MB DMX II

USER MANUAL

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Europe Energy Saving Notice

Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!

DOCUMENT VERSION

Due to additional product features and/or enhancements, an updated version of this document may be available online.

Please check www.adj.com for the latest revision/update of this manual before beginning installation and/or programming.

Date	Document Version	Notes
12/09/19	1	UC IR Control Added
11/17/21	1.5	Update Format
02/11/22	2.0	Removed MINI/C control section
10/21/22	2.5	Added Dip Switch Chart

CONTENTS

GENERAL INFORMATION

INTRODUCTION

Please read and understand all instructions in this manual carefully and thoroughly before attempting to operate these products. These instructions contain important safety and use information.

UNPACKING

The products in this kit have been thoroughly tested and have been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect each unit included for damage and be sure all accessories necessary to operate the units have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this kit to your dealer without first contacting customer support at the number listed below. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

WARRANTY RETURNS

All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Items returned without a R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain a R.A. number by contacting customer support.

LIMITED WARRANTY (USA ONLY)

A. ADJ Products, LLC hereby warrants, to the original purchaser, ADJ Products, LLC products to be free of manufacturing defects in material and workmanship for a prescribed period from the date of purchase (see specific warranty period on reverse). This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

B. For warranty service, you must obtain a Return Authorization number (RA#) before sending back the product-please contact ADJ Products, LLC Service Department at 800-322-6337. Send the product only to the ADJ Products, LLC factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, ADJ Products, LLC will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall have no liability whatsoever for loss of or damage to any such accessories, or for the safe return thereof.

C. This warranty is void of the serial number has been altered or removed; if the product is modified in any manner which ADJ Products, LLC concludes, after inspection, affects the reliability of the product, if the product has been repaired or service by anyone other than ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because not properly maintained as set forth in the instruction manual.

D. This is not a service contact, and this warranty does not include maintenance, cleaning or periodic check up. During the period specified above, ADJ Products, LLC will replace defective parts at its expense with new or refurbished parts, and will absorb all expenses for warrant service and repair labor by reason of defects in material or workmanship. The sole responsibility of ADJ Products, LLC under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of ADJ Products, LLC. All products covered by this warranty were manufactured after August 15, 2012, and bear identifying marks to that effect.

E. ADJ Products, LLC reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by ADJ Products, LLC in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and/or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall ADJ Products, LLC be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

G. This warranty is the only written warranty applicable to ADJ Products, LLC Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

LIMITED WARRANTY PERIODS

- **Non L.E.D. Lighting Products = 1-year (365 days) Limited Warranty** (Such as: Special Effect Lighting, Intelligent Lighting, UV lighting, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands etc. excluding LED and lamps)
- **Laser Products = 1 Year (365 Days) Limited Warranty** (excludes laser diodes which have 6 month limited warranty)
- **L.E.D. Products = 2-year (730 days) Limited Warranty** (excluding batteries which have a 180 day limited warranty) Note: 2 Year Warranty only applies to purchases within the United States.
- **StarTec Series = 1 Year Limited Warranty** (excluding batteries which have a 180 day limited warranty)
- **ADJ DMX Controllers = 2 Year (730 Days) Limited Warranty**

SAFETY GUIDELINES

This device is a sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. ADJ PRODUCTS, LLC. is not responsible for injury and/or damages resulting from the misuse of this device due to the disregard of the information printed in this manual. Only the original included parts and/or accessories for this device should be used. Any modifications to the device, included and/or accessories will void the original manufactures warranty and increase the risk of damage and/or personal injury.

PROTECTION CLASS 1 – DEVICE MUST BE PROPERLY GROUNDED

DO NOT ATTEMPT TO USE THIS DEVICE WITHOUT BEING FULLY TRAINED ON HOW TO USE IT. ANY DAMAGES OR REPAIRS TO THIS DEVICE OR ANY LIGHTING FIXTURES CONTROLLED BY THIS DEVICE RESULTING FROM IMPROPER USE, AND/OR THE DISREGARD OF THE SAFETY AND OPERATION GUIDELINES IN THIS DOCUMENT VOIDS THE ADJ PRODUCTS, LLC WARRANTY, AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS, AND MAY ALSO VOID THE WARRANTY FOR ANY NON-ADJ PRODUCTS, LLC DEVICES. KEEP FLAMMABLE MATERIALS AWAY FROM DEVICE.

