



Eco LED 64 (order code: LEDJ32)

USER MANUAL

LEDJ Eco LED 64 SAFETY

WARNING

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!



CAUTION!

Keep this equipment away from rain, moisture and liquids.



SAFETY INSTRUCTIONS

Every person involved with the installation, operation & maintenance of this equipment should:

- Be competent
- Follow the instructions of this manual



CAUTION! TAKE CARE USING THIS EQUIPMENT! HIGH VOLTAGE-RISK OF ELECTRIC SHOCK!!



Before your initial start-up, please make sure that there is no damage caused during transportation. Should there be any, consult your dealer and do not use the equipment.

To maintain the equipment in good working condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.

Please note that damages caused by user modifications to this equipment are not subject to warranty.

LEDJ Eco LED 64 SAFETY

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorised modification to the equipment.

- Never let the power-cable come into contact with other cables. Handle the power-cable and all mains voltage connections with particular caution!
- Never remove warning or informative labels from the equipment.
- Do not open the equipment and do not modify the equipment.
- Do not connect this equipment to a dimmer-pack.
- Do not switch the equipment on and off in short intervals, as this will reduce the system's life.
- Only use the equipment indoors.
- Do not expose to flammable sources, liquids or gases.
- Always disconnect the power from the mains when equipment is not in use or before cleaning! Only handle the power-cable by the plug. Never pull out the plug by pulling the power-cable.
- Make sure that the available voltage is between 220v/240v.
- Make sure that the power-cable is never crimped or damaged. Check the equipment and the power-cable periodically.
- If the equipment is dropped or damaged, disconnect the mains power supply immediately. Have a qualified engineer inspect the equipment before operating again.
- If the equipment has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation might damage the equipment. Leave the equipment switched off until it has reached room temperature.
- If your product fails to function correctly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Prolight dealer for service.
- Only use fuses of same type and rating.
- Repairs, servicing and power connection must only be carried out by a qualified technician. THIS UNIT CONTAINS NO USER SERVICEABLE PARTS.
- WARRANTY; One year from date of purchase.

OPERATING DETERMINATIONS

If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void.

Incorrect operation may lead to danger e.g.: short-circuit, burns, electric shocks, lamp failure etc.

Do not endanger your own safety and the safety of others! Incorrect installation or use can cause serious damage to people and property.

LEDJ Eco LED 64 INTRODUCTION

Introduction

CONTROL FEATURES

- 6 channel DMX-512 Eco LED 64 Can
- Static/Dimmer/Strobe
- Individual control of Red, Green and Blue LEDs

Features

- 177 LEDs: Red (60), Green (60), and Blue (57)
- Ultra Bright 10mm LEDs
- RGB colour mixing
- Built-in colour change programmes
- Power consumption: 32W
- Master/Slave mode
- Programmable from Any universal DMX-512 controller

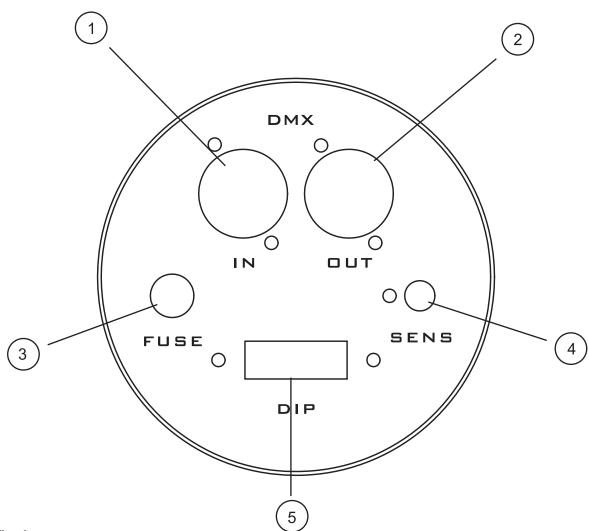
Options

DMX Channel Summary

Channel	Value	Function					
1	0-127	Blackout					
'	128-255	DMX mode					
2	0-255	Red 0-100%					
3	0-255	Green 0-100%					
4	0-255	Blue 0-100%					
	0-10	No Function					
	11-85	Strobe mode (slow to fast)					
5	86-160	Auto mode (slow to fast)					
	161-235	Fade mode (slow to fast)					
	236-255	Sound mode					
6	0-255	Strobe speed (slow to fast) (only available with channels 2, 3 & 4)					

