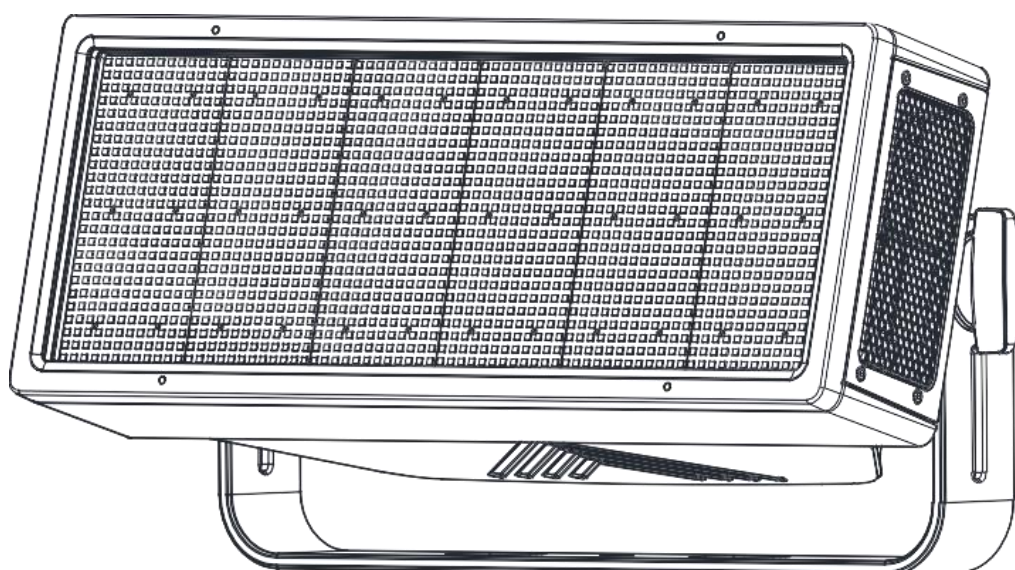


SHOWPRO EK



COLLIDER FC

USER MANUAL

1.3+ FIRMWARE

WARNING! Before carrying out any operations with the unit, carefully read this instruction manual and keep it with you for future reference. It contains important information about the installation, usage, and maintenance of the unit.

SAFETY

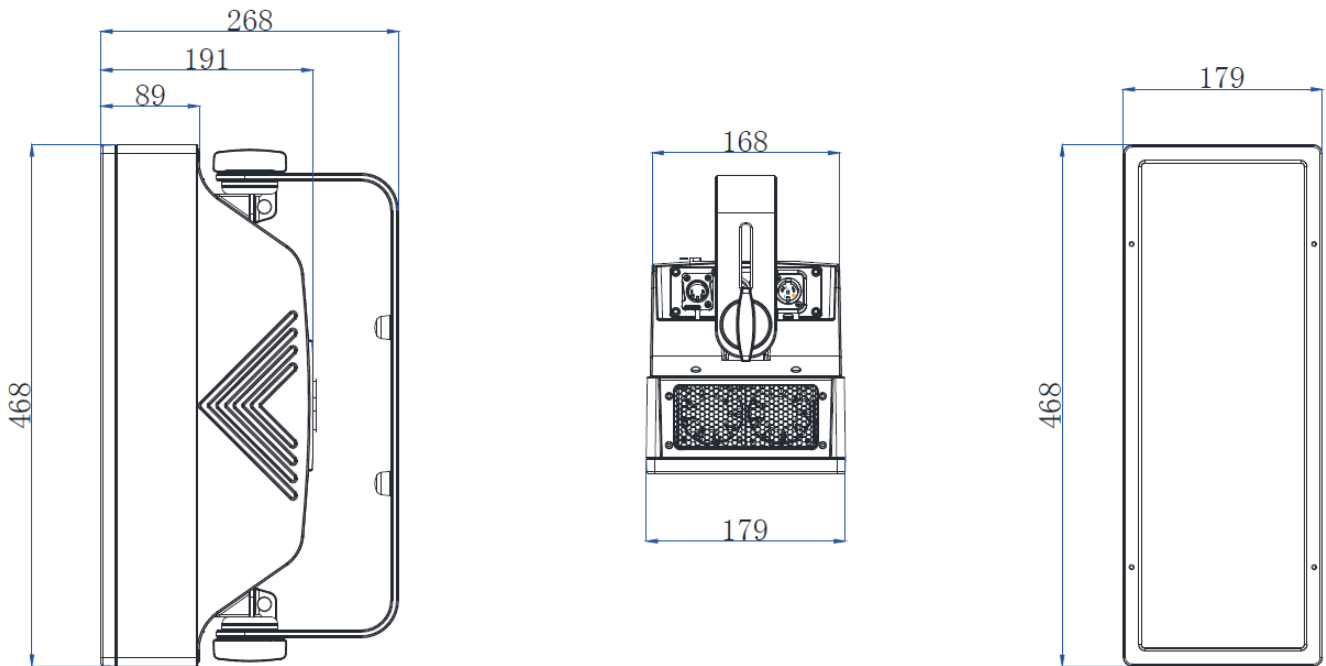
General instructions

- The products referred to in this manual conform to the European Community Directives and are therefore marked with CE.
- The unit is supplied with hazardous network voltage (230V~). Leave servicing to skilled personnel only. Never make any modifications on the unit not described in this instruction manual, otherwise you will risk an electric shock.
- Connection must be made to a power supply system fitted with efficient earthing (Class I appliance according to standard EN 60598-1). It is, moreover, recommended to protect the supply lines of the units from indirect contact and/or shorting to earth by using appropriately sized residual current devices.
- The connection to the mains network must be carried out by a qualified electrical installer. Check that the main frequency and voltage correspond to those for which the unit is designed as given on the electrical data label.
- The unit is not for home use, only professional applications.
- Never use the fixture under the following conditions:
 - In places subject to vibrations or bumps
 - In places with temperatures over 40°C
- Make certain that no flammable liquids, water, or metallic objects enter the fixture.
- Do not dismantle or modify the fixture.
- All work must be carried out by qualified technical personnel. Contact the nearest sales point for an inspection or contact the manufacturer directly.
- If the unit is to be put of operation definitively, take it to a local recycling plant for a disposal which is not harmful to the environment.

