



## TECHNICAL SPECIFICATIONS

**Voltage Input(AC)** : 110V to 240V (+/- 10%, auto-ranging)(120V, 50/60Hz is for US and Canada Only)

**Current (AC)**: 1.63 Amps (110V) / 0.75 Amps (240V)

**Frequency** : 50/60Hz

**Source** : 672 Cool White LED Array

**Beam Angle** : 120 Degrees

**Light Output** : > 34,000 lumens

**Color Temperature**: 6500K

**Control Protocols**: DMX512 (1990) / DMX512A (RDM) / On-Board Menu

**Ambient Temperature**: -20 to 40 Degrees C (-4 to 104 Degrees F)

**Humidity** : 5%-95% Non condensing

**Cooling** : Fan cooling (2pcs fan 50\*50)

**Housing** : Sheet metal with powder painting

**Compliance** : CE Marked (International models)

**IP Rating**: IP20

**Dimensions (LxWxH)** : 320 x 180 x 205 mm

**Weight** : 10.0lbs(4.5Kg) - Luminaire only (no accessories)



## USER MANUAL BLITZ W4

Thank you for purchasing this product.  
For your own safety, please read this user  
manual carefully before you initially start-up

## TABLE OF CONTENTS

<b>PREFACE</b>		
About this Manual		2
Included Items		2
Accessories		2
BLITZ W4 Luminaire Power Input Cables (North American Models Only)		2
BLITZ W4 Luminaire Accessories		2
<b>BLITZ W4 LUMINAIRE OVERVIEW</b>		
BLITZ W4 Luminaire Components		3
Major Luminaire Components		3
LCD Display / Menu System		3
<b>INSTALLATION AND SET UP</b>		
Power Requirements		4
AC Power Operation		4
Connecting Power		4
Connecting BLITZ W4 Luminaires to AC Power		4 - 5
Connecting to the DMX512 Network		5 - 6
Mounting Luminaire		6 - 7
<b>OPERATION AND PROGRAMMING</b>		
LCD Display and Menu System		8
LCD Display and Menu System Operation		8
Edit a Preset		9
Settings		9
Status		9
BLITZ W4 Luminaires Menu Tree		10
Dimming Curve Selection		11
Master / Slave Operational Mode		11 - 12
<b>DMX CONTROL</b>		
Single Channel Mode		12
Three Channel Mode		13
Four Channel Mode		13
16-Bit Mode		14
Zone Mapping Mode		15
BLITZ W4 Luminaire RDM Parameter IDs		15 - 17
<b>CLEANING AND CARE</b>		
Special Cleaning and Care Instructions		18
Front Lens Cleaning		18
<b>TECHNICAL SPECIFICATIONS</b>		
BLITZ W4 Luminaire Operational Specifications		19
BLITZ W4 Luminaire Dimensions		19
<b>APPENDIX</b>		
APPENDIX I		20 - 21
APPENDIX II		22 - 23
APPENDIX III		24

## Appendix III

Table 15: Blitz W4 Luminaire Effects Details

DMX	Parameter	Range DMX	Range %	Defaults*	Description
x	Effects	0 - 255	0 - 100%	DMX 0	Controls strobe operations as follows . . .
					No Effect = DMX 0 - 5
					Ramp Up = DMX 6 - 42
					Ramp Down = DMX 43 - 85
					Ramp up/down = DMX 86 - 128
					Random = DMX 129 - 171
					Ring 1 = DMX 172 - 173
					Ring 2 = DMX 174 - 175
					Ring 3 = DMX 176 - 179
					Ring 4 = DMX 180 - 182
					Checker pattern A = DMX 183 - 184
					Checker pattern B = DMX 185 - 186
					Random zones = DMX 187 - 214
					Circle zone chase clockwise = DMX 215 - 235
					Circle zone chase counter-clockwise = DMX 236 - 255

Table 14: Blitz W4 Luminaire Strobe Duration

DMX Value	Percent (%)	Time(ms)
132		4330
133	52	4362
134		4395
135	53	4428
136		4461
137		4494
138	54	4526
139		4559
140	55	4592
141		4625
142		4658
143	56	4690
144		4723
145	57	4756
146		4789
147		4822
148	58	4854
149		4887
150	59	4920
151		4953
152		4986
153	60	5018
154		5051
155		5084
156	61	5117
157		5150
158	62	5182
159		5215
160		5248
161	63	5281
162		5314
163	64	5346
164		5379
165		5412
166	65	5445
167		5478
168	66	5510
169		5543
170		5576
171	67	5609
172		5642
173	68	5674
174		5707
175		5740
176	69	5773
177		5806
178		5838
179	70	5871
180		5904
181	71	5937
182		5970
183		6002
184	72	6035
185		6068
186	73	6101
187		6134
188		6166
189	74	6199
190		6232
191	75	6265
192		6298
193		6330
194	76	6363
195		6396
196	77	6429
197		6462

DMX Value	Percent (%)	Time(ms)
198		6494
199	78	6527
200		6560
201	79	6593
202		6626
203		6658
204	80	6691
205		6724
206	81	6757
207		6790
208		6822
209	82	6855
210		6888
211		6921
212	83	6954
213		6986
214	84	7019
215		7052
216		7085
217	85	7118
218		7150
219	86	7183
220		7216
221		7249
222	87	7282
223		7314
224	88	7347
225		7380
226		7413
227	89	7446
228		7478
229		7511
230	90	7544
231		7577
232	91	7610
233		7642
234		7675
235	92	7708
236		7741
237	93	7774
238		7806
239		7839
240	94	7872
241		7905
242	95	7938
243		7970
244		8003
245	96	8036
246		8069
247	97	8102
248		8134
249		8167
250	98	8200
251		8233
252	99	8266
253		8298
254		8331
255	100	8364

Note: White light mode (when strobe rate is also at 255)

# USER INSTRUCTION - BLITZ W4



## SAFETY INSTRUCTIONS

Every person involved with the installation, operation and maintenance of this device has to :

- be qualified
  - follow the instructions of this manual
- **CAUTION !** Be careful with your operations . With a dangerous voltage you can suffer a dangerous electric shock when touching the wires !
- This device has left our premises in absolutely perfect condition . In order to maintain this condition and to ensure a safe operation , it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual .
- **IMPORTANT:** Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems .
- Keep away from heaters and other heating sources !
  - If the device has been exposed to drastic temperature fluctuation (e. g .after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature .
  - Make sure that the power-cord is never crimped or damaged by sharp edges . Check the device and the power-cord from time to time.
  - If the external flexible cable or cord of this luminaire is damaged , it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard .
  - shields , lenses or ultraviolet screens shall be changed if they have become visibly damaged to such an extent that their effectiveness is impaired , for example by cracks or deep scratches .
  - Never let the power-cord come into contact with other cables ! Handle the power-cord and all connections with the mains with particular caution !
  - Make sure that the available voltage is not higher than stated in this manual .
  - Always disconnect from the mains , when the device is not in use or before cleaning it. Only handle the power-cord by the plug . Never pull out the plug by tugging the power-cord .

- During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.

- **DANGER OF BURNING !** Never touch the device during the operation. The housing heats up to the housing temperature TSURFACE.
- Don't switch the device on and off in short intervals as this would reduce the lamp's life.

- **HEALTH HAZARD !** Never look directly into the light source, as sensitive persons may suffer an epileptic shock (especially meant for epileptics)
- Always disconnect from the mains, when the device is not in use or before cleaning it.
- Please note that damages caused by manual modifications on the device or unauthorized operation by unqualified persons are not subject to warranty.
- Keep away children and amateurs from the device !
- There are no serviceable parts inside the device. Maintenance and service operations are only to be carried out by authorized dealers.

## PREFACE

### 1. About this Manual

The document provides installation and operation instructions for the following products:  
 > BLITZ W4 Luminaire  
 Please read all instructions before installing or using this product. Retain this manual for future reference. Additional product information and descriptions may be found on the product specification sheet.

Note: The BLITZ W4 Luminaire is universal voltage 110 to 240 VAC (auto-ranging).

