED7 Dimmer	LED7 Dimmer	LED13-LED14 Dimmer
8	LED8 Dimmer	LED8 Dimmer	LED15-LED16 Dimmer
9	LED9 Dimmer	LED9 Dimmer	Program
10	LED10 Dimmer	LED10 Dimmer	Speed
11	LED11 Dimmer	LED11 Dimmer	Fade Time
12	LED12 Dimmer	LED12 Dimmer	Lamp Mode
13	LED13 Dimmer	LED13 Dimmer	Play Mode
14	LED14 Dimmer	LED14 Dimmer	Master
15	LED15 Dimmer	LED15 Dimmer	
16	LED16 Dimmer	LED16 Dimmer	
17	Program		
18	Speed		
19	Fade Time		
20	Lamp Mode		
21	Play Mode		
22	Master		

Program Mode:

The unit has 48 built-in programs except for Auto. Of course, you can select any of these programs to chase for a more dramatic lighting show, and you can also control the speed at which the set programs will be chased.

1. **Setting your desired Chase Program:**

    Once you have activated the Chase Mode, you can tap the "MENU" button to select and activate "Chase Program" menu. The chase pattern is displayed in the LCD by "Program " followed by two digits 01~48 or only "AUTO" appears. You can tap "UP" and "DOWN" button to select any of them to run at a single time.
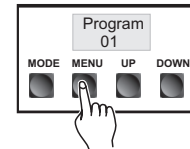
    Selecting any program of Program01-48 will activate the selected program; while selecting "Auto" will automatically play the built-in 48 chase programs.
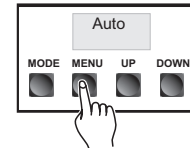
2. **Chase Speed Menu:**

    Press "MENU' button to select and activate "Chase Speed" menu. In this menu, you can adjust the program chase speed.

    Use the "UP " and "DOWN" buttons to adjust the chase speed from 001 thru 100. A set value of 100 will give you the fastest chase speed(approx.1/10th of a second) . While a set value of 001 will give you the slowest chase speed (once every 30 second.).
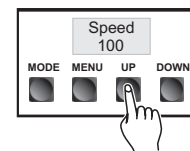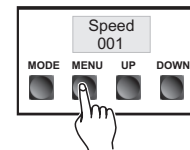
3. **Master (Intensity) Menu:**

    To adjust the output intensity, you must activate the Chase Dimmer Menu as the previous step. Press "MENU" button and select "Chase Dimmer" menu, the LCD will display "Dimmer" followed by three digits.

    Use the "UP" and "DOWN " buttons to adjust the light output intensity between 000 ~ 100. A set value of 000 will give you the weakest output intensity and a set value of 100 will give you the full intensity.
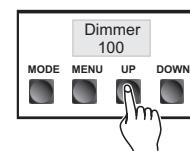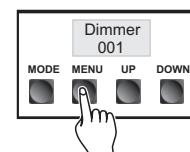
4. Lamp Mode Menu:

Press "MENU" button and select "Lamp Mode" menu, the LCD will
display "LampMode Tungdten", user can press "UP" or "DOWN" button
to switch to "LampMode LED" menu.
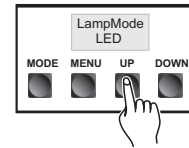
5. Fade Time Menu:

Press "MENU" button and select "Fade Time" menu, the LCD will
display "FadeTime" followed by three digits, user can press "UP"
or "DOWN" button set the desired Fade time value from 000 to 100.
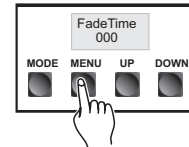
Channel Parameter details :

Parameters	Functions
LED Dimmer	DMX value 0---100% equal to intensity 0---100%
Program	DMX 0 --3 for local DMX Dimmer Mode
	DMX 4 --7 Program 1
	DMX 8 --11 Program2
	DMX 12 --15 Program3
	DMX 16 --19 Program4
	…
	DMX 192 --195 Program48
	DMX 196 --255 Auto
Speed	The bigger DMX value is, the faster the Programe runs
FadeTime	DMX value 0---100% equals to FadeTime 0---100%
LampMode	DMX 0 -- 127 for choosing the work mode of the LED
	DMX 128--255 for choosing Tungsten
Play Mode	DMX 0--80 to stop the Program
	DMX 81 --160 to pause the Program
	DMX 161--255 to play the Program
Master	DMX value 0--- 100% equals to Program intensity 0---100%

1. Selecting DMX Address

Press "MENU" button and select DMX channel address menu after having
activated the Receive Mode. The DMX Address Mode is indicated by
"Address" followed by three digits 001~ 512. You can tap the "UP" and
"DOWN" buttons to change the DMX Address Value.
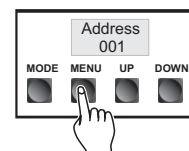
Note: There is no DMX input in the master unit of the connection.

