

# LDL-M-RGB-001 USER MANUAL



Please read through this user manual before installation and save it for future reference.

## NOTE:

Corrosive or deliquescent chemical may damage the housing of lighting fixture.

Please use the lighting fixture in ambient temperature  $-30^{\circ}\text{C} \sim +40^{\circ}\text{C}$  and humidity 0~95%. Otherwise, it may affect its lifespan.

Damage caused by false using of transformer of another company loses our warranty.



Indoor use

## WARNING:

Please do not power the fixture up in its packing box except it used for demonstration.

Please do not connect the fixture to power source of high voltage and make sure it well grounded.

Input voltage should conform to voltage of the fixture selected.

It is not permitted to open the fixture. Please seek help of professional if there is any problem.

Lamp is not replaceable. Please protect the fixture from fire, electric shock and vibration.



## SPECIFICTAION

1. Power source: AC 120V Fuse (2A)/220V Fuse (1A), 60/50HZ; 30W consumption power.
2. LED source: 30pcs $\Phi$ 5 Red; 28pcs $\Phi$ 5 Green; 28pcs $\Phi$ 5 Blue.
3. Beam angle:  $15^{\circ}$ .
4. Pan:  $350^{\circ}$
5. Tilt:  $260^{\circ}$
6. Operation modes: DMX, SOUND-ACTIVE, AUTO, MASTER/SLAVE
7. Connector: DMX (3-pin XLR connector)
8. Net weight: 2.5KGS
9. Dimension: 210\*142\*191mm(L x W x H)

FUNCTION INTRODUCTION

1. THREE OPERATION MODES:

- SOUND ACTIVE: Controlled by sound, sending data from slave fixture
- AUTO MODE: Operate automatically, sending data from slave fixture
- DMX MODE: Receiving data from DMX console or master fixture

Use dipswitches to set these four modes. Please check below dipswitch setting for your reference.

DIPSWITCH CHART										FUNCTION
1	2	3	4	5	6	7	8	9	10	
X	X	X	X	X	X	X	X	1	0	AUTO_MODE
X	X	X	X	X	X	X	X	0	0	SOUND_ACTIVE
SET DMX ADDRESS									1	DMX MODE

Dipswitch #9&10 is used to select working mode. In DMX mode, #1-9 is used to set DMX address.

2. DMX address

ADDR =CH\_NUM × N + 1  
CH\_NUM: Total DMX CHANNELS CH\_NUM>=5  
N: PROJECTOR CHANNEL NUMBER, N=0,1,2,3.....  
E.g.: Each fixture has 5 DMX Channels, then  
Loop1 ADDR=1; Loop2 ADDR=6;  
Loop3 ADDR=11; Loop4 ADDR=16;

3. DMX address Setting:

In binary system, there are only two numbers: 0 meaning "OFF" and 1 meaning "On". The numbers increase by multiplying the previous value by 2. Positions from dipswitch 1 to dip switch 9 signify binary value from lower to high position.  
For example:

LOOP	ADDR	BINARY
1	1	100000000
2	6	011000000
3	11	110100000
4	16	000010000

4. DMX Channel diagram

DMX Channel	Function	DMX512 value	Description
CH1	Mode	0~100	DMX Mode
		101~200	Auto Mode
		201~200	Sound Mode
CH2	X axis	0~255	Adjust the angle of X axis (0-350°)
CH3	Y axis	0~255	Adjust the angle of X axis (0-260°)
		0~10	Black out

CH4	Select Colors	11~40	Red
		41~70	Green
		71~100	Blue
		101~140	Red & Green
		141~180	Green & Blue
		181~220	Red & Blue
		221~255	Red, Green, Blue
CH5	Strobe speed	0~15	No strobe effect
		16~255	Adjust strobe speed from slow to fast