### 2. Included Items

Each BLITZ W4 Luminaire includes the following items:  
 > BLITZ W4 Luminaire  
 > Installation and User's Manual (this document)

### 3. Accessories

#### BLITZ W4 Luminaire Power Input Cables (North American Models Only)

Part Number	Description
PC1BE	BLITZ W4 Luminaire AC Power Input Cable (39 inches / 1 meter), Powercon with Bare End* (*Note, user supplies and installs own AC input connector)
PC1GP	BLITZ W4 Luminaire AC Power Input Cable (39 inches / 1 meter), Powercon with Stagepin Connector
PC1GTL	BLITZ W4 Luminaire AC Power Input Cable (39 inches / 1 meter), Powercon with Twistlock Connector
PC1GR	BLITZ W4 Luminaire AC Power Input Cable (39 inches / 1 meter), Powercon with Edison Connector
PC3BE	BLITZ W4 Luminaire AC Power Input Cable (9.8 Feet / 3 meter), Powercon with Bare End
PC8BE	BLITZ W4 Luminaire AC Power Input Cable (26 Feet / 8 meter), Powercon with Bare End
PC8GR	BLITZ W4 Luminaire AC Power Input Cable (26 Feet / 8 meter), Powercon with Edison Connector

#### BLITZ W4 Luminaire Accessories

Part Number	Description
MC	Mega Claw, Black, Anodized
SC	Molded Yoke C-Clamp
HC	Light Weight Half Coupler
82003	Safety Cable

## Appendix II

DMX Value	Percent (%)	Time(ms)
0	0	0
1		33
2		66
3	1	98
4		131
5	2	164
6		197
7		230
8	3	262
9		295
10	4	328
11		361
12		394
13	5	426
14		459
15	6	492
16		525
17		558
18	7	590
19		623
20	8	656
21		689
22		722
23	9	754
24		787
25	10	820
26		853
27		886
28	11	918
29		951
30		984
31	12	1017
32		1050
33	13	1082
34		1115
35		1148
36	14	1181
37		1214
38	15	1246
39		1279
40		1312
41	16	1345
42		1378
43	17	1410
44		1443
45		1476
46	18	1509
47		1542
48	19	1574
49		1607
50		1640
51	20	1673
52		1706
53		1738
54	21	1771
55		1804
56	22	1837
57		1870
58		1902
59	23	1935
60		1968
61	24	2001
62		2034
63		2066
64	25	2099
65		2132

Table 14: Blitz W4 Luminaire Strobe Duration

DMX Value	Percent (%)	Time(ms)
66	26	2165
67		2198
68		2230
69	27	2263
70		2296
71	28	2329
72		2362
73		2394
74	29	2427
75		2460
76	30	2493
77		2526
78		2558
79	31	2591
80		2624
81		2657
82	32	2690
83		2722
84	33	2755
85		2788
86		2821
87	34	2854
88		2886
89	35	2919
90		2952
91		2985
92	36	3018
93		3050
94	37	3083
95		3116
96		3149
97	38	3182
98		3214
99	39	3247
100		3280
101		3313
102	40	3346
103		3378
104		3411
105	41	3444
106		3477
107	42	3510
108		3542
109		3575
110	43	3608
111		3641
112	44	3674
113		3706
114		3739
115	45	3772
116		3805
117	46	3838
118		3870
119		3903
120	47	3936
121		3969
122	48	4002
123		4034
124		4067
125	49	4100
126		4133
127		4166
128	50	4198
129		4231
130	51	4264
131		4297

Table 13: Blitz W4 Luminaire Strobe Rate Details

DMX Value	Percent (%)	Frequency(Hz)	DMX Value	Percent (%)	Frequency(Hz)
91		0.753	157		1.244
92	36	0.753	158	62	1.244
93		0.762	159		1.270
94	37	0.762	160		1.270
95		0.772	161	63	1.297
96		0.772	162		1.297
97	38	0.782	163	64	1.326
98		0.782	164		1.326
99	39	0.792	165		1.355
100		0.792	166	65	1.355
101		0.802	167		1.386
102	40	0.802	168	66	1.386
103		0.813	169		1.418
104		0.813	170		1.418
105	41	0.824	171	67	1.452
106		0.824	172		1.452
107	42	0.835	173	68	1.452
108		0.835	174		1.487
109		0.847	175		1.487
110	43	0.847	176	69	1.524
111		0.859	177		1.524
112	44	0.859	178		1.563
113		0.871	179	70	1.563
114		0.871	180		1.605
115	45	0.884	181	71	1.605
116		0.884	182		1.648
117	46	0.884	229		4.065
118		0.897	230	90	4.355
119		0.897	231		4.355
120	47	0.910	232	91	4.690
121		0.910	233		4.690
122	48	0.924	234		5.081
123		0.924	235	92	5.081
124		0.938	236		5.543
125	49	0.938	237	93	5.543
126		0.953	238		6.098
127		0.953	239		6.098
128	50	0.968	240	94	6.775
129		0.968	241		6.775
130	51	0.983	242	95	7.622
131		0.983	243		7.622
132		1.000	244		8.711
133	52	1.000	245	96	8.711
134		1.016	246		10.163
135	53	1.016	247	97	10.163
136		1.033	248		12.195
137		1.033	249		12.195
138	54	1.051	250	98	15.244
139		1.051	251		15.244
140	55	1.070	252	99	20.325
141		1.070	253		20.325
142		1.089	254		30.488
143	56	1.089	255	100	30.488
144		1.089			
145	57	1.109			
146		1.109			
147		1.129			
148	58	1.129			
149		1.150			
150	59	1.150			
151		1.173			
152		1.173			
153	60	1.196			
154		1.196			
155		1.220			
156	61	1.220			

Note: White light mode (when strobe duration is also at 255)

# BLITZ W4 LUMINAIRE OVERVIEW

## 1. BLITZ W4 Luminaire Components

### Major Luminaire Components

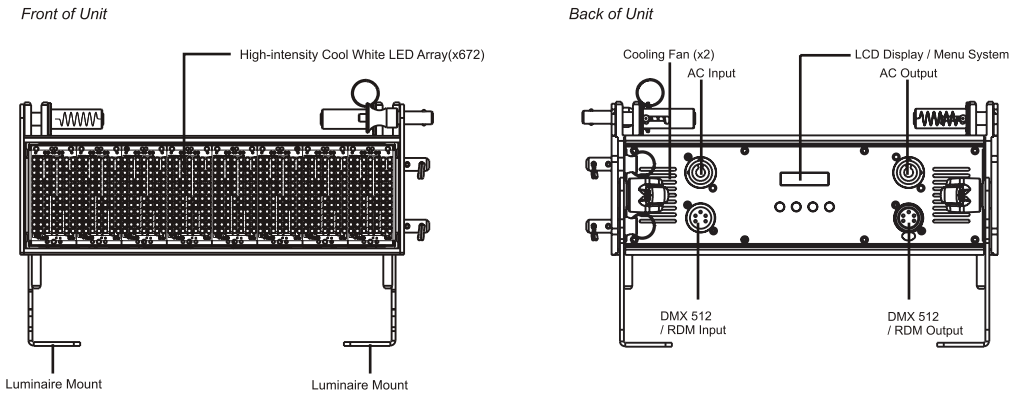


Figure 1: BLITZ W4 Luminaire Components

## LCD Display / Menu System

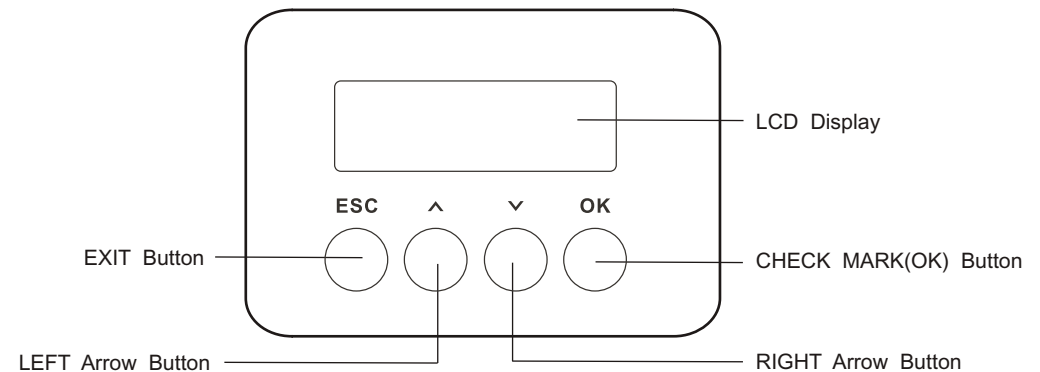


Figure 2: LCD Display & Menu System

Note: For Menu operation and programming details, refer to "LCD Display and Menu System" on page 8.

