

DMX Interface

user manual



Introduction	3
Package contents	3
AC Power Connection	4
To install a plug on the mains lead.	4
Data Connection	5
Recommended cable	5
Connections	5
To connect the DMX Interface to the DMX link	6
To connect Martin fixtures to the DMX Interface	6
DIP-switch Settings	7
DMX Interface settings	7
To set the 10-position DIP-switch	7
To set the 6-position DIP-switch	9
Fixture settings	10
To set the fixture address.	10
Operation	11
Status LEDs	11
DMX Protocols	12

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INTRODUCTION

The Martin DMX Interface converts DMX data into Martin data to allow you to control an older, Martin-protocol-only fixture with a DMX controller. The DMX Interface supports the following Martin products:

Fixture Type	Fixtures per Interface
RoboColor MSD	8
RoboColor	8
RoboColor II	8
RoboScan 804/805	8
RoboScan 1004/1005	8
RoboScan 1016	8
RoboScan 1020	4
RoboScan Pro 218	8
RoboScan Pro 1220	4
RoboScan Pro 1220 II	4
RoboScan Pro 1220 IIR	4
RoboZap	8
RoboZap MSR 1200	8
Centrepiece	8

Table 1: Supported fixtures

Note!

A separate DMX Interface is required for each type of fixture.

The DMX Interface operates only one type of fixture at a time. It can operate multiple fixtures of the same type. The table above shows the maximum number of each fixture type that can be operated with a single DMX Interface.

PACKAGE CONTENTS

Please make sure that you received the following with your DMX Interface:

- 1 X Martin Professional DMX Interface
- 1 X Terminator Plug

AC POWER CONNECTION

2

Warning! *For safe operation, the DMX Interface must be grounded (earthed).*

Important! *Check voltage setting before applying power.*

Before use verify that the fixture's voltage switch is set correctly for the local AC voltage. The switch can be set for 115 or 230 V: use the setting that is closest to the local supply voltage.

Do not connect the DMX Interface to an electrical dimmer system: doing so can damage the electronics.

To install a plug on the mains lead

The fixture's mains lead must be fitted with a grounding-type cord cap that fits your power distribution cable or outlet. Consult a qualified electrician if you have any doubts about proper installation.

- Following the cord cap manufacturer's instructions, connect the yellow and green wire to ground (earth), the brown wire to live, and the blue wire to neutral. The table below shows some pin identification schemes.

Wire	Pin	Marking	Screw color
brown	live	"L"	yellow or brass
blue	neutral	"N"	silver
yellow/green	ground	\perp	green

Table 2: Plug markings

DATA CONNECTION

This section describes how to place the DMX Interface in the data link between the DMX controller and the Martin fixtures.

RECOMMENDED CABLE

Reliable data communication begins with the right cable. Standard microphone cable cannot transmit DMX data reliably over long runs. For best results, use cable specifically designed for RS-485 applications. Your Martin dealer can supply high quality cable in various lengths.

CONNECTIONS

The DMX IN and DMX OUT sockets are wired for DMX data with pin 1 to ground, pin 2 to signal - (cold), and pin 3 to signal + (hot). This is the standard pin assignment for DMX devices.

One or more adaptor cables may be required to connect the DMX Interface because many devices have 5-pin connectors and others may have reversed signal polarity, that is, pin 2 hot and pin 3 cold.

5-pin to 3-pin Adaptor	3-pin to 5-pin Adaptor	3-pin to 3-pin Phase-Reversing Adaptor
Male Female	Male Female	Male Female
1 ——— 1 2 ——— 2 3 ——— 3 4 5	1 ——— 1 2 ——— 2 3 ——— 3 4 5	1 ——— 1 2 ——— 2 3 ——— 3
P/N 11820005	P/N 11820004	P/N 11820006

To connect the DMX Interface to the DMX link

Up to 32 devices may be connected to the DMX link. The DMX Interface and all fixtures connected to the Martin link count as just 1 device.

- 1 **Connect the data cable coming from the controller output to the DMX IN socket on the DMX Interface. If you are using 5-pin XLR connectors, you will need to insert a 5-pin male to 3-pin female adaptor cable such as P/N 11820005.**
- 2 **If connecting additional DMX fixtures to the DMX link after the DMX Interface, connect DMX OUT on the DMX Interface to the input of the next device. If the device has a 5-pin XLR input, insert a 3-pin to 5-pin adaptor cable such as P/N 11820004. If the device has reversed polarity (pin-3 cold), use a phase-reversing adaptor such as P/N 11820006.**
- 3 **Terminate the DMX link. If the DMX Interface is the last device on the link, simply set pin-9 of the DMX-Link DIP-switch to the ON position (down). Otherwise, insert a male termination plug (P/N 91613017) into the DMX output of the last fixture on the DMX link. A termination plug is simply an XLR connector with a 120 ohm, 0.25 W resistor soldered across pins 2 and 3.**

Male Termination Plug
Male XLR
1
2
3 120
P/N 91613017

To connect Martin fixtures to the DMX Interface

All fixtures connected to the DMX Interface must be of the same type.