Warnings and installation precautions

- If this device will be operated in any way different to the one described in this manual, it may suffer damage and the warranty becomes void. Furthermore, any other operation may lead to dangers like short circuit, burns, electrical shock, etc.
- Before starting any maintenance or cleaning the fixture, cut off power from the main supply.
- Always additionally secure the fixture with a safety cable. When carrying out any work, always comply with all the regulations (particularly regarding safety) currently in force in the country in which the fixture is being used.
- Install the fixture in a well-ventilated place.
- Keep any flammable material at a safe distance from the fixture.
- Shields, lenses, or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.
- Never look directly at the light beam. Please note that flashing lights, may trigger epileptic seizures in photosensitive persons or persons with epilepsy.
- Do not touch the product's housing when operating because it may be very hot.

DIMENSIONS



DESCRIPTION

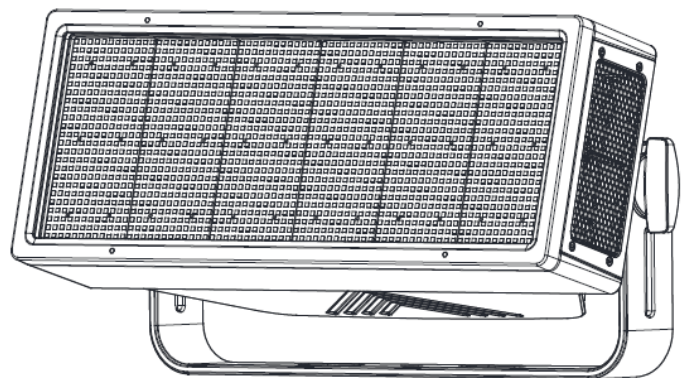
The most powerful RGBW pixel-mappable LED strobe on the planet

Harness the stunning kinetic energy of pure blinding power

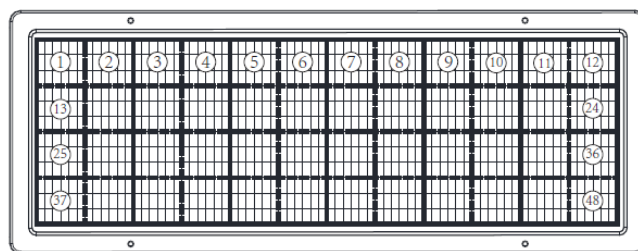
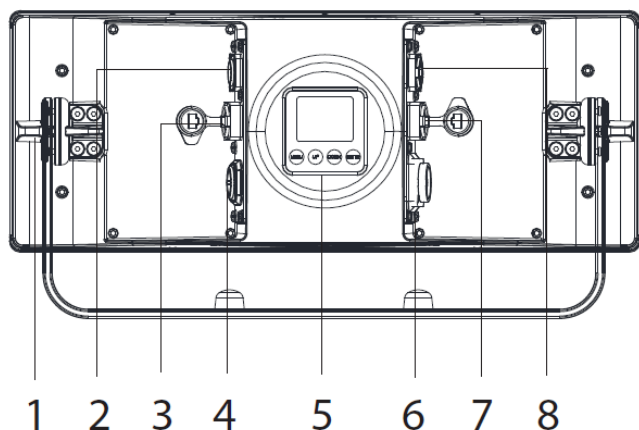
Two-layer colours with onboard macros enable quick programming and stunning effects

IP65-rated tour-grade construction

DMX and Artnet Control



INTRODUCTION



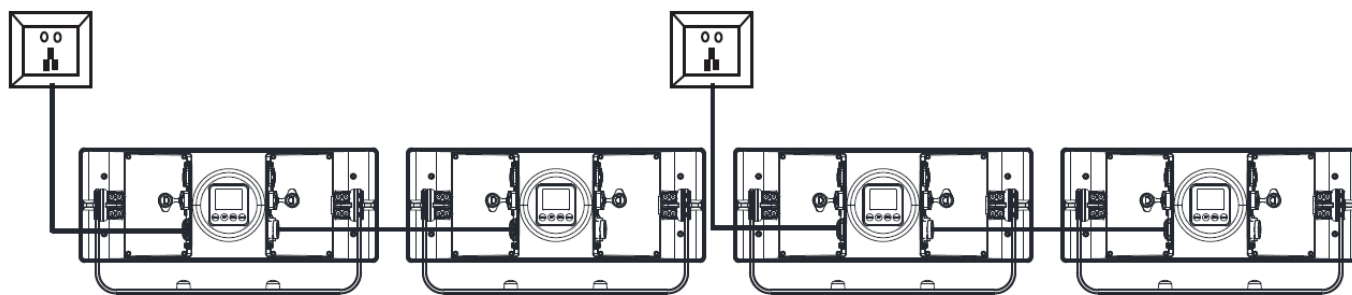
48 individually controllable segments
for dynamic effects

