EK

DIAMONDBACK

PIXEL−MAPPABLE FULL−COLOR LED
STROBE/BEAM/WASH HYBRID WITH ZOOM

U S E R   M A N U A L

CONTENTS

MAINTENANCE

MAINTENANCE AND CLEANING THE UNIT

- Make sure the area below the installation place is free from unwanted person during setup.
- Switch off the unit,unplug the main cable and wait till the unit has cooled down.
- All screws used for installing the device and any of its parts should be tightly fastened and should not
  be corroded.
- Housings,fixations and installation spots (celling,trusses,suspensions) should be totally free from any
  deformation.
- The main cables must be in impeccable condition and should be replaced immediately even when a
  small problem is detected.
- It is recommended to clean the front at regular intervals,from impurities caused by dust,smoke,or other
  particles to ensure that the ligh is radiated at maximum brightness.For cleaning,disconnect the main plug
  from the socket.Use a soft,clean cloth moistened with a mild detergent.Then carefully wipe the parts dry.
  For cleaning other housing parts use only a soft,clean cloth.Never use a liquid,it might pernetrate the unit
  and cause damage to it.

FUSE REPLACEMENT

1.Disconnect this product from the power outlet.
2.Using a screwdriver,unscrew the fuse holder cap from the housing.
3.Remove the blown fuse and replace with a good fuse of the same type and rat
 -ing.
4.Screw the fuse holder cap back in place and reconnect power.

TROUBLESHOOTING

Problems	Possible causes	Checks and remedies
Fixture does not light up	• No mains supply • Dimmer fader set to 0 • Faulty LED • Faulty LED board	• Check the power supply voltage • Increase the value of the dimmer 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 power outlet • Check power cord • Replace internal power supply

Contact an authorized service center in case of technical problems or not reported in the above table cannot
be resolved by the procedure given in the table.

SAFETY

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

General instruction

-The products referred to in this manual conform to the European Community Directives and are therefore
  marked wihth CE.
-The unit is supplied with hazardous network voltage (230V~) .Leave serving 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 power supply system fitted with efficient earthing (Class I appliance acc-
  ording to standard EN60598-1) .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 main network of electric distribution 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 lable.
-This 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 a temperature of over 40℃.
-Make certain that no inflammable liquids,water ot metal objects enter the fixture,
-Do not dismantle or modify the fixture.
-All work must always 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 out of operation definitively,take it to a local recyling
  plant for a dosposal 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 guarantee becomes void.Furthermore,any operation may lead to dangers like short
  circuit,burns,electric shock,etc.
-Before starting any maintenance work or cleaning the fixture,cut off power from the main supply.
-Always additionally secure the fixture with the safety rope.When carrying out any work,always comply
  scrupulously with all the regulations (particularly regarding safety) currently in force in the country in
  which the fixture's being used.
-Install the fixture in a well ventilated place.
-Keep any inflammable materials 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 fast changes in lighting,e.g. flashing light,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.

INTRODUCTION

PIXEL-MAPPABLE FULL-COLOR LED STROBE/BEAM/WASH ZOOMABLE BAR WITH TILT MOVEMENT

FEATURES

· 14 independently controllable RGBW LED cells to provide super high output of 24K lux for
   beam and wash effects
· Stunning strobe effects generated by the 2 outer pixel-mappable CW+WW LED lines
· White color temperature from 2700K~8000K, RA: W:≥70; CW:≥80; WW:≥90
· Smooth wide zoomable range from 3~56°
· Ultra-linear dimming technology with 4 dimming modes and 5 dimming curves
· Selectable PWM frequencies for flick-free output with any camera
· Multi selection of pre-programmed macros and special effects
· Alingment pins on both sides for easy alignments during installation
· Tilt lock to lock the moving head in a secure position while transportation or before handling
   any operation
· DMX/RDM and ArtNet control

SPECIFICATIONS

Light Source: RGBW+CW+WW, 1100W, LED
Beam Angle: 3°~56°
Output: 60K lm(peak value)
Color Mixing: RGBW+CW+WW
CRI： W:≥70; CW:≥80; WW:≥90
Zoom: 3°~56°
Strobe: 0～30Hz + strobe effect macros
Dimming: 4 dimming curves with 0~100% dimming
Tilt Movement: 205°（16bit）
Mains: 100～240VAC,50～60Hz
Consumption: 620W /230V
Power Connections: IP PowerCON IN/OUT
Protocol: DMX512/RDM/ArtNet+DMX512
DMX Channels: 14CH/32CH/118CH/91CH/119CH
Data Connections: 3pin(or 5pin) DMX IN/OUT，linking up to 32pcs at a chain
Onboard Menu: 2.83 inches TFT with gravity sensor
IP Rating: IP 20
Cooling: Noiseless fan for forced air
Ambient Temp.: -10℃~45℃
Dimensions: 1000 x 110 x 284.5mm
Weight: 20.3kg
Accessories: Power Cable. Omega Bracket