DRY LOCATIONS USE ONLY!
DO NOT EXPOSE DEVICE TO RAIN, MOISTURE, AND/OR SEVERE ENVIRONMENTS!
DO NOT SPILL WATER AND/OR LIQUIDS ON OR INTO THE DEVICE!

KEEP DRY

AVOID brute force handling when transporting or operating.

DO NOT expose any part of the device to open flame or smoke. Keep device away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

DO NOT use device in extreme and/or severe environments.

DO NOT shake fixture, avoid brute force when installing and/or operating fixture.

DO NOT operate fixture if the power cord is frayed, crimped, damaged and/or if any of the power cord connectors are damaged and do not insert into the fixture securely with ease. NEVER force a power cord connector into the fixture. If the power cord or any of its connectors are damaged, replace it immediately with a new one of similar power rating.

Allow approx. 6" (15cm) between fixture and other devices or a wall for proper cooling.

Always disconnect device from main power source before performing any type of service and/or cleaning procedure. Only handle the power cord by the plug end, never pull out the plug by tugging the wire portion of the cord.

Consistent operational breaks will ensure fixture will function properly for many years.

ONLY use the original packaging and materials to transport the fixture in for service.

MAINTENANCE GUIDELINES

⚠ **DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!**

CLEANING

Frequent cleaning is recommended to insure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky, or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics. Clean the external lens surface regularly with a soft cloth to avoid dirt/debris accumulation.

NEVER use alcohol, solvents, or ammonia-based cleaners.

TROUBLESHOOTING

Listed below are a few common problems the user may encounter, with solutions.

Unit not responding to DMX:

1. Check that the DMX cables are connected properly and are wired correctly (pin 3 is "hot"; on some other DMX devices pin 2 may be 'hot'). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.

MAINTENANCE

Regular inspections are recommended to insure proper function and extended life. There are no user serviceable parts inside this fixture. Please refer all other service issues to an authorized Elation service technician. Should you need any spare parts, please order genuine parts from your local Elation dealer.

Please refer to the following points during routine inspections:
- A detailed electrical check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall.
- Check for any deformations on the housing, color lenses, rigging hardware, and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).
- Electric power supply cables must not show any damage, material fatigue, or sediments.

NEVER remove the ground prong from the power cable.

DESCRIPTION

The MB DMX II motor can control up to 4 units simultaneously and allow for a synchronized motor rotation and universal speed. Circuit Breaker protection is included. The MB DMX II motor is meant for indoor use only.

The MB DMX II comes with 2 DMX channels: 1 channel to adjust the motor speed/direction of the mirror ball, and 1 channel to turn the pinspots on and off. 1/4" socket is offered for On/Off control with optional UC IR controller (mirror ball and UC IR remote not included).

FEATURES

- Micro-Stepping Motors for Smooth Rotation
- Uses Two DMX Channels
- DMX-512 Protocol Compatible
- Variable Head Rotation Speed
- Built-In Rigging Point
- Stand-Alone or Primary/Secondary Operation
- Linkable
- Two Built-In DMX Controlled AC Power Sockets
- Heavy Duty Mirror Ball Motor
- Rated for 20" Mirror Balls
- UC IR & Airstream Control (Sold Separately)

DMX SETUP

Power Supply: Before plugging your unit in, be sure the source voltage in your area matches the required voltage for your ADJ MB DMX II.

DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used by most lighting and controller manufactures as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fix- ture. 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 a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. Therefore, the first fixture controlled by the controller could be the last fixture in the chain. 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 Primary/Secondary Operation): DMX controller and unit require an approved DMX-512 110 Ohm Data cable for data input and data output. We recommend Accu-Cable DMX cables. If you are making your own cables, be sure to use standard 110-120 Ohm shielded cable

(This cable may be purchased at almost all professional sound and lighting stores). Your cables should be made with a male and female XLR connector on either end of the cable. Also remember that DMX cable must be daisy chained and cannot be split.

