

LED PIXEL STROBE IP 65

EK 10000 STROBE



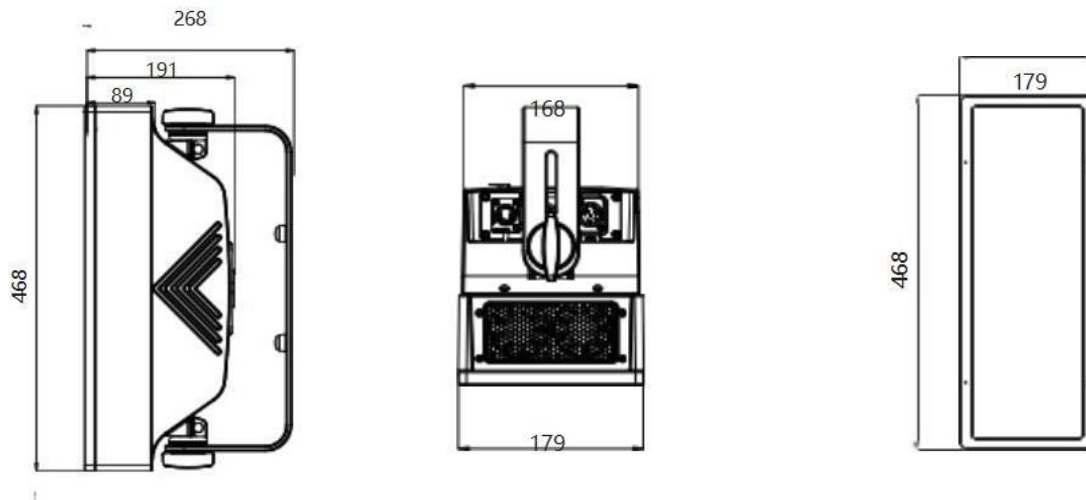
USER MANUAL

- **Safety Warning**

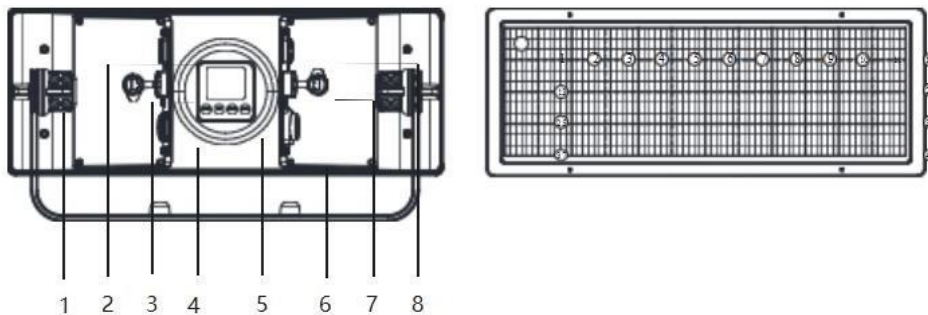


- **The products are packaged in good condition when leaving the factory. Please operate according to the user manual. Machine failures caused by human factors are not covered by the warranty.**
- **The light source in this lamp should be replaced by the manufacturer or its service agent or a similarly qualified person. If the external flexible cable or cord of this lamp is damaged, the cable should be replaced by a qualified person from the manufacturer or its service agent to avoid danger**
- **After receiving the light, please unpack it and check whether there is any damage caused by transportation. If there is any damage, do not use this lamp, and promptly contact the supplier or manufacturer.**
-
- **This product is suitable for indoor and outdoor use, and its protection level is IP65. Lamps should be kept clean to avoid using in humid or dusty environments. It should be maintained every three months.**
-
- **Only qualified professionals can carry out the installation, operation, and maintenance of lamps and ensure that they operate in strict accordance with the procedures described in this instruction.**
-
- **Light should be installed in a well ventilated place with a distance of at least 50cm from the wall, and the ventilation holes should be checked for smoothness. Do not look directly at the light source to avoid damage to the eyes.**
- **Please do not turn on the light for self maintenance.**
- **The parts for electrical connection must be operated by qualified installation personnel.**
- **If the rear cover of the lamp is equipped with a safety buckle or connection hole, for safety reasons, please use a safety rope to penetrate the connection hole for auxiliary lifting.**
- **After 10 minutes of full power operation, the surface temperature of the lamp should be approximately 40 degrees Celsius, and after stable operation, the surface temperature of the lamp should be approximately 70 degrees Celsius.**
- **There are no user serviceable components inside this lamp. Before starting to operate the lamp, please check whether all parts are properly connected and whether the screws are reliable and secure.**
- **If you have any questions or concerns, please contact the supplier or manufacturer in a timely manner and return the product with the original packaging stating the reason for the defect**