# INSTALLATION AND SET UP

## 1. Power Requirements

The BLITZ W4 Luminaire operates on AC input voltages from 110 to 240 VAC.

**WARNING!** This unit does not contain an ON/OFF switch. Always disconnect power input cable to completely remove power from unit when not in use.

### AC Power Operation

When connected to an AC source, the unit operates on 110 to 240 volts AC (+/- 10%, auto-ranging). The luminaire contains an auto-ranging power supply. Each luminaire can draw up to 180 Watts.

**WARNING!** Maximum amount of units that may be daisy-chained is (A) 10 units 110 ~ 120VAC (15 Amps) or (B) 20 units 230 ~ 240VAC (15 Amps).

**Table 1 BLITZ W4 Luminaire Voltage (VAC) vs. Current\***

Voltage (AC)	Total Current (A)	Voltage (AC)	Total Current (A)
110	1.63	180	1.00
120	1.50	190	0.95
130	1.38	200	0.90
140	1.29	210	0.86
150	1.20	220	0.82
160	1.13	230	0.78
170	1.06	240	0.75

Note: For wiring of AC input connector, refer to "Connecting BLITZ W4 Luminaires to AC Power" on page 5.

## 2. Connecting Power

Units can be powered in one of two ways:

- > Direct connection to an AC power source. Using an AC input cable. For wiring of AC input connector, refer to "Connecting BLITZ W4 Luminaires to AC Power" on page 5.
- > Connection from the AC output of another BLITZ W4 LED Luminaire. When using this method, it is very important not to connect any other type of equipment device.

**WARNING!** Only connect other BLITZ W4 Luminaires to the AC Output (Thru) connector of an BLITZ W4 LED Luminaire.

### Connecting BLITZ W4 Luminaires to AC Power

Table 2 on page 5 describes how to connect power to your BLITZ W4 Luminaire. Field wiring of the BLITZ W4 LED Luminaire is straight forward. A total of 3 wires/conductors is supplied from the unit.

The following wiring scheme is used:

## Appendix I

Table 13: Blitz W4 Luminaire Strobe Rate Details

DMX Value	Percent (%)	Frequency(Hz)	DMX Value	Percent (%)	Frequency(Hz)
0	0	DMX 0-5 – No Flash (single flash with value>5 on intensity one time)	66	26	0.656
1			67		0.656
2			68		0.663
3	1		69	27	0.663
4			70		0.670
5	2		71	28	0.670
6		0.500	72		0.678
7		0.500	73		0.678
8	3	0.504	74	29	0.685
9		0.504	75		0.685
10	4	0.508	76	30	0.693
11		0.508	77		0.693
12		0.512	78		0.701
13	5	0.512	79	31	0.701
14		0.517	80		0.709
15	6	0.517	81		0.709
16		0.521	82	32	0.717
17		0.521	83		0.717
18	7	0.526	84	33	0.726
19		0.526	85		0.726
20	8	0.530	86		0.735
21		0.530	87	34	0.735
22		0.535	88		0.735
23	9	0.535	89	35	0.744
24		0.540	90		0.744
25	10	0.540	91		0.753
26		0.544	92	36	0.753
27		0.544	93		0.762
28	11	0.549	94	37	0.762
29		0.549	95		0.772
30		0.554	96		0.772
31	12	0.554	97	38	0.782
32		0.554	98		0.782
33	13	0.559	99	39	0.792
34		0.559	100		0.792
35		0.565	101		0.802
36	14	0.565	102	40	0.802
37		0.570	103		0.813
38	15	0.570	104		0.813
39		0.575	105	41	0.824
40		0.575	106		0.824
41	16	0.581	107	42	0.835
42		0.581	108		0.835
43	17	0.586	109		0.847
44		0.586	110	43	0.847
45		0.592	111		0.859
46	18	0.592	112	44	0.859
47		0.598	113		0.871
48	19	0.598	114		0.871
49		0.604	115	45	0.884
50		0.604	116		0.884
51	20	0.610	117	46	0.884
52		0.610	118		0.897
53		0.616	119		0.897
54	21	0.616	120	47	0.910
55		0.622	121		0.910
56	22	0.622	122	48	0.924
57		0.629	123		0.924
58		0.629	124		0.938
59	23	0.635	125	49	0.938
60		0.635	126		0.953
61	24	0.635	127		0.953
62		0.642			
63		0.642			
64	25	0.649			
65		0.649			

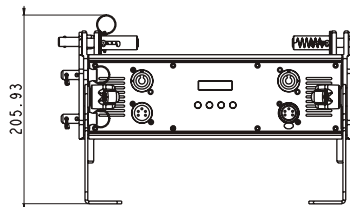
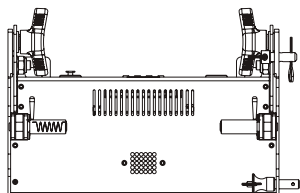
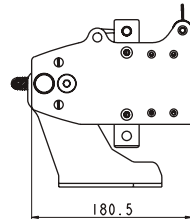
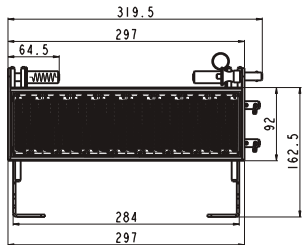
# TECHNICAL SPECIFICATIONS

## 1. Blitz W4 Luminaire Operational Specifications

Source:	672 Cool White LED Array
Beam Angle:	120 Degrees
Light Output:	> 34,000 lumens
Color Temperature:	6500K
Input Voltage (AC):	100V to 240V (+/- 10%, auto-ranging)(120V, 50/60Hz is for US and Canada Only)
Current (AC):	1.63 Amps (110V) / 0.75 Amps (240V)
Power Consumption:	180W max.
Frequency:	50/60Hz
Control Protocols:	DMX512 (1990) / DMX512A (RDM) / On-Board Menu
Ambient Temperature:	-20 to 40 Degrees C (-4 to 104 Degrees F)
Humidity:	5%-95% Non condensing
Cooling:	Fan cooling (2pcs fan 50*50)
Weight:	10.0lbs(4.5Kg) - Luminaire only (no accessories)
Housing:	Sheet metal with powder painting
Compliance:	CE Marked (International models)
IP Rating:	IP20

**Note:** Common model specifications shown. For specific model specifications, features, and accessories, refer to the product specification sheet for more details.

