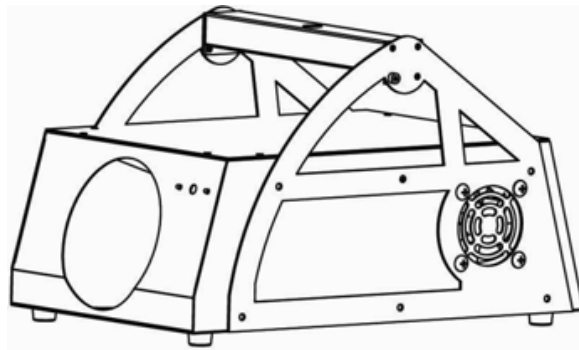


Scorpion™ Storm RG

Snapshot

OK on Dimmer	⊘
Outdoor OK	⊘
Sound Activated	✓
DMX512	✓
Master/Slave	⊘
115V/230V Switch	✓
Replaceable Fuse	✓
User Serviceable	⊘
Duty Cycle	⊘

USER MANUAL



Chauvet, 3000 N 29th Ct, Hollywood, FL 33020 U.S.A.
(800) 762-1084 – (954) 929-1115
FAX (954) 929-5560
www.chauvetlighting.com

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1. BEFORE YOU BEGIN

What is included

- 1 x Scorpion™ Storm RG
- 1 x IEC Power Cord
- 1 x Warranty Card
- 1 x User Manual

Unpacking Instructions

Immediately upon receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

AC Power

To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixture's specifications chart. A fixture's listed current rating is its average current draw under normal conditions. All fixtures must be powered directly off a switched circuit and cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch. Before applying power to a fixture, check that the source voltage matches the fixture's requirement. Check the fixture or device carefully to make sure that if a voltage selection switch exists that it is set to the correct line voltage you will use.

Figure 1 - AC Voltage Switch



Not all fixtures have a voltage select switch. Please be sure to connect to the proper voltage.

Warning!

Verify that the voltage select switch on your unit matches the line voltage applied. Damage to your fixture may result if the line voltage applied does not match the voltage indicated on the voltage selector switch. All fixtures must be connected to circuits with a suitable Earth Ground.

Contact Us

World Wide

General Information

Chauvet Lighting
3000 North 29th Court
Hollywood, FL 33020
voice: 954.929.1115
fax: 954.929.5560
toll free: 800.762.1084

Technical Support

Chauvet Lighting
3000 North 29th Court
Hollywood, FL 33020
voice: 954.929.1115 **(Press 4)**
fax: 954.929.5560 **(Attention: Service)**

World Wide Web

www.chauvetlighting.com

Safety Instructions



Please read these instructions carefully, which includes important information about the installation, usage and maintenance of this product.

- Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Always make sure that you are connecting to the proper voltage, and that the line voltage you are connecting to is not higher than that stated on the decal or rear panel of the fixture.
- This product is intended for indoor use only!
- To prevent risk of fire or shock, do not expose fixture to rain or moisture. Make sure there are no flammable materials close to the unit while operating.
- The unit must be installed in a location with adequate ventilation, at least 20in (50cm) from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Always disconnect from power source before servicing or replacing lamp or fuse and be sure to replace with same lamp source.
- Secure fixture to fastening device using a safety chain. Never carry the fixture solely by its head. Use its carrying handles.
- Maximum ambient temperature (Ta) is 104°F (40°C). Do not operate fixture at temperatures higher than this.
- In the event of a serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- Never connect the device to a dimmer pack.
- Make sure the power cord is never crimped or damaged.
- Never disconnect the power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to the light source while it is on.
- Do not daisy chain power to more than 26 units @ 120V.

Caution!

There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact CHAUVET at: 954-929-1115.



2. INTRODUCTION

Features

- 4-channel DMX-512 controlled red and green laser
- Operating modes: auto, sound activation, DMX
- Motor rotation speed and direction adjustments
- Laser on/off & stand alone via DMX
- Color selection: red, green or both red & green (with strobe control)
- Built-in automatic programs via DMX
- Built-in sound activated programs via DMX

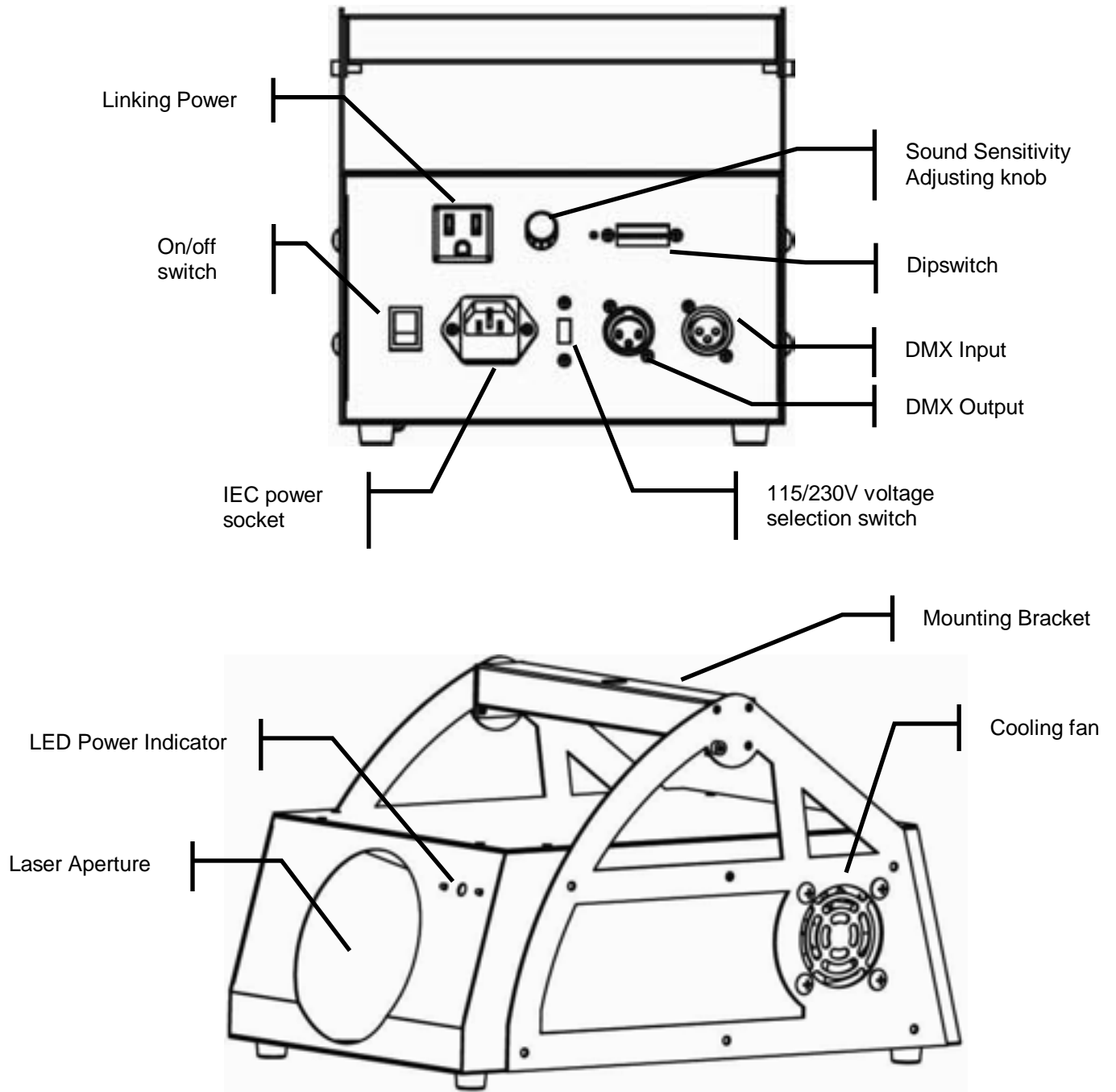
ADDITIONAL FEATURES

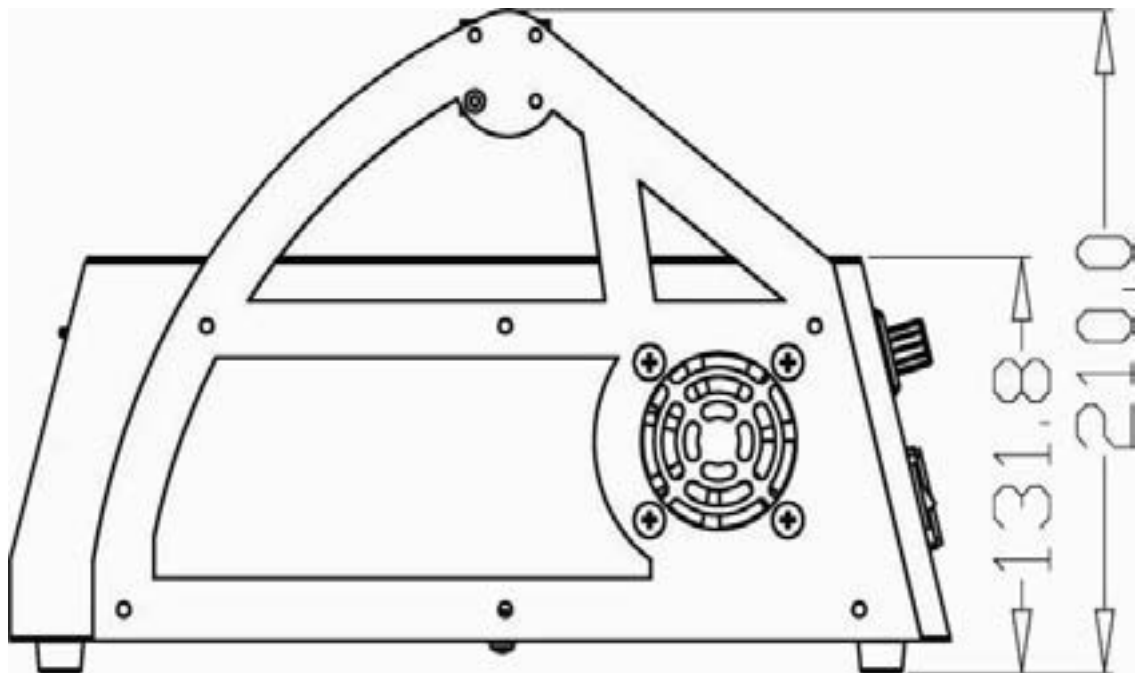
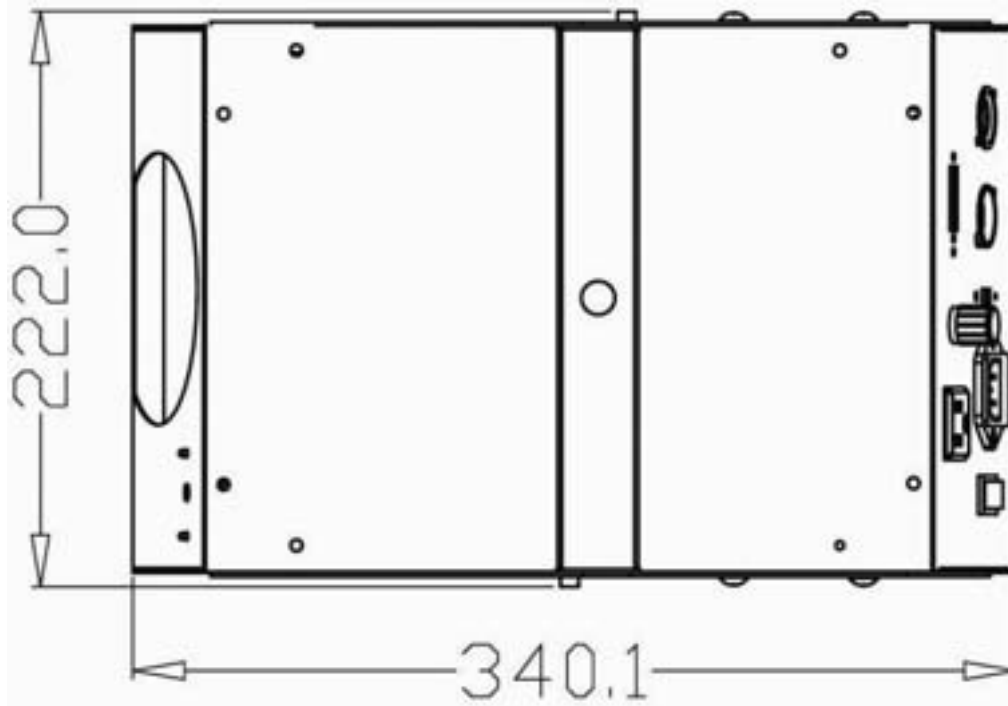
- Creates a very unique laser star field effect with hundreds of beams
- Additional power output: max 26 units @ 120V