DMX CHANNELS

88Ch Mode				
DMX / NET	DMX +NET	Function	Value	Percent/Setting
64	60	Warm White2	000-255	0~100%
		...	000-255	0~100%
		...	000-255	0~100%
		...	000-255	0~100%
85	81	Cool White13	000-255	0~100%
86	82	Warm White13	000-255	0~100%
87	83	Cool White14	000-255	0~100%
88	84	Warm White14	000-255	0~100%

PIXEL CONTROL

PIXELS ORDER

Total 56 * white pixels (28 * WW + 28 * CW) + 14 * RGBW pixels

white pixel order (WW/CW)

RGBW pixel order

white pixel order (WW/CW)
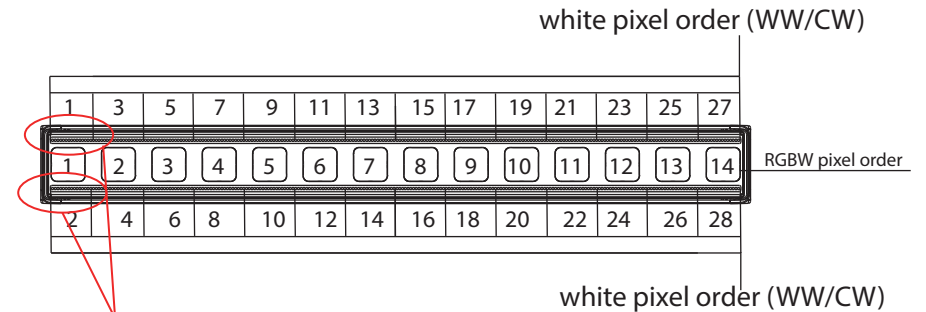
WHITE LED LAYOUT

COOL WHITE LED * 126pcs, every 9pcs in 1 segment
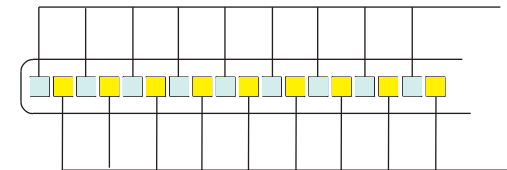
WARM WHITE LED * 126pcs, every 9pcs in 1 segment

DMX CHANNELS

| 119Ch Mode				
DMX / NET	DMX +NET	Function	Value	Percent/Setting
63	56	White14	000-255	0~100%
64	57	Cool White1	000-255	0~100%
65	58	Warm White1	000-255	0~100%
66	59	Cool White2	000-255	0~100%
67	60	Warm White2	000-255	0~100%
		...	000-255	0~100%
		...	000-255	0~100%
		...	000-255	0~100%
116	109	Cool White27	000-255	0~100%
117	110	Warm White27	000-255	0~100%
118	111	Cool White28	000-255	0~100%
119	112	Warm White28	000-255	0~100%

88Ch Mode				
DMX / NET	DMX +NET	Function	Value	Percent/Setting
1	1	Tilt	000-255	0~100%
2	2	Zoom	000-255	From narrow to wide beam
3	3	Dimmer	000-255	0~100%
4	4	White Dimmer	000-255	0~100%
5	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	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%
		...	000-255	0~100%
		...	000-255	0~100%
		...	000-255	0~100%
		...	000-255	0~100%
57	53	Red14	000-255	0~100%
58	54	Green14	000-255	0~100%
59	55	Blue14	000-255	0~100%
60	56	White14	000-255	0~100%
61	57	Cool White1	000-255	0~100%
62	58	Warm White1	000-255	0~100%
63	59	Cool White2	000-255	0~100%