LEDJ Eco LED 64 OVERVIEW

Product Overview



Identification:

- 1) DMX in
- 2) DMX out
- 3) Fuse
- 4) Sensitivity control
- 5) Dip switches

Setup

Operating Instructions

The Eco LED-64 is a DMX-512 controllable, full RGB colour mixing Par Can made up of high efficiency and super bright LED's. There are three colour groups (red, blue and green) whose intensity can be controlled individually allowing the creation of an unlimited range of colours.

The Eco LED-64 will operate in stand-alone, master/slave, sound activated and DMX-512 control.

LEDJ Eco LED 64 MASTER/SLAVE

Operation modes

Strobe Mode

To set the unit in strobe mode, set dip switch 1 to **ON** and all others to the **OFF** position. Now use the sensitivity control to adjust the speed.

Fade mode

To set the unit in fade mode, set dip switch 2 to **ON** and all others to the **OFF** position. Now use the sensitivity control to adjust the speed.

7 Colour Chase mode

To set the unit in 7 colour chase mode, set dip switch 3 to **ON** and all others to the **OFF** position. Now use the sensitivity control to adjust the speed.

5 Colour Chase mode

To set the unit in 5 colour chase mode, set dip switch 4 to **ON** and all others to the **OFF** position. Now use the sensitivity control to adjust the speed.

Red and Green Colour Chase Mode

To set the unit in red and green colour chase mode, set dip switch **5** to **ON** and all others to the **OFF** position. Now use the sensitivity control to adjust the speed.

Static Colour Selection

To select a static colour, use any of the dip switches listed below;

Dip switch 6 set to ON, obtains static Red

Dip switch **7** set to **ON**, obtains static Green

Dip switch 8 set to ON, obtains static Blue

Now use the sensitivity control to adjust the brightness.

Note: You can have any combination of switches 6, 7 and 8 to obtain any static colour mix.

Sound Activation

The Eco LED 64 Can has a built-in microphone which enables it to operate in Sound to Light mode. Set the sensitivity control to the desired level, and the Eco LED 64 Can will change colour to the beat of the music. Set **dip switch 9** to **ON** and all others to the **OFF** position to activate Sound Mode.

Master/Slave mode

Use any of the above modes to set the master unit. To set the unit(s) in slave mode set dip switch 10 to the ON position and all others to OFF.



Example of Master Setting for sound activation



Slave setting

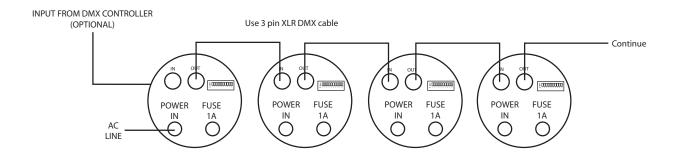
Note: When all of the dip switches are set to OFF, the unit will automatically run in a RGB colour chase. Use the sensitivity control to adjust the speed.

LEDJ Eco LED 64 CONTROL OPTIONS

Daisy Chain Connection

1) Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the first fixture

2) Connect the end of the cable coming from the first fixture which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector. Proceed to connect from the output as stated above to the input of the following fixture and so on.



DMX Control Mode

Operating in a DMX control mode environment gives the user the greatest flexibility when it comes to customising or creating a show. In this mode you will be able to control each individual trait of the fixture and each fixture independently. The Eco LED 64 uses 6 channels of control.

Enable the DMX control by setting dip switch No: 10 to the **ON** position. Use dip switches 1-9 to address each fixture accordingly.