2. Selecting the DMX Channel

Press "MENU" button and select Channel Mode. The Channel Mode is
indicated by "Channel" followed by two digits 07,08, 10, 14, 16, 22. You can
tap the "UP" and "DOWN" buttons to change the setting from 07, 08, 10,14
16 or 22 which you wish to run.
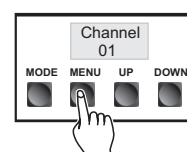
NOTE:

1. When CH:07 is displayed, overall channels will be controlled by DMX channel 1, and the DMX2~7 will control to run a 1~48 sequential program.

2. When CH:08 is displayed, channel 1~8 will be controlled by DMX channel 1, channel 9~16 will be controlled by DMX channel 2. The DMX channel 3~8 will control to run a 1~48 sequential program.

3. When CH:10 is displayed, channel 1~4 will be controlled by DMX channel 1, channel 5~8 will be controlled by DMX channel 2, the rest will be deduced by analogy... and channel 13~16 will be controlled by DMX channel 4. The DMX channel 5~10 will control to run a 1~48 sequential program.

4. When CH:14 is displayed, channel 1~2 will be controlled by DMX channel 1, channel 3~4 will be controlled by DMX channel 2, channel 5~6 will be controlled by DMX channel 3, the rest can be deduced by analogy ... and channel 15~16 will be controlled by DMX channel 8. The DMX channel 9~14 will control to run a 1~48 sequential program.

5. When CH:16 is displayed, each channel will be controlled by one DMX channel. This is the factory default setting.

6. When CH:22 is displayed, DMX channel1~16 will control the LED, and the DMX channel 17~22 will control to run a 1~48 sequential program.

Lumina Matrix LED RDM Parameter IDs

The following tables outline and describe all the RDM parameters IDs associated with Lumina Matrix LED.

Table 1: Lumina Matrix LED RDM Parameter IDs

Lumina Matrix					
UID					
MSB of ESTA 22H	*LSB of ESTA A6H*	*MSB of Unique Seq.*	*LSB of Unique Seq.*	*MSB of Unique Seq.*	*LSB of Unique Seq.*
Model ID		*0x7001*	**Product Category**		*0x0509*
Manufacturer		Elation Lighting			
Model Description		Lumina Matrix			
Supported PIDs					
Get Allowed	**SET Allowed**	**RDM Parameter ID's**	**Value**	**Comment**	**Implemented**
Category – Network Management					
		DISC_UNIQUE_BRANCH	0x0001		✓
		DISC_MUTE	0x0002		✓
		DISC_UN_MUTE	0x0003		✓
✓		PROXIED_DEVICES	0x0010		
✓		PROXIED_DEVICE_COUNT	0x0011		
✓	✓	COMMS_STATUS	0x0015		