PHOTOMETRICS

Beam Angle 3°
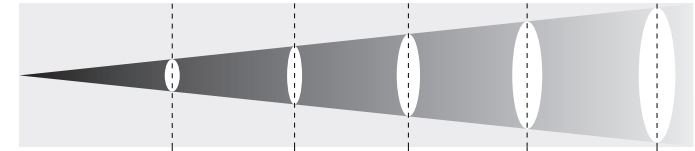
	Diameter（cm）	φ17cm	φ28cm	φ57cm	φ85cm	φ133cm
	Distance (m)	3m	5m	10m	15m	20m
Illuminance(Lux)	R	3100	2500	770	124.8	70.2
	G	8300	5500	2300	334	187
	B	1900	1000	440	63.2	35.5
	W	12000	8000	3500	484	272
	RGBW	23000	15200	6100	956	537
	CW	200	100	15	8.8	4.9
	WW	140	80	13	5.8	3.1
	ALL	24000	15400	6100	964	542.2

Beam Angle 34°
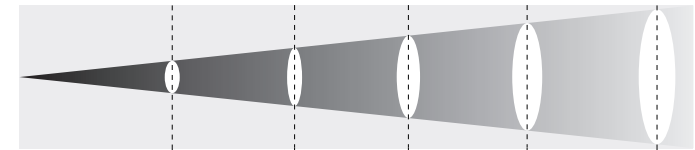
	Diameter（cm）	φ185cm	φ308cm	φ616cm	φ925cm	φ1233cm
	Distance (m)	3m	5m	10m	15m	20m
Illuminance(Lux)	R	380	170	30	19.1	10.7
	G	960	430	100	48.6	27.3
	B	180	80	20	9.2	5.1
	W	1400	660	150	74.1	47.6
	RGBW	2600	1200	290	138.8	78.1
	CW	200	100	15	10.7	6
	WW	140	80	13	9.1	5.1
	ALL	2800	1300	300	152.2	85.6

DIMENSION

140   140

1000

248.5
216.5

71

110   150.7

DMX CHANNELS

119Ch Mode
DMX / NET	DMX +NET	Function	Value	Percent/Setting
3	3	Strobe	108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
			208-212	Light ON
			213-225	Random Slow Strobe
			226-238	Random Medium Strobe
			239-251	Random Fast Strobe
			252-255	Light ON
4	4	Dimmer	000-255	0~100%
5	5	White Strobe	000-003	Light OFF
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light ON
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
			208-212	Light ON
			213-225	Random Slow Strobe
			226-238	Random Medium Strobe
			239-251	Random Fast Strobe
			252-255	Light ON
6	6	White Dimmer	000-255	0~100%
7	7	Device Setting	000-005	No Function
			026-076	Head Reset (Hold 5S)
			077-127	Pan/Tilt Reset (Hold 5S)
			128-178	Complete Reset(Hold 5S)
			179-192	No Function
			193-200	Dimmer Mode 1
			201-208	Dimmer Mode 2
			209-216	Dimmer Mode 3
			217-224	Dimmer Mode 4
			225-255	No Function
8	1	Red1	000-255	0~100%
9	2	Green1	000-255	0~100%
10	3	Blue1	000-255	0~100%
11	4	White1	000-255	0~100%
12	5	Red2	000-255	0~100%
13	6	Green2	000-255	0~100%
14	7	Blue2	000-255	0~100%
15	8	White2	000-255	0~100%
		...	000-255	0~100%
		...	000-255	0~100%
		...	000-255	0~100%
		...	000-255	0~100%
60	53	Red14	000-255	0~100%
61	54	Green14	000-255	0~100%
62	55	Blue14	000-255	0~100%

DMX CHANNELS

91Ch Mode				
DMX / NET	DMX +NET	Function	Value	Percent/Setting
7	7	Device Setting	201-208	Dimmer Mode 2
			209-216	Dimmer Mode 3
			217-224	Dimmer Mode 4
			225-255	No Function
8	1	Red1	000-255	0~100%
9	2	Green1	000-255	0~100%
10	3	Blue1	000-255	0~100%
11	4	White1	000-255	0~100%
12	5	Red2	000-255	0~100%
13	6	Green2	000-255	0~100%
14	7	Blue2	000-255	0~100%
15	8	White2	000-255	0~100%
		...	000-255	0~100%
		...	000-255	0~100%
		...	000-255	0~100%
		...	000-255	0~100%
60	53	Red14	000-255	0~100%
61	54	Green14	000-255	0~100%
62	55	Blue14	000-255	0~100%
63	56	White14	000-255	0~100%
64	57	Cool White1	000-255	0~100%
65	58	Warm White1	000-255	0~100%
66	59	Cool White2	000-255	0~100%
67	60	Warm White2	000-255	0~100%
		...	000-255	0~100%
		...	000-255	0~100%
		...	000-255	0~100%
88	81	Cool White13	000-255	0~100%
89	82	Warm White13	000-255	0~100%
90	83	Cool White14	000-255	0~100%
91	84	Warm White14	000-255	0~100%