1. Hanging Bracket Knob
2. DMX In
3. Art-Net In
4. Power In
5. Display
6. Power Out
7. Art-Net Out
8. DMX Out

Display Function Navigation

	Description	Effect
Menu	Enter the Menu	Menu Operation
Up	Scroll Up	Increase the Numeric Value
Down	Scroll Down	Decrease the Numeric Value
Enter	Confirm	Save the Function

POWER CONNECTION



Power In

Using the POWERCON In/Out

Power cable connected in series

Attention: Due to the power rating,

One 1.5mm² power cable can connect 2 units maximum



Power out



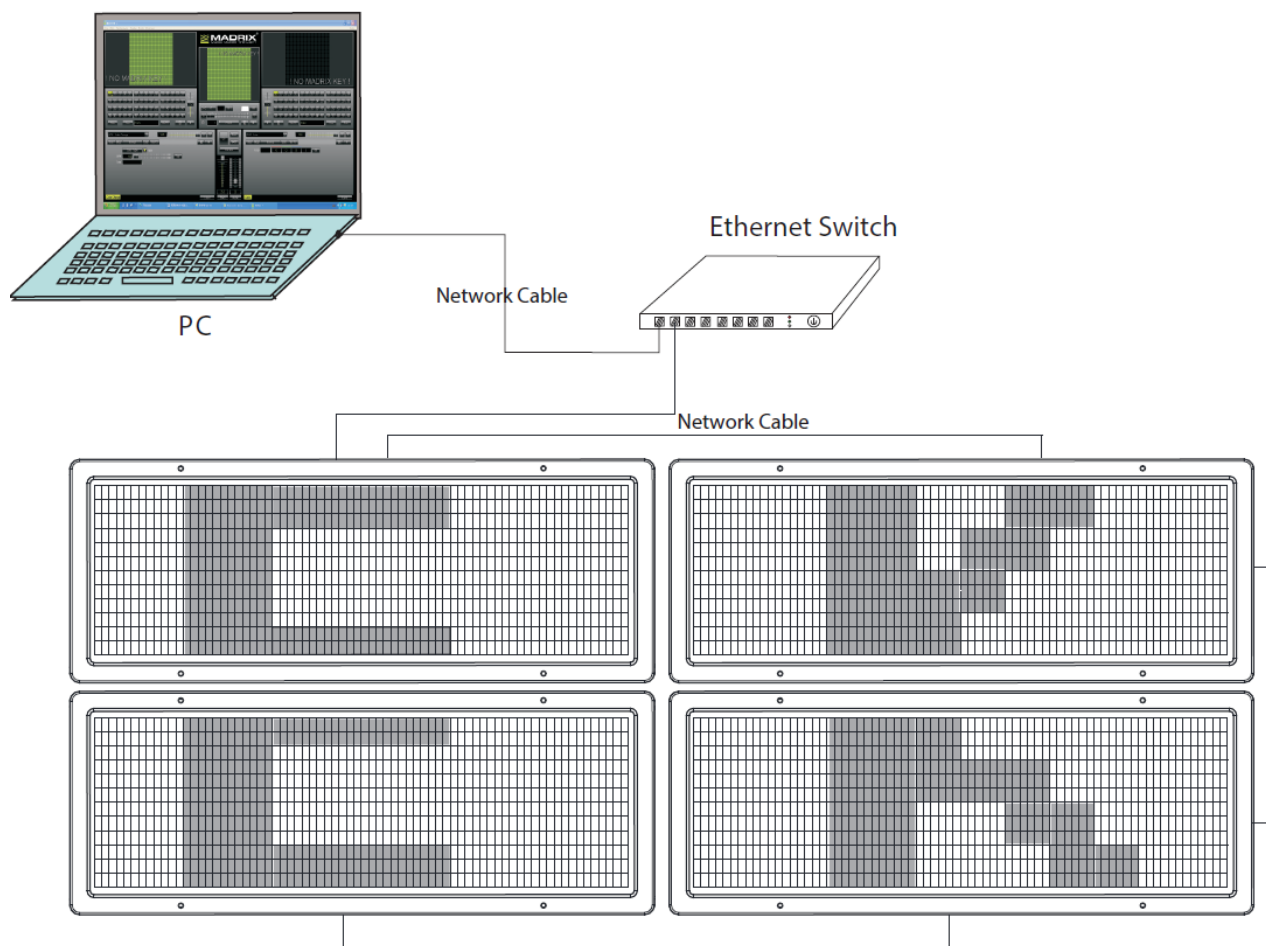
Warning

Do not connect more than 2 units in series with one power cable

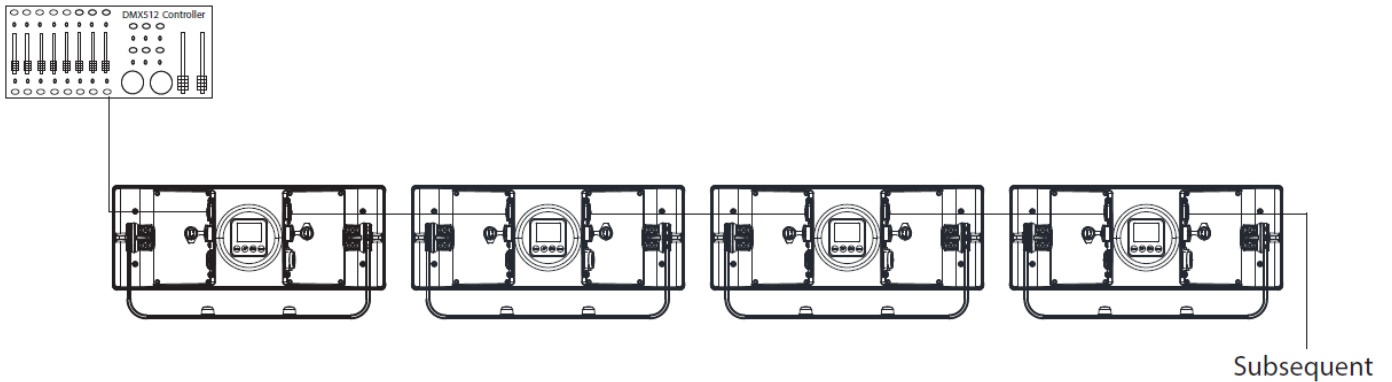
Do not use damaged power cables

Turn off power when units are not in use

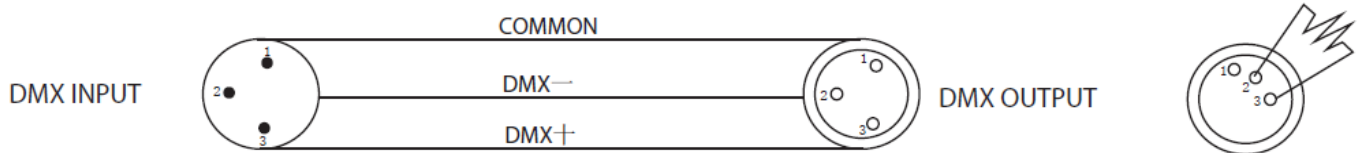
ETHERNET CONNECTION



DMX CONNECTION



DMX512 CONTROLLER



Relation between DMX and Address

Mode	Allocation	1 st Fixture	2 nd Fixture	3 rd Fixture	4 th Fixture
Basic - Static	001 – 004	001	005	009	013
Basic - Strobe	001 – 004	001	005	009	013
Basic – RGBW Strobe	001 – 008	001	009	017	025
Basic - Pixel	001 – 192	001	193	-	-
Pixel – 1PX	001 – 008	001	009	017	025
Pixel – 2PX	001 – 012	001	013	025	037
Pixel – 3PX	001 – 016	001	017	033	049
Pixel – 12PX	001 – 048	001	049	097	145
Pixel - 48PX	001 – 196	001	197	-	-
Advanced – 1	001 - 015	001	016	031	046
Advanced – 2	001 - 203	001	204	-	-
Advanced – 3	001 – 027	001	028	055	082
Advanced – 4	001 – 215	001	216	-	-

Follow the above method for subsequent fixtures, calculating the starting address as indicated.

DMX CONNECTION

Photometrics

Light Source: 1728 x 1W RGBW LED
Beam Angle: 98°
Field Angle: 156°
Output: 1281 Lux @5m

Power

Mains: 100 – 240VAC, 50/60Hz
Consumption: 1500W/230V (All LED @ Full)
Power Connections: Trucon In/Out
