LEDsplash™ 200B
LEDPAR200B

Snapshot

Use on Dimmer	🚫
Outdoor Use	🚫
Sound Activated	✓
DMX	✓
Master/Slave	✓
Auto-ranging Power Supply	✓
Replaceable Fuse	✓
User Serviceable	🚫
Duty Cycle	🚫

User Manual
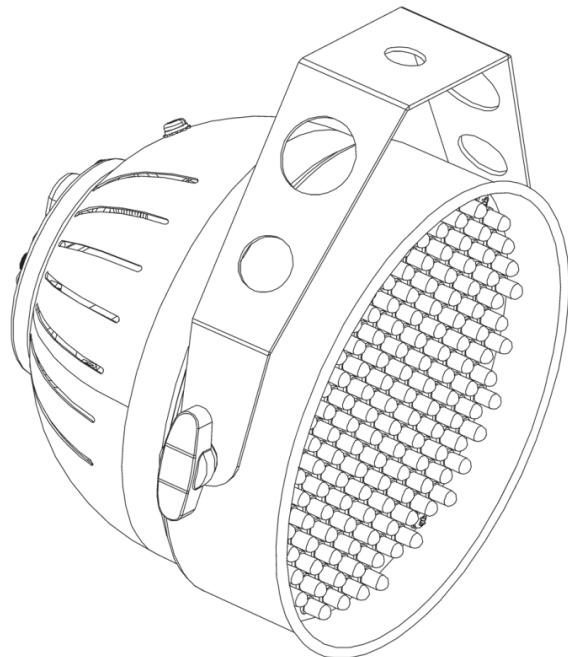
SATELLITE READY™

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TABLE OF CONTENT

1. BEFORE YOU BEGIN

What is included

- ➢ 1 x LED-PAR200B
- ➢ 1 x Warranty Card
- ➢ 1 x Users Manual

Unpacking Instructions

Immediately upon receiving a product, 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 product, see the label affixed to the back plate of the product or refer to the product's specifications chart. A product'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, check that the source voltage matches the product's requirement. Check the product 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.

Warning!   **All fixtures must be connected to circuits with a suitable Earth Ground.**

Safety Instructions

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

- 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 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 50 cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Secure fixture to fastening device using a safety chain.

- Maximum ambient temperature is Ta: 40° C. Do not operate fixture at temperatures higher than this.
- In the event of 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.
- Don't connect the device to a dimmer pack.
- Make sure power cord is never crimped or damaged.
- Never disconnect power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to lamp while it is on.
- Always disconnect from power source before servicing or replacing lamp or fuse and be sure to replace with same lamp source.

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®.**

2. INTRODUCTION

Features

- 6-channel DMX-512 LED wash light
- Blackout/static/dimmer/strobe
- Selector switch for sound active or automatic programs
- Static colors and RGB color mixing with or without DMX controller
- Built-in automated programs via master/slave or DMX
- Built-in sound activated programs via master/slave or DMX

Additional Features

- Compatible with CHAUVET® Satellite™ system

DMX Channel Values

1		2	3	4	5	6	DMX CHANNEL (COLUMNS)
RGB	000~029	Red 000~255	Green 000~255	Blue 000~255	000~020 No Strobe 021~255 Strobe		
Pulse	030~199 (Slow>Fast)	No Function			Strobe 000~255		
Color Macros	120~149	Color Macro 000~255			No Function	**Dimmer** 000~255 100%~0%	
RGB Chase	150~179		No Function	No Function	Chase Speed 000~255 (slow~fast)		
Color Change	180~209	No Function			Program Speed 000~255 (slow~fast)		
Color Change w/ fade	210~239						
Sound	240~255				No Function		

CONTROL MODES & OPTIONS (Rows)

For a detailed view of DMX values turn to the Appendix section in this manual. Control mode parameters are set by DMX values in Channel # 1.