119Ch Mode				
DMX / NET	DMX +NET	Function	Value	Percent/Setting
1	1	Tilt	000-255	0~100%
2	2	Zoom	000-255	From narrow to wide beam
3	3	Strobe	000-003	Light OFF
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light ON

OVERVIEW
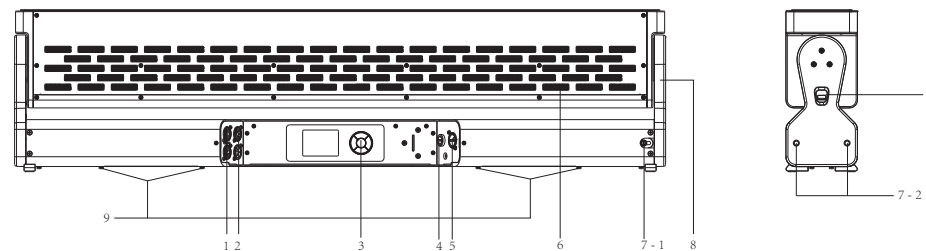
1. Art-Net In/Out
2. DMX IN/OUT
3. Control Panel
4. Fuse
5. Power In
6. Fan for ventilation
7-1. Side Lock
7-2. Side Lock Pins
8. Tilt Lock
9. Omega Adapting Holes
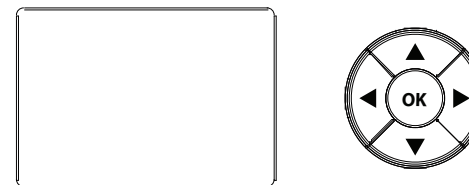
UP	DOWN	LEFT	RIGHT	ENTER
Increase the value display or passes to the previous item in a menu	Decreases the value display or passes to the next item in the menu	Return to the top level	Commute from unites, tens, hundreds in the menu	Confirm the displayed value, or activevates the displayed functions, or enter the sucessive menu

INSTALLATION
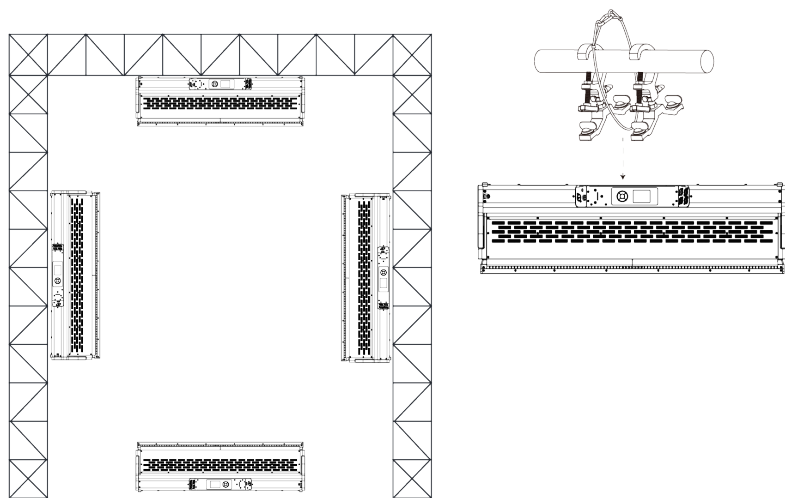
The Diamondback may be set up on a solid and even surface. By means of the fixing facilities of the baseplate,the unit can also be mounted upside down to a cross arm. For fixing, stablemounting clips are required. The bolts of the brackets are placed into the openings provided in the base plate and turned clockwise until they lock (to the stop). Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. The mounting place must be of sufficient stability and be able to support a weight of 10 times of the unit's weight. When carrying out any installation,always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixture's being used. Always additionally secure the projector with the safety rope from falling down. For this purpose, fasten the safety rope at a suitable position so that the maximum fall of the projector will be 20 cm.