Power Linking: Up to 2 units @ 230V

Key Features

Colour Mixing: RGBW
Strobe: 0 – 30Hz
Dimming: 4 dimming curve modes

Control

Protocol: DMX, Artnet, Kling-net
DMX Channels: Basic, Pixels, Advanced
Built-in Programs: Yes
Display: TFT 220 x 176

Physical

Size: 468 x 179 x 268mm
Weight: 15kg
Ingress Rating: IP65

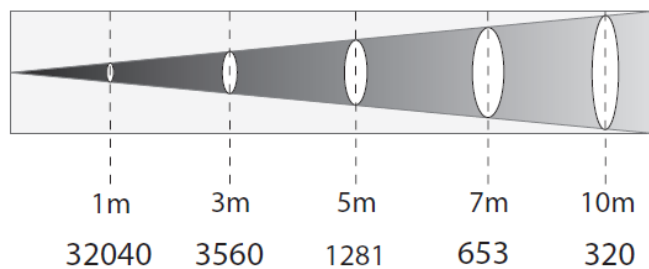
PHOTOMETRICS

Beam Angle: 98°

FULL on

Project Distance(m)

Luminance(lux)



	Ø cm	229.37	Ø cm	688.1	Ø cm	1146.84	Ø cm	1605.57	Ø cm	2293.67
Colour	1m	LUX	3m	LUX	5m	LUX	7m	LUX	10m	LUX
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

Main Menu	Menu Level 2	Menu Level 3	Menu Level ...				Default
Connect	DMX Address	001 – 512					1
	DMX Mode	Basic	Static				RGBW Strobe
			Strobe	R: 0 – 255	Manual Colour Select		
				G: 0 – 255			
				B: 0 – 255			
				W: 0 – 255			
			Pixels				
		RGBW Strobe					
		Pixels	1PX				48PX
			2PX				
			3PX				
			12PX (Firmware 1.8 onwards)				
			48PX				
		Advanced	Advanced 1				Advanced 3
			Advanced 2				
			Advanced 3				
			Advanced 4				
	Ethernet	Protocol	Only Art-net				Only Artnet
			Art-net+DMX (Pixels 1/2/3/12/48 / Advanced 2/4)				
		Subnet	0 – 15				0
		Universe	0 – 15				0
		Start Channel	1 – 512				1
		IP Address	2/10. *** . *** . ***				
		Ethernet to DMX	No				No
			Yes				
	RDM ID	030F02*****					
Setup	Temperature Unit	°C				°C	
		°F					
	Screen	Backlight	On				On
			10s				
			20s				
			30s				
		Flip Display	No				No
			Yes				
		Key Lock	No				No
			Yes				
	Fixture	White Balance	Off			Off	
			Manual	Red	<125 – 255>		
				Green	<125 – 255>		
				Blue	<125 – 255>		
		White		<125 – 255>			
		Dimmer Mode	Off				Off
			Dimmer 1				
			Dimmer 2				
			Dimmer 3				
		Fan Mode	Auto				Auto
	High						
Advanced	Factory Reload	No					
		Yes					
	Mapping Rotation	No					No