Dimensional drawings



Product Introduction

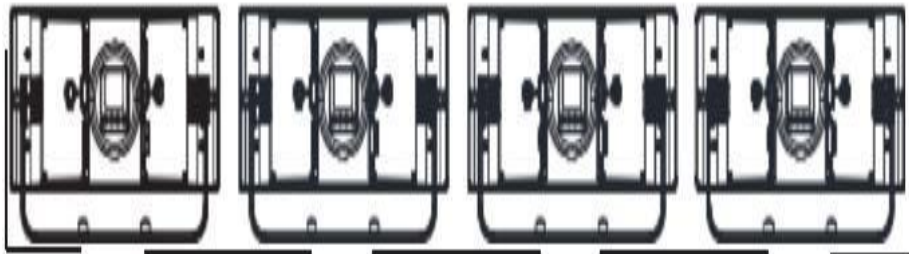
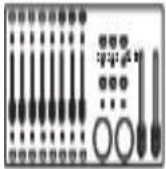


- **The 4-color LED is divided into 6 large blocks, each of which is further divided into small blocks, 1.Handle screw: used when adjusting or fixing the angle of the light**
- **DMX input: 3-core DMX waterproof signal line input**
- **ART-NET input: Connect network input**
- **Power input: waterproof POWER CON power cord Input voltage: 100-240V 50/60HZ**
- **Panel operation keys: mode, UP, Down, Enter; TFT 220 X 176 touch display**
- **Power output: waterproof POWER CON power connection line Output voltage: 100-240V 50/60HZ**
- **ART-NET output: Connect network output**
- **DMX output: 3-core DMX waterproof signal line output**

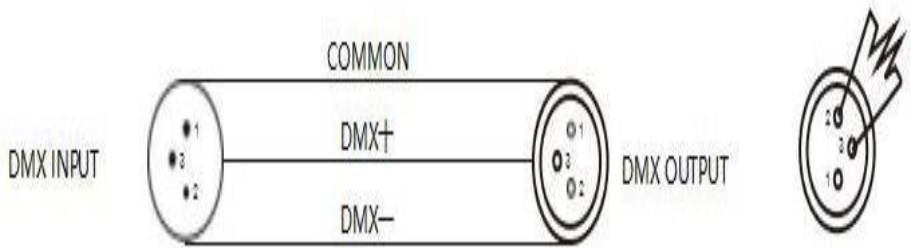
Description of display panel key

Function	Description	Function Description	function
MOD E KEY	Menu selection	Enter menu selection function	Menu Actions
UP KEY	UP	Go to previous option	Change parameter increase
DOWN KEY	DOWN	Go to the next option	Change parameter reduction
ENTER KEY	ENTER	Confirm the selected function	Save Last Parameters