### OPERATION GUIDANCE

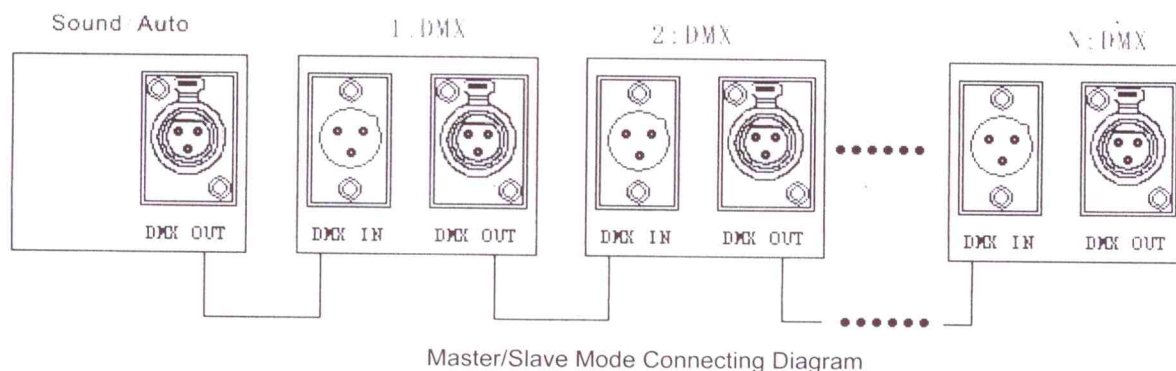
#### Stand alone Mode

1. Stand alone Mode. Include two modes: Sound Active and Auto Mode. No need any DMX controller. Fixture is operated by sound or built-in programs.
2. Mode setting. Use dipswitches to select Sound Active or Auto mode, that is  
SOUND\_ACTIVE: #9—0, #10—0.  
AUTO\_MODE: #9—1, #10—0;
3. In SOUND\_ACTIVE mode, please turn sound sensitivity knob to proper position.

#### Master/Slave Mode

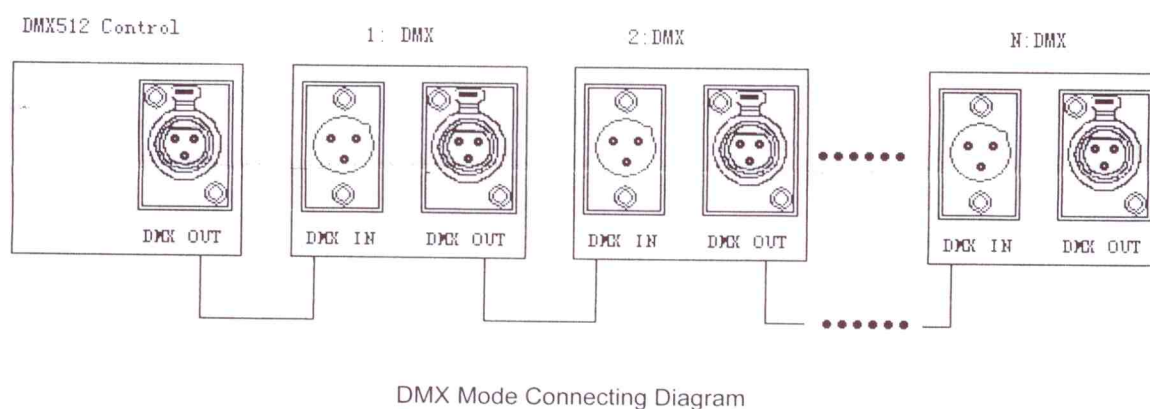
1. Master/Slave Mode. Include two modes: SOUND ACTIVE and AUTO MODE. No console is needed. Fixture is operated by sound or built-in programs.
2. Mode setting: set the dipswitch in corresponding position, that is  
Master Projector: #9—0, #10—0 (SOUND\_ACTIVE), or #9—1, #10—0 (AUTO\_MODE);  
Slave Projectors: #10—1 (DMX mode).  
(Note: same DMX address setting for all Slave projectors)
3. Connecting: Use XLR cable to connect from DMX OUTPUT of Master Projector to DMX INPUT of Slave Projector #1, then from DMX OUTPUT of Slave Projector #1 to DMX INPUT of Slave Projector #2.Try to connect other Slave Projectors in this way until all Slave Projectors are connected.
4. In SOUND\_ACTIVE mode, keep the sensitivity knob of Master Projector in proper position; in AUTO MODE, all projectors run default program.

Note: If there is more than one Mater Projector or there is a DMX512 console in one loop, Slave Projectors work inconsistently.