		Yes				
Information	Fixture Time	0 – 9999				
	Temperature	**°C				
	Fan Speed	**%				
	Software Version	DISP – V1.3				
		CTR1-NET-V1.4				
		CTR2-LED-V1.1				
UID	030F02*****					
Stand Alone	Play	Master/Slave	Master			Slave
			Slave			
		Sequence	Show 1 Show 2 Show 3 Show 4 Show 5 Show 6 Show 7 Show 8 Show 9 Show 10 Show 11 Show 12 Show 13 Show 14 Show 15 Show 16 Show 17 Show 18 Show 19 Show 20 Show 21 Show 22 Show 23	Speed	1 – 100	Show: 23 Speed: 100 Foreground: R Background: Black
				Foreground	Black	
					R	
					G	
					B	
					W	
					GB	
					RB	
					RG	
					RGB	
					RW	
					GW	
					BW	
					RGW	
					RBW	
					GBW	
					RGBW	
				Background	Black	
					R	
					G	
					B	
					W	
					GB	
			RB			
			RG			
			RGB			
			RW			
			GW			
			BW			
			RGW			
			RBW			
			GBW			
			RGBW			
		Static	Fixed Colour	Black	RGBW	
				R		
				G		
				B		
				W		
				GB		
				RB		
				RG		
				RGB		
				RW		
				GW		
				BW		

				RGW		
				RBW		
				GBW		
				RGBW		
			Manual Colour	Red	<000 – 255>	255
				Green	<000 – 255>	
				Blue	<000 – 255>	
				White	<000 – 255>	

MENU DESCRIPTION

CONNECT

- (1) DMX Address Setting
- (2) Basic – Pixel, Pixel – 48PX, and Advanced – 2/4 are recommended to be run using ethernet control
- (3) Ethernet
 - a. Protocol: Art-net
 - b. Universe: 000 – 255
 - c. Start Channel: 001 – 512
 - d. IP Address: 2/10. *** . *** . ***

SETUP

- (1) Screen
 - a. Backlight: Set the delay time for menu display to go dark
 - b. Flip Display
 - c. Key Lock: **Password: Up-Down-Up-Down-Enter**
- (2) Fixture
 - a. White Balance
 - b. Dimmer Mode: 4 dimming curve modes
 - c. Fan Mode
 - d. Temperature

ADVANCED

- (1) Factory Reset

INFORMATION

- (1) Fixture Time: 0 - 9999
- (2) Temperature
- (3) Fan Speed
- (4) Software Version

STAND ALONE

- (1) Master/Slave
- (2) Sequence
- (3) Static

DMX CHANNELS

Basic - Static

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

Basic - Strobe

	Function	Value	Percent/Setting	Remarks
1	Dimmer	000 – 255	0 – 100%	
2	Strobe Duration	000 – 255	Strobe duration (15 – 99ms)	
3	Strobe	000 – 010	No Function	Single flash with Channel 1
		011 – 255	Strobe Slow to Fast	
4	Special Effects	000 – 002	No effect	If selected, fixture works as a wash, with only dimmer control
		003 – 005	Static	
		006 – 042	Ramp up	
		043 – 085	Ramp down	
		086 – 128	Ramp up-down	
		129 – 171	Random	
		172 – 214	Lightning	
		215 – 255	Spikes	

Basic - Pixel

	Function	Value	Percent/Setting	Remarks
1	Red1	000 – 255	0 – 100%	
2	Green1	000 – 255	0 – 100%	
3	Blue1	000 – 255	0 – 100%	
4	White1	000 – 255	0 – 100%	
5	Red2	000 – 255	0 – 100%	
6	Green2	000 – 255	0 – 100%	
7	Blue2	000 – 255	0 – 100%	
8	White2	000 – 255	0 – 100%	
...	...	...	...	
185	Red47	000 – 255	0 – 100%	
186	Green47	000 – 255	0 – 100%	
187	Blue47	000 – 255	0 – 100%	
188	White47	000 – 255	0 – 100%	
189	Red48	000 – 255	0 – 100%	
190	Green48	000 – 255	0 – 100%	
191	Blue48	000 – 255	0 – 100%	
192	White48	000 – 255	0 – 100%	

Basic – RGBW Strobe

	Function	Value	Percent/Setting	Remarks
1	Red	000 – 255	0 – 100%	
2	Green	000 – 255	0 – 100%	
3	Blue	000 – 255	0 – 100%	
4	White	000 – 255	0 – 100%	
5	Dimmer	000 – 255	0 – 100%	
6	Strobe Duration	000 – 255	Strobe duration (15 – 99ms)	
7	Strobe	000 – 010	No Function	Single flash with Channel 1
		011 – 255	Strobe Slow to Fast	
8	Special Effects	000 – 002	No effect	If selected, fixture works as a wash, with only dimmer control
		003 – 005	Static	
		006 – 042	Ramp up	
		043 – 085	Ramp down	
		086 – 128	Ramp up-down	
		129 – 171	Random	
		172 – 214	Lightning	
		215 – 255	Spikes	