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DMX SETUP

3-Pin to 3-Pin Cable

Notice: When making your own cables, do not use the ground lug on the XLR connector. 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 behavior.

DMX512 OUT 3-PIN XLR — COMMON / DMX + / DMX - — DMX512 IN 3-PIN XLR

XLR Male Socket
1 Ground
2 Cold
3 Hot

XLR Female Socket
1 Ground
2 Cold
3 Hot
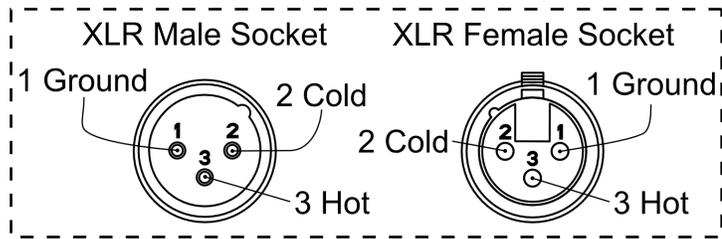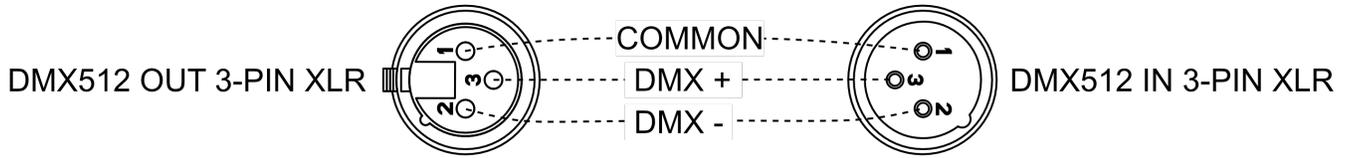
XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Data Compliment (negative)
Pin 3 = Data True (positive)

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 behavior. A terminator is a 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will decrease the possibilities of erratic behavior.
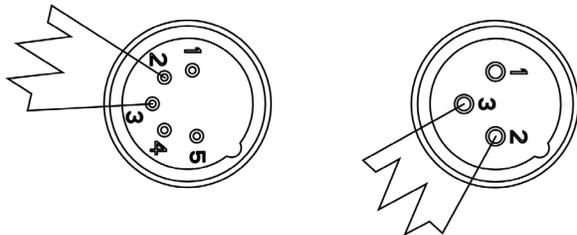
A DMX512 terminator reduces signal errors, avoiding most signal reflection interference. Connect PIN 2 (DMX-) and PIN 3 (DMX+) of the last fixture in series with a 120 Ohm, 1/4 W Resistor to terminate the DMX512.

3-Pin to 5-Pin Cable Adapter

Some manufactures use 5-pin DMX- 512 data cables for DATA transmission in place of 3-pin. 5-pin DMX fixtures may be implemented in a 3-pin DMX line. When inserting standard 5-pin data cables in to a 3-pin line a cable adaptor must be used, these adaptors are readily available at most electric stores. The graphic and chart below detail a proper cable conversion.

DMX512 OUT 3-PIN XLR — COMMON / DMX + / DMX - / NOT USED / NOT USED — DMX512 IN 5-PIN XLR

3-Pin XLR to 5-Pin XLR Conversion		
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Do Not Use
Not Used		Do Not Use

OPERATION

Operating Modes:
The MB DMX II may be operated in three different modes. Always be sure to disconnect the power supply after changing the operating mode to allow the unit to reset to the new operating mode. Failure to disconnect the power supply after changing the operating mode may cause the unit to function improperly.

• **Stand alone mode** - The unit will rotate to the pre-defined speed set with the dip switches. You can also use the optional UC IR remote (sold separately) to control various functions.

• **Primary/Secondary mode** - You can daisy chain up to 16 units together to get synchronized motor rotation. You can also use the optional UC IR remote to control various functions.

• **DMX control mode** - This function will allow you to control each unit's individual traits with a standard DMX 512 controller.