DMX Channel Summary

1 MODE		2 MOTOR	3 STROBE RED	4 STROBE GREEN
Blackout	000⇔04	No Function	Laser Off 000⇔004	Laser Off 000⇔004
DMX Red	005⇔033	Stop 000⇔004 Right Rotate 005⇔125 Stop 126⇔131 Left Rotate 132⇔249 Sound 250⇔255	Fast to Slow 005⇔255	Slow to Fast 005⇔255
DMX Green	034⇔062			
DMX Red/Green	063⇔091			
Automatic Red	092⇔120	No Function		
Automatic Green	121⇔149			
Automatic Red/Green	150⇔178			
Sound Red	179⇔207			
Sound Green	208⇔236			
Sound Red/Green	237⇔255			

Product Overview





3. COMPLIANCE STATEMENT

Your Scorpion™ Storm RG complies with FDA/CDRH 21CFR1040, 1540.11, and Laser Notice 50 as well as IEC 60825-1:2003 as well as with FDA/CDRH Safety Standards under Class IIIa. Due to a unique optic design, this product does not exceed output powers that exceed its classification and output levels government agencies have determined to be appropriate for the products function.

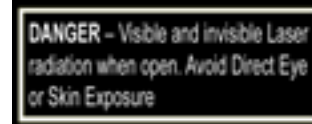
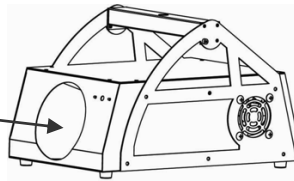
Laser Safety and Compliance Information

This product is manufactured to comply with the IEC 60825-1 and in accordance with U.S. Food and Drug Administrations (FDA) Standards listed under FDA Document 21 CFR 1040 and subsequent laser notices.

Product Classification and Manufacturing Label Identification

Laser Classification	Class IIIa
Laser Medium	DPSS YVO4 532nm + 650nm
Cooling	Fan Cooled
Output	<20mW
Beam Diameter at aperture	10 – 14mm
Beam Divergence	Optically adjusted for compliance
Radiant Exposure at Aperture	<4.95mW (7mm Human Limiting Aperture)

There is only one laser aperture on this product.



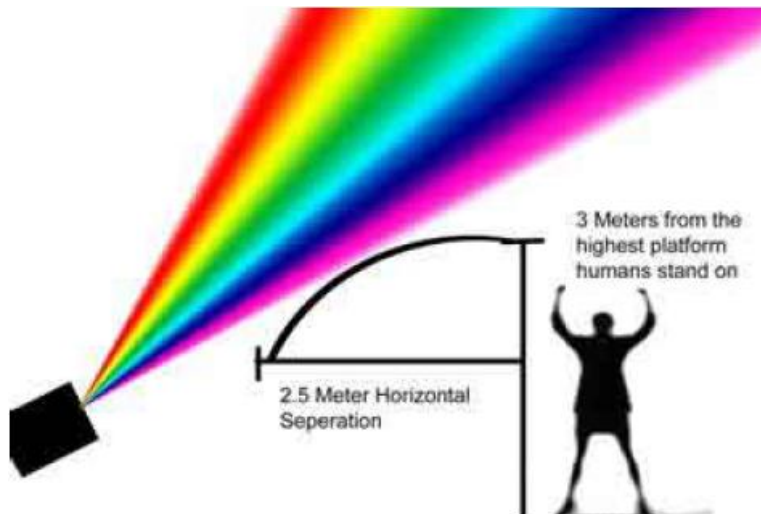
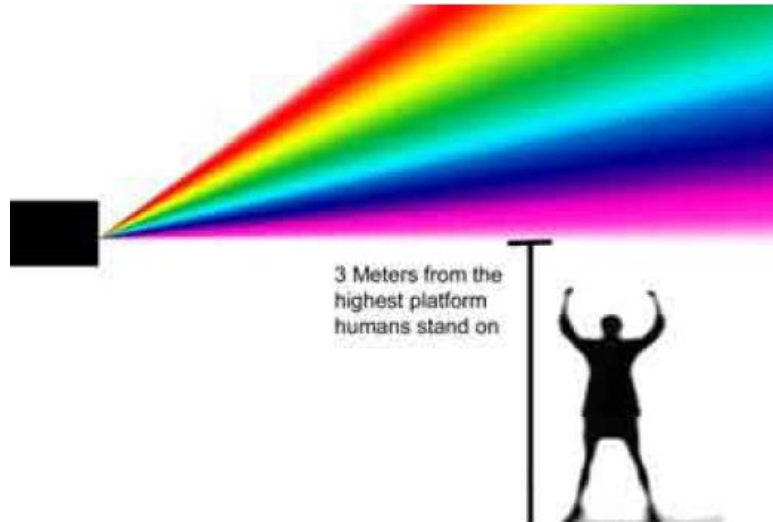
CAUTION: AVOID EXPOSURE TO BEAM: Avoid direct eye contact with laser light. Never intentionally expose your eyes or others to direct laser radiation.