Product Overview

Power Input
(Hardwired cable)

Power LED
Indicator

Microphone Sensitivity
Adjustment Knob

Bracket
Adjustment
Knob

DIP Switches

DMX Out

DMX In

Satellite™
connection

Safety
attachment
point

Fuseholder

DMX, Master/Slave
Signal LED Indicator

Standalone
Auto/Sound Selection
Switch

Bracket
Adjustment
Knob
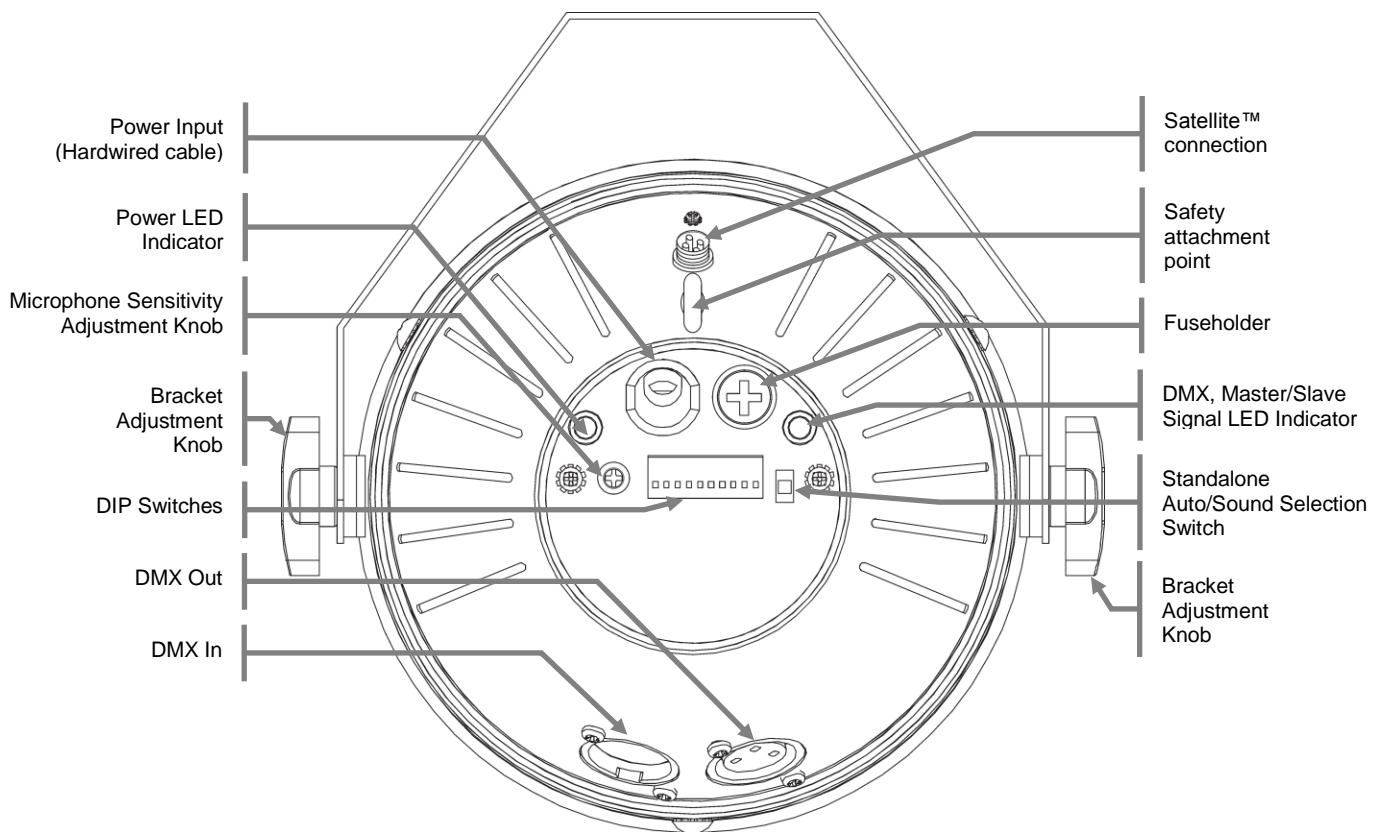
3. SETUP

Power

Warning!   ***All fixtures must be connected to circuits with a suitable Earth Ground.***

- 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.

Power Cable Configuration

CABLE	PIN	INTERNATIONAL
BLACK	Live	L
WHITE	Neutral	N
YELLOW/GREEN	Earth	EG (Ground)

Mounting

Orientation

This fixture can be mounted on a truss using a clamp in any position.

Hanging Clamp

Rigging

The fixture includes a mounting yoke to which 1 rigging clamp can be bolted.
The hole is 13 mm in diameter.

1. Align the clamp screw with the center hole on the yoke and tighten.

2. Verify the structure can hold 10 times the weight of all to-be installed fixtures.

3. Adjust the angle on the yoke arm as necessary.

4. OPERATING INSTRUCTIONS

The LEDsplash™ 200B is a DMX controllable, full RGB color mix par can made up of highly efficient and super bright LEDs. All red, green and blue LEDs can be controlled separately allowing the creation of an unlimited range of colors.

