

Instruction Manual

LED 8-Scan Laser Light



LED 8-Scan Laser Light Instruction Manual

Thank you for purchasing the product. To optimize the performance of this product, prior to use, please read these operating instructions carefully to familiarize yourself with the basic operation of this unit. Please keep the manual in safe place for future reference.

This unit has been tested at our factory before being shipped to you, there is no assembly required.

Once after received the product, please take and put carefully. And check cautiously that whether the product was damaged or not during the transportation.

Checking Parks

Please check if the following parts are included:

1 x LED 8-Scan Laser Light

1 x Power cable

1 x User manual



Alerts

The laser is dangerous, don't look at the light directly.
High voltage-risk of electric shock, don't disassociate without unauthorized



Installation

1. Please check the voltage whether is the same with the one showed on the equipment or not.
2. It must ask for the technical person and set the light safety when installation. And let the light beam at the suitable angle.
3. when install this equipment, please make sure there's no flammable surfaces (decorated thins, etc) within at lest 2.5M and maintain minimum distance of 1.5M form the equipment to the walls.
4. Please make sure the there's no other equipment or decorating materials obstructed the exhaust fan and the vent-pipe.
5. Products should be install immobility.
6. In case of safety, it's very important that to connect the earth with line.

LED 8-Scan Laser Light Instruction Manual

Attention:

1. Please do not open the bottom cover yourself without permission. Operated it accord the user manual. Call the technician when the machine breaks down.
2. Please do not see the laser beam directly to avoid any damage.
3. Before connect or disconnect the power, please adjust the luminance of the laser diode to the least to avoid any damage to the laser diode.
4. This unit should be keep dry, do not use in the rain and dusty environment. It can be use in the outdoor with the water-proof cover protector.
5. Set the light immobility and try to avoid strong shake or hit.
6. Prevent dust into the equipment to avoid problems.
7. Please keep the there's no other equipment or decorating materials obstructed the exhaust fan and the vent-pipe when the equipment was working.
8. Before connect power, check the plug is immobility or not, power line should be connect well.
9. Please do not open or close the equipment frequently that's to avoid any affect to the life span of the laser diode, and try the best to avoid the long time working.
10. Due to the characteristic of laser diode, after four hours working, it should be close at least 25 minutes until the laser diode cooling then work again.
11. Don't touch the light or draw the power line when your hand was wet. And do not pull the electronic power line.
12. Maintain the distance at least 3M above from the equipment to the object.
13. This equipment does not have any parts can repair for the users, please do not open the equipment.
14. When the laser diode became dim or damaged please contact the dealer timely.
15. when you want to retransfer the products, you'd better use the original package to shockproof.

Function Instructions:

1. If you put dip switch 10 to "on", the light will be in auto-play mode.
2. Auto-Play/Master-Slave Function when the master machine put dip switch 10 to "on", this light will pay the fixed program automatically.

LED 8-Scan Laser Light Instruction Manual

Maintenance:

Maintenance should be performed every 15-day period, by using a sponge which is dipped with alcohol, rather than wet cloth or other chemical liquid, to clean the mirror.

Always disconnect from the mains when the device is not in use or before cleaning it.

Warning:

Power must be disconnected before maintenance or repair. Do not look at the light source directly.

Note:

Don't separate laser machine from laser power and repair them by yourself. Otherwise no good repair service will be supplied.

Technical Specification:

Power supply: AC90-240V 50/60Hz

Rated power: 150W

LED: 5mm LED 267 PCS (R: 33, G: 126, B:93,Y:15)

Laser output:

- ☐ G:Laser output(16 pcs of 50mw green laser).
- ☐ R:Laser output(16 pcs of 150mw red laser).
- ☐ B:Laser output(16 pcs of 400mw blue laser).
- ☐ RGB:Laser output(8pcs of 150mw red laser &4pcs of 50mw green laser and 4pcs of 400mw blue laser).
- ☐ RG:Laser output(8pcs of 150mw red laser & 8pcs of 50mw green laser).
- ☐ RB:Laser output(8pcs of 150mw red laser & 8pcs of 400mw blue laser).

Laser Wave length: 532nm

Working mode: Sound Active, Auto-play, DMX512 and Master-slave

Control signal: DMX512 signal, linkable via 3-pin XLR cable.

DMX channels: 15 channels

Operating temperature: -1°--35° Storage temperature: -10°--60°

Warm-up time: <15 min Laser classification: 3b

Modulation: TTL N.W: 39 Kgs

G.W: 41 KGs (Flight case packing)

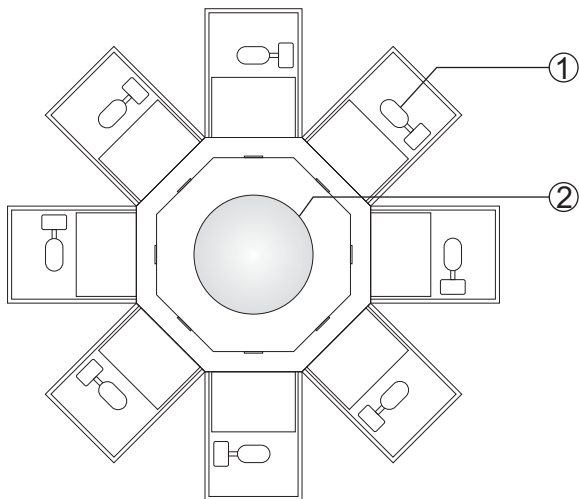
Declaration:

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 instruction and warning notes writer in this user manual.

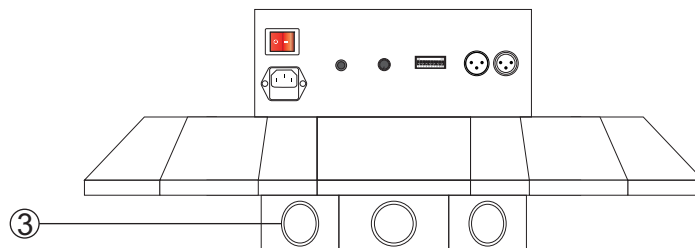
We cannot be made liable for damager caused by incorrect installations and unskilled operation!

LED 8-Scan Laser Light Instruction Manual

Overview



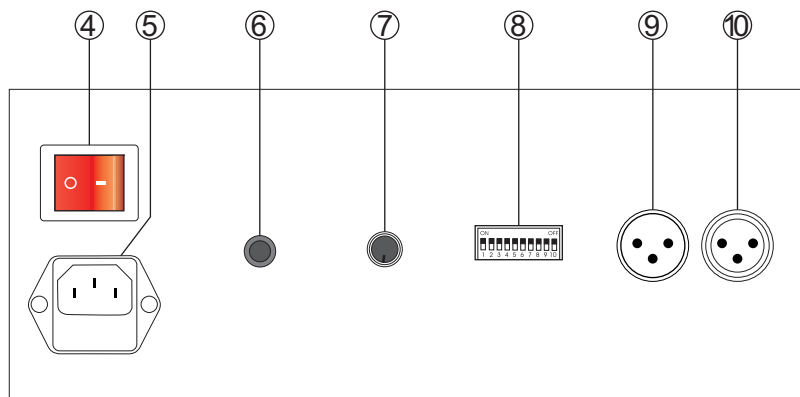
Front



Side

Identification:

1. Laser Mirrors
2. LED Lens
3. Laser Mirrors
4. Power switch
5. Power Input
6. MIC
7. Sound sensitivity control
8. Diswitches
9. DMX Out
10. DMX In



If we did not put DMX signal to the light and turn switch to “Auto”, the laser will be in auto-play mode, or put the switch to “ sound “ , it will pay sound program.

When have DMX signal, put potentiometer in ”off”, it will be controlled by DMX512

DIP Switches Control Mode

Function	DIP Switches (ON)	DIP Switches (OFF)
Sound active	9、10	1、2、3、4、5、6、7、8
Auto run	10	1、2、3、4、5、6、7、8、9
DMX512	1	2、3、4、5、6、7、8、9、10
Master/slave	Slave: 1	Master: 2、3、4、5、6、7、8、9、10

DMX512 Channels Chart

Channel	DMX Channel value	Function
CH1	0-255	The 1st motor scan location
CH2	0-255	The 2nd motor scan location
CH3	0-255	The 3rd motor scan location
CH4	0-255	The 4th motor scan location
CH5	0-255	The 5th motor scan location
CH6	0-255	The 6th motor scan location
CH7	0-255	The 7th motor scan location
CH8	0-255	The 8th motor scan location
CH9	0-255	Motor speed (fast-slow)
CH10	0-39	motor not move
	40-79	The 1st motor built-in scene
	80-119	The 2nd motor built-in scene
	120-159	The 3rd motor built-in scene
	160-199	Auto program(built-in)
	200-255	Motor sound running

LED 8-Scan Laser Light Instruction Manual

Channel	DMX Channel value	Function
CH11	0-19	LED light closed
	20-37	blue
	38-56	green
	57-75	red
	76-94	yellow
	95-113	green
	114-132	blue
	133-151	Blue+yellow
	152-170	Green+red
	171-189	Blue+green
	190-246	LED auto play
	247-255	LED sound running
CH12	0-255	LED auto play speed(fast-slow)
CH13	0-255	Laser strobe(slow-fast)
CH14	0-14	Laser light closed
	15-29	Laser light open
	30-44	The 1st laser bright
	45-59	The 2nd laser bright
	60-74	The 3rd laser bright
	75-89	The 4th laser bright
	90-104	The 5th laser bright
	105-119	The 6th laser bright
	120-134	The 7th laser bright
	135-149	The 8th laser bright
	150-254	Laser auto play
	255	Laser sound running
CH15	0-255	Laser auto play speed(slow to fast)

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 from 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).

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

- The Equinox Triclops 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.

LED 8-Scan Laser Light Instruction Manual

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.

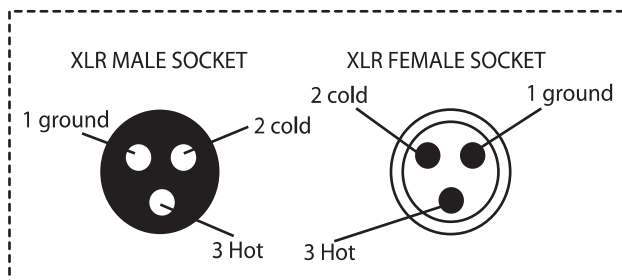
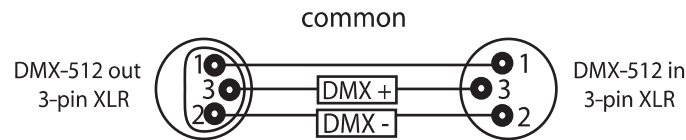


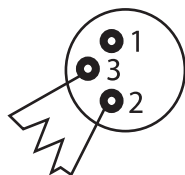
FIGURE 3

XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Negative
Pin 3 = Postive

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 interference. 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.

3- Pin XLR to 5-PIN XLR Conversion		
Conductor	3-Pin XLR out	5-Pin XLR in
Ground shield	Pin 1	Pin 1
Negative (-)	Pin 2	Pin 2
Positive (+)	Pin 3	Pin 3

LED 8-Scan Laser Light Instruction Manual

DMX Dip Switch Quick Reference Chart

Dip Switch Position

DMX DIP SWITCH SET 0=OFF 1=ON					#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	1
					#7	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
					#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	180
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