DMX Connection



DMX Connection Instructions



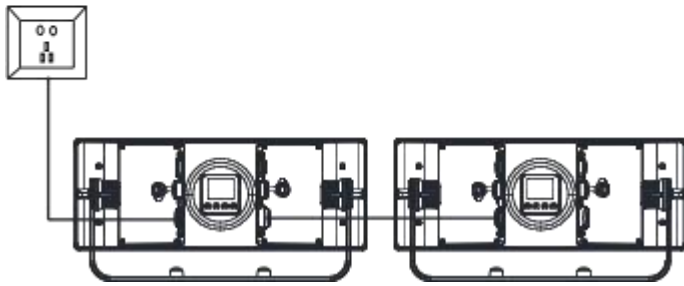
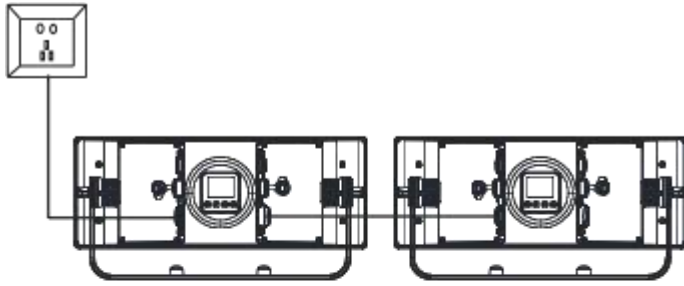
- To reduce signal errors and avoid signal attenuation and interference during transmission, a 120 ohm 1/4W resistor can be added between the 2 and 3 cores of the DMX output terminal of the last machine.
- Connect the lamp with an XLR signal line, with one end connected to the output port of the light and the other end connected to the input port of the next lamp. The signal line Can only be used in series, not in parallel. Because the DMX512 signal transmission speed is very fast, when the signal line is damaged, the welding joint is not secure Poorcontact, etc. can affect signal transmission and cause the system to shut down.
- When a unit's machine power supply is disconnected, the DMX output and input connections are bypassed to maintain the DMX line connection
- Each lamp must have an address code that can receive messages from the console.
- The terminals of the DMX512 system need to be equipped with a terminator to reduce signal transmission errors.

Relationship between address codes and channels in DMX 512

Channel	Address	Address of the first light	Address of the second light	Address of the third light
ADVANCED 1	001 -015	001	016	031

(Refer to the above figure) The number of lights added after the fourth set; The address code is deduced sequentially based on the channel .

Power connection instructions



Power In

Power Out

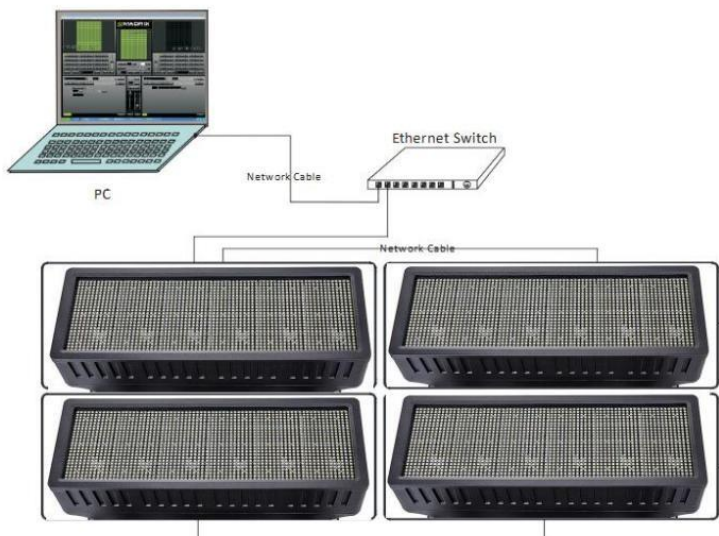


**This product uses Powercon in/out
Connect the power cord hand in
hand**

Note: Due to power reasons, a 1.5 square meter power cord can carry up to 2 sets (230V)

**Do not connect too many lights to a single power cord, or overload it.
Do not use a power cord with damaged insulation and do not lap the power cord over other wires.
Please unplug the power cord when the lamp is not in use or clean.
Do not vigorously plug or drag the power cord directly.**

Network Connection



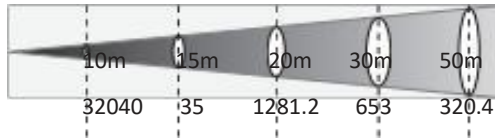
Technical parameter table

Optics	
light source	1728 RGBW LED
Beam angle	98°
wash angle	156°
Luminance	5-meter distance 1282 Lux (full on)
	180000 lm (Strobe instantaneous peak)
Effect	
colour mixture	RGBW
Pixel matrix	4 x 12
Strobe	0-30 Hz
Dimming	4 dimming curves
Power and data connections	
Power connection	IP65 power cord input/output
data connection	IP65 signal line input/output
Maximum number of connections	2 pcs /230V
Control	
Protocols	DMX, Artnet and RDM
DMX CH	STATIC 1PX ADVANCED 1 STROBE 2PX ADVANCED 2 PIXELS 3PX ADVANCED 3 RGBW STROBE 12PX ADVANCED 4 48PX
Built-in program	Yes
Display	TFT 220 x 176
Input voltage and power	
Input voltage and frequency	100 - 240 VAC, 50/60 Hz
Power	590W (full on)
	1500W (Strobe instantaneous peak)
Housing construction	
Housing	Die cast aluminum
surface treatment	Black Matte
IP protection level	IP65
temperature	
heat radiation	Variable speed heat dissipation motor
ambient temperature	-20°C ~ 40°C