## 2. Blitz W4 Luminaire Dimensions



**Table 2: BLITZ W4 Luminaire (IP20 Rated Models) AC Input Connections**

EU Standard		US/CSA Standard	
Wire Color	Purpose	Wire Color	Purpose
Brown	Main / Line (110 to 240VAC)	Black	Main / Line (110 to 240VAC)
Blue	Neutral	White	Neutral
Green/Yellow	Ground (Earth)	Green/Yellow	Ground (Earth)

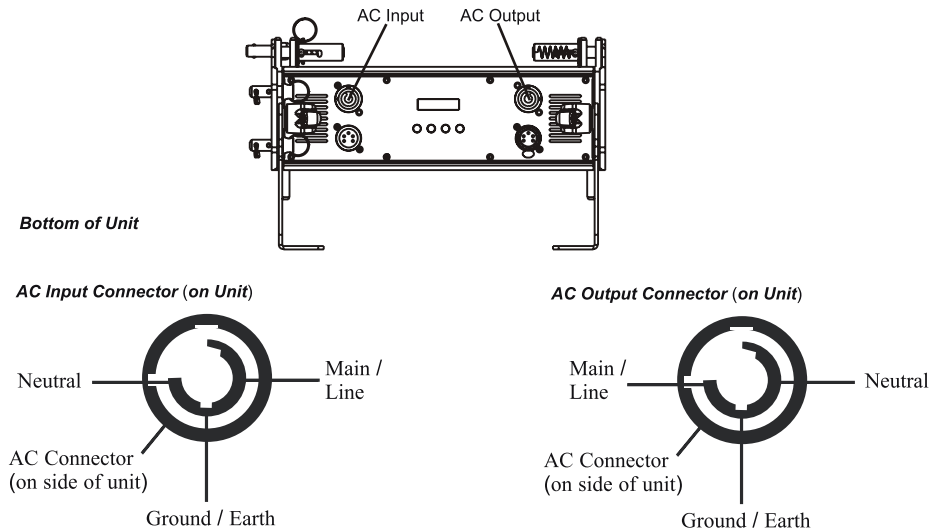


Figure 3: BLITZ W4 Luminaire AC Input & Output Connections

**CAUTION:** In the event the AC input cable of this luminaire is damaged, it must be replaced, by the user, with an approved cable through an Authorized Dealer or Service Center.

## 3. Connecting to the DMX512 Network

Basic DMX512 installation consists of connecting multiple BLITZ W4 luminaires together (up to 32 luminaires) in "daisy-chain" fashion. A cable runs from the control console (or DMX512 control source) to the DMX connector on the first BLITZ W4 Luminaire. Another cable runs from the other DMX connector on the first unit to a DMX connector on the next BLITZ W4 Luminaire (or DMX512 device to be controlled).

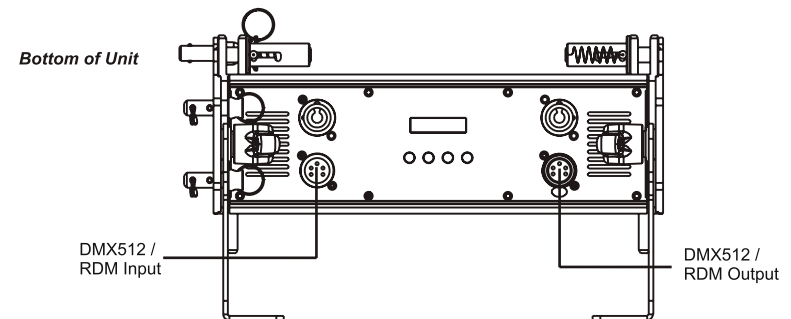


Figure 4: BLITZ W4 Luminaire DMX512 Input / Output Connections

**Note:** For more information on DMX512 networking and systems, refer to "Additional Resources for DMX512" on page 2. For BLITZ W4 Luminaire DMX Mapping, refer to "DMX CONTROL" on page 12.

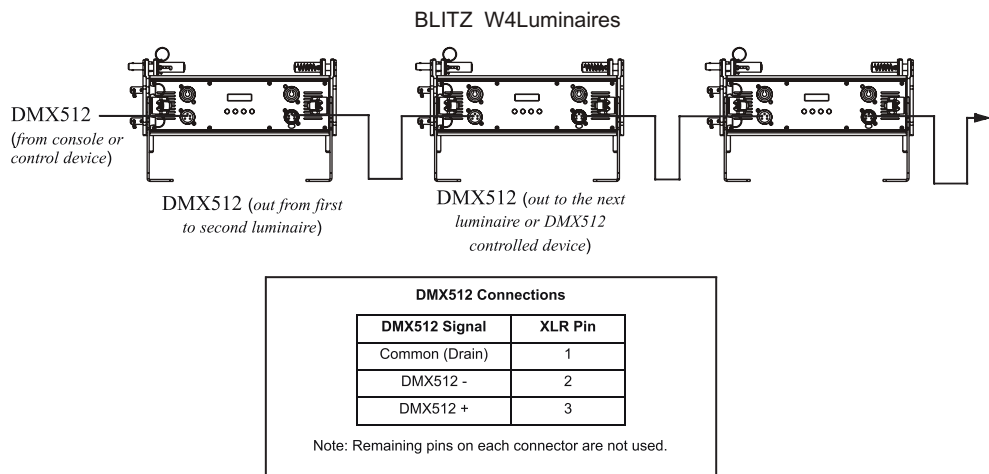


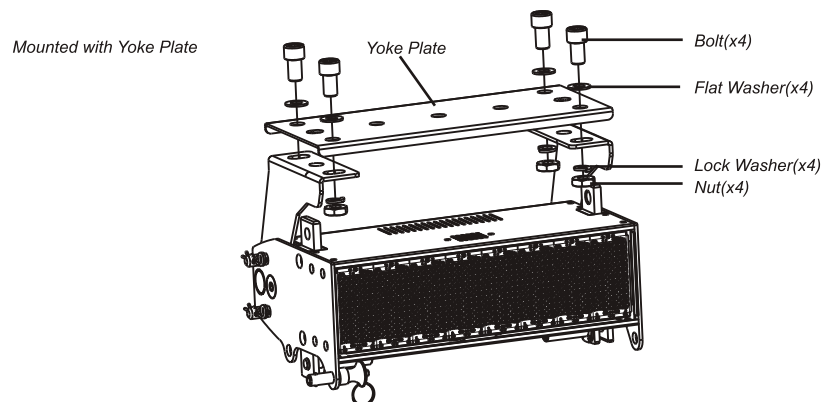
Figure 5: BLITZ W4 Luminaire - DMX512 Connections

## 4. Mounting Luminaire

### Truss / Hanging Applications

BLITZ W4 Luminaire is provided with the ability to hang via truss hooks, clamps, etc. (sold separately) Simply attach hook, clamp, etc. to the BLITZ W4 Luminaire enclosure assembly in the provided M10 may be required by local and national safety codes) holes. It is recommended (and to use and install a safety cable (sold separately) as illustrated in Figure 6. When hanging the fixture, be sure to leave enough space around the luminaire to allow proper, uninterrupted airflow for cooling and positioning. Refer to "Luminaire Dimensions" on page 19 for spacing (dimensional) requirements.

\* Each BLITZ W4 Luminaire includes an accessory Yoke plate. This can be added to the luminaire to allow hanging with a single clamp.



## CLEANING AND CARE



**WARNING !** All cleaning should be performed with power completely removed from the luminaire. Never remove protective covers when luminaire is powered. Wear appropriate protective eye wear and gloves when cleaning the fixture. All service and maintenance, other than described herein, should be performed by a qualified technician or Authorized Service Center.

### 1. Special Cleaning and Care Instructions

Being a solid-state fixture, and unlike most fixtures, the BLITZ W4 Luminaire requires very little routine maintenance by the user. This section covers portions of the luminaire that can be removed for cleaning. The BLITZ W4 Luminaire special care when it comes to cleaning front lens assembly. Additional care needs to be taken with the plastic components because they are much easier to scratch or damage than glass. The following is a list of cleaning materials required to care for your BLITZ W4 Luminaire:

- > Lint free lens tissue
- > Lint or powder free gloves
- > Reagent grade isopropyl alcohol\*
- > A mild soap solution.

**Note:** \*Reagent grade isopropyl alcohol is good to use on the BLITZ W4 Luminaire plastic optics with anti-reflection coatings.

If the lens is still dirty after using isopropyl alcohol, for instance if fingerprints or oil is just redistributed and not cleaned off the optic, then a mild soap and water solution can be used to gently wash the lens. Repeat the cleaning with isopropyl alcohol to eliminate streaks and soap residue.



**WARNING!** Under no circumstances should ammonia-based cleaners, acetone, or other harsh solvents be used on or near the BLITZ W4 Luminaire. These types of cleaners or solvents can permanently damage the optics or housings of the fixture.

### 2. Front Lens Cleaning

#### To clean the front lens:

- Step 1. Disconnect luminaire from power and allow to cool completely.
- Step 2. Apply a small amount of reagent grade isopropyl alcohol to lint-free lens tissue.
- Step 3. Wipe all debris, dirt, fingerprints, etc. from lens.
- Step 4. Using a second lint-free lens tissue, wipe off any alcohol residue.