Table 1: Lumina Matrix LED RDM Parameter IDs

Get Allowed	SET Allowed	RDM Parameter ID's	Value	Comment	Implemented
		Category - Status Collection			
✓		QUEUED_MESSAGE	0x0020		✓
✓		STATUS_MESSAGES	0x0030		✓
✓		STATUS_ID_DESCRIPTION	0x0031		✓
	✓	CLEAR_STATUS_ID	0x0032		✓
✓	✓	SUB_DEVICE_STATUS_REPORT_THRESHOLD	0x0033		
		Category - RDM Information			
✓		SUPPORTED_PARAMETERS	0x0050	* Support required only if supporting Parameters beyond the minimum required set.	✓
✓		PARAMETER_DESCRIPTION	0x0051	- Support required for Manufacturer-Specific PIDs exposed in SUPPORTED_ PARAMETERS message.	✓
		Category – Product Information			
✓		DEVICE_INFO	0x0060		✓
✓		PRODUCT_DETAIL_ID_LIST	0x0070		
✓		DEVICE_MODEL_DESCRIPTION	0x0080		✓
✓		MANUFACTURER_LABEL	0x0081		✓
✓	✓	DEVICE_LABEL	0x0082		✓
✓	✓	FACTORY_DEFAULTS	0x0090		✓
✓		LANGUAGE_CAPABILITIES	0x00A0		
✓	✓	LANGUAGE	0x00B0		
✓		SOFTWARE_VERSION_LABEL	0x00C0		✓
✓		BOOT_SOFTWARE_VERSION_ID	0x00C1		
✓		BOOT_SOFTWARE_VERSION_LABEL	0x00C2		
		Category - DMX512 Setup			
✓	✓	DMX_PERSONALITY	0x00E0		✓
✓		DMX_PERSONALITY_DESCRIPTION	0x00E1		✓
✓	✓	DMX_START_ADDRESS	0x00F0	* Required if device uses a DMX Slot	✓
✓		SLOT_INFO	0x0120		✓
✓		SLOT_DESCRIPTION	0x0121		✓
✓		DEFAULT_SLOT_VALUE	0x0122		
		Category – Sensors 0x02xx			
✓		SENSOR_DEFINITION	0x0200		
✓	✓	SENSOR_VALUE	0x0201		
	✓	RECORD_SENSORS	0x0202		
		Category – Dimmer Settings 0x03xx Future			
		Category – Power/Lamp Settings 0x04xx			
✓	✓	DEVICE_HOURS	0x0400		
✓	✓	LAMP_HOURS	0x0401		
✓	✓	LAMP_STRIKES	0x0402		
✓	✓	LAMP_STATE	0x0403		
✓	✓	LAMP_ON_MODE	0x0404		
✓	✓	DEVICE_POWER_CYCLES	0x0405		

Table 1: Lumina Matrix LED RDM Parameter IDs

Get Allowed	SET Allowed	RDM Parameter ID's	Value	Comment	Implemented
Category - Display Settings 0x05xx				
✓	✓	DISPLAY_INVERT	0x0500		
✓	✓	DISPLAY_LEVEL	0x0501		
Category – Configuration 0x06xx				
✓	✓	PAN_INVERT	0x0600		
✓	✓	TILT_INVERT	0x0601		
✓	✓	PAN_TILT_SWAP	0x0602		
✓	✓	REAL_TIME_CLOCK	0x0603		
Category – Control 0x10xx				
✓	✓	IDENTIFY_DEVICE	0x1000		✓
	✓	RESET_DEVICE	0x1001		
✓	✓	POWER_STATE	0x1010		
✓	✓	PERFORM_SELFTEST	0x1020		
✓		SELF_TEST_DESCRIPTION	0x1021		
	✓	CAPTURE_PRESET	0x1030		
✓	✓	PRESET_PLAYBACK	0x1031		

Table 2: Lumina Matrix LED Manufacturer Status IDs

Manufacturer Defined Status IDs				
Manufacturer Specific messages are in the range of 0x8000 —0xFFDF. Each Manufacturer-specific Status ID shall have a unique meaning, which shall be consistent across all products having a given Manufacturer ID. See Table B-2, ANSI E1.20-2010				
Status Message ID	Value	Data Value 1	Data Value 2	Status ID Description
8100H		00H	00H	ALL OK

Table 3: Lumina Matrix LED Manufacturer Specific PIDs

Manufacturer Specific PIDs									
Manufacturer Defind PIDs range is 0x8000-0xffdf. See Table A-3, ANSI E1.20-2010									
Get Allowed	SET Allowed	RDM Parameter ID's	TYPE	LENGTH	UNIT	PREFIX	MIN	MAX	DEFAULT	DESCRIPTION
✓	✓	8A08H	U8	1	NONE	NONE	0	48	0	Program
✓	✓	8A09H	U8	1	NONE	NONE	1	100	80	Speed
✓	✓	8A01H	U8	1	NONE	NONE	0	100	100	Master
✓	✓	8A42H	U8	1	NONE	NONE	0	1	1	Lamp mode
✓	✓	8A0BH	U8	1	NONE	NONE	0	100	100	FadeTime
✓	✓	8A0CH	U8	1	NONE	NONE	0	2	0	No DMX
✓	✓	8A0DH	U8	1	NONE	NONE	0	1	1	Glide

TECHNICAL SPECIFICATIONS

Power Thru/Input	AC100~240V, 50/60Hz
Light Source	Warm White LED Array
Beam Angle	15 Degrees
Color Temperature	2700K
Light Output	> 4,500 lm
IP Rating	IP20
Power Consumption	150W Max.
Weight	9.8Kg
Fuse	T3.15A 250V 5x20mm
Dimension	400(L)*460(W)*90(H)mm.