Technical parameter table

physical characteristics	
Protection level	IP65
measurement	468 x 179 x 268 mm
Weight	15 KG
Spare parts	
power cord	Included (IP65 PowerKon)
Floor stander	Optional
Flight case	Optional

IL luminance chart



Beam Angle::
98° FULL on

Project
Distance(m)
luminance(lux)

Beam angle : 45°	Spot diameter	ø229.37c m	ø688.1cm	ø1146.84c m	ø1605.57c m	ø2293.67c m
(Lux)	Test distance	1m	3m	5m	7m	10m
Full on large angle test luminance (C700)	R	3339	371	113.6	68	33.4
	G	22590	2510	903.6	461	226
	B	1620	180	64.8	33	16.2
	W	17784	1976	711.4	363	177.8
	ALL	32040	3560	1281.6	653	320.4

Menu Table

Menu(-)								
Main Menu	Menu level 2 DMX Address	Menu level 3 1-512	Menu level ...			Remark		
1	CONNECT	DMX Mode	STATIC			Default: BASIC RGBW STROBE		
			BASIC	STROBE	R =0~255		TO CHOOSE THE COLOR OF THE STROBE, NOT SELECTABLE WITH DMX	
					G =0~255			
					B =0~255			
					W =0~255			
			PIXELS	PIXELS			Default: 48PX	
				RGBW STROBE				
				1PX				
				2PX				
				3PX				
			ADVANCED	ADVANCED 1			Default: ADVANCED 3	
				ADVANCED 2				
				ADVANCED 3				
				ADVANCED 4				

			ADVANCE 3		
			ADVANCE 4		
Ethernet	Protocol	Only Art-Net (two different sets of device Artnet signals, default LTP)			Default:Only Art-net
		ArtNet+DMX (PIXELS(1/2/4/8/16/64PX) / ADVANCE(2/4)) Normal control is only possible when both sets of signals are valid simultaneously			
	Subnet	0-15			Default: 0
	Universe	0-15			Default: 0
	Start Channel	1-512			Default:1

			IP Address	2/10.***.***.***				
			Ethernet ToDMX	NO Yes		Default: No		
			RDM ID	030F***** **				
		Temperature	°C			Default: °C		
		Unit	°F					
		Screen	Back Light	On		Default: 10S		
				10S				
				20S				
			Flip Display	No		Default: No		
		Yes		Exit Menu,UP+DOWN press 3S , Screen inversion				
		Key Lock	No		Default: No			
			Yes					
		Fixture	White Balance	Off	Default: Off, RGB W unclear value ;			
				Manual			Red	<125-255>
							Green	<125-255>
							Blue	<125-255>
			White		<125-255>			
		Dimmer Mode	Off		Default: Off			
			Dimmer 1					
			Dimmer 2					
			Dimmer 3					
		Fan mode	Auto		Default: Yes			
			High					
		Factory Reload	No		Default: No			
			Yes					
		Factory Reload	No		Default: No			
			Yes					
		Fixture Time	0-9999		Default: 0			
		Temperature	58 °C					

4	INFORMATION	re																									
		Fans Speed	**%																								
		Software Version	DISP-V1.0 CTR1-NET-V1.0 CTR2-LED-V1.0																								
5	Master/Slave	Master	Master/Slave		Default: Slave																						
		Slave																									
		Master/Slave	Master																								
			Slave																								
		Sequence	Show 1 Show 2 Show 3 Show 16 Show 17 Show 18 Show 19 Show 20 Show 21 Show 22 Show 23	<table border="1"> <tr> <td>Speed</td> <td>1-100</td> </tr> <tr> <td rowspan="15">Foreground</td> <td>Black</td> </tr> <tr> <td>R</td> </tr> <tr> <td>G</td> </tr> <tr> <td>B</td> </tr> <tr> <td>W</td> </tr> <tr> <td>GB</td> </tr> <tr> <td>RB</td> </tr> <tr> <td>RG</td> </tr> <tr> <td>RGB</td> </tr> <tr> <td>RW</td> </tr> <tr> <td>GW</td> </tr> <tr> <td>BW</td> </tr> <tr> <td>RGW</td> </tr> <tr> <td>RBW</td> </tr> <tr> <td>GBW</td> </tr> <tr> <td>RGBW</td> </tr> <tr> <td></td> <td>Black</td> </tr> <tr> <td></td> <td>R</td> </tr> </table>	Speed	1-100	Foreground	Black	R	G	B	W	GB	RB	RG	RGB	RW	GW	BW	RGW	RBW	GBW	RGBW		Black		R
Speed	1-100																										
Foreground	Black																										
	R																										
	G																										
	B																										
	W																										
	GB																										
	RB																										
	RG																										
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	BW																										
	RGW																										
	RBW																										
	GBW																										
RGBW																											
	Black																										
	R																										