DMX CHANNELS

118Ch Mode				
DMX / NET	DMX +NET	Function	Value	Percent/Setting
66	60	Warm White2	000-255	0~100%
		...	000-255	0~100%
		...	000-255	0~100%
		...	000-255	0~100%
115	109	Cool White27	000-255	0~100%
116	110	Warm White27	000-255	0~100%
117	111	Cool White28	000-255	0~100%
118	112	Warm White28	000-255	0~100%

91Ch Mode				
DMX / NET	DMX +NET	Function	Value	Percent/Setting
1	1	Tilt	000-255	0~100%
2	2	Zoom	000-255	From narrow to wide beam
3	3	Strobe	000-003	Light OFF
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light ON
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
			208-212	Light ON
			213-225	Random Slow Strobe
			226-238	Random Medium Strobe
			239-251	Random Fast Strobe
			252-255	Light ON
4	4	Dimmer	000-255	0~100%
5	5	White Strobe	000-003	Light OFF
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light ON
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
			208-212	Light ON
			213-225	Random Slow Strobe
			226-238	Random Medium Strobe
			239-251	Random Fast Strobe
			252-255	Light ON
6	6	White Dimmer	000-255	0~100%
7	7	Device Setting	000-005	No Function
			026-076	Head Reset (Hold 5S)
			077-127	Pan/Tilt Reset (Hold 5S)
			128-178	Complete Reset(Hold 5S)
			179-192	No Function
			193-200	Dimmer Mode 1

DMX CHANNELS

118Ch Mode				
DMX / NET	DMX +NET	Function	Value	Percent/Setting
1	1	Tilt	000-255	0~100%
2	2	Zoom	000-255	From narrow to wide beam
3	3	Strobe	000-003	Light OFF
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light ON
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
			208-212	Light ON
			213-225	Random Slow Strobe
			226-238	Random Medium Strobe
			239-251	Random Fast Strobe
			252-255	Light ON
4	4	Dimmer	000-255	0~100%
5	5	White Strobe	000-003	Light OFF
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light ON
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
			208-212	Light ON
			213-225	Random Slow Strobe
			226-238	Random Medium Strobe
			239-251	Random Fast Strobe
			252-255	Light ON
6	6	White Dimmer	000-255	0~100%
7	1	Red1	000-255	0~100%
8	2	Green1	000-255	0~100%
9	3	Blue1	000-255	0~100%
10	4	White1	000-255	0~100%
11	5	Red2	000-255	0~100%
12	6	Green2	000-255	0~100%
13	7	Blue2	000-255	0~100%
14	8	White2	000-255	0~100%
		...	000-255	0~100%
		...	000-255	0~100%
		...	000-255	0~100%
		...	000-255	0~100%
59	53	Red14	000-255	0~100%
60	54	Green14	000-255	0~100%
61	55	Blue14	000-255	0~100%
62	56	White14	000-255	0~100%
63	57	Cool White1	000-255	0~100%
64	58	Warm White1	000-255	0~100%
65	59	Cool White2	000-255	0~100%

POWER CONNECTION
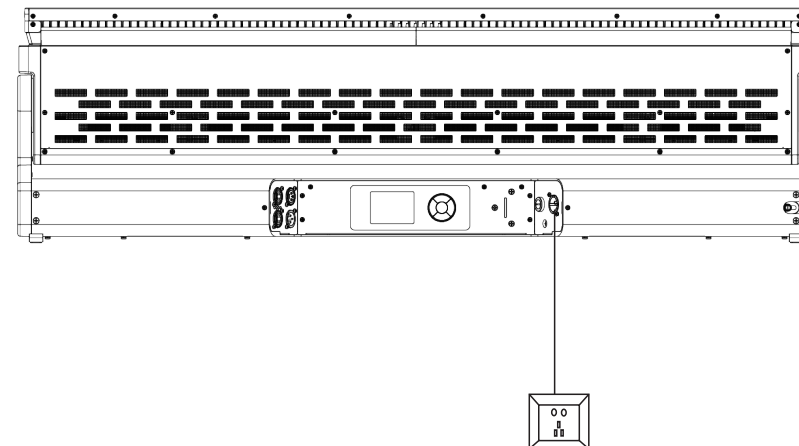
Power In

Using Power Con In

Power cable connected in series

Attention: due to the power rating

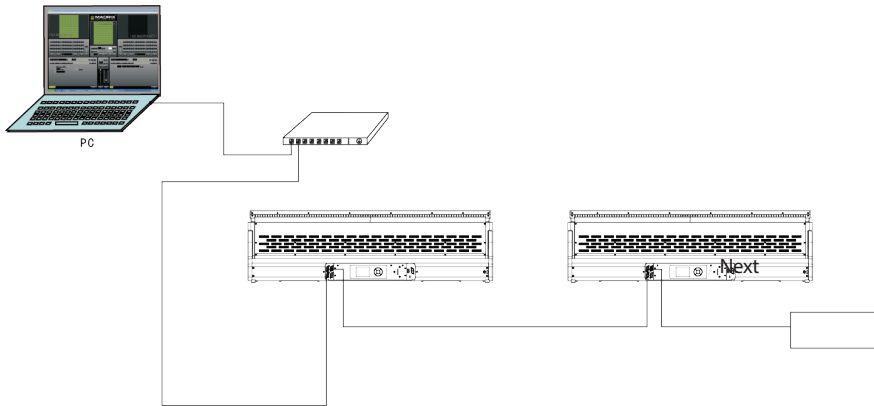one 1.5mm² power cable can connect 1 unit maximum