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

SOFTWARE UPDATE ADDS ADDITIONAL DMX CHANNEL MODES

MODE	MENU	DISPLAY
DMX	Address	001 - 512
	Channel	7 / 8 / 10 / 14 / 16 / 22 (8bit)
		8 / 10 / 14 / 22 / 38 (16bit)
	No DMX	OFF/Hold/Program
	Dim Mode	Standard/Stage/TV/Archi/Theatre
Program	Program	01-48 / Auto
	Speed	0 - 100
	Fade	0 - 100
	Master	0 - 100
Manual	Master	0 - 100
	LED 1-16	0 - 100
	All	0 -100

MENU MAP

DMX	Address	001--512
	Channel	7/8Bit
		8/8Bit
		10/8Bit
		14/8Bit
		16/8Bit
		22/8Bit
		8/16Bit
		10/16Bit
		14/16Bit
		16/16Bit
		22/16Bit
		38/16Bit
	No DMX	OFF/Hold/Program
	Dim Mode	Standard
		Stage
		TV
		Architectural
		Theatre
PROGRAM	Program	01--48/Auto
	Speed	01---100
	FadeTime	00-100
	Master	00-100
MANUAL	Master	00-100
	LED1	00-100
	LED2	00-100
	LED3	00-100
	LED4	00-100
	LED5	00-100
	LED6	00-100
	LED7	00-100
	LED8	00-100
	LED9	00-100
	LED10	00-100
	LED11	00-100
	LED12	00-100
	LED13	00-100
	LED14	00-100
	LED15	00-100
	LED16	00-100
	ALL	00-100

DMX MAP

DMX Channel	38/16Bit	22/16Bit	14/16Bit	10/16Bit	8/16Bit	22/8bit	16/8Bit	14/8Bit	10/8Bit	8/8Bit	7/8Bit
1	LED1(16bit)	LED1&2(16bit)	LED1&4(16bit)	LED1&8(16bit)	LED1&16(16bit)	LED 1	LED 1	LED 1&2	LED 1&4	LED 1&8	LED 1&16
2	LED1(16bit Fine)	LED1&2(16bit Fine)	LED1&4(16bit Fine)	LED1&8(16bit Fine)	LED1&16(16bit Fine)	LED 2	LED 2	LED 3&4	LED 5&8	LED 9&16	Master (16bit)
3	LED2(16bit)	LED3&4(16bit)	LED5&8(16bit)	LED9&16(16bit)	Master (16bit)	LED 3	LED 3	LED 5&6	LED 9&12	Master (16bit)	Master (16bit Fine)
4	LED2(16bit Fine)	LED3&4(16bit Fine)	LED5&8(16bit Fine)	LED9&16(16bit Fine)	Master (16bit Fine)	LED 4	LED 4	LED 7&8	LED 13&16	Master (16bit Fine)	Program
5	LED3(16bit)	LED5&6(16bit)	LED9&12(16bit)	Master (16bit)	Program	LED 5	LED 5	LED 9&10	Master (16bit)	Program	Program Speed
6	LED3(16bit Fine)	LED5&6(16bit Fine)	LED9&12(16bit Fine)	Master (16bit Fine)	Program Speed	LED 6	LED 6	LED 11&12	Master (16bit Fine)	Program Speed	Program FadeTime
7	LED4(16bit)	LED7&8(16bit)	LED13&16(16bit)	Program	Program FadeTime	LED 7	LED 7	LED 13&14	Program	Program FadeTime	Dim Mode
8	LED4(16bit Fine)	LED7&8(16bit Fine)	LED13&16(16bit Fine)	Program Speed	Dim Mode	LED 8	LED 8	LED 15&16	Program Speed	Dim Mode	
9	LED5(16bit)	LED9&10(16bit)	Master (16bit)	Program FadeTime		LED 9	LED 9	Master (16bit)	Program FadeTime		
10	LED5(16bit Fine)	LED9&10(16bit Fine)	Master (16bit Fine)	Dim Mode		LED 10	LED 10	Master (16bit Fine)	Dim Mode		
11	LED6(16bit)	LED11&12(16bit)	Program			LED 11	LED 11	Program			
12	LED6(16bit Fine)	LED11&12(16bit Fine)	Program Speed			LED 12	LED 12	Program Speed			
13	LED7(16bit)	LED13&14(16bit)	Program FadeTime			LED 13	LED 13	Program FadeTime			
14	LED7(16bit Fine)	LED13&14(16bit Fine)	Dim Mode			LED 14	LED 14	Dim Mode			
15	LED8(16bit)	LED15&16(16bit)				LED 15	LED 15				
16	LED8(16bit Fine)	LED15&16(16bit Fine)				LED 16	LED 16				
17	LED9(16bit)	Master (16bit)				Master (16bit)					
18	LED9(16bit Fine)	Master (16bit Fine)				Master (16bit Fine)					
19	LED10(16bit)	Program				Program					
20	LED10(16bit Fine)	Program Speed				Program Speed					
21	LED11(16bit)	Program FadeTime				Program FadeTime					
22	LED11(16bit Fine)	Dim Mode				Dim Mode					
23	LED12(16bit)										
24	LED12(16bit Fine)										
25	LED13(16bit)										
26	LED13(16bit Fine)										
27	LED14(16bit)										
28	LED14(16bit Fine)										
29	LED15(16bit)										
30	LED15(16bit Fine)										
31	LED16(16bit)										
32	LED16(16bit Fine)										
33	Master (16bit)										
34	Master (16bit Fine)										
35	Program										
36	Program Speed										
37	Program FadeTime										
38	Dim Mode										