STAND ALONE	Static	Fixed Color	Background		G	Default RGBW		
			R					
			G					
			B					
			W					
			GB					
			RB					
			RG					
			RGB					
			RW					
			GW					
			BW					
			RGW					
			RBW					
			GBW					
			RGBW					
			Manual Color	Red			<000-255>	Default RGBW=255
				Green			<000-255>	
	Blue			<000-255>				
	White			<000-255>				

LED direction: facing the machine, from left to right, from top to bottom, with the top left corner as the first piece .

Menu Description

- **CONNECT connection**
- **DMX Address (setting of address code)**
- **DMX mode: basic channel mode, pixel channel mode, extended channel mode**
- **Ethernet (network protocol setting):**
- **Protocol: Two network protocol control modes can be selected: (DMX and Ant net)**
- **Subnet**
- **Universe: 000-015 space settings can be set**
- **Start Channel: Setting the start address 001-512 .**
- **IP address: IP address: 2/10. * * . * . * * * * ***
- **Ethernet To DMX Network Connection DMX**

SETUP settings

(1) Temperature unit : F:Fahrenheit degree C:Celsius degree(2) Screen : (Setting of screen parameters)

- **Back Light** : Setting of screen backlight (can be set to stay on, or to turn off the screen in 10/20/30 seconds without operating the menu)
- **Flip Display** : Forward and reverse direction of screen menu subtitles
- **Key Lock** : Screen lock: When the screen appears and needs to be unlocked, please press: **UPDOWN** to repeat twice, and then press **Enter** to unlock (Fixture (Light p function setting)

1.white balance : White balance adjustment for uneven color mixing.

This menu allows you to adjust the desired effect

1. **dimmer mode** : This menu allows you to adjust the dimming modes (off,block, medium, and slow dimming speeds) that do not work in the four modes
2. **Fan Mode: Fan speed setting:** can be set to automatically accelerate or decelerate according to LED temperature, or can be set to operate at high speed

ADVANCED advanced setting

Factory Reload
Mapping Rotation

INFORMATION

1. Fixture Time(0-9999)

2. Temperature

3. Fan speed

4. Software Version

5. STAN ALONG

1. **Master/slave**
2. **sequence:** total 18 colors can be manually edited and played for the performance background
3. **Static :** Built-in fixed selection of 15 colors, and user-defined color selection

† . Basic Channel Mode Table

BASIC – STATIC				
Channel	Function	Value	Percent/Setting	Remark
1	Red	000-255	Red intensity	
2	Green	000-255	Green intensity	
3	Blue	000-255	Blue intensity	
4	White	000-255	White intensity	

BASIC - STROBE (color could be chosen by menu)				
Channel	Function	Value	Percent/Setting	Remark
1	DIMMER	000-005	Blackout	
		006-255	Minimum to maximum	
2	FLASH DURATION	000-255	15ms-990ms	
3	FLASH RATE	000-010	No Flash	
		011-255	Strobe slow to fast	
4	FLASH FX	000-002	No Effect	
		003-005	Static	If selected, the fixture will work as wash, only dimmer control.
		006-042	Ramp up	
		043-085	Ramp down	
		086-128	Ramp up-down	
		129-171	Random	
		172-214	Lightning	
		215-255	Spikes	