- 1 **Connect a data cable to the Martin Link output socket on the front panel of the DMX Interface and the data input of the first Martin fixture. Use a 3-pin XLR cable wired with pin 1 to pin 1, pin 2 to pin 2, and pin 3 to pin 3.**
- 2 **Connect the output of the Martin fixture closest to the DMX Interface to the input of the next Martin fixture. You can connect up to 4 or 8 identical fixtures depending on type. See Table 1 on page 3 for the number that can be connected.**
- 3 **Terminate the Martin link by inserting a male termination plug (P/N 91613017) into the data output of the last fixture on the Martin link.**

DIP-SWITCH SETTINGS

DMX INTERFACE SETTINGS

The DMX Interface has 2 DIP-switches. The 10-pin “DMX-LINK” DIP-switch is for selecting the **DMX address** (pins 1-8), **link termination** (pin 9), and **DMX mode** (pin 10). The 6-pin “PRODUCT SELECT” DIP-switch is for selecting the **type of product** connected to the interface.

See the fixture DMX protocols, starting on page 12, for specific mode and channel information.

Note: All fixtures may be operated in “reduced DMX” mode, which is selected with pin 10 OFF. RoboColors and RoboScan 1220s also provide a “full DMX” mode that provides speed control and is selected with pin 10 ON.

To set the 10-position DIP-switch

Important! *The interface must be set to an odd-numbered DMX channel.*

- 1 The DMX Interface cannot be set to even-numbered DMX addresses. Assign an odd DMX address to the first fixture operated through the interface.
- 2 Find the DMX address for the first fixture in the Table 3. Read the settings for pins 1 - 4 to the left and read the settings for pins 5 - 8 above the address. “0” means OFF and “1” means ON. Flip pins 1 - 8 ON (down) or OFF (up) to set the address.
- 3 Pin 9 toggles link termination on / off. Set it to ON only if the DMX Interface is the last device connected to the controller. Set pin 9 to OFF if there are any devices connected to the DMX-OUT socket.
- 4 Pin 10 sets the DMX mode. To select reduced DMX mode, which works with all products, set pin 10 to OFF. For full DMX mode, which is available with RoboColors and RoboScan 1220s, set it to ON,

DIP-Switch Setting				#8	0	0	0	0	0	0	0	1	1	1	1	1	1		
				#7	0	0	0	0	1	1	1	0	0	0	1	1	1		
				#6	0	0	1	1	0	0	1	1	0	0	1	1	0	1	
				#5	0	1	0	1	0	1	0	1	0	1	0	1	0	1	
#1	#2	#3	#4	1	33	65	97	129	161	193	225	257	289	321	353	385	417	449	481
0	0	0	0	3	35	67	99	131	163	195	227	259	291	323	355	387	419	451	483
0	1	0	0	5	37	69	101	133	165	197	229	261	293	325	357	389	421	453	485
1	1	0	0	7	39	71	103	135	167	199	231	263	295	327	359	391	423	455	487
0	0	1	0	9	41	73	105	137	169	201	233	265	297	329	361	393	425	457	489
1	0	1	0	11	43	75	107	139	171	203	235	267	299	331	363	395	427	459	491
0	1	1	0	13	45	77	109	141	173	205	237	269	301	333	365	397	429	461	493
1	1	1	0	15	47	79	111	143	175	207	239	271	303	335	367	399	431	463	495
0	0	0	1	17	49	81	113	145	177	209	241	273	305	337	369	401	433	465	497
1	0	0	1	19	51	83	115	147	179	211	243	275	307	339	371	403	435	467	499
0	1	0	1	21	53	85	117	149	181	213	245	277	309	341	373	405	437	469	501
1	1	0	1	23	55	87	119	151	183	215	247	279	311	343	375	407	439	471	503
0	0	1	1	25	57	89	121	153	185	217	249	281	313	345	377	409	441	473	505
1	0	1	1	27	59	91	123	155	187	219	251	283	315	347	379	411	443	475	507
0	1	1	1	29	61	93	125	157	189	221	253	285	317	349	381	413	445	477	509
1	1	1	1	31	63	95	127	159	191	223	255	287	319	351	383	415	447	479	511

Table 3: DMX address settings

To set the 6-position DIP-switch

The 6-position DIP-switch selects the fixture as shown in Table 4.

Product	Product Select	DIP-switch setting
RoboColor MSD 200	1	
RoboColor (1st version)	2	
RoboColor II	3	
RoboScan 804/805	5	
RoboScan 1004/1005	6	
RoboScan 1016	7	
RoboScan 1020	10	
RoboScan Pro 218	11	
RoboScan Pro 1220	12	
RoboScan Pro 1220 II	13	
RoboScan Pro 1220 IIR	14	
RoboZap	15	
RoboZap MSR 1200	16	
Centrepiece	17	

Table 4: Product select settings

Fixture Settings

Each fixture operated through the DMX Interface must be set to a Martin address from 1 to 8. RoboScan 1020s and Pro 1220s, which use 2 Martin channels, can be set to Martin address 1, 3, 5, or 7.

Important! *The first fixture connected to the DMX Interface is always set to channel 1.*

To set the fixture address

1 Set the DIP-switch on the first fixture to channel 1.

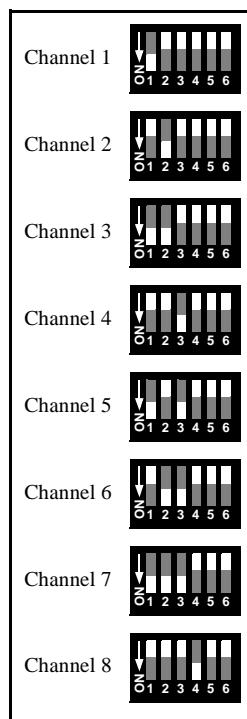
The first fixture is controlled starting from the DMX channel set on the interface. For example, