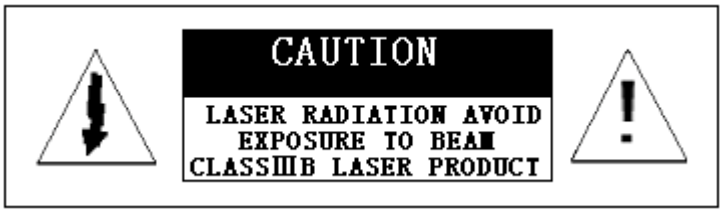
LZ600RG Red & Green Laser Burst User Manual

Thanks for purchasing **LZ600RG Red & Green Laser Burst.**
Please read this manual carefully and thoroughly, as it gives important information regarding safety and operation instruction. Keep this manual in order to consult it in the future.
The quality of every set of the products is guaranteed in the factory before the shipment. Please check the accessories as the packing list inside. If the carton appears to be damaged, please inspect the fixture carefully. In case damage has been found or some parts are missing, please contact our after service department before shipping back the product.

Safety Information：

1. Always ground the fixture electrically properly.
2. For indoor use only. Keep in cool and dry place with the ambient temperature of 10-35℃. Put the fixture in steady place and do not shake.
3. Continuous operation of over 4 hours will shorten the life of the laser. Please always keep within 4 hours.
4. The lens at the aperture will be covered with dirt and dust that will decrease the power output. Please clean it with the soft cloths or paper periodically.
5. Do not attempt to tear off the warranty paper. Such action will avoid the company's warranty.
6. Do not attempt to dismantle the fixture if problems happen. Please connect with our after service department directly.
7. Do not throw away the packing material. If problems happen, please pack the product with the material and send back to Neo-Laser after service department



Fuse Replacement

Note: Replace the fuse with the same specified. If not, the potential damage will be avoided of the company's responsibility.

Replace the fuse：Disconnect the power, use the screwdriver to unscrew the fuse holder, take out the fuse, place it with the good one of the same specified and finally screw the fuse tight.

Technical Specification:

1. AC Power：AC 110 V / 220V, 60 / 50 HZ, Fuse (2A)
2. Laser： Wavelength 532nm, Green, Power 40mW ;
   Wavelength 650nm, Red, Power 60mW ;
3. Control system: high capacity macro processor
4. Display Mode：DMX/ Sound Active/ Auto
5. Laser Safety Level：Class IIIB
6. Connector：3-pin DMX Connector / XLR
7. Net Weight： 5KG
8. Size ： 340MM*214MM*200MM (L x W x H)

Function Settings:

3 Work Modes:

1. SOUND_ACTIVE —— triggered by sound only
2. AUTO_MODE—— default program, not subject to change with the external effect
3. DMX MODE——controlled by DMX 512 console only, receive console's data

Set the system function with the dipswitch

See the function listed below.

1. The dipswitches 10 and 9 are for the setting of the system function.
   The dipswitches 1-9 are for the setting of the DMX Channel Address in DMX mode.
2. The setting of the projector's address is needed via DMX mode. Under control of DMX 512 console, the projector takes up 2 channel.

0=OFF 1=ON X=OFF or ON

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

DIPSWITCH SETTING IN AUTO MODE

1. #2: Red color
2. #3: Green color
3. #4: right rotation slow
4. #5: right rotation medinum
5. #4 and #5: right rotation Fast
6. #6: rotation back and for slow
7. #7: rotation back and for medium
8. #6 and #7: rotation back and for fast
9. #8: strobing slow
10. #9: strobing med
11. #8 and #9: strobing fast

DMX ADDRESS MATHEMATICAL RIDDLE:

ADDR ＝CH_NUM × N + 1

CH_NUM：DMX CHANNEL OF THIS PROJECTOR，CH_NUM>=1

N: PROJECTOR CHANNEL NUMBER，N=0,1,2,3……

EG：Each projector is distributed with 4 DMX channels

Loop1 ADDR＝1； Loop2 ADDR＝5；

Loop3 ADDR＝9； Loop4 ADDR＝13；

Address Setting:

In binary system, there are only two number. 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.