Table 10: BLITZ W4 Luminaire RDM Parameters IDs

Get Allowed	Set Allowed	RDM Parameter IDs	Value	Comment	Implemented
	■	RECORD_SENSORS	0x0202		
<b>Category - Dimmer Settings 0x03xx - FUTURE USE</b>					
<b>Category - Power / Lamp Settings 0x04xx</b>					
■	■	DEVICE_HOURS	0x0400		
■	■	LAMP_HOURS	0x0401		
■	■	LAMP_STRIKES	0x0402		
■	■	LAMP_STATE	0x0403		
■	■	LAMP_ON_MODE	0x0404		
■	■	DEVICE_POWER_CYCLES	0x0405		
<b>Category - Display Settings 0x05xx</b>					
■	■	DISPLAY_INVERT	0x0500		
■	■	DISPLAY_LEVEL	0x0501		
<b>Category - Configuration 0x06xx</b>					
■	■	PAN_INVERT	0x0600		
■	■	TILT_INVERT	0x0601		
■	■	PAN_TILT_SWAP	0x0602		
■	■	REAL_TIME_CLOCK	0x0603		
<b>Category - Control 0x10xx</b>					
■	■	IDENTIFY_DEVICE	0x1000		■
	■	RESET_DEVICE	0x1001		
■	■	POWER_STATE	0x1010		
■	■	PERFORM_SELFTEST	0x1020		
■	■	SELF_TEST_DESCRIPTION	0x1021		
	■	CAPTURE_PRESET	0x1030		
■	■	PRESET_PLAYBACK	0x1031		

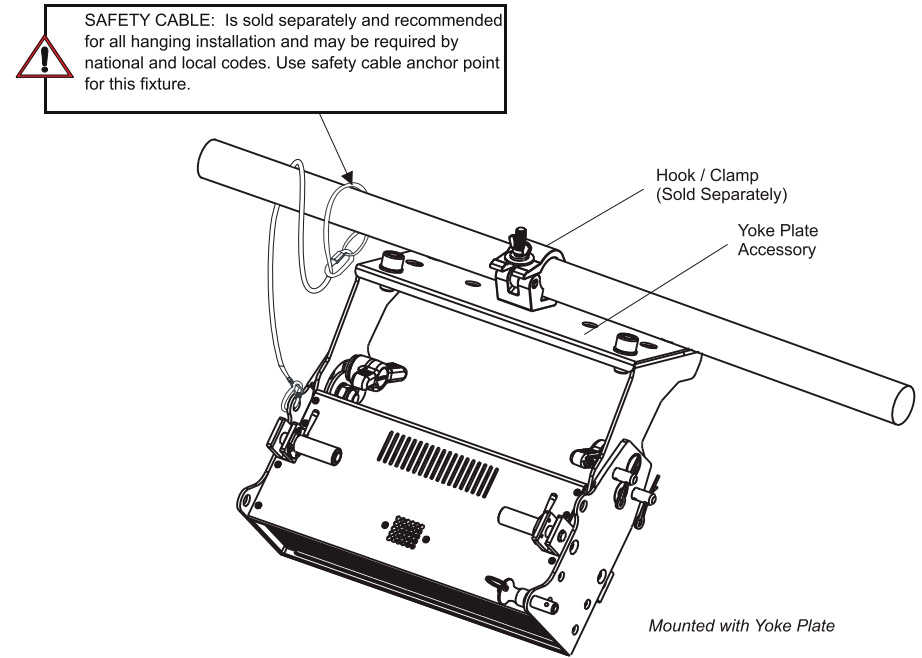
Table 11: BLITZ W4 Luminaire RDM Manufacturer Status IDs

**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 ID Message	Value	Data Value 1	Data Value 2	Status ID Description
8100H		00H	00H	ALL OK

Table 12: BLITZ W4 Luminaire RDM Manufacturer Specific PIDs

Get Allowed	Set Allowed	RDM Parameter IDs	Type	Length	Unit	Prefix	Min	Max	Default	Description
<b>Category - Manufacturer Defined PIDs - Range is 0x8000-0xffdf (See ANSI E1.20-2010 Standard, Table A-3)</b>										
■	■	8A00H	U8	1	None	None	0	100	100	DIMMER
■	■	8AB2H	U8	1	None	None	1	18	1	Chase
■	■	8AB1H	U8	1	None	None	0	31	0	Preset
■	■	8A92H	U8	1	None	None	0	255	0	Strobe
■	■	8A94H	U8	1	None	None	0	85	0	Duration
■	■	8A40H	U8	1	None	None	0	1	0	Link Mode
■	■	8AA1H	U8	1	None	None	0	3	0	Dimming Curve
■	■	8A0CH	U8	1	None	None	0	3	0	DMX FAIL MODE
■	■	8AA0H	U8	1	None	None	0	4	0	Backlight Off Time
■	■	8AA2H	U8	1	None	None	0	50	0	Power Up Setup
■	■	8A97H	U8	1	None	None	0	1	0	Fan AUTO/OFF Setup
■	■	8A98H	U8	1	None	None	0	255	0	EFFECT



**Note:** Mounting hooks, clamps, safety cables, etc. are sold separately or by others. For mounting accessories available for this product, refer to "Accessories" on page 2.

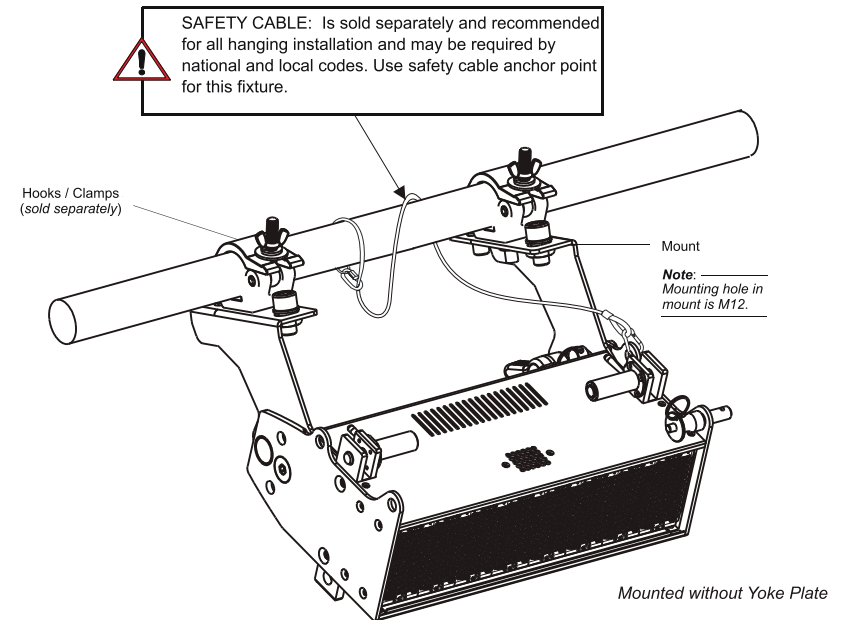


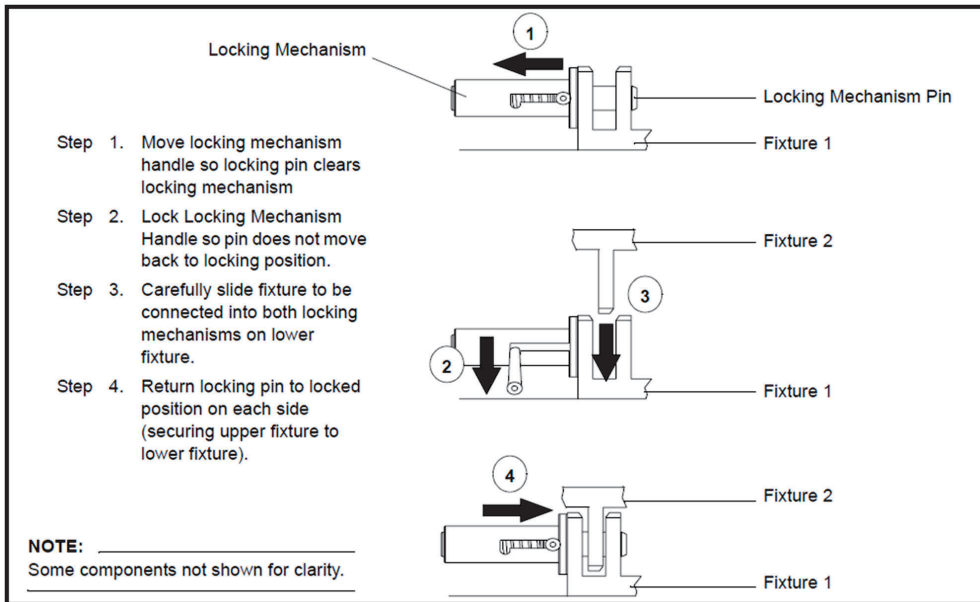
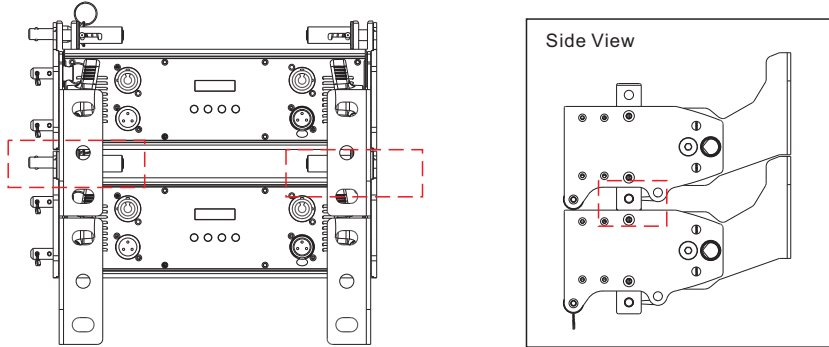
Figure 6: Mounting the Fixture

## Connecting & Mounting Multiple Luminaires

BLITZ W4 include a built-in Quick Connect system that allows the luminaires to be physically connected together while retaining perfect pixel pitch. Units may be connected in top-to-bottom or side-by-side to allow for a range of configurations.

### Connecting Luminaires Top-to-Bottom

Each BLITZ W4 includes two built-in Quick Connect slot and pin systems as illustrated below. This allows a quick connection of units when stacked on top of each other. Up to twenty BLITZ W4 luminaires may be supported when connected using the Quick Connect system.



**WARNING!** Your structure must be capable of properly supporting the weight of multiple connected fixtures. Each fixture must use an approved safety cable attached to a fixed object. Up to twenty BLITZ W4 Luminaires may be supported when connected using the Quick Connect system. When connecting units together, ensure all Quick-Connect pins are in the “engaged position.”

### Connecting Luminaires Side-to-Side

Each BLITZ W4 ships with three Luminaire Connecting Pins as indicated in the figure below. All three pins are used to connect two luminaires together linearly. Each fixture must be mounted using its own mounting hardware. The side-to-side pins are only to align the luminaires and do not provide hanging support.

Table 10: BLITZ W4 Luminaire RDM Parameters IDs

Get Allowed	Set Allowed	RDM Parameter IDs	Value	Comment	Implemented
<b>Category - Network Management</b>					
		DISC_UNIQUE_BRANCH	0x0001		■
		DISC_MUTE	0x0002		■
		DISC_UN_MUTE	0x0003		■
■		PROXIED_DEVICES	0x0010		
■		PROXIED_DEVICES_COUNT	0x0011		
■	■	COMMS_STATUS	0x0015		
<b>Category - Status Collection</b>					
■		QUEUED_MESSAGE	0x0020		■
■		STATUS_MESSAGES	0x0030		■
■		STATUS_ID_DESCRIPTION	0x0031		■
	■	CLEAR_STATUS_ID	0x0032		■
■	■	SUB_DEVICE_STATUS_REPORT_THRESHOLD	0x0033		
<b>Category - RDM Information</b>					
■		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.	■
<b>Category - Product Information</b>					
■		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		
<b>Category - DMX512 Setup</b>					
■	■	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		
<b>Category - Sensors 0x02xx</b>					
■		SENSOR_DEFINITION	0x0200		■
■	■	SENSOR_VALUE	0x0201		■

## 5. Zone Mapping Mode

Table 7 provides DMX channel mapping of all DMX512 control values when the BLITZ W4 Luminaire is in zone mapping Mode (as set by the luminaire's menu system).

Table 7: BLITZ W4 Luminaire DMX Channel Mapping (Zone Mapping Mode)

DMX	Parameter	Range DMX	Range %	Defaults*	Description
1	Master Intensity Hight	0 - 65535	0 - 100%	0	16 bit control for Intensity of LED settings.
2	Master Intensity Low				
3	Effects	0 - 255	0 - 100%	0	Effects.(reference the Effects detail)
4	Control Channel	0 - 255	0 - 100%	0	Control Channel(reference the Control Channel detail)
5	Zone 1 Intensity	0 - 255	0 - 100%	0	8 bit control for zone Intensity.
6	Zone 1 Strobe Duration	0 - 255	0 - 100%	0	Strobe's duration,( reference the Strobe Duration Detail.)
7	Zone 1 Strobe Rate	0 - 255	0 - 100%	0	Strobe rate slow to fast.(reference the Strobe Rate detail)
8	Zone 2 Intensity	0 - 255	0 - 100%	0	8 bit control for zone Intensity.
9	Zone 2 Strobe Duration	0 - 255	0 - 100%	0	Strobe's duration,( reference the Strobe Duration Detail.)
10	Zone 2 Strobe Rate	0 - 255	0 - 100%	0	Strobe rate slow to fast.(reference the Strobe Rate detail)
11	Zone 3 Intensity	0 - 255	0 - 100%	0	8 bit control for zone Intensity.
12	Zone 3 Strobe Duration	0 - 255	0 - 100%	0	Strobe's duration,( reference the Strobe Duration Detail.)
13	Zone 3 Strobe Rate	0 - 255	0 - 100%	0	Strobe rate slow to fast.(reference the Strobe Rate detail)
14	Zone 4 Intensity	0 - 255	0 - 100%	0	8 bit control for zone Intensity.
15	Zone 4 Strobe Duration	0 - 255	0 - 100%	0	Strobe's duration,( reference the Strobe Duration Detail.)
16	Zone 4 Strobe Rate	0 - 255	0 - 100%	0	Strobe rate slow to fast.(reference the Strobe Rate detail)

## 6. BLITZ W4 Luminaire RDM Parameter IDs

The following tables outline and describe all the RDM parameters IDs associated with BLITZ W4 Luminaires.

Table 8, "BLITZ W4 Luminaire RDM Product Parameters IDs"

Table 9, "BLITZ W4 Luminaire RDM UID"

Table 10, "BLITZ W4 Luminaire RDM Parameters IDs," on page 16

Table 11, "BLITZ W4 Luminaire RDM Manufacturer Status IDs," on page 17

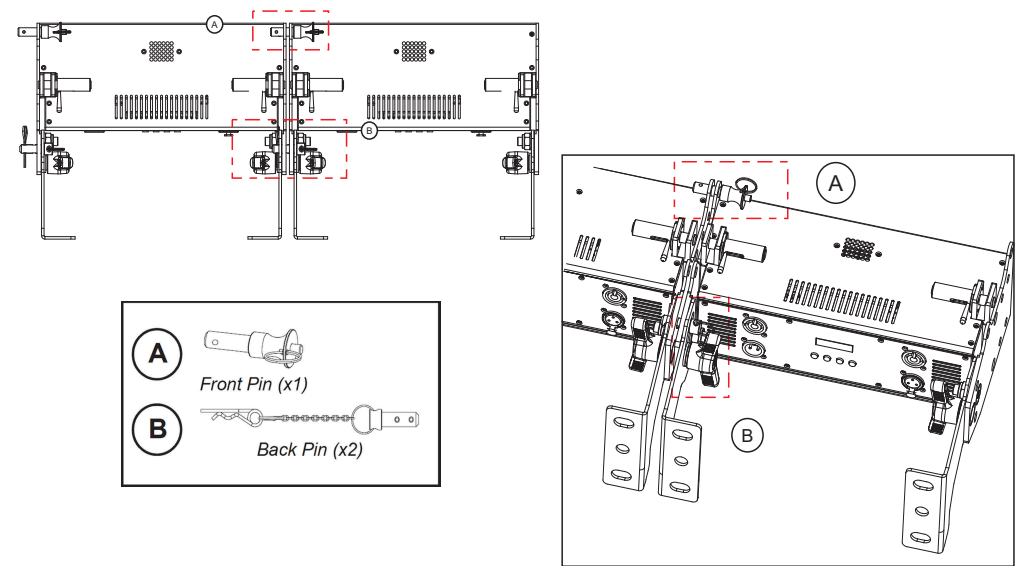
Table 12, "BLITZ W4 Luminaire RDM Manufacturer Specific PIDs for Root Device," on page 17