Non-Interlocked Housing Warning Labels. This unit contains an embedded laser device that exceeds the output of the intended class internally. Exposure to unsafe levels of laser radiation when opened.



Additionally there are no user serviceable parts inside. Tampering or removing warranty seals will void your product's limited warranty.

Proper Usage



CAUTION: Use of controls, adjustments, or performance of procedures other than what is specified herein may result in hazardous radiation exposure

4. SETUP



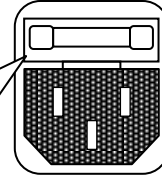
Disconnect the power cord before replacing a fuse and always replace with the same type fuse.



Fuse Replacement

With a flat head screwdriver wedge the fuse holder out of its housing. Remove the damaged fuse from its holder and replace with exact same type fuse. Insert the fuse holder back in its place and reconnect power.

The fuse is located inside this compartment. Remove using a flat head screwdriver.



Fixture Linking

You will need a serial data link to run light shows of one or more fixtures using a DMX-512 controller or to run synchronized shows on two or more fixtures set to a master/slave operating mode (if master/slave applicable). The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

Important: Fixtures on a serial data link must be daisy chained in one single line. To comply with the EIA-485 standard no more than 32 devices should be connected on one data link. Connecting more than 32 fixtures on one serial data link without the use of a DMX optically-isolated splitter may result in deterioration of the digital DMX signal.

Maximum recommended serial data link distance: 500 meters (1640 ft.)

Maximum recommended number of fixtures on a serial data link: 32 fixtures

Data Cabling

To link fixtures together you must obtain data cables. You can purchase CHAUVET-certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

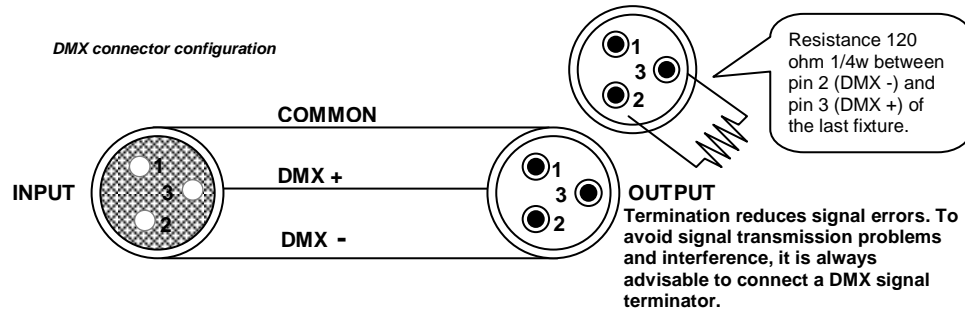
DMX DATA CABLE

Use a Belden© 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Standard microphone cables cannot transmit DMX data reliably over long distances. The cable will have the following characteristics:

*2-conductor twisted pair plus a shield
Maximum capacitance between conductors – 30 pF/ft.
Maximum capacitance between conductor and shield – 55 pF/ft.
Maximum resistance of 20 ohms / 1000 ft.
Nominal impedance 100 – 140 ohms*

CABLE CONNECTORS

Cabling must have a male XLR connector on one end and a female XLR connector on the other end.



CAUTION Do not allow contact between the common and the fixture's chassis ground. Grounding the common can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify correct polarity and to make sure the pins are not grounded or shorted to the shield or each other.

3-PIN TO 5-PIN CONVERSION CHART

Note! If you use a controller with a 5 pin DMX output connector, you will need to use a 5 pin to 3 pin adapter. CHAUVET Model No: DMX5M, or DMX5F. The chart below details a proper cable conversion:

3 PIN TO 5 PIN CONVERSION CHART

Conductor	3 Pin Female (output)	5 Pin Male (Input)
Ground/Shield	Pin 1	Pin 1
Data (-) signal	Pin 2	Pin 2
Data (+) signal	Pin 3	Pin 3
Do not use		Do not use
Do not use		Do not use

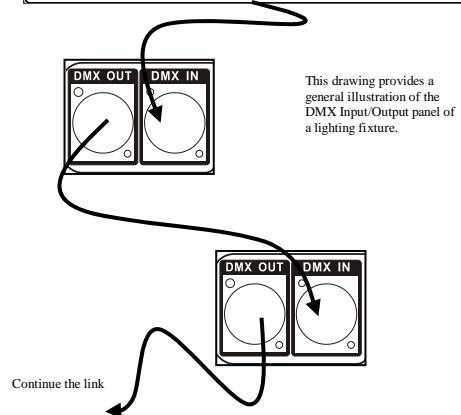
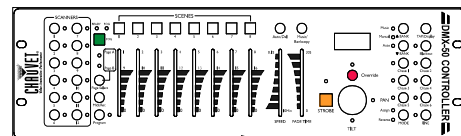
Setting up a DMX Serial Data Link

1. Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the controller.
2. Connect the end of the cable coming from the controller which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector.
3. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.

CHAUVET Certified DMX Data Cables

Order Code	Description
DMX1.5	DMX Cable 1.5m/4.9ft
DMX4.5	DMX Cable 4.5m/14.8ft
DMX10	DMX Cable 10m/32.8ft

Universal DMX Controller



Mounting

ORIENTATION

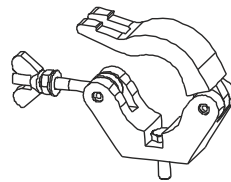
This fixture may be mounted in any safe position provided there is adequate room for ventilation.

RIGGING

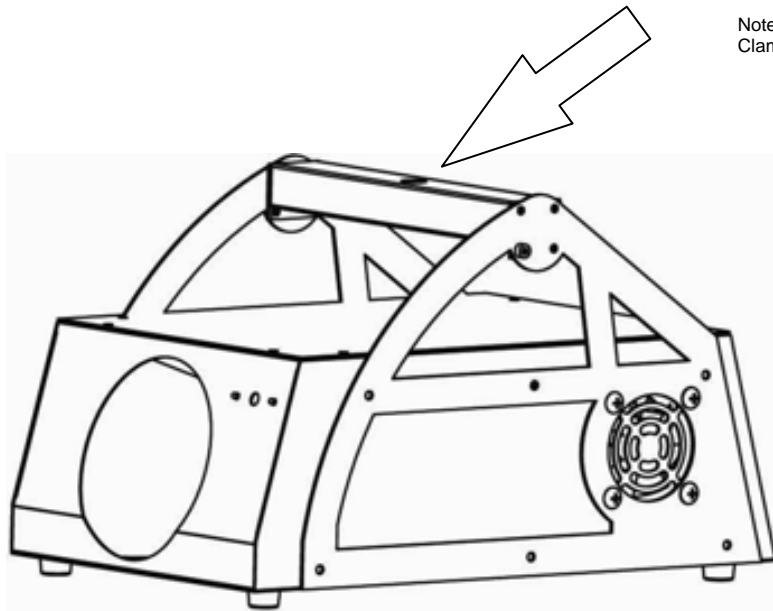
It is important never to obstruct the fan or vents pathway. Mount the fixture using a suitable "C" or "O" type clamp. Adjust the angle of the fixture by loosening both knobs and tilting the fixture. After finding the desired position, retighten both knobs.

- When selecting installation location, take into consideration lamp replacement access and routine maintenance.
- Safety cables must always be used.
- Never mount in places where the fixture will be exposed to rain, high humidity, extreme temperature changes or restricted ventilation.

Hanging Clamp



Note!
Clamp is sold separately.



5. OPERATING INSTRUCTIONS

Stand-Alone Mode (Sound-Active, Auto Mode):

This mode allows a single unit to run to the beat of the music, or the unit will auto change in Auto Mode. When all dipswitches are in the Off position, the unit will run in sound active mode.

You may use a combination of the dipswitches to create your desired effect.

Note: the counter-clockwise rotation takes precedence over the clockwise rotation.

- 1) Set dipswitches position, as desired, using the below values.

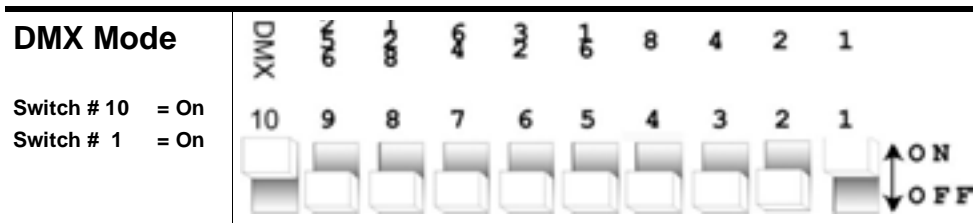
Dipswitches	Function
1	On: Auto Off: Sound Active
2	On: Red (can be used in auto, rotation)
3	On: Green (can be used in auto, rotation)
4	On: right rotation; slow
5	On: right rotation; medium
4+5	4+5 On: right rotation fast
6	On: rotation in both directions; slow
7	On: rotation in both directions; medium
6+7	6+7 On: rotation in both directions; fast
8	On: strobe; slow
9	On: strobe; medium
8+9	both 8+9 On: strobe; fast
10	On: DMX operation/mode

- 2) The unit will react to the low frequencies of music via the internal microphone in Sound Active mode, or the unit will auto change in Auto Mode.
- 3) Use the audio sensitivity knob on the back of the unit to make the unit more or less sensitive in Sound-Active mode. Turning the knob counterclockwise decreases the sensitivity; turning the knob clockwise increases the sensitivity.

DMX Mode

This mode allows the unit to be controlled by any universal DMX controller. You must place the fixture into DMX mode by turning the dipswitch #10 to the on position. If you are unfamiliar with DMX, please read the DMX Primer on page 18.

-The example listed below demonstrates a fixture set to DMX mode at DMX address 001.



SETTING THE STARTING ADDRESS

This DMX mode enables the use of a universal DMX controller device. Each fixture requires a "start address" from 1 to 512. 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 uses 6 DMX channels and was addressed to start on DMX channel 100, would read data from channels: 100, 101, 102, 103, 104, and 105. Choose start addresses so that the channels used do not overlap, and note the start address selected for future reference.

If this is your first time addressing a fixture using the DMX-512 control protocol, we suggest jumping to the Appendix Section and reading the heading "DMX Primer". It contains very useful information that will help you understand its use.