7 Channel Configuration (8 Bit)

CH1	CH2	CH3	CH4	CH5	CH6	CH7	
LED 1-16	Master Dimmer	Master Dim Fine	Programs	Program Speed	Program Fade	Dim Mode	
0-255 (dim→ bright)	0-255 (dim→ bright)	16-bit 0-255 (dim→ bright)	0-255	0-255 (Slow→ Fast)	0-255 Less→ More)	Standard (dr 1)	0-20
						Stage (dr 2)	21-40
						TV (dr 3)	41-60
						Architectural (dr 4)	61-80
						Theatre (dr 5)	81-100
						Default to Unit Setting	101-255

8 Channel Configuration (8 Bit)

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	
LED 1-8	LED 9-16	Master Dimmer	Master Dim Fine	Programs	Program Speed	Program Fade	Dim Mode	
0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	16-bit 0-255 (dim→ bright)	0-255	0-255 (Slow→ Fast)	0-255 Less→ More)	Standard (dr 1)	0-20
							Stage (dr 2)	21-40
							TV (dr 3)	41-60
							Architectural (dr 4)	61-80
							Theatre (dr 5)	81-100
							Default to Unit Setting	101-255

10 Channel Configuration (8 Bit)

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	
LED 1-4	LED 5-8	LED 9-12	LED 13-16	Master Dimmer	Master Dim Fine	Programs	Program Speed	Program Fade	Dim Mode	
0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	16-bit 0-255 (dim→ bright)	0-255	0-255 (Slow→ Fast)	0-255 Less→ More)	Standard (dr 1)	0-20
									Stage (dr 2)	21-40
									TV (dr 3)	41-60
									Architectural (dr 4)	61-80
									Theatre (dr 5)	81-100
									Default to Unit Setting	101-255

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11	CH12	CH13	CH14	
LED 1-2	LED 3-4	LED 5-6	LED 7-8	LED 9-10	LED 11-12	LED 13-14	LED 15-16	Master Dimmer	Master Dim Fine	Programs	Program Speed	Program Fade	Dim Mode	
0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	16-bit 0-255 (dim→ bright)	0-255	0-255 (Slow→ Fast)	0-255 Less→ More)	Standard (dr 1)	0-20
													Stage (dr 2)	21-40
													TV (dr 3)	41-60
													Architectural (dr 4)	61-80
													Theatre (dr 5)	81-100
													Default to Unit Setting	101-255

16 Channel Configuration (8 Bit)

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11	CH12	CH13	CH14	CH15	CH16
LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12	LED13	LED14	LED15	LED16
0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11	CH12	CH13	CH14	CH15	CH16
LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12	LED13	LED14	LED15	LED16
0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)