BASIC – PIXEL				
Channel	Function	Value	Percent/Setting	Remark
1	PIXEL 1 RED	000-255	Red intensity	
2	PIXEL 1 GREEN	000-255	Green intensity	
3	PIXEL 1 BLUE	000-255	Blue intensity	
4	PIXEL 1 WHITE	000-255	White intensity	
	...			
189	PIXEL 48 RED	000-255	Red intensity	
190	PIXEL 48 GREEN	000-255	Green intensity	
191	PIXEL 48 BLUE	000-255	Blue intensity	
192	PIXEL 48 WHITE	000-255	White intensity	

Channel	Function	Value	Percent/Setting	Remark
1	RED	000-255	Red intensity	
2	GREEN	000-255	Green intensity	
3	BLUE	000-255	Blue intensity	
4	WHITE	000-255	White intensity	
5	DIMMER	000-005	Blackout	
		006-255	Minimum to maximum	
6	FLASH DURATION	000-255	15ms-990ms	
7	FLASH RATE	000-010	No Flash	
		011-255	Strobe slow to fast	
		000-002	No Effect	
8	FLASH FX	003-005	Static	If selected, works as wash, only dimmer and color control.
		006-042	Ramp up	
		043-085	Ramp down	
		086-128	Ramp up-down	
		129-171	Random	
		172-214	Lightning	
		215-255	Spikes	

Pixel Channel Mode Table

PIXELS - PIXELS							
PIXEL MODE	DMX	Art-net+DMX		Function	Value	Percent/Setting	Remark
	Artnet	Artnet	DMX				
1	1	/	1	DIMMER	000-005	Blackout	
					006-255	Minimum to maximum	
	2	/	2	FLASH DURATION	000-255	15ms-990ms	
	3	/	3	FLASH RATE	000-010	No Flash	Single flash with ch 1
					011-255	Strobe slow to fast	
				000-002	No Effect		

4	/	4	FLASH FX	003-005 006-042 043-085 086-128 129-171 172-214 215-255	Static	If selected, the fixture will work as wash, only dimmer control.
					Ramp up	
					Ramp down	
					Ramp up-down	
					Random	
					Lightning	
					Spikes	
5	1	/	PIXEL 1	RED	000-255	Red intensity
6	2	/		GREEN	000-255	Green intensity
7	3	/		BLUE	000-255	Blue intensity
8	4	/		WHITE	000-255	White intensity

2	9	5	/	PIXEL 2	RED	000-255	Red intensity	
	10	6	/		GREEN	000-255	Green intensity	
	11	7	/		BLUE	000-255	Blue intensity	
	12	8	/		WHITE	000-255	White intensity	
3	13	9	/	PIXEL 3	RED	000-255	Red intensity	
	14	10	/		GREEN	000-255	Green intensity	
	15	11			BLUE	000-255	Blue intensity	
	16	12	/		WHITE	000-255	White intensity	
12	17	13	/	PIXEL 4	RED	000-255	Red intensity	
	18	14			GREEN	000-255	Green intensity	
	19	15	/		BLUE	000-255	Blue intensity	
	20	16	/		WHITE	000-255	White intensity	
	
	49	45	/	PIXEL L12	RED	000-255	Red intensity	
	50	46	/		GREEN	000-255	Green intensity	
	51	47	/		BLUE	000-255	Blue intensity	
52	48	/	WHITE		000-255	White intensity		
48	53	49	/	PIXEL L13	RED	000-255	Red intensity	
	54	50	/		GREEN	000-255	Green intensity	
	55	51	/		BLUE	000-255	Blue intensity	
	56	52	/		WHITE	000-255	White intensity	
	
	193	189	/	PIXEL L48	RED	000-255	Red intensity	
	194	190	/		GREEN	000-255	Green intensity	
	195	191	/		BLUE	000-255	Blue intensity	
196	192	/	WHITE		000-255	White intensity		