Set the start address using the group of DIP switches located usually on bottom 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. Figuring out which switches to toggle ON given a specific start address can be accomplished by determining which switch values will add up to the address value and turning these switches on. Do so by doing the following:

- 1) Determine the largest value switch that is less than the start address. Turn this switch on.
- 2) Subtract the value of the switch you just turned on from the starting address number.
- 3) Determine the largest value switch that is less than the remainder from the previous subtraction. Turn this switch on.
- 4) Subtract the value of the switch you just turned on from the remainder of the previous subtraction.
- 5) Repeat steps three and four until you have a remainder of zero.

EXAMPLE STARTING ADDRESS

<p>Address 10</p> <p>Switch # 4 = 8 Switch # 2 = 2 Total = 10</p>	<p>256 128 64 32 16 8 4 2 1</p> <p>9 8 7 6 5 4 3 2 1</p> <p>ON OFF</p>																				
<p>Address 24</p> <p>Switch # 5 = 16 Switch # 4 = 8 Total = 24</p>	<p>256 128 64 32 16 8 4 2 1</p> <p>9 8 7 6 5 4 3 2 1</p> <p>ON OFF</p>																				
<p>Resolving address using simple math.</p> <p>Address 233</p>	<p>233 - (128) = 105, Turn ON Dip # 8 105 - (64) = 41, Turn ON Dip # 7 41 - (32) = 9, Turn ON Dip # 6 9 - (8) = 1, Turn ON Dip # 4 1 - (1) = 0, Turn ON Dip # 1</p> <table border="1" style="margin-left: auto; margin-right: 0;"> <thead> <tr> <th>DIPSWITCH</th> <th>(DMX VALUE)</th> </tr> </thead> <tbody> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td></tr> <tr><td>3</td><td>4</td></tr> <tr><td>4</td><td>8</td></tr> <tr><td>5</td><td>16</td></tr> <tr><td>6</td><td>32</td></tr> <tr><td>7</td><td>64</td></tr> <tr><td>8</td><td>128</td></tr> <tr><td>9</td><td>256</td></tr> </tbody> </table>	DIPSWITCH	(DMX VALUE)	1	1	2	2	3	4	4	8	5	16	6	32	7	64	8	128	9	256
DIPSWITCH	(DMX VALUE)																				
1	1																				
2	2																				
3	4																				
4	8																				
5	16																				
6	32																				
7	64																				
8	128																				
9	256																				

DMX QUICK REFERENCE CHART

DMX Address Quick Reference Chart																				
Dip Switch Position																				
DMX DIP SWITCH SET 0=OFF 1=ON X=OFF or 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				
	#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
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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

Scorpion™ Storm RG Troubleshooting

Symptom(s)	Possible Solution(s)
Laser is producing low output	-Note: This laser diode has a 90-day warranty, which is separate from the fixture warranty.
	-Note: In the event of diode failure, a replacement diode & diode PCB may be ordered directly from Chauvet Part#: P179-STORMG (GREEN) Part#: P179-STORMR (RED)
	There may be a problem with the rotating prism assembly. Please check to be sure that there is nothing obstructing the optical path for the laser, and that the motor is working properly.
	Check to see if the rotational belt is functioning properly. -Note: In the event that the belt has been severed, a replacement belt may be ordered directly from Chauvet Part#: P111-STBELT
Breaker/Fuse keeps blowing	Check total load placed on the electrical circuit
	Check for a short in the electrical wiring: internal and/or external
Device has no power	Check device's fuse (internal)
	Check for power on Mains
	Check cable connection. The IEC cable must be firmly connected for operation
	-Note: In the event of transformer failure, the unit can be sent in for repair; however, a replacement part may be ordered directly from Chauvet Part#: P140-STORMT
Fixture is not responding to DMX	Check Control Panel settings for correct addressing
	Check DMX cables
	Check polarity switch settings on the controller
	Check cable connections
	Call service technician
	-Note: In the event of Master PCB failure, a replacement PCB can be ordered directly from Chauvet Part#: P170-STORMLP
Loss of signal	Use only DMX cables
	Install terminator
	Note: Keep DMX cables separated from power cables or black lights
Stand alone operation	This fixture has built-in, automatic programs that may be triggered using the dipswitches. See the section on standalone operation for detailed instructions on this function.

If you still have a problem after trying the above solutions, please contact CHAUVET Technical Support at the location on the next page.

Technical Support

Address: Service Dept.
3000 N 29th Ct, Hollywood, FL 33020 (U.S.A.)
Support (Email): tech@chauvetlighting.com
Telephone: (954) 929-1115 - (Press 4)
Fax: (954) 929-5560 - (Attention: Service)
Website: http://www.chauvetlighting.com

6. APPENDIX

DMX Primer

There are 512 channels in a DMX-512 connection. Channels may be assigned in any manner. A fixture capable of receiving DMX 512 will require one or a number of sequential channels. The user must assign a starting address on the fixture that indicates the first channel reserved in the controller. There are many different types of DMX controllable fixtures and they all may vary in the total number of channels required. Choosing a start address should be planned in advance. Channels should never overlap. If they do, this will result in erratic operation of the fixtures whose starting address is set incorrectly. You can however, control multiple fixtures of the same type using the same starting address as long as the intended result is that of unison movement or operation. In other words, the fixtures will be slaved together and all respond exactly the same.

DMX fixtures are designed to receive data through a serial Daisy Chain. A Daisy Chain connection is where the DATA OUT of one fixture connects to the DATA IN of the next fixture. The order in which the fixtures are connected is not important and has no effect on how a controller communicates to each fixture. Use an order that provides for the easiest and most direct cabling. Connect fixtures using shielded two conductor twisted pair cable with three pin XLR male to female connectors. The shield connection is pin 1, while pin 2 is Data Negative (S-) and pin 3 is Data positive (S+). CHAUVET carries 3-pin XLR DMX compliant cables, DMX-10 (33'), DMX-4.5 (15') and DMX-1.5 (5')

General Maintenance

To maintain optimum performance and minimize wear fixtures should be cleaned frequently. Usage and environment are contributing factors in determining frequency. As a general rule, fixtures should be cleaned at least twice a month. Dust build up reduces light output performance and can cause overheating. This can lead to reduced lamp life and increased mechanical wear. Be sure to power off fixture before conducting maintenance.