Setting the DMX address

The DMX mode enables the use of a universal DMX controller. Each fixture requires a "start address" from 1-511. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that occupies or uses 7 channels of DMX and was addressed to start on DMX channel 100, would read data from channels: 100,101,102,103,104,105 and 106. Choose a start address so that the channels used do not overlap. E.g. the next unit in the chain starts at 107.

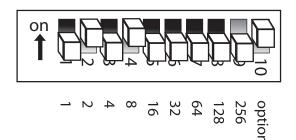
LEDJ Eco LED 64 CONTROL OPTIONS

Set the start address using the group of dip switches located usually on the back of the fixture. Each dip switch has an associated value. Adding the value of each switch in the ON position will provide the start address. Determining which switches to toggle ON given a specific start address can be accomplished in the following manner. By subtracting the largest switch value possible from the selected start address until zero is achieved.

EXAMPLE STARTING ADDRESS

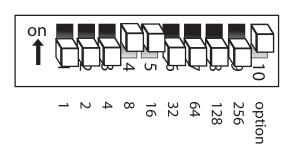
Address 10

Pin NO: 4 = 8 Pin NO: 2 = 2 Total = 10



Address 24

Pin NO: 5 = 16 Pin NO: 4 = 8 Total = 24



DMX address using simple maths

105 - (64) = 41, Turn on dip No:7
41 - (32) = 9, Turn on dip No: 6
9 - (8) = 1, Turn on dip No: 4
1 - (1) = 0, Turn on dip No:1
You will most likely use the first available number which maybe Number 1. This

number was selected for

example purposes

233 - (128 = 105, Turn on dip No: 8

DIP SWITCH	(DMX VALUE)
1	1
2	2
3	4
4	8
5	16
6	32
7	64
8	128
9	256
10	

LEDJ Eco LED 64 DMX SET UP

DMX-512:

• DMX (Digital Multiplex) is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions form the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA "IN" and DATA "OUT" XLR terminals located on all DMX fixtures (most controllers only have a data "out" terminal).

DMX Linking:

• DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned to a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

DATA Cable (DMX cable) requirements (for DMX operation):

• The Eco LED 64 can be controlled via DMX-512 protocol. The DMX address is set on the back of the unit. Your unit and your DMX controller require a standard 3-pin XLR connector for data input/output (figure 1).

Figure 1



Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight dealers.

Please quote:

CABL10 - 2M

CABL11 - 5M

CABL12 - 10M

Also remember that DMX cable must be daisy chained and cannot be split.

LEDJ Eco LED 64 DMX SET UP

Notice:

• Be sure to follow figures 2 & 3 when making your own cables. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behaviour.

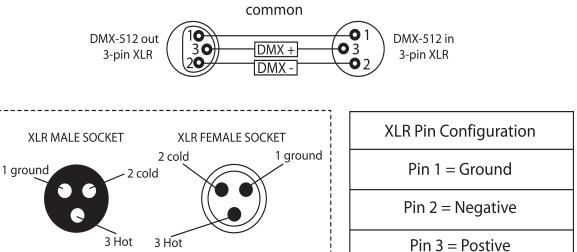


FIGURE 3 FIGURE 2

Special Note: Line termination:

• When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

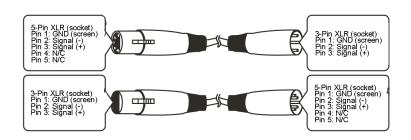


Termination reduces signal transmission problems and interferance. it is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4 W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

Using a cable terminator (part number CABL90) will decrease the possibilities of erratic behaviour.

5-Pin XLR DMX Connectors:

• Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-Pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The chart below details the correct cable conversion.