Stand Alone Mode:
This function allows a single unit to operate to any of the presets using the dipswitches. Only use this function when running a single unit, or when running several units as individuals. Please note this function does not allow individual control of the DMX traits.
1. To activate the Stand-Alone mode, locate the dipswitches on the side of the unit and flip dipswitch 10 to the "on" position.
2. Follow the dipswitch chart to select a preset speed and to control mirror ball rotation direction.
3. Attach the mirror ball to the motor and connect main power.
4. The optional UC IR remote (sold separately) may also be used to control the motor.``

Primary/Secondary Mode:
This function will allow you to link up to 16 units without the use of an external controller. In a Primary/ Secondary set up one unit will act as the controlling unit and the others will react to the controlling units presets. Any unit can act as a Primary or as a Secondary. Please note this function does not allow individual control of the DMX traits and will only run to the units built-in programs.
1. Using standard XLR microphone cables, as described on pages six and seven, daisy chain your units together via the XLR connec- tors on the rear of the units. Remember the Male XLR connector is the input and the Female XLR connector is the output. The first unit in the chain (primary) will use the female XLR connector only. The last unit in the chain will use the male XLR connector only. For longer cable runs we suggest a terminator at the last fixture.
2. Select a MB DMX II to be the "primary" unit. Locate the dipswitches on the side of the unit and flip dipswitch 10 to the "on" position.
3. Follow the dipswitch chart on page 13 to select a desired rotation speed and direction. Be sure to note that this   selection will be universal throughout all motors in the chain.
4. For all other motors in the chain (secondary) located the dipswitches on the side of the units and be sure dipswitch 10 is in the "off" position.
5. Connect main power to all the motors and they will immediately begin to rotate to the presets of the "primary" unit.
6. The optional UC IR remote (sold separately) may also be used to control the motor.

OPERATION

Universal DMX Control:

This function allows you to use a universal DMX-512 controller to control rotation speed, rotation direction, and the built-in power sockets (usually for pinspots). Operating through a DMX controller allows you the freedom to create unique and customized programs tailored to your specific individual needs.

1. The MB DMX II uses two DMX channels. Channel one controls power sockets located on the side of the unit. Channel two control the motor's rotation speed and direction.

2. To control your motor in DMX mode, follow the set-up procedures on pages 8 - 9, as well as the set-up specifications that are included with your DMX controller.
3. Use the DMX controller's faders to control the various DMX fixture traits. A list of the DMX traits and values is located on page 17.
4. This will allow you to create your own programs.
5. When using a DMX controller and setting up for DMX operation follow the DMX addressing procedure in your controller's manual. All fixtures must follow a specific DMX addressing protocol for proper operation in DMX mode.
6. For help operating in DMX operation consult the manual included with your DMX controller.
7. For longer cable runs (more than a 100 feet) use a terminator on the last fixture.

UC IR & AIRSTREAM APP CONTROL

The UC IR (sold separately) infrared remote gives you control of various functions (See below). To control the fixture you must aim the remote at the front of the fixture and be no more than 30 feet away. To use the ADJ UC IR you must first connect the included IR receiver cable. Connect this cable to the mini input jack located on the side of the unit near the dipswitches.

The Airstream IR (sold separately) remote transmitter plugs into the headphone jack of your iOS phone or tablet. To control your IR fixture you must raise the volume to the maximum on your iOS phone or tablet and aim the transmitter at the fixture sensor and be no more than 15 feet away. After you have purchased the Airstream IR transmitters, the app is a free download from the app store for your iOS phone or tablet. The app comes with 3 pages of control depending on the fixture you are using. Please see below for IR functions including the corresponding app page.

Works with App page 1.

STAND BY - Pressing this button will turn the remote control option On and Off.

FULL ON - This will turn a connected light On and Off. FADE/GOBO - This button is invalid.

"**DIMMER +**" and "**DIMMER -**" - "Dimmer +" will rotate the ball clockwise and "Dimmer -" will rotate the ball counter-clockwise.

STROBE - Press this button to activate strobing. COLOR - This button is invalid.

1-9 - Use buttons 1-8 to select your rotation speed. "1" being the fastest and "8" being the slowest. "9" will pause/stop the motor from rotating.