Pixel – 1PX

DMX	Artnet + DMX		Function	Value	Percent/Setting	Remarks
Artnet	Artnet	DMX				
1	-	1	Dimmer	000 – 255	0 – 100%	
2	-	2	Strobe Duration	000 – 255	Strobe duration (15 – 99ms)	
3	-	3	Strobe	000 – 010	No Function	Single flash with Channel 1
				011 – 255	Strobe Slow to Fast	
4	-	4	Special Effects	000 – 002	No effect	If selected, fixture works as a wash, with only dimmer control
				003 – 005	Static	
				006 – 042	Ramp up	
				043 – 085	Ramp down	
				086 – 128	Ramp up-down	
				129 – 171	Random	
				172 – 214	Lightning	
				215 – 255	Spikes	
5	1	-	Pixel 1	Red1	000 – 255	0 – 100%
6	2	-		Green1	000 – 255	0 – 100%
7	3	-		Blue1	000 – 255	0 – 100%
8	4	-		White1	000 – 255	0 – 100%

Pixel – 2PX

DMX	Artnet + DMX		Function	Value	Percent/Setting	Remarks
Artnet	Artnet	DMX				
1	-	1	Dimmer	000 – 255	0 – 100%	
2	-	2	Strobe Duration	000 – 255	Strobe duration (15 – 99ms)	

3	-	3	Strobe		000 – 010	No Function	Single flash with Channel 1
					011 – 255	Strobe Slow to Fast	
4	-	4	Special Effects		000 – 002	No effect	
					003 – 005	Static	If selected, fixture works as a wash, with 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	
5	1	-	Pixel 1	Red1	000 – 255	0 – 100%	
6	2	-		Green1	000 – 255	0 – 100%	
7	3	-		Blue1	000 – 255	0 – 100%	
8	4	-		White1	000 – 255	0 – 100%	
9	5	-	Pixel 2	Red2	000 – 255	0 – 100%	
10	6	-		Green2	000 – 255	0 – 100%	
11	7	-		Blue2	000 – 255	0 – 100%	
12	8	-		White2	000 – 255	0 – 100%	

Pixel – 3PX

DMX	Artnet + DMX		Function	Value	Percent/Setting	Remarks
Artnet	Artnet	DMX				
1	-	1	Dimmer	000 – 255	0 – 100%	
2	-	2	Strobe Duration	000 – 255	Strobe duration (15 – 99ms)	
3	-	3	Strobe	000 – 010	No Function	Single flash with Channel 1
				011 – 255	Strobe Slow to Fast	
4	-	4	Special Effects	000 – 002	No effect	
				003 – 005	Static	If selected, fixture works as a wash, with 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	
5	1	-	Pixel 1	Red1	000 – 255	0 – 100%
6	2	-		Green1	000 – 255	0 – 100%
7	3	-		Blue1	000 – 255	0 – 100%
8	4	-		White1	000 – 255	0 – 100%
...	...	...	...	...	...	...
13	9	-	Pixel 3	Red3	000 – 255	0 – 100%
14	10	-		Green3	000 – 255	0 – 100%
15	11	-		Blue3	000 – 255	0 – 100%
16	12	-		White3	000 – 255	0 – 100%

Pixel – 12PX (Firmware 1.8 onwards)

DMX	Artnet + DMX		Function		Value	Percent/Setting	Remarks
Artnet	Artnet	DMX					
1	-	1	Dimmer		000 – 255	0 – 100%	
2	-	2	Strobe Duration		000 – 255	Strobe duration (15 – 99ms)	
3	-	3	Strobe		000 – 010	No Function	Single flash with Channel 1
					011 – 255	Strobe Slow to Fast	
4	-	4	Special Effects		000 – 002	No effect	
					003 – 005	Static	If selected, fixture works as a wash, with 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	
5	1	-	Pixel 1	Red1	000 – 255	0 – 100%	
6	2	-		Green1	000 – 255	0 – 100%	
7	3	-		Blue1	000 – 255	0 – 100%	
8	4	-		White1	000 – 255	0 – 100%	
...	...	...	...	...	...	...	...
49	45	-	Pixel 12	Red12	000 – 255	0 – 100%	
50	46	-		Green12	000 – 255	0 – 100%	
51	47	-		Blue12	000 – 255	0 – 100%	
52	48	-		White12	000 – 255	0 – 100%	

Pixel – 48PX

DMX	Artnet + DMX		Function		Value	Percent/Setting	Remarks
Artnet	Artnet	DMX					
1	-	1	Dimmer		000 – 255	0 – 100%	
2	-	2	Strobe Duration		000 – 255	Strobe duration (15 – 99ms)	
3	-	3	Strobe		000 – 010	No Function	Single flash with Channel 1
					011 – 255	Strobe Slow to Fast	
4	-	4	Special Effects		000 – 002	No effect	
					003 – 005	Static	If selected, fixture works as a wash, with 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	
5	1	-	Pixel 1	Red1	000 – 255	0 – 100%	
6	2	-		Green1	000 – 255	0 – 100%	
7	3	-		Blue1	000 – 255	0 – 100%	
8	4	-		White1	000 – 255	0 – 100%	

...	...	...	...	...	...	...	...
193	189	-	Pixel 48	Red48	000 – 255	0 – 100%	
194	190	-		Green48	000 – 255	0 – 100%	
195	191	-		Blue48	000 – 255	0 – 100%	
196	192	-		White48	000 – 255	0 – 100%	