DMX Dip Switch Quick Reference Chart

Dip Switch Position

1 0 0 0 0 1 33 65 97 129 161 193 225 257 289 321 353 385 417 449 4 0 1 0 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th>#9</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th>						#9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
#1 #2 #3 #4 #5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0			SWI	TCH		#8	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
## ## ##2 ##3 ##4 ##5 ##5		_		:		#7	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
		1:	=ON			#6	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
1 0 0 0 0 1 33 65 97 129 161 193 225 257 289 321 353 385 417 449 4 0 1 0 </th <th>#1</th> <th>#2</th> <th>#3</th> <th>#4</th> <th>#5</th> <th></th>	#1	#2	#3	#4	#5																	
0 1 0	0	0	0	0	0			32	64	96	128	160	192	224	256	288	320	352	384	416	448	480
1 1 0	1	0	0	0	0		1	33	65	97	129	161	193	225	257	289	321	353	385	417	449	481
0 0 1 0 0 4 36 68 100 132 164 196 228 260 292 324 356 388 420 452 4 1 0 1 0 0 0 6 38 70 102 134 166 198 230 262 294 326 358 390 422 454 4 1 1 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1	0	1	0	0	0		2	34	66	98	130	162	194	226	258	290	322	354	386	418	450	482
1 0 1 0 0 5 37 69 101 133 165 197 229 261 293 325 357 389 421 453 4 1 1 1 0 0 6 38 70 102 134 166 198 230 262 294 326 358 390 422 454 4 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 1 0 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 0	1	1	0	0	0		3	35	67	99	131	163	195	227	259	291	323	355	387	419	451	483
0 1 1 0 0 6 38 70 102 134 166 198 230 262 294 326 358 390 422 454 4 1 1 1 0 0 1 0 8 40 72 104 136 168 200 232 264 296 328 360 392 424 456 4 1 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 1 1 0 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1	0	0	1	0	0		4	36	68	100	132	164	196	228	260	292	324	356	388	420	452	484
1 1 1 0 0 0 0 1 1 0 0 0 1 0 8 40 72 104 136 168 200 232 264 296 328 360 392 424 456 4 1 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 0 1 1 1 0 1 1 1<	1	0	1	0	0		5	37	69	101	133	165	197	229	261	293	325	357	389	421	453	485
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1 1 0 1 0 1 0 1 1 1 0 1 1 4 4 7 11 1 1 0 0 0 0 1 1 4 4 7 11 1 1 0 0 0 1 1 4 4 4 4 4 4 4 4 4 4 4	1	0	0	1	0		9	41	73	105	137	169	201	233	265	297	329	361	393	425	457	489
0 0 1 1 0 12 44 76 108 140 172 204 236 268 300 332 364 396 428 460 4 1 0 1 1 0 1 1 0 14 46 78 110 142 174 206 238 270 302 334 366 398 430 462 4 1 1 1 1 0 0 0 1 16 48 80 112 144 176 208 240 272 304 336 368 400 432 464 4 1 0 0 0 1 16 48 80 112 144 176 208 240 272 304 336 368 400 432 464 4 1 0 0 1 16 48 80	0	1	0	1	0		10	42	74	106	138	170	202	234	266	298	330	362	394	426	458	490
1 0 1 1 0 1 1 0 13 45 77 109 141 173 205 237 269 301 333 365 397 429 461 4 0 1 1 1 0 14 46 78 110 142 174 206 238 270 302 334 366 398 430 462 4 1 1 1 1 0 0 0 1 16 48 80 112 144 176 208 240 272 304 336 368 400 432 464 4 1 0 0 1 17 49 81 113 145 177 209 241 273 305 337 369 401 433 465 4 0 1 0 0 1 18 50 82	1	1	0	1	0		11	43	75	107	139	171	203	235	267	299	331	363	395	427	459	491
0 1 1 1 0 14 46 78 110 142 174 206 238 270 302 334 366 398 430 462 4 1 1 1 1 0 0 0 0 1 15 47 79 111 143 175 207 239 271 303 335 367 399 431 463 4 1 0 0 0 1 16 48 80 112 144 176 208 240 272 304 336 368 400 432 464 4 1 0 0 1 17 49 81 113 145 177 209 241 273 305 337 369 401 433 465 4 1 1 0 0 1 18 50 82 114 146	0	0	1	1	0		12	44	76	108	140	172	204	236	268	300	332	364	396	428	460	492