WARNING

Do not connect more than 1 unit in series with one power cable
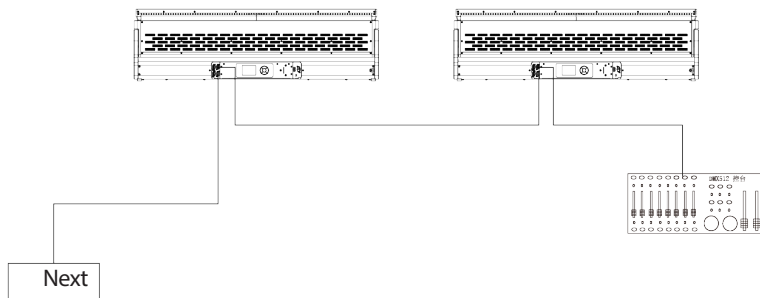
Do not use damage power cable

Turn off the power when the units are not in use

DATA CONNECTION

ETHERNET CONNECTION

DMX CONNECTION

DMX CHANNELS

DMX / NET	DMX +NET	Function	Value	Percent/Setting
32 Ch Mode			
14	14	White Effects	194-201	Effect 25
			202-209	Effect 26
			210-217	Effect 27
			218-224	Effect 28
			225-232	Effect 29
			233-240	Effect 30
			241-248	Effect 31
			249-255	Effect 32
15	15	White Effects speed	000-124	Normal
			125-130	Static
			131-255	Dynamic
16	16	Device Setting	000-005	No Function
			026-076	Head Reset (Hold 5S)
			077-127	Pan/Tilt Reset (Hold 5S)
			128-178	Complete Reset(Hold 5S)
			179-192	No Function
			193-200	Dimmer Mode 1
			201-208	Dimmer Mode 2
			209-216	Dimmer Mode 3
			217-224	Dimmer Mode 4
			225-255	No Function
17	1	Red	000-255	0~100%
18	2	Green	000-255	0~100%
19	3	Blue	000-255	0~100%
20	4	White	000-255	0~100%
21	5	Background Red	000-255	0~100%
22	6	Background Green	000-255	0~100%
23	7	Background Blue	000-255	0~100%
24	8	Background White	000-255	0~100%
25	9	Top Cool White	000-255	0~100%
26	10	Top Warm White	000-255	0~100%
27	11	Bottom Cool White	000-255	0~100%
28	12	Bottom Warm White	000-255	0~100%
29	13	Background Top Cool White	000-255	0~100%
30	14	Background Top Warm White	000-255	0~100%
31	15	Background Bottom Cool White	000-255	0~100%
32	16	Background Bottom Warm White	000-255	0~100%

DMX CHANNELS

32 Ch Mode				
DMX / NET	DMX +NET	Function	Value	Percent/Setting
9	9	Effects speed	000-124	Normal
			125-130	Static
			131-255	Dynamic
10	10	White Strobe	000-003	Light OFF
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light ON
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
			208-212	Light ON
			213-225	Random Slow Strobe
			226-238	Random Medium Strobe
			239-251	Random Fast Strobe
			252-255	Light ON
11	11	White Dimmer	000-255	0~100%
12	12	White CTO	000-009	OFF
			010-255	CTO 8000K~2700K
13	13	White Background CTO	000-009	OFF
			010-255	CTO 8000K~2700K
14	14	White Effects	000-005	No Function
			006-015	Effect 1
			016-023	Effect 2
			024-031	Effect 3
			032-038	Effect 4
			039-046	Effect 5
			047-054	Effect 6
			055-062	Effect 7
			063-069	Effect 8
			070-077	Effect 9
			078-085	Effect 10
			086-093	Effect 11
			094-100	Effect 12
			101-108	Effect 13
			109-116	Effect 14
			117-124	Effect 15
			125-131	Effect 16
			132-139	Effect 17
			140-147	Effect 18
			148-155	Effect 19
			156-162	Effect 20
			163-170	Effect 21
			171-178	Effect 22
			179-186	Effect 23
			187-193	Effect 24

DATA CONNECTION

Depending on the length of the DMX cable run, or other factors, it may be advisable to install a terminator at the last fixture in the run.