Table 8: BLITZ W4 Luminaire RDM Product Parameters IDs

Model ID	Manufacturer	Model Description	Product Category
0x11e0	Philips Entertain. Lighting Asia	ES-2000	0x0509

Table 9: BLITZ W4 Luminaire RDM UID

UID					
MSB of ESTA 50H	LSB of ESTA 41H	MSB of Unique Seq.	LSB of Unique Seq.	MSB of Unique Seq.	LSB of Unique Seq.



**WARNING!** Each fixture must use an approved safety cable attached to a fixed object.

## OPERATION AND PROGRAMMING

### 1. LCD Display and Menu System

The BLITZ W4 Luminaire's LCD Display and Menu System provides local control for accessing the following fixture's settings:

- > Presets (Standard and User Defined)
- > Fixture Settings
- > Effects(Chases - preloaded and user defined)
- > Current Fixture Operational Status

Note: If there are multiple luminaires in a system, changes would need to be made at each LCD Menu as desired.

Upon power up, the LCD will display the main screen showing menu of Mini Strobe. User can use " ^ " and " v " to select then enter the desired function menu.

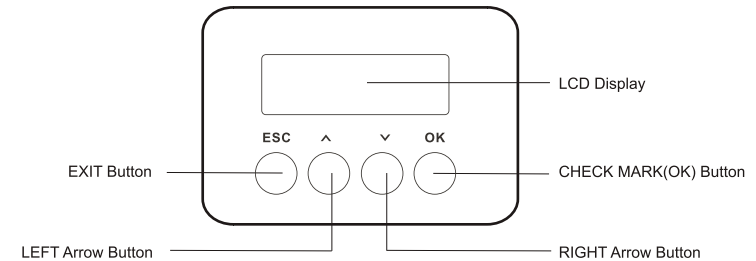


Figure 7: LCD Display and Menu System

### 2. LCD Display and Menu System Operation

The LCD Display Menu system consists of several categories. Upon power up, the LCD will display the main menu automatically. There are totally 4 menus available including Preset, Chase Settings and Status. When the desired menu item is reached, press OK button to display the menu options and to navigate and configure the menu options as required.



## 2. Three Channel Mode

Table 4 provides DMX channel mapping of all DMX512 control values when the BLITZ W4 Luminaire is in Three Channel mode (as set by the luminaire's menu system).

Table 4: BLITZ W4 Luminaire DMX Channel Mapping (Three Channel Mode)

DMX	Parameter	Range DMX	Range %	Defaults*	Description
1	Intensity	0 - 255	0 - 100%	0	8 bit control for Intensity of LED settings.
2	Strobe Duration	0 - 255	0 - 100%	0	Strobe's duration, Range is 0-255 White light mode (when strobe rate is also at 255) Please reference the Strobe Duration Detail
3	Strobe Rate	0 - 255	0 - 100%	0	Strobe rate slow to fast. White light mode (when strobe duration is also at 255) Please reference the Strobe Rate detail.

## 3. Four Channel Mode

Table 5 provides DMX channel mapping of all DMX512 control values when the BLITZ W4 Luminaire is in Four Channel mode (as set by the luminaire's menu system).

Table 5: BLITZ W4 Luminaire DMX Channel Mapping (Four Channel Mode)

DMX	Parameter	Range DMX	Range %	Defaults*	Description
1	Intensity	0 - 255	0 - 100%	0	8 bit control for Intensity of LED settings.
2	Strobe Duration	0 - 255	0 - 100%	0	Strobe's duration, Range is 0-255 White light mode (when strobe rate is also at 255) Please reference the Strobe Duration Detail.
3	Strobe Rate	0 - 255	0 - 100%	0	Strobe rate slow to fast. White light mode (when strobe duration is also at 255) Please reference the Strobe Rate detail.
4	Effects	0 - 255	0 - 100%	DMX 0	Controls strobe operations as follows . . . <b>No Effect</b> = DMX 0 - 5 Ramp Up = DMX 6 - 42 Ramp Down = DMX 43 - 85 Ramp up/down = DMX 86 - 128 Random = DMX 129 - 171 Ring 1 = DMX 172 - 173 Ring 2 = DMX 174 - 175 Ring 3 = DMX 176 - 179 Ring 4 = DMX 180 - 182 Checker pattern A = DMX 183 - 184 Checker pattern B = DMX 185 - 186 Random zones = DMX 187 - 214 Circle zone chase clockwise = DMX 215 - 235 Circle zone chase counter-clockwise = DMX 236 - 255