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1 0 0 0 1 17 49 81 113 145 177 209 241 273 305 337 369 401 433 465 4 0 1 0 0 1 18 50 82 114 146 178 210 242 274 306 338 370 402 434 466 4 1 1 0 0 1 19 51 83 115 147 179 211 243 275 307 339 371 403 435 467 4 0 0 1 0 1 0 1 20 52 84 116 148 180 212 244 276 308 340 372 404 436 468 5 1 0 1 0 1 149 181 213 245 277 309 341 373 405 437 469 5 1 1 1 <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>0</td> <td></td> <td>15</td> <td>47</td> <td>79</td> <td>111</td> <td>143</td> <td>175</td> <td>207</td> <td>239</td> <td>271</td> <td>303</td> <td>335</td> <td>367</td> <td>399</td> <td>431</td> <td>463</td> <td>495</td>	1	1	1	1	0		15	47	79	111	143	175	207	239	271	303	335	367	399	431	463	495
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1 0 1 0 1 0 1 21 53 85 117 149 181 213 245 277 309 341 373 405 437 469 5 0 1 1 0 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 0 0 1 1 1 0 0 0 1 1 1 0 0 0 1 1 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 1 1 0	1	1	0	0	1		19	51	83	115	147	179	211	243	275	307	339	371	403	435	467	499
0 1 1 0 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 25 57 89 121 153 185 217 249 281 313 345 377 409 441 473 5 26 58 90 122 154 186 218 250 282 314 346 378 410 442 474 5 1 1 0 1 1 1 1 1 27 59 91 123 155 187 219 251 283 315 347 379 411 443 475 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <t< td=""><td>0</td><td>0</td><td>1</td><td>0</td><td>1</td><td></td><td>20</td><td>52</td><td>84</td><td>116</td><td>148</td><td>180</td><td>212</td><td>244</td><td>276</td><td>308</td><td>340</td><td>372</td><td>404</td><td>436</td><td>468</td><td>500</td></t<>	0	0	1	0	1		20	52	84	116	148	180	212	244	276	308	340	372	404	436	468	500
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0 0 0 1 1 24 56 88 120 152 184 216 248 280 312 344 376 408 440 472 5 1 0 0 1	0	1	1	0	1		22	54	86	118	150	182	214	246	278	310	342	374	406	438	470	502
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0 0 1 1 1 1 28 60 92 124 156 188 220 252 284 316 348 380 412 444 476 5																						506
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1 0 1 1 1 29 61 93 125 157 189 221 253 285 317 349 381 413 445 477 5																						508
																						509
																						510
1 1 1 1 1 31 63 95 127 159 191 223 255 287 319 351 383 415 447 479 5	1	1	1	1	1		31	63	95	127	159	191	223	255	287	319	351	383	415	447	479	511

LEDJ Eco LED 64 DMX VALUES

DMX Channel Values

Channel	Value	Function				
1	0-127	Blackout				
'	128-255	DMX mode				
2	0-255	Red 0-100%				
3	0-255	Green 0-100%				
4	0-255	Blue 0-100%				
	0-10	No Function				
	11-85	Strobe mode (slow to fast)				
5	86-160	Auto mode (slow to fast)				
	161-235	Fade mode (slow to fast)				
	236-255	Sound mode				
6	0-255	Strobe speed (slow to fast) (only available with channels 2, 3 & 4)				

Technical Specifications

Weigh	nt & D	imens	ions
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• Length	300mm
• Width	
• Height	235mm
Weight	

Power

• AC input......240V/50hz

Fuse

• Main......20mm Glass 1A Fast Blow

Control & Programming

Data input	Locking 3-pin XLR male socket
Data output	Locking 3-pin XLR female socket
• Protocols	DMX-512 USITT

• DMX channels......6