Unplug fixture from power. Use a vacuum or air compressor and a soft brush to remove dust collected on external vents and internal components. Clean all glass when the fixture is cold with a mild solution of glass cleaner or Isopropyl Alcohol and a soft lint free cotton cloth or lens tissue. Apply solution to the cloth or tissue and drag dirt and grime to the outside of the lens. Gently polish optical surfaces until they are free of haze and lint.

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics. Clean with soft cloth using normal glass cleaning fluid. - Always dry the parts carefully. - Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

Returns Procedure

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Merchandise Authorization Number (RMA #). Products returned without a RMA # will be refused. Call CHAUVET and request RMA # prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. CHAUVET reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

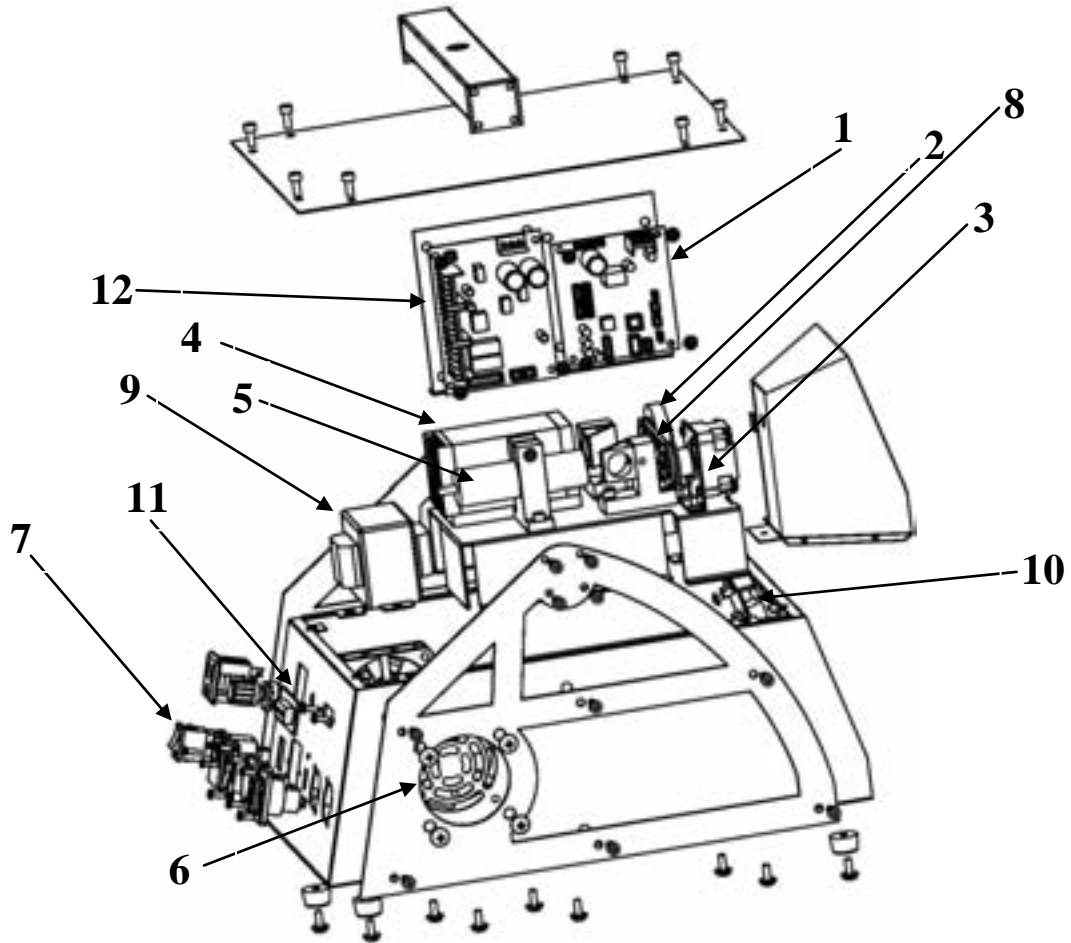
Note: If you are given a RMA #, please include the following information on a piece of paper inside the box:

- 1) Your name
- 2) Your address
- 3) Your phone number
- 4) The RMA #
- 5) A brief description of the symptoms