CH17	CH18	CH19	CH20	CH21	CH22	
Master Dimmer	Master Dim Fine	Programs	Program Speed	Program Fade	Dim Mode	
0-255 (dim→ bright)	16-bit 0-255 (dim→ bright)	0-255	0-255 (Slow→ Fast)	0-255 (Less→ More)	Standard (dr 1)	0-20
					Stage (dr 2)	21-40
					TV (dr 3)	41-60
					Architectural (dr 4)	61-80
					Theatre (dr 5)	81-100
					Default to Unit Setting	101-255

8 Channel Configuration (16 Bit)

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	
LED 1&16 (16bit)	LED 1&16 (16bit Fine)	Master Dimmer	Master Dim Fine	Programs	Program Speed	Program Fade	Dim Mode	
0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	16-bit 0-255 (dim→ bright)	0-255	0-255 (Slow→ Fast)	0-255 Less→ More)	Standard (dr 1)	0-20
							Stage (dr 2)	21-40
							TV (dr 3)	41-60
							Architectural (dr 4)	61-80
							Theatre (dr 5)	81-100
							Default to Unit Setting	101-255

10 Channel Configuration (16 Bit)

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	
LED1&8 (16bit)	LED1&8 (16bit Fine)	LED9&16 (16bit)	LED9&16 (16bit Fine)	Master Dimmer	Master Dim Fine	Programs	Program Speed	Program Fade	Dim Mode	
0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	16-bit 0-255 (dim→ bright)	0-255	0-255 (Slow→ Fast)	0-255 Less→ More)	Standard (dr 1)	0-20
									Stage (dr 2)	21-40
									TV (dr 3)	41-60
									Architectural (dr 4)	61-80
									Theatre (dr 5)	81-100
									Default to Unit Setting	101-255

14 Channel Configuration (16 Bit)

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11	CH12	CH13	CH14	
LED1&4 (16bit)	LED1&4 (16bit Fine)	LED5&8 (16bit)	LED5&8 (16bit Fine)	LED9&12 (16bit)	LED9&12 (16bit Fine)	LED13&16 (16bit)	LED13&16 (16bit Fine)	Master Dimmer	Master Dim Fine	Programs	Program Speed	Program Fade	Dim Mode	
0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	16-bit 0-255 (dim→ bright)	0-255	0-255 (Slow→ Fast)	0-255 Less→ More)	Standard (dr 1)	0-20
													Stage (dr 2)	21-40
													TV (dr 3)	41-60
													Architectural (dr 4)	61-80
													Theatre (dr 5)	81-100
													Default to Unit Setting	101-255

22 Channel Configuration (16 Bit)

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11	CH12	CH13	CH14	CH15	CH16
LED1&2 (16bit)	LED1&2 (16bit Fine)	LED3&4 (16bit)	LED3&4 (16bit Fine)	LED5&6 (16bit)	LED5&6 (16bit Fine)	LED7&8 (16bit)	LED7&8 (16bit Fine)	LED9&10 (16bit)	LED9&10 (16bit Fine)	LED11&12 (16bit)	LED11&12 (16bit Fine)	LED13&14 (16bit)	LED13&14 (16bit Fine)	LED15&16 (16bit)	LED15&16 (16bit Fine)
0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)

CH17	CH18	CH19	CH20	CH21	CH22	
Master Dimmer	Master Dim Fine	Programs	Program Speed	Program Fade	Dim Mode	
0-255 (dim→ bright)	16-bit 0-255 (dim→ bright)	0-255	0-255 (Slow→ Fast)	0-255 Less→ More)	Standard (dr 1)	0-20
					Stage (dr 2)	21-40
					TV (dr 3)	41-60
					Architectural (dr 4)	61-80
					Theatre (dr 5)	81-100
					Default to Unit Setting	101-255

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11	CH12	CH13	CH14	CH15	CH16
LED1 (16bit)	LED1 (16bit Fine)	LED2 (16bit)	LED2 (16bit Fine)	LED3 (16bit)	LED3 (16bit Fine)	LED4 (16bit)	LED4 (16bit Fine)	LED5 (16bit)	LED5 (16bit Fine)	LED6 (16bit)	LED6 (16bit Fine)	LED7 (16bit)	LED7 (16bit Fine)	LED8 (16bit)	LED8 (16bit Fine)
0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)