EG：	LOOP	ADDR	BINARY
	1	1	100000000
	2	5	101000000
	3	9	100100000

DMX control table:

Channel	Function	DMX512 Value	Detail
CH1	Mode	0～4	Close Laser
		5～33	DMX Red
		34～62	DMX Green
		63～91	DMX Red/Green
		92～120	Automatic Red
		121～149	Automatic Green
		150～178	Automatic Red/Green
		179～207	Sound Red
		208～236	Sound Green

		237～255	Sound Red/Green
CH2	MOTOR	0～4	Motor Stop
		5～125	Right Rotate(slow—medium--fast)
		126～131	Motor Stop
		132～249	Left Rotate (slow—medium--fast)
		250～255	Motor Sound
CH3	Red Strobe	0～4	No Strobe
		5～255	Slow to Fast
CH4	Green Strobe	0～4	No Strobe
		5～255	Slow to Fast

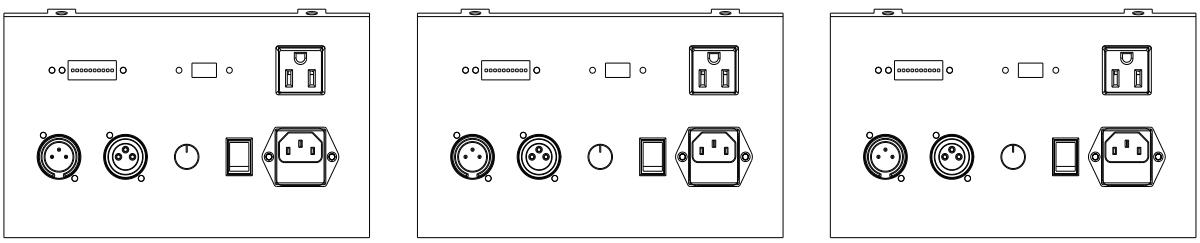
NOTES: WHEN CH1IS IN AUTO OR SOUND MODE (FROM 92 TO 255), CH2, CH3, CH4 HAVE NO EFFECT AT THE SAME TIME.

General Operation:

1. Mode settings: Based on different application, different modes are set. If in DMX mode, bear in mind the correct DMX address assignment.
2. Connection: connect the projector and DMX 512 console with the DMX signal cable. As for Stand Alone, there is no need.
3. Powered on, laser emits the beam in 1 second.
4. The projector can be controlled to play and edit shows by DMX512 console in DMX mode, by default program in auto mode, and in sound active mode if sound sensitivity knob is kept in proper position.
5. There is no MASTER/SLAVE Mode for this laser projector.

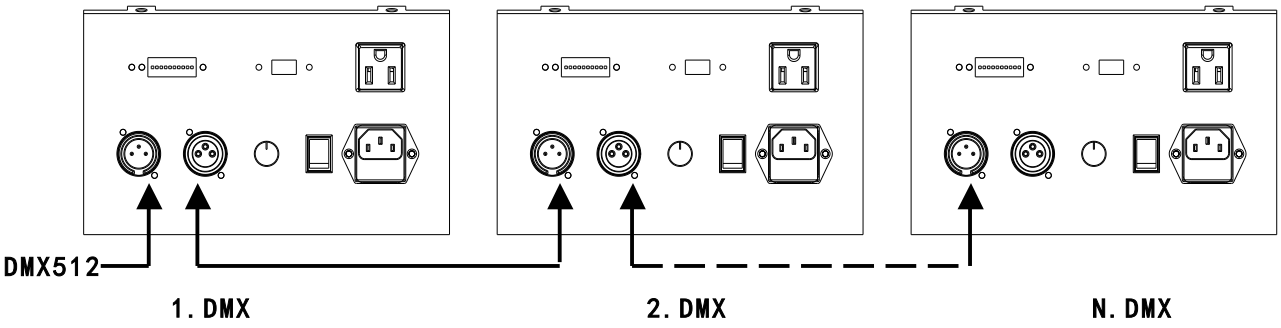
Auto / Sound Active Mode:

1. Auto/Sound Active——Via SOUND_ACTIVE or AUTO, no console is needed. Laser shows only obey sound or default program.
2. Mode settings: set the dipswitch in corresponding position, that is
   SOUND_ACTIVE：＃1－0，＃10－0
   AUTO：　＃1－1，＃10－0 (NOTE: PLEASE SET #2～#9 ACCORDINGLY.)
3. Powered on, laser emits the beam in 1 second.
4. The projector is able to play different default programs in Auto mode by setting dipswitches #2～#9 , and in SOUND_ACTIVE mode it needs to adjust sound sensitivity knob to proper position first.



DMX Mode:

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



DMX Connection

Accessories:

1.User Manual	1PCS
2.DMX Cable	1PCS
3. Power Cable	1PCS

DMX Address Quick Reference Chart

Dip Switch Position

DMX DIP SWITCH SET																				
0=OFF	#9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1			
1=ON	#8	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1			
	#7	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1			
X=OFF or ON	#6	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1			
#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