SOUND ON & OFF & Show 0 - These buttons will control the strobe rate of a connected pinspot. Sound On is slowest strobe speed, Show 0 is medium speed, and Sound Off is the fastest speed. Sound On - 1Hz Show 0 - 3.5Hz Sound Off - 7Hz
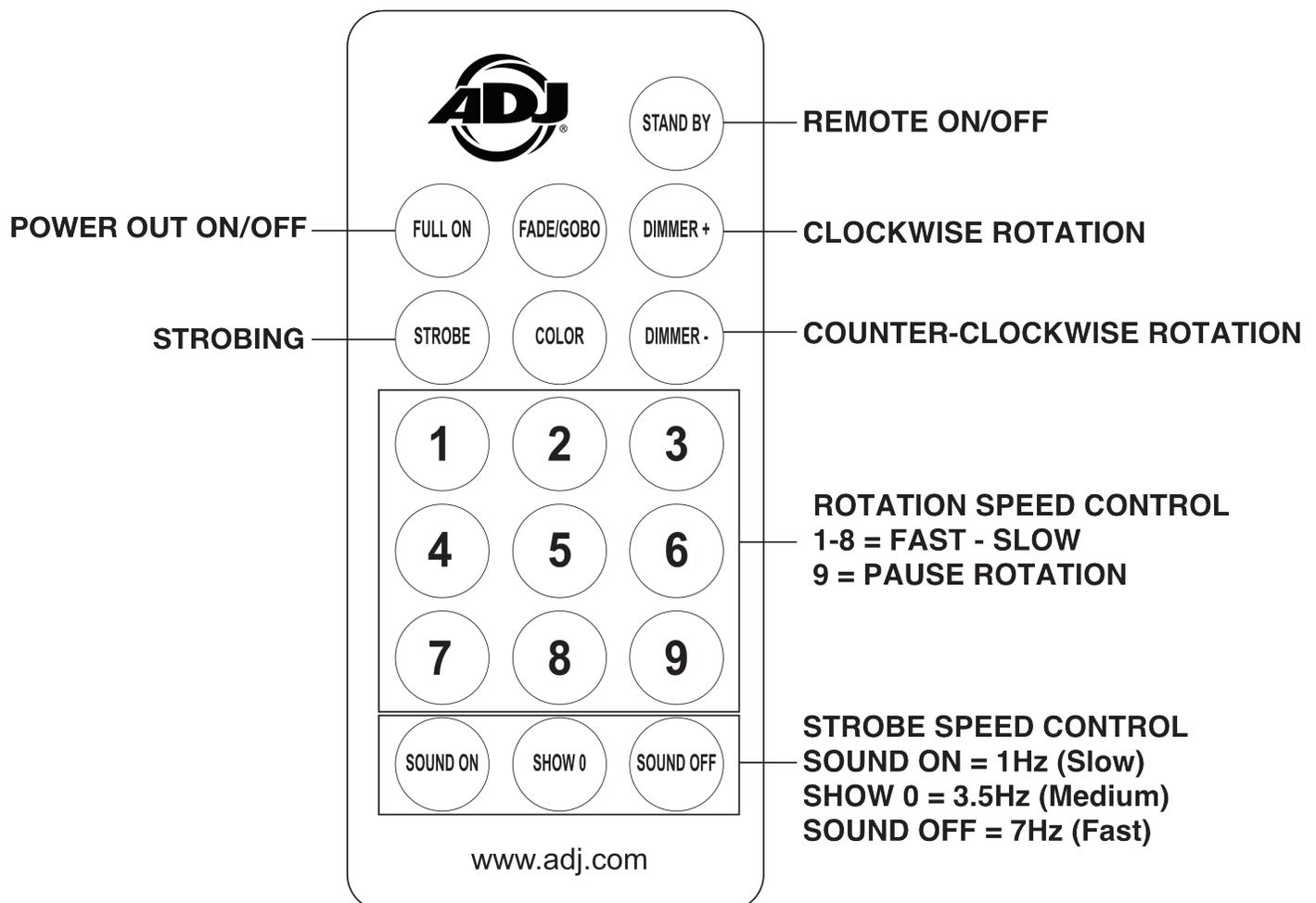
MOUNTING

The MB DMX II ships with a built-in rigging point, and two large holes in the base of the unit used as safety cable attachment points. The rigging point is located on the top of the unit. This rigging point is secured to the fixture by two large Phillips screws. When the rigging point is not used, as when the fixture is shipped from the manufacture, the rigging point is shipped inverted (inside the top of the unit). When the fixture is hung from a truss or or similar means, use the rigging point, and secure the fixture with safety cables. The MB DMX II is to mounted in bottom-up position to a ceiling, or may hang from the truss using a C-Clamp rated at 50 pounds or higher.