Claims

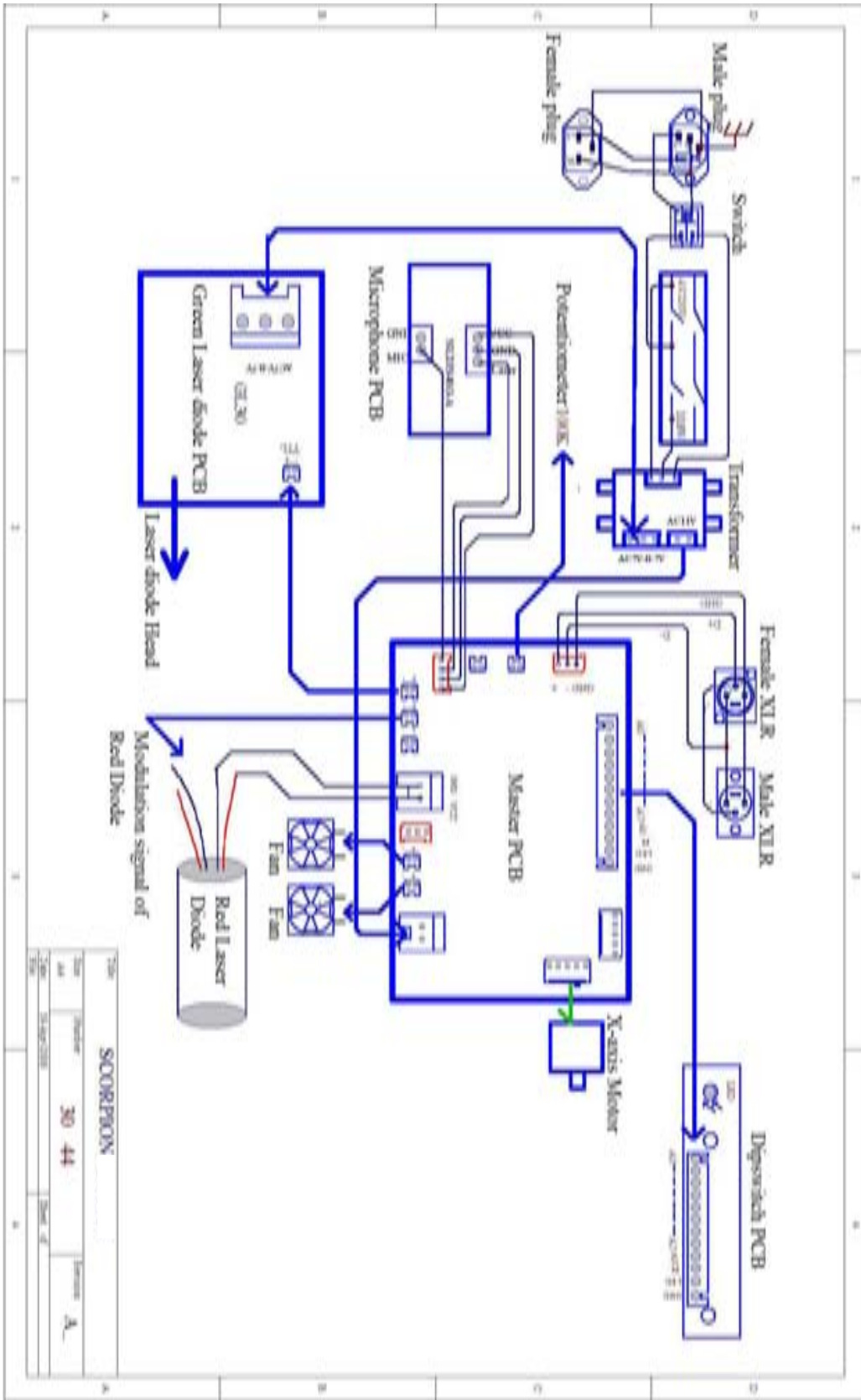
Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise. It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Any other claim for items such as missing component/part, damage not related to shipping, and concealed damage, must be made within seven (7) days of receiving merchandise.

Blow-out Diagram



	Description	Part Number
1	Master PCB	P170-STORMLP
2	Storm Lens ball-bearing assembly	P111-STORMBB
3	X-axis Stepper Motor	P110-16HY050
4	Storm Green laser diode	P179-STORMG
5	Storm Red laser diode	P179-STORMR
6	12VDC Fan 60mm X 60mm	P130-12V60MM
7	Led On/Off Switch 21 x 15mm	P110-LEDON21
8	Belt for rotation	P111-STBELT
9	Magnetic Transformer 115/230volt switchable	P140-STORMT
10	Microphone/LED Indicator PCB NLDJS40G-A	P170-STORMLP
11	Dipswitch PCB-10 switches with LED indicator	P171-STORMDS
12	Storm Green laser diode PCB	P171-STORDG

Wiring Diagram



Technical Specifications

WEIGHT & DIMENSIONS

Length 13.5 in (343 mm)
Width 8.5 in (216 mm)
Height 8.5 in (216 mm)
Weight 11 lbs (5 kg)

POWER

Switch-selectable power settings 120V 60Hz AC or 230V 50Hz
Fuse 2A 250V
Power Consumption 25W (0.3A) max at 120V
Inrush Power (0.7A) at 120V
Power Factor 0.83 at 120V
Power Output 26 units max at 110V

LASER

Diode 1 x 85mW green laser module, 1 x 85mW red laser module
Wavelength 532nm (Green), 650nm (Red)
Laser Type DPSS
Laser Output <5mW

COOLING

Forced convection cooled 60mm 12volt fan (*2)

PHOTO OPTIC

Beam Angle 84° x 80°

THERMAL

Maximum ambient temperature 104°F (40°C)

CONTROL & PROGRAMMING

Data input locking 3-pin XLR male socket
Data output locking 3-pin XLR female socket
Data pin configuration pin 1 shield, pin 2 (-), pin 3 (+)
Protocols DMX-512 USITT
DMX Channels 4

ORDERING INFORMATION

Scorpion™ Storm RG SCORPIONSTORMG

SPARE PARTS

Master PCB P170-STORMLP
Storm Lens ball-bearing assembly P111-STORMBB
Stepper Motor P110-16HY050
Storm Green laser diode P179-STORMG
Storm Red laser diode P179-STORMR
12VDC Fan 60mm X 60mm P130-12V60MM
Led On/Off Switch 21 x 15mm P110-LEDON21
110V/220V selector switch P160-110/220
Belt for rotation P111-STBELT
Magnetic Transformer 115/230volt switchable P140-STORMT
Microphone/LED Indicator PCB NLDJS40G-A P170-STORMLP
Dipswitch PCB-10 switches with LED indicator P171-STORMDS
Storm Green laser diode PCB P171-STORDG

WARRANTY INFORMATION

Operation Warranty 2-year limited warranty
Laser Diode(s) Warranty 90-day limited warranty