The LEDsplash™ 200B can operate in Stand-Alone, Master/Slave and via DMX-512 control utilizing six DMX channels.

Master/Slave Mode

This mode allows a single unit to run to the beat of the music, or the unit will auto change in Auto Mode.

1) Set dipswitches position to Sound Active or Auto Mode.

Mode	Dipswitches
Sound Active	1~10 = Off, switch set to Music
Auto Mode	1~10 = Off, switch set to Auto

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.

Daisy Chain Connection

1. Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the first fixture.

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

DIP Switch Options

FUNCTIONS	DIP SWITCHES (ON)	NOTES & DESCRIPTION
Color change program (Auto/Music)	None	Music/Auto switch Music: Sound-Activated, sound adjustment knob sets sensitivity Auto: sound adjustment know sets speed of program
Red LEDs	1	Low Intensity
	2	Medium Intensity
	3	Full Intensity
Green LEDs	4	Low Intensity
	5	Medium Intensity
	6	Full Intensity
Blue LEDs	7	Low Intensity
	8	Medium Intensity
	9	Full Intensity

DMX Control Mode

Operating in a DMX Control mode environment gives the user the greatest flexibility when it comes to customizing or creating a show. In this mode you will be able to control each individual trait of the fixture and each fixture independently. The LEDsplash™ 200B uses six channels of control.

1. A working DMX signal source plugged into the LEDsplash™ 200B activates the DMX mode.

Setting the DMX address

This DMX mode enables the use of a universal DMX controller device. Each fixture requires a "start address" from 1 to 511. 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 occupies or uses 6 channels of DMX 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 notate the start address selected for future reference.

If this is your first time addressing a fixture using the DMX-512 control protocol than I suggest jumping to the Appendix Section and read 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. Determining which switches to toggle ON given a specific start address can be accomplished in the following manner. By subtracting the largest switch value possible from the selected start address until zero is achieved.

EXAMPLE STARTING ADDRESS

Address 10

Pin # 4   = 8
Pin # 2   = 2
Total   = 10
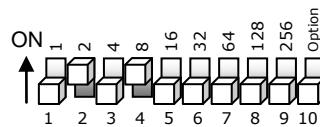
Address 24

Pin # 5   = 16
Pin # 4   = 8
Total   = 24
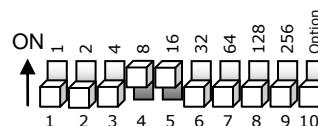
	DIP SWITCH	(DMX VALUE)
233 – (128) = 105, Turn ON DIP # 8		
105 – (64) = 41, Turn ON DIP # 7		
41 – (32) = 9, Turn ON DIP # 6	**1**	1
9 – (8) = 1, Turn ON DIP # 4	**2**	2
1 – (1) = 0, Turn ON DIP # 1	**3**	4
	4	8
Resolving address using simple math.	**5**	16
	6	32
You will most likely use the first available number which may be number 1. This number was selected for example purposes.	**7**	64
## Address 233	**8**	128
	9	256
	10	

5. APPENDIX

DMX Primer

There are 512 channels in a DMX 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+).

Fixture Linking

DMX connector configuration

1
3
2

Resistance 120 ohm ¼ W between pin 2 (DMX -) and pin 3 (DMX +) of the last fixture.

COMMON

DMX +

DMX -

INPUT

1
3
2

1
3
2

OUTPUT

Termination reduces signal errors and to avoid signal transmission problems and interference, it is always advisable to connect a DMX signal terminator.
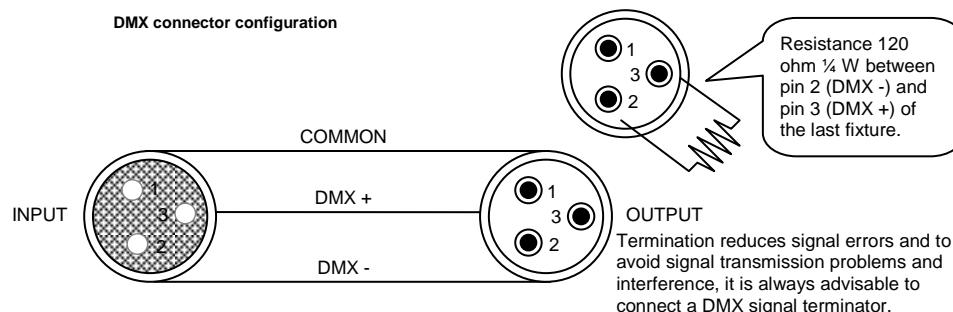
Note! **If you use a controller with a 5-pin DMX output connector, you will need to use a 5-pin to 3-pin adapter.**
The chart below details a proper cable conversion:

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
Not Used		Pin 4
Not Used		Pin 5

DMX Channel Values

NOTE! **Please read all instructions carefully on fixture DMX control mode and addressing.**

DMX channels 2, 3, 4, 5 and 6 functions are determined by the current settings of channel 1. For example, while Channel 1 is set between 000 and 029 the following conditions will apply;

- Channel 2 will control the Red LEDs
- Channel 3 will control the Green LEDs
- Channel 4 will control the Blue LEDs
- Channel 5 will control Strobing
- Channel 6 will control the Dimmer

CHANNEL	VALUE	FUNCTION	CH 2	CH 3	CH 4	CH 5	CH 6
1	000 ⇔ 029	**RGB Control Mode**	**Red** 000 ⇔ 255	**Green** 000 ⇔ 255	**Blue** 000 ⇔ 255	**Strobe** 000 ⇔ 020 No Strobe 021 ⇔ 255 Slow⇔Fast	**Dimmer** 000 ⇔ 255
	030 ⇔ 059 060 ⇔ 089 090 ⇔ 119	**Pulse Strobe** Pulse (0 <-> 100%) Pulse (100 <-> 0%) Pulse (100 <->0% <->100)	**No Function**			**Speed** 000 ⇔ 255	
	120 ⇔ 149	**Color Macro** Color Macros	See Table 1.1			**No Function**	
	150 ⇔ 179	**R,G,B Chase** RGB Chase pattern		**No Function**	**No Function**	**Speed** 000 ⇔ 255	
	180 ⇔ 209	**Automatic** Color change					
	210 ⇔ 239	**Automatic (Fade)** Color Change w fade	**No Function**				
	240 ⇔ 255	**Sound Activated** Music/Auto switch must be set to music				**No Function**	

Table 1.1

MODE	CH 2	DESCRIPTION
Color Macro **Ch 1** **120 ⇔ 149**	000 ⇔ 016	**Red**
	017 ⇔ 056	Red (Full) Green: (0% ~ 100%)
	057 ⇔ 094	Green (Full Red: (100% ~ 0%)
	095 ⇔ 096	**Green**
	097 ⇔ 136	Green (Full) Blue: (0% ~ 100%)
	137 ⇔ 174	Blue (Full) Green: (100% ~ 0%)
	175 ⇔ 176	**Blue**
	177 ⇔ 216	Blue (Full) Red: (0% ~ 100%)
	217 ⇔ 255	Blue (Full) Red (Full) Green: (0% ~ 100%)

Music/Auto Switch

Note! Regardless of DMX controller operated use, when the LED-PAR200B is set to run in Sound Activated mode, you should make sure that all units are properly switched to Music and that you have adjusted the rotary dial to optimize the sound level response of the unit.

SWITCH	ROTARY FUNCTION
AUTO	Adjusts speed of built in program
MUSIC	Adjusts sound sensitivity of built in microphone.

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 an 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.

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.

DMX Address Quick Reference Chart

DIP Switch Position

DMX DIP SWITCH SET					#9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
0=OFF					#8	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
1=ON					#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

Technical Specifications

WEIGHT & DIMENSIONS
Length.. 132 mm (5.2 in)
Width.. 249 mm (9.8 in)
Height .... 236 mm (9.3 in)
Weight... 2.1 kg (4.7 lbs)

POWER
Auto-ranging Power Supply...100~240 VAC, 50/60 Hz
Power Consumption @ 120 VAC, 60 Hz ....20 W (0.3 A) max, 0.2 A inrush
Power Consumption @ 230 VAC, 50 Hz ....21 W (0.1 A) max, 0.2 A inrush
Fuse.. F 1.6 A, 250 V

LIGHT SOURCE
LED.. 199 Total (Red 67, Green 66, Blue 66) 100,000 hrs

PHOTO OPTIC
Beam Angle .... 28°
Field Angle.. 49°
Luminance @ 1 m .... 930 lux

FUSE
Main.. 20 mm, Glass 1.6 A, Fast Blow

SATELLITE OPERATION
Run time @ 100% output (full RGB)...4 hrs
Maximum Run Time (auto program or single color) .... Up to 8 hrs
Connection... 4-pin DIN connector

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 6

ORDERING INFORMATION
LEDsplash™ 200B.. LEDPAR200B

WARRANTY INFORMATION
Warranty .... 2-year limited warranty

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