Rigging Point

Safety Cable
Attachment Point

Safety Cable
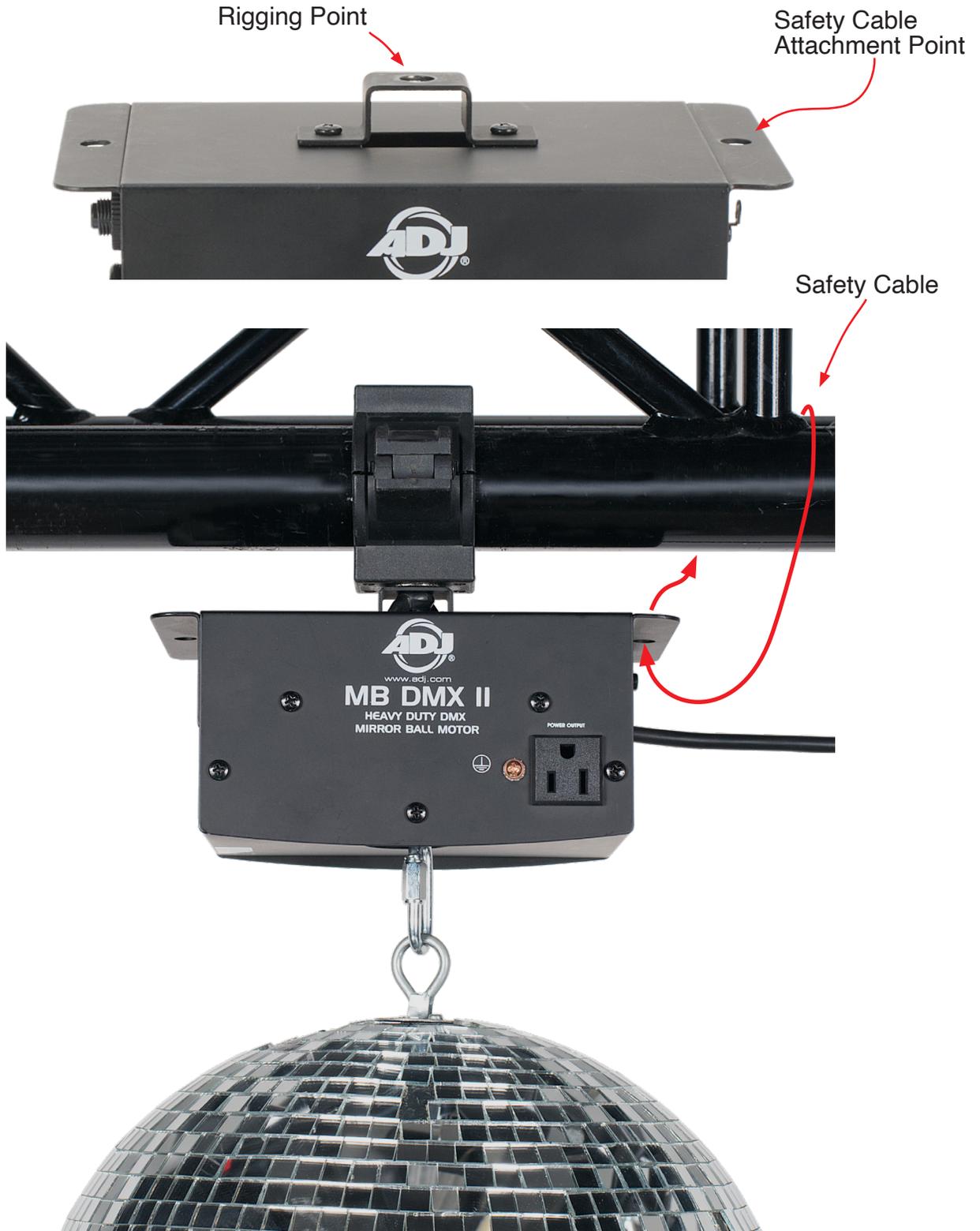
CIRCUIT BREAKER

This unit is equipped with a 3A Circuit Breaker, or GFI (Ground Fault Interrupt). This circuit breaker is designed to close the power circuit in the event of an internal short or power surge. This will reduce the risk of electrical shock or fire and protect the circuitry. To reset the breaker, push the button until you hear it "pop" back. If the breaker continues to pop, stop using the unit and contact our customer support team, the unit may need to be returned for service.