## 3. BLITZ W4 LED Luminaire Menu Tree

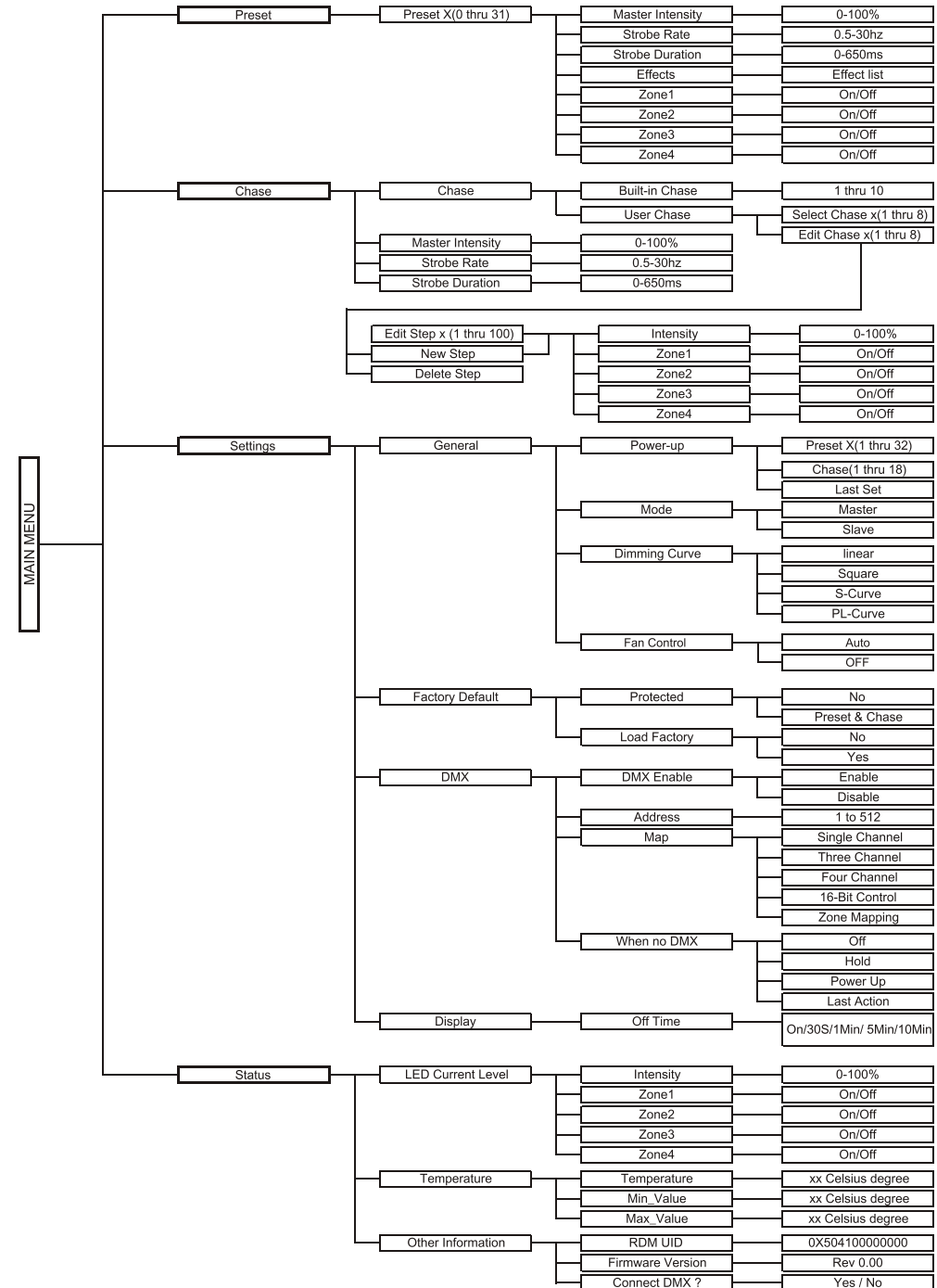
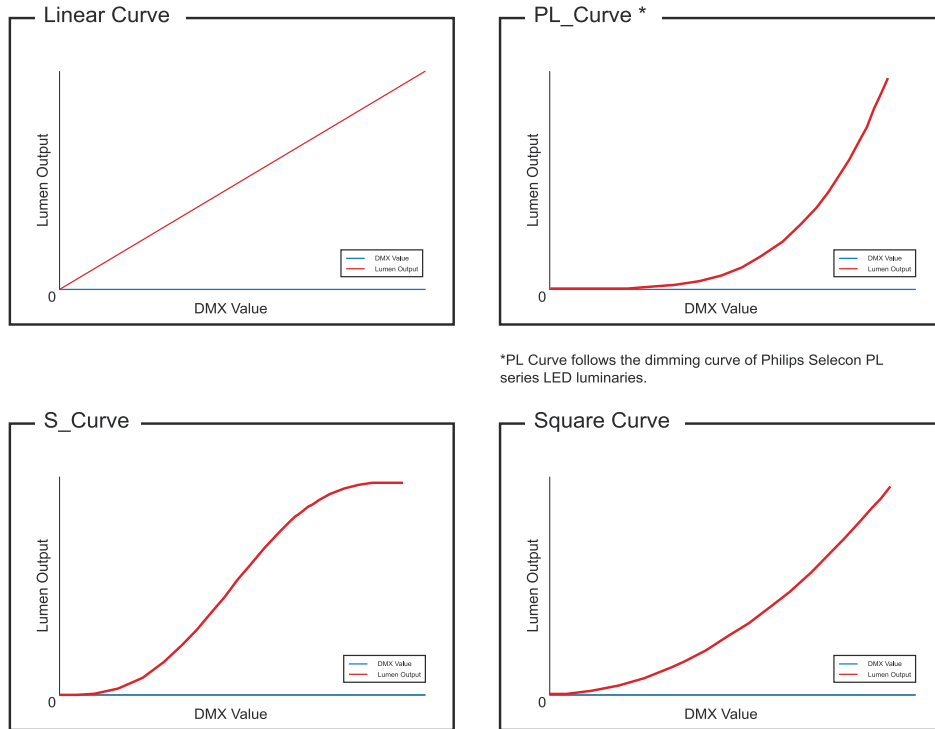


Figure 8: BLITZ W4 Luminaire Menu Tree

## 4. Dimming Curve Selection

Through the menu, you are able to select one off our dimming curves:

- > Linear Curve
- > PL\_Curve
- > S\_Curve
- > Square Curve



\*PL Curve follows the dimming curve of Philips Selecon PL series LED luminaires.

Figure 9: BLITZ W4 Luminaire Dimmer Curves

## 5. Master / Slave Operational Mode

The Master / Slave Operational Mode allows one BLITZ W4 Luminaire to act as the "Master" unit and all other connected units are controlled by this unit. When a unit is set to "Slave" mode, it will only listen to and follow any commands sent from a "Master" unit. Only one "Master" unit is allowed in this type of operation.

**To setup a master / slave network:**

- Step 1. Set the first device in the DMX512 chain to Master Mode through the unit's menu system.
- Step 2. Set all other connected units to Slave Mode.

Step 3. The master unit can be controlled via DMX512, RDM or through stand alone operation (self-contained network utilizing on-board effects). The slave units will mimic the master unit's operation in all cases.

Note: For more information on DMX512 networking and systems, refer to "Additional Resources for DMX512" on page 2. For BLITZ W4 Luminaire DMX Mapping, refer to "DMX CONTROL" on page 12.

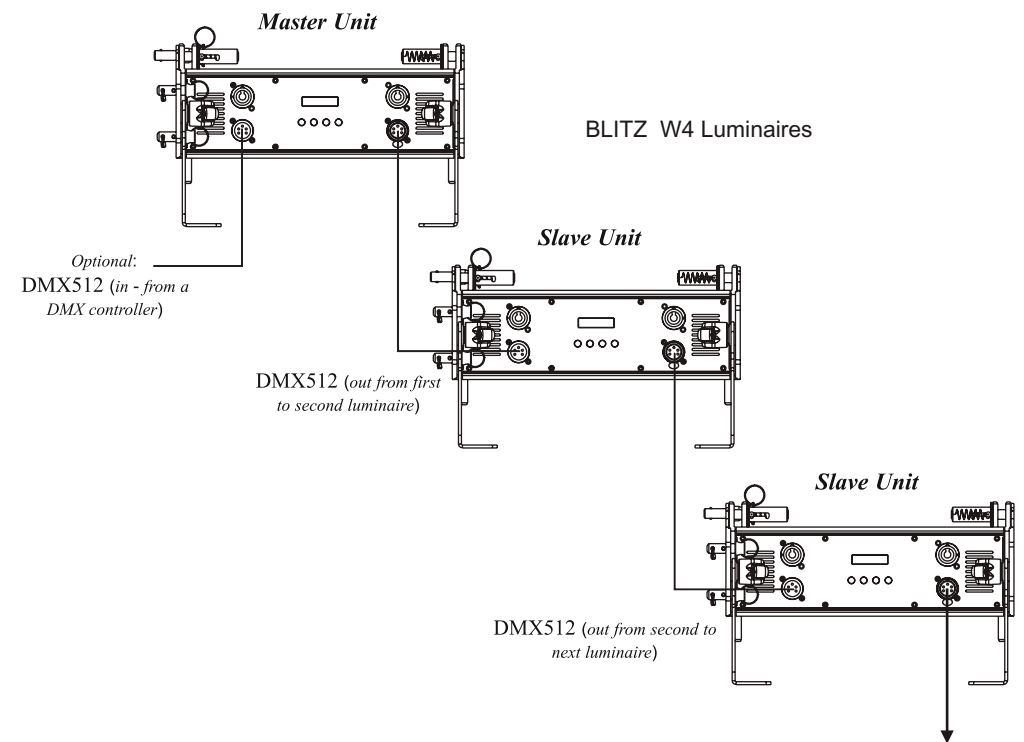


Figure 10: BLITZ W4 Luminaire - Master / Slave Configuration

## DMX CONTROL

This section contains information for operating the luminaire using DMX control in Single Channel, Three Channel, Four Channel, 16-bit Control and Zone Mapping modes. For Menu options and detailed information, see "LCD Display and Menu System" on page 6.

Note: These tables assume a DMX start address of 1. When a different starting address is used, this address becomes channel 1 function and other functions follow in sequence.

### 1. Single Channel Mode

Table 3 provides DMX channel mapping of all DMX512 control values when the BLITZ W4 Luminaire is in Single Channel mode (as set by the luminaire's menu system).

Table 3: BLITZ W4 Luminaire DMX Channel Mapping (Single Channel Mode)

DMX	Parameter	Range DMX	Range %	Defaults*	Description
1	Strobe Rate	0 - 255	0 - 100%	DMX 0	Please reference the Strobe Rate detail.