Extended Channel Mode Table 1

ADVANCED - ADVANCED 1				
Channel	Function	Value	Percent/Setting	Remark
1	FLASH DIMMER	000-255	Strobe dimmer	
2	FLASH STROBE	000-030	No flash/Closed	
		031-100	Strobe slow to fast	
		101-130	Open	
		131-200	Random strobe slow to fast	
		201-255	Open	
3	FLASH RED	000-255	Red intensity	
4	FLASH GREEN	000-255	Green intensity	
5	FLASH BLUE	000-255	Blue intensity	
6	FLASH WHITE	000-255	White intensity	
7	BG DIMMER	000-255	Strobe Dimmer	The background can only be lit when the foreground is strobe or running
8	BG STROBE	000-030	No flash/Closed	
		031-100	Strobe slow to fast	
		101-130	Open	
		131-200	Random strobe slow to fast	
		201-255	Open	
9	BG RED	000-255	Red intensity	
10	BG GREEN	000-255	Green intensity	
11	BG BLUE	000-255	Blue intensity	
12	BG WHITE	000-255	White intensity	
13	AUTO FX	000-010	No Function	
		011-015	FX 1	
		016-020	FX 2	
		021-025	FX 3	
		026-	FX 4	

		030		
		031-035	FX 5	
		036-040	FX 6	
		041-045	FX 7	
		046-050	FX 8	
		051-055	FX 9	
		056-060	FX 10	
		061-065	FX 11	
		066-070	FX 12	
		071-075	FX 13	
		076-080	FX 14	
		081-085	FX 15	
		086-090	FX 16	
		091-095	FX 17	
		096-100	FX 18	
		101-105	FX 19	
		106-110	FX 20	
		111-115	FX 21	
		116-120	FX 22	
		121-125	FX 23	
		126-205	RESERVED(TBD)	
		206-255	Random pixel(with density)	From 1 to 10 pixel, 1 more pixel every 5 steps
1 4	FX SPEED	000-050	Static indexing	
		051-255	From slow to fast	
1 5	DIMMER MODE	000-051	From MENU	
		052-101	Mode OFF	
		102-152	Mode 1	
		153-203	Mode 2	
		204-255	Mode 3	

ADVANCED - ADVANCED 2

DMX Artnet	Art-net+DMX		Function	Value	Percent/ Setting	Remark
	Artnet	DMX				
1	/	1	FLASH DIMMER	000-255	0-100%	
2	/	2	FLASH STROBE	000-030	No flash/Closed	
				031-100	Strobe slow to fast	
				101-130	Open	
				131-200	Random strobe slow to fast	
				201-255	Open	
3	/	3	BG DIMMER	000-255	Strobe Dimmer	
4	/	4	BG STROBE	000-030	No flash/Closed	
				031-100	Strobe slow to fast	
				101-130	Open	
				131-200	Random strobe slow to fast	
				201-255	Open	
5	/	5	BG RED	000-255	Red intensity	
6	/	6	BG GREEN	000-255	Green intensity	
7	/	7	BG BLUE	000-255	Blue intensity	
8	/	8	BG WHITE	000-255	White intensity	
				000-010	No Function	
				011-015	FX 1	
				016-020	FX 2	
				021-025	FX 3	
				026-030	FX 4	

Extended Channel Mode Table 2

9	/	9	AUTO FX	031-035	FX 5	
				036-040	FX 6	
				041-045	FX 7	
				046-050	FX 8	
				051-055	FX 9	
				056-060	FX 10	
				061-065	FX 11	
				066-070	FX 12	
				071-075	FX 13	
				076-080	FX 14	
				081-085	FX 15	
				086-090	FX 16	
				091-095	FX 17	
				096-100	FX 18	
				101-105	FX 19	
				106-110	FX 20	
				111-115	FX 21	
116-120	FX 22					
121-125	FX 23					
126-205	RESERVED(TBD)					
206-255	Random pixel(with density)	From 1 to 10 pixel, 1 more pixel every 5 steps				
10	/	10	FX SPEED	000-050	Static indexing	
				051-255	From slow to fast	
11	/	11	DIMMER MODE	000-051	From MENU	
				052-101	Mode OFF	
				102-152	Mode 1	
				153-203	Mode 2	
				204-255	Mode 3	
12	1	/	PIXEL 1 RED	000-255	Red intensity	
13	2	/	PIXEL 1 GREEN	000-255	Green intensity	13
14	3	/	PIXEL 1 BLUE	000-255	Blue intensity	14
15	4	/	PIXEL 1 WHITE	000-255	White intensity	15
...	...	/
200	189	/	PIXEL 48 RED	000-255	Red intensity	200
201	190	/	PIXEL 48 GREEN	000-255	Green intensity	201
202	191	/	PIXEL 48 BLUE	000-255	Blue intensity	202
203	192	/	PIXEL 48 WHITE	000-255	White intensity	203