DMX TRAITS: CHANNEL FUNCTIONS AND VALUES

The chart below details the DMX traits in depth. The individual trait can only be accessed by using a universal DMX controller. Note: "Lamp" in channel 1 refers to the power socket located on the front of the motor (this socket is intended to be used with lamps that illuminate up the mirror ball).

MB-DMX II - DMX TRAITS	
CHANNEL 1	CHANNEL 2
LAMP 255 255 ⊢ Lamp On 128-255 128 ⊢ 127 ⊢ Lamp Off 00-127 00 ⊢ 00	255 255 ⊢ CCW Speed 5rpm-255 129 ⊢ CCW Speed 0.5rpm-129 128 ⊢ Stop 127 ⊢ CCW Speed 0.5rpm-127 00 ⊢ CCW Speed 5rpm-01 00 Stop
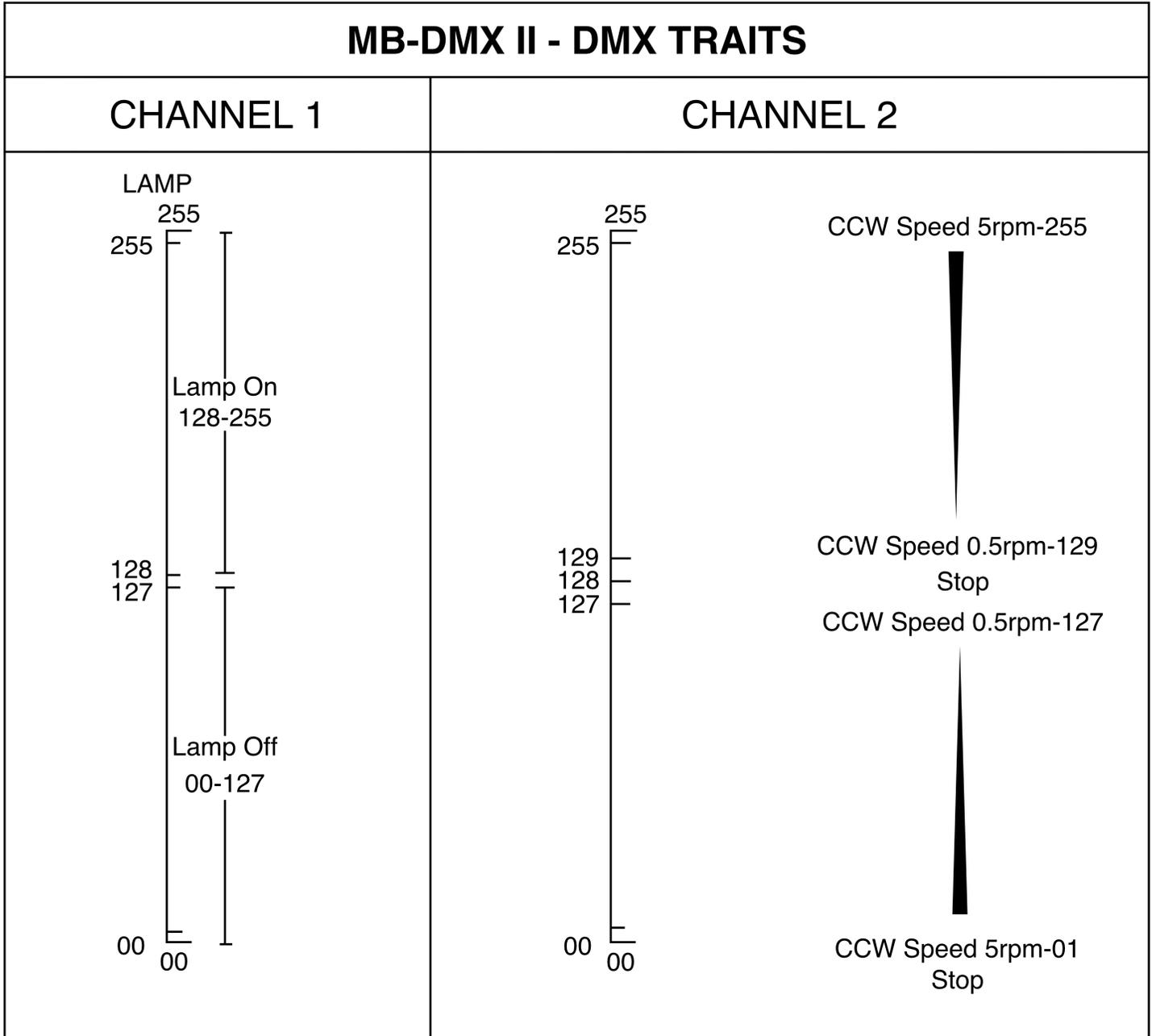
DIPSWITCH SETTINGS