Advanced - 1

	Function	Value	Percent/Setting	Remarks
1	Foreground Dimmer	000 – 255	0 – 100%	
2	Foreground Strobe	000 – 030	Closed	No output, Single flash with Channel 1
		031 – 100	Strobe Slow to Fast	
		101 – 130	Open	
		131 – 200	Random Slow to Fast	
		201 – 255	Open	
3	Foreground Red	000 – 255	0 – 100%	
4	Foreground Green	000 – 255	0 – 100%	
5	Foreground Blue	000 – 255	0 – 100%	
6	Foreground White	000 – 255	0 – 100%	
7	Background Dimmer	000 – 255	0 – 100%	
8	Background Strobe	000 – 030	Closed	No output, Single flash with Channel 7
		031 – 100	Strobe Slow to Fast	
		101 – 130	Open	
		131 – 200	Random Slow to Fast	
		201 – 255	Open	
9	Background Red	000 – 255	0 – 100%	
10	Background Green	000 – 255	0 – 100%	
11	Background Blue	000 – 255	0 – 100%	
12	Background White	000 – 255	0 – 100%	
13	Auto FX	000 – 010	No Function	
		011 – 015	FX 1	
		016 – 020	FX 2	
		021 – 025	FX 3	
		026 – 030	FX 4	
		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	

		206 – 255	Random Pixel	From 1 to 10 pixels
14	FX Speed	000 – 050	Static Indexing	
		051 – 255	Slow to fast	
15	Dimmer Mode	000 – 051	From Menu	
		052 – 101	Mode Off	
		102 – 152	Mode 1	
		153 – 203	Mode 2	
		204 – 255	Mode 3	

Advanced - 2

DMX	Artnet + DMX		Function	Value	Percent/Setting	Remarks
	Artnet	DMX				
1	-	1	Foreground Dimmer	000 – 255	0 – 100%	
2	-	2	Foreground Strobe	000 – 030	Closed	No output, Single flash with Channel 1
				031 – 100	Strobe Slow to Fast	
				101 – 130	Open	
				131 – 200	Random Slow to Fast	
				201 – 255	Open	
3	-	3	Background Dimmer	000 – 255	0 – 100%	
4	-	4	Background Strobe	000 – 030	Closed	No output, Single flash with Channel 3
				031 – 100	Strobe Slow to Fast	
				101 – 130	Open	
				131 – 200	Random Slow to Fast	
				201 – 255	Open	
5	-	5	Background Red	000 – 255	0 – 100%	
6	-	6	Background Green	000 – 255	0 – 100%	
7	-	7	Background Blue	000 – 255	0 – 100%	
8	-	8	Background White	000 – 255	0 – 100%	
9	-	9	Auto FX	000 – 010	No Function	
				011 – 015	FX 1	
				016 – 020	FX 2	
				021 – 025	FX 3	
				026 – 030	FX 4	
				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	
				206 – 255	Random Pixel	From 1 to 10 pixels
10	-	10	FX Speed	000 – 050	Static Indexing	
				051 – 255	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	-	Red1	000 – 255	0 – 100%	
13	2	-	Green1	000 – 255	0 – 100%	
14	3	-	Blue1	000 – 255	0 – 100%	
15	4	-	White1	000 – 255	0 – 100%	
...	...	...	...	...	...	...
200	189	-	Red48	000 – 255	0 – 100%	
201	190	-	Green48	000 – 255	0 – 100%	
202	191	-	Blue48	000 – 255	0 – 100%	
203	192	-	White48	000 – 255	0 – 100%	

Advanced - 3

	Base Function	Function with L2 FX	Value	Percent/Setting	Remarks
1	Foreground Dimmer	Layer 2 Dimmer	000 – 255	0 – 100%	
2	Foreground Strobe	Layer 2 Strobe	000 – 030	Closed	No output, Single flash with Channel 1
			031 – 100	Strobe Slow to Fast	
			101 – 130	Open	
			131 – 200	Random Slow to Fast	
			201 – 255	Open	
3	Foreground Red	Layer 2 Red	000 – 255	0 – 100%	
4	Foreground Green	Layer 2 Green	000 – 255	0 – 100%	
5	Foreground Blue	Layer 2 Blue	000 – 255	0 – 100%	
6	Foreground White	Layer 2 White	000 – 255	0 – 100%	
7	Background Dimmer		000 – 255	0 – 100%	
8	Background Strobe		000 – 030	Closed	No output, Single flash with Channel 7
			031 – 100	Strobe Slow to Fast	
			101 – 130	Open	
			131 – 200	Random Slow to Fast	
			201 – 255	Open	
9	Background Red		000 – 255	0 – 100%	
10	Background Green		000 – 255	0 – 100%	
11	Background Blue		000 – 255	0 – 100%	
12	Background White		000 – 255	0 – 100%	
13	Layer 1 Dimmer		000 – 255	0 – 100%	
14	Layer 1 Strobe		000 – 030	Closed	No output, Single flash with Channel 13

			031 – 100	Strobe Slow to Fast	
			101 – 130	Open	
			131 – 200	Random Slow to Fast	
			201 – 255	Open	
15	Layer 1 Red		000 – 255	0 – 100%	
16	Layer 1 Green		000 – 255	0 – 100%	
17	Layer 1 Blue		000 – 255	0 – 100%	
18	Layer 1 White		000 – 255	0 – 100%	
19	Layer 1 FX		000 – 010	No Function	
			011 – 015	FX 1	
			016 – 020	FX 2	
			021 – 025	FX 3	
			026 – 030	FX 4	
			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	
			206 – 255	Random Pixel	From 1 to 10 pixels
20	Layer 1 FX Speed		000 – 050	Static Indexing	
			051 – 255	Slow to fast	
21	Layer 1 FX Offset		000 – 200	Continuous start selection	Choose FX step start point
			201 – 255	Random distribution	Enables an internal distribution of the macro between lights on a DMX line
22	Layer 2 FX (Colours and strobe are controlled by Foreground Channels If no FX is selected, the Foreground Channels will work as their base function)		000 – 010	No Function	
			011 – 015	FX 1	
			016 – 020	FX 2	
			021 – 025	FX 3	
			026 – 030	FX 4	
			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	
			206 – 255	Random Pixel	From 1 to 10 pixels
23	Layer 2 FX Speed		000 – 050	Static Indexing	
			051 – 255	Slow to fast	
24	Layer 2 FX Offset		000 – 200	Continuous start selection	Choose FX step start point
			201 – 255	Random distribution	Enables an internal distribution of the macro between lights on a DMX line
25	Empty		-	TBD	
26	Empty		-	TBD	
27	Dimmer Mode		000 – 051	From Menu	
			052 – 101	Mode Off	
			102 – 152	Mode 1	
			153 – 203	Mode 2	
			204 – 255	Mode 3	

Advanced - 4

DMX	Artnet + DMX		Base Function	Function with L2 FX	Value	Percent/Setting	Remarks
Artnet	Artnet	DMX					
1	-	1	Foreground Dimmer	Layer 2 Dimmer	000 – 255	0 – 100%	
2	-	2	Foreground Strobe	Layer 2 Strobe	000 – 030	Closed	No output, Single flash with Channel 1
					031 – 100	Strobe Slow to Fast	
					101 – 130	Open	
					131 – 200	Random Slow to Fast	
					201 – 255	Open	
3	1	-	Red1	Layer 2 Red1	000 – 255	0 – 100%	
4	2	-	Green1	Layer 2 Green1	000 – 255	0 – 100%	
5	3	-	Blue1	Layer 2 Blue1	000 – 255	0 – 100%	
6	4	-	White1	Layer 2 White1	000 – 255	0 – 100%	
...	...	...	...	...	...	...	...
191	189	-	Red48	Layer 2 Red48	000 – 255	0 – 100%	

192	190	-	Green48	Layer 2 Green48	000 – 255	0 – 100%	
193	191	-	Blue48	Layer 2 Blue48	000 – 255	0 – 100%	
194	192	-	White48	Layer 2 White48	000 – 255	0 – 100%	
195	-	3	Background Dimmer		000 – 255	0 – 100%	
196	-	4	Background Strobe		000 – 030	Closed	No output, Single flash with Channel 195
					031 – 100	Strobe Slow to Fast	
					101 – 130	Open	
					131 – 200	Random Slow to Fast	
					201 – 255	Open	
197	-	5	Background Red		000 – 255	0 – 100%	
198	-	6	Background Green		000 – 255	0 – 100%	
199	-	7	Background Blue		000 – 255	0 – 100%	
200	-	8	Background White		000 – 255	0 – 100%	
201	-	9	Layer 1 Dimmer		000 – 255	0 – 100%	
202	-	10	Layer 1 Strobe		000 – 030	Closed	No output, Single flash with Channel 201
					031 – 100	Strobe Slow to Fast	
					101 – 130	Open	
					131 – 200	Random Slow to Fast	
					201 – 255	Open	
203	-	11	Layer 1 Red		000 – 255	0 – 100%	
204	-	12	Layer 1 Green		000 – 255	0 – 100%	
205	-	13	Layer 1 Blue		000 – 255	0 – 100%	
206	-	14	Layer 1 White		000 – 255	0 – 100%	
207	-	15	Layer 1 FX		000 – 010	No Function	
					011 – 015	FX 1	
					016 – 020	FX 2	
					021 – 025	FX 3	
					026 – 030	FX 4	
					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	
					206 – 255	Random Pixel	From 1 to 10 pixels
208	-	16	Layer 1 FX Speed		000 – 050	Static Indexing	
					051 – 255	Slow to fast	
209	-	17	Layer 1 FX Offset		000 – 200	Continuous start selection	Choose FX step start point
					201 – 255	Random distribution	Enables an internal distribution of the macro between lights on a DMX line
210	-	18	Layer 2 FX (Colours and strobe are controlled by Foreground Channels If no FX is selected, the Foreground Channels will work as their base function)		000 – 010	No Function	
					011 – 015	FX 1	
					016 – 020	FX 2	
					021 – 025	FX 3	
					026 – 030	FX 4	
					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	
					206 – 255	Random Pixel	From 1 to 10 pixels
211	-	19	Layer 2 FX Speed		000 – 050	Static Indexing	
					051 – 255	Slow to fast	
212	-	20	Layer 2 FX Offset		000 – 200	Continuous start selection	Choose FX step start point
					201 – 255	Random distribution	Enables an internal distribution of

							the macro between lights on a DMX line
213	-	21	Empty		-	TBD	
214	-	22	Empty		-	TBD	
215	-	23	Dimmer Mode		000 – 051	From Menu	
					052 – 101	Mode Off	
					102 – 152	Mode 1	
					153 – 203	Mode 2	
					204 – 255	Mode 3	

TROUBLESHOOTING

Problem	Possible Causes	Checklist and Remedies
Fixture does not light up	-No mains supply -Dimmer fader is set to 0 -All colour faders set to 0 -Faulty LED -Faulty LED board	-Check the power supply voltage -Increase the dimmer channel -Increase the colour channels -Replace the LED board -Replace the LED board
General low light intensity	-Dirty lens assembly -Misaligned lens assembly	-Clean the fixture regularly -Install lens assembly properly
Fixture does not power up	-No power -Loose or damaged power cord -Faulty internal power supply	-Check for power on outlet -Check power cord -Replace internal power supply
Fixture does not respond to DMX	-Wrong DMX addressing -Damaged DMX cable -Bouncing signals	-Check control panel/unit address -Check DMX cables -Install terminator