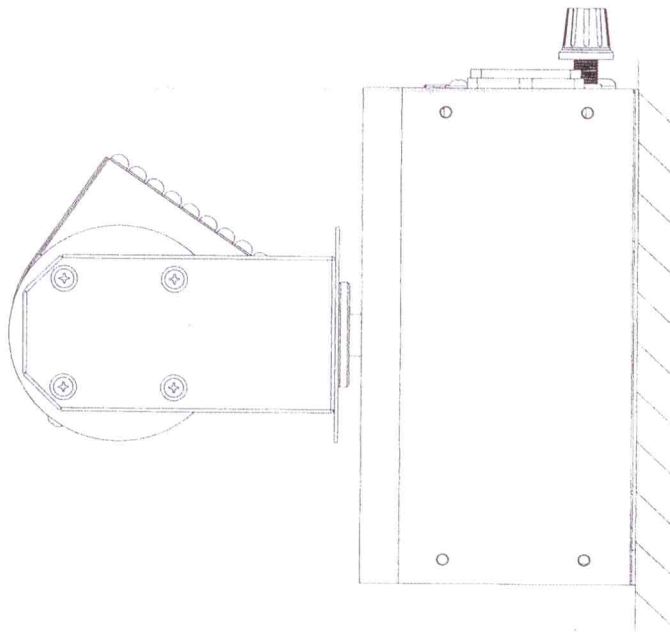
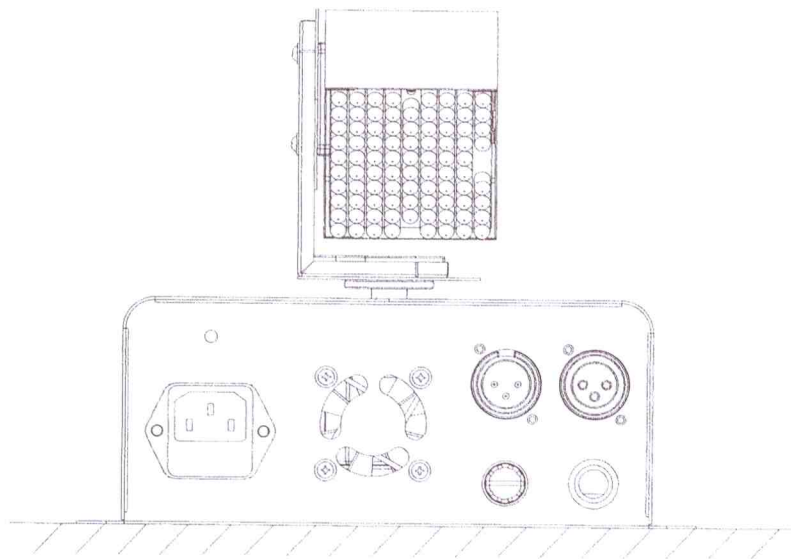
#### DMX Mode

1. Use standard DMX512 console in DMX Mode.
2. Mode settings: set the dipswitch in corresponding position, that is # 10—1.
3. Connection: Use XLR-XLR cable to connect DMX 512 console with the DMX Input of first projector, and then connect output of the first projector with input of second projector till all the projectors are connected in this way.
4. Use console to control the fixture.



## INSTALLATION GUIDANCE

Please check diagrams below to hang the fixture up or place on the ground.



### Accessories:

- |                |      |
|----------------|------|
| 1. User Manual | 1PCS |
| 2. DMX Cable   | 1PCS |



## TROUBLESHOOTING

Symptoms	Possible cause	Possible solution
No power	<ol style="list-style-type: none"> <li>1. Power source does not conform to the specification.</li> <li>2. The fuse is burned.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm the input voltage.</li> <li>2. Change a new fuse of same type.</li> </ol>
No Stand alone mode	Wrongly set the fixture to DMX mode	Set working mode to Stand alone via dipswitches.
Can not be controlled in Sound-Active mode	Sound sensitivity may be set to low position.	Keep Sound Sensitivity Knob to proper position.
In Master/Slave Mode: Slave fixtures work inconsistently.	<ol style="list-style-type: none"> <li>1. Working mode sets wrong.</li> <li>2. Connected to DMX console</li> <li>3. Connecting cable does not connect well or has poor quality</li> </ol>	<ol style="list-style-type: none"> <li>1. Set working mode to Master/Slave mode and make sure there is only one master fixture.</li> <li>2. Disconnect cable to DMX Console</li> <li>3. Check the connection of Master/Slave fixtures and make sure the cable is high quality.</li> </ol>
In DMX mode: No light output, or no responding	<ol style="list-style-type: none"> <li>1. Working mode sets wrong</li> <li>2. Connecting cable does not connect well or poor quality.</li> </ol>	<ol style="list-style-type: none"> <li>1. Set working mode to DMX via dipswitches.</li> <li>2. Check the connection and make sure the quality of cable is good.</li> </ol>
In DMX mode: DMX signal, but fixture no respond	DMX address is not correct	Double check DMX address setting and DMX channel assignment
If there are more questions, please contact our after sales service.		