The charts below details the Primary/Secondary setting for Primary/Secondary configuration. Use this configuration when you will be using two or more fixtures in a Primary/Secondary configuration. Note: The "Primary" settings should only be used once at the first motor, using the "Primary" setting more than once in the chain may result in erratic operation.

	DIP1	DIP2	DIP3	DIP4	DIP5	DIP6	DIP7	DIP8
SPEED (0.5)	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
SPEED (1 rpm)	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
SPEED (1.5 rpm)	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
SPEED (2 rpm)	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
SPEED (2.5 rpm)	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF
SPEED (3 rpm)	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF
SPEED (4 rpm)	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
SPEED (5 rpm)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON

- Dipswitch 9 Control Rotation Direction
    - ON = CW Rotation / OFF = CCW Rotation
- Dipswitch 10 Controls Primary/Secondary Operation:
    - ON = Primary / OFF = Secondary
    - **Note:** Dipswtich 10 must be in the off position for DMX operation
- The optional MINI=C may be used during Primary/Secondary operation to stop motor rotation and to blackout the electrical sockets.

DMX ADDRESS QUICK REFERENCE CHART

This chart lists DMX dip switch settings for DMX address 1 through 511. Follow the instructions below to configure fixture dip siwtches with the desired DMX Address.

DMX ADDRESS QUICK REFERENCE CHART

DIP SWITCHES

Dip Switch Position

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

Dip Switch Position (left side)

DMX Address (right side)

DMX Address (bottom)

The center numbers of this chart (1-511) represent a DMX address. The Xs and Os along the top and the side of the chart represent dip switch position ("X" for OFF and "O" for ON). Find the desired DMX address from the center chart. Identify the position for dip switches 1-5 from the chart on the left and dip switches 6-9 from the chart on the top. Adjust the dip swirtches on your fixture to match the position settings of the chart. For fixtures with 10 dip switches; dip switch 10 is reserved for special functions.

SPECIFICATIONS

- Heavy Duty DMX Mirror Ball Motor
- Includes two 3-prong Edison socket to power Pinspots
- 2 DMX Channels:
- Channel 1: Turns On/Off Pinspots
- Channel 2: Adjustable motor speed and direction control of mirror ball; For use with up to a 20-inch mirror ball
- Circuit breaker protection (no need to change fuses)
- XLR In/Out
- Primary/Secondary control: Up to 4 MB DMX units can be diasy-chained together for synchronized motor rotation and universal speed, resulting in dramatic visual effects.
- 1/4" socket for On/Off control with optional UC IR controller (sold separately)
- Power Draw: @ Max 5rpm 10.5W / .101 amps -@Min 0.5rpm 10.2W / .100amps
- Dimensions (LxWxH): 8" x 4.8" x 5.75" /203x122x146mm
- Weight: 4 lbs. / 2kgs.
- CE Approved   C E