CH17	CH18	CH19	CH20	CH21	CH22	CH23	CH24	CH25	CH26	CH27	CH28	CH29	CH30	CH31	CH32
LED9 (16bit)	LED9 (16bit Fine)	LED10 (16bit)	LED10 (16bit Fine)	LED11 (16bit)	LED11 (16bit Fine)	LED12 (16bit)	LED12 (16bit Fine)	LED13 (16bit)	LED13 (16bit Fine)	LED14 (16bit)	LED14 (16bit Fine)	LED15 (16bit)	LED15 (16bit Fine)	LED16 (16bit)	LED16 (16bit Fine)
0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)	0-255 (dim→ bright)

CH33	CH34	CH35	CH36	CH37	CH38	
Master Dimmer	Master Dim Fine	Programs	Program Speed	Program Fade	Dim Mode	
0-255 (dim→ bright)	16-bit 0-255 (dim→ bright)	0-255	0-255 (Slow→ Fast)	0-255 (Less→ More)	Standard (dr 1)	0-20
					Stage (dr 2)	21-40
					TV (dr 3)	41-60
					Architectural (dr 4)	61-80
					Theatre (dr 5)	81-100
					Default to Unit Setting	101-255

DIMMING CURVE MODES

DIMMER
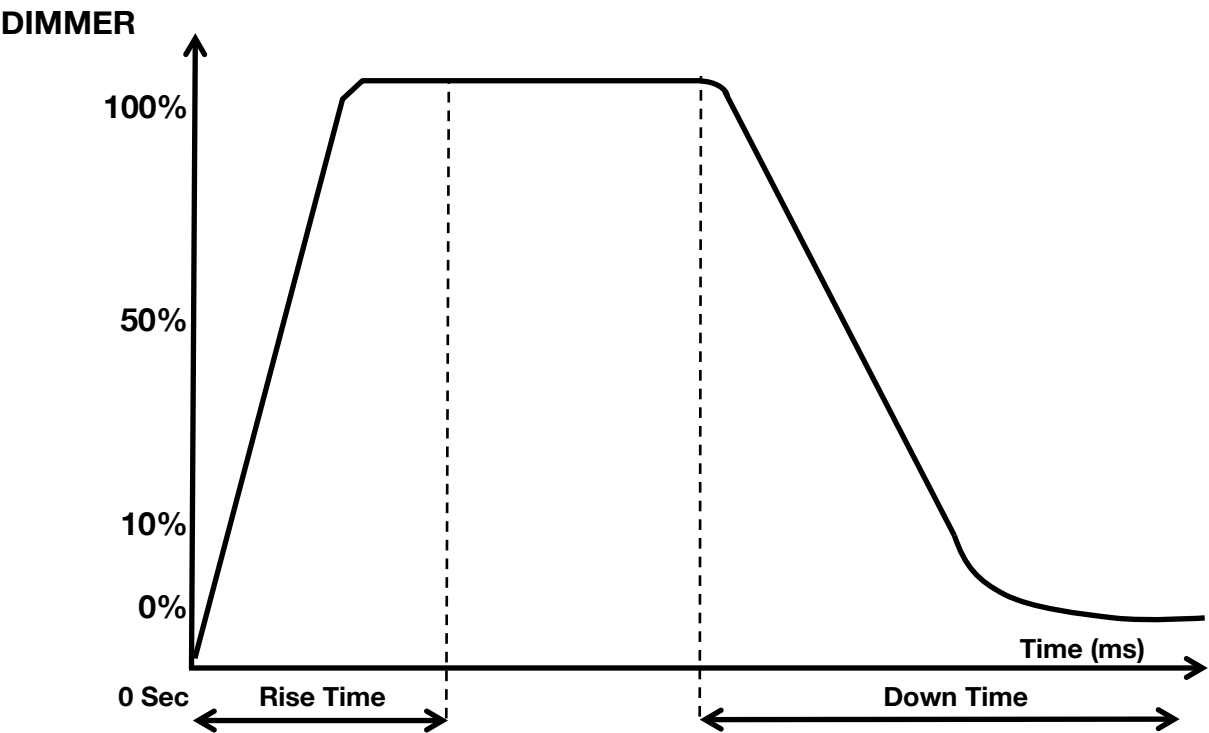
	0 sec Fade Time		1 sec Fade Time	
Dimming Curve Ramp Effect				
	Rise Time (ms)	**Down Time (ms)**	**Rise Time (ms)**	**Down Time (ms)**
Standard (default)	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural	1380	1730	2040	2120
Theatre	1580	1940	2230	2280