DMX Address Quick Reference Chart

DMX DIP SWITCH SET  0=OFF  1=ON  X=OFF or ON					Dip Switch Position															
					#9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
					#8	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1
					#7	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1
					#6	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0
#1	#2	#3	#4	#5																
0	0	0	0	0		32	64	96	128	160	192	224	256	288	320	352	384	416	448	480
1	0	0	0	0	1	33	65	97	129	161	193	225	257	289	321	353	385	417	449	481
0	1	0	0	0	2	34	66	98	130	162	194	226	258	290	322	354	386	418	450	482
1	1	0	0	0	3	35	67	99	131	163	195	227	259	291	323	355	387	419	451	483
0	0	1	0	0	4	36	68	100	132	164	196	228	260	292	324	356	388	420	452	484
1	0	1	0	0	5	37	69	101	133	165	197	229	261	293	325	357	389	421	453	485
0	1	1	0	0	6	38	70	102	134	166	198	230	262	294	326	358	390	422	454	486
1	1	1	0	0	7	39	71	103	135	167	199	231	263	295	327	359	391	423	455	487
0	0	0	1	0	8	40	72	104	136	168	200	232	264	296	328	360	392	424	456	488
1	0	0	1	0	9	41	73	105	137	169	201	233	265	297	329	361	393	425	457	489
0	1	0	1	0	10	42	74	106	138	170	202	234	266	298	330	362	394	426	458	490
1	1	0	1	0	11	43	75	107	139	171	203	235	267	299	331	363	395	427	459	491
0	0	1	1	0	12	44	76	108	140	172	204	236	268	300	332	364	396	428	460	492
1	0	1	1	0	13	45	77	109	141	173	205	237	269	301	333	365	397	429	461	493
0	1	1	1	0	14	46	78	110	142	174	206	238	270	302	334	366	398	430	462	494
1	1	1	1	0	15	47	79	111	143	175	207	239	271	303	335	367	399	431	463	495
0	0	0	0	1	16	48	80	112	144	176	208	240	272	304	336	368	400	432	464	496
1	0	0	0	1	17	49	81	113	145	177	209	241	273	305	337	369	401	433	465	497
0	1	0	0	1	18	50	82	114	146	178	210	242	274	306	338	370	402	434	466	498
1	1	0	0	1	19	51	83	115	147	179	211	243	275	307	339	371	403	435	467	499
0	0	1	0	1	20	52	84	116	148	180	212	244	276	308	340	372	404	436	468	500
1	0	1	0	1	21	53	85	117	149	181	213	245	277	309	341	373	405	437	469	501
0	1	1	0	1	22	54	86	118	150	182	214	246	278	310	342	374	406	438	470	502
1	1	1	0	1	23	55	87	119	151	183	215	247	279	311	343	375	407	439	471	503
0	0	0	1	1	24	56	88	120	152	184	216	248	280	312	344	376	408	440	472	504
1	0	0	1	1	25	57	89	121	153	185	217	249	281	313	345	377	409	441	473	505
0	1	0	1	1	26	58	90	122	154	186	218	250	282	314	346	378	410	442	474	506
1	1	0	1	1	27	59	91	123	155	187	219	251	283	315	347	379	411	443	475	507
0	0	1	1	1	28	60	92	124	156	188	220	252	284	316	348	380	412	444	476	508
1	0	1	1	1	29	61	93	125	157	189	221	253	285	317	349	381	413	445	477	509
0	1	1	1	1	30	62	94	126	158	190	222	254	286	318	350	382	414	446	478	510
1	1	1	1	1	31	63	95	127	159	191	223	255	287	319	351	383	415	447	479	511
Dip Switch Position					DMX Address															