The illustration below shows the correct placement of a 120Ω 0.25W resistor in a terminator, as well as the standard DMX signal pin-outs.

120Ω
1/4 W
resistor

DMX INPUT — COMMON — DMX- — DMX+ — NotUsed — Not Used — DMX OUTPUT

DMX INPUT — COMMON — DMX+ — DMX- — DMX OUTPUT
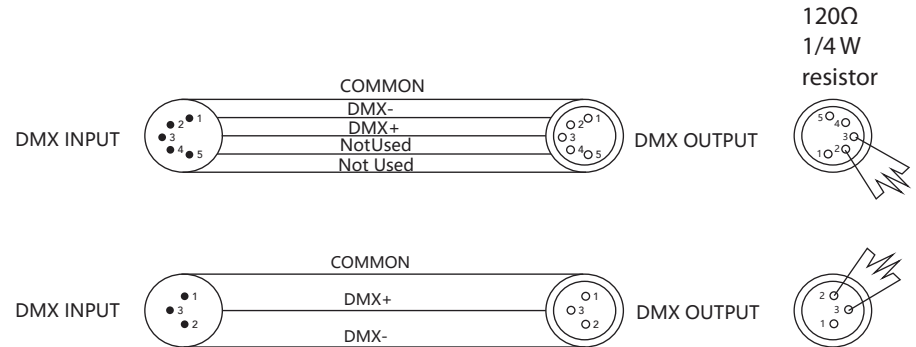
Relation between DMX and Address

MODE	ALLOCATION	START ADDRESS 1ST FIXTURE	START ADDRESS 2ND FIXTURE	START ADDRESS 3RD FIXTURE	START ADDRESS 4TH FIXTURE
14CH	001-014	001	015	029	043
32CH	001-032	001	033	065	096
118CH	001-118	001	119	237	355

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

EXAMPLE OF DMX ADDRESSING

The below table shows an example of starting addresses for four fixtures assuming a first fixture with starting address of 001.

The actual starting addresses will be determined by the operator as needed to match external controller settings.

MENU

NO.	Main Menu	Menu level 1	Menu level 2	Menu level3	Menu level4	Default	Description for use
1	SETUP	DMX Address	1-512			1	
		DMX Channel	14CH				
			32CH				
			118CH			32CH	
			91CH				
			119CH				
			88CH				
		Protocol	DMX				
			Artnet			DMX	Artnet only controls color
			DMX+Artnet				
		Ethernet Interface	Universe	0-255		0	
			Start Channel	1-512		1	
			Custom IP Address	2.133.139.215		2.xxx.xxx.xxx	
			Custom IP Mask	255.0.0.0		255.0.0.0	
			Ethernet To DMX	NO		No	
				Yes			
2	OPTION	Movement Setting	Tilt Reverse	Off		Off	
				On			
			Encoder Pan/Tilt	Off		On	
				On			
		Display Setting	Warn Cue	Off		On	
				On			
			Backlight	Off		Off	Screen shut off automatically after 30s
				On			
			Display Reverse	Off		Off	Hold UP+DOWN for 3S at main menu
				On			
			Key Lock	Off		Off	
				On			
		Fixture Setting	Fan Mode	Auto		Auto	
				Theatre			
				High			
			Dimmer Mode	Dimmer Mode 1		Dimmer Mode 1	
				Dimmer Mode 2			
				Dimmer Mode 3			
				Dimmer Mode 4			
			Dimmer Curve	Dimmer Curve 1		Dimmer Curve 2	
				Dimmer Curve 2			
				Dimmer Curve 3			
				Dimmer Curve 4			
				Dimmer Curve 5			
			PWM Frequency	600Hz		2000Hz	
				1200Hz			
				2000Hz			
				4000Hz			
				6000Hz			
				25000Hz			
			LED Reverse	Off		Off	
				On			
		Reset Setting	All	No		No	
				Yes			
			Tilt	No		No	
				Yes			
			Zoom	No		No	
				Yes			

DMX CHANNELS

32 Ch Mode				
DMX / NET	DMX +NET	Function	Value	Percent/Setting
4	4	Strobe	213-225	Random Slow Strobe
			226-238	Random Medium Strobe
			239-251	Random Fast Strobe
			252-255	Light ON
5	5	Dimmer	000-255	0~100%
6	6	CTO	000-009	OFF
			010-255	CTO 8000K~2700K
7	7	Background CTO	000-009	OFF
			010-255	CTO 8000K~2700K
8	8	Effects	000-005	No Function
			006-015	Effect 1
			016-023	Effect 2
			024-031	Effect 3
			032-038	Effect 4
			039-046	Effect 5
			047-054	Effect 6
			055-062	Effect 7
			063-069	Effect 8
			070-077	Effect 9
			078-085	Effect 10
			086-093	Effect 11
			094-100	Effect 12
			101-108	Effect 13
			109-116	Effect 14
			117-124	Effect 15
			125-131	Effect 16
			132-139	Effect 17
			140-147	Effect 18
			148-155	Effect 19
			156-162	Effect 20
			163-170	Effect 21
			171-178	Effect 22
			179-186	Effect 23
			187-193	Effect 24
			194-201	Effect 25
			202-209	Effect 26
			210-217	Effect 27
			218-224	Effect 28
			225-232	Effect 29
			233-240	Effect 30
			241-248	Effect 31
			249-255	Effect 32

DMX CHANNELS

14Ch Mode				
DMX / NET	DMX +NET	Function	Value	Percent/Setting
1	1	Tilt	000-255	0~100%
2	2	Zoom	000-255	From narrow to wide beam
3	3	Strobe	000-003	Light OFF
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light ON
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
			208-212	Light ON
			213-225	Random Slow Strobe
			226-238	Random Medium Strobe
			239-251	Random Fast Strobe
			252-255	Light ON
4	4	Dimmer	000-255	0~100%
5	5	White Strobe	000-003	Light OFF
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light ON
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
			208-212	Light ON
			213-225	Random Slow Strobe
			226-238	Random Medium Strobe
			239-251	Random Fast Strobe
			252-255	Light ON
6	6	White Dimmer	000-255	0~100%
7	1	Red	000-255	0~100%
8	2	Green	000-255	0~100%
9	3	Blue	000-255	0~100%
10	4	White	000-255	0~100%
11	5	Top Cool White	000-255	0~100%
12	6	Top Warm White	000-255	0~100%
13	7	Bottom Cool White	000-255	0~100%
14	8	Bottom Warm White	000-255	0~100%

DMX / NET	DMX +NET	Function	Value	Percent/Setting
1	1	Tilt	000-255	0~100%
2	2	Tilt Fine	000-255	0~100%
3	3	Zoom	000-255	From narrow to wide beam
4	4	Strobe	000-003	Light OFF
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light ON
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
			208-212	Light ON

MENU

NO.	Main Menu	Menu level 1	Menu level 2	Menu level3	Menu level4	Default	Description for use
3	INFORMATION	System Errors					
		System Version	DISP:V1.0				
			NET-V1.0				
			CTR1-XY:V1.0				
			CTR2-MOTOR:V1.0				
		Led Hours	Total Hours	0~65000H			
			Partial Hours	0~65000H	Reset		
					Go Back		
		Fixture Hours	Total Hours	0~65000H			
			Partial Hours	0~65000H	Reset		
					Go Back		
		Led Temperature	LED A				
			LED B				
			LED C				
			LED D				
		UID	030F0A2*****				
4	TEST	AUTO	Tilt				
			Colour				
			Zoom				
			All				
		Channel	1	Tilt	0-255		
			2	Zoom	0-255		
			3	Strobe	0-255		
			4	Dimmer	0-255		
			5	White Strobe	0-255		
			6	White Dimmer	0-255		
			7	Red	0-255		
			8	Green	0-255		
			9	Blue	0-255		
			10	White	0-255		
			11	Top Cool White	0-255		
			12	Top Warm White	0-255		
			13	Bottom Cool White	0-255		
			14	Bottom Warm White	0-255		
5	ADVANCED (Code:1234)	Calibration	Tilt Offset	000-255		128	
			Zoom Offset	000-255		128	
		Color Calibration	OFF				
			Factory Calibration	Red1-14	<125-255>		
				Green1-14	<125-255>		
				Blue1-14	<125-255>		
				White1-14	<125-255>	OFF	
			customized Calibration	Red1-14	<125-255>		
				Green1-14	<125-255>		
				Blue1-14	<125-255>		
				White1-14	<125-255>		
		Recove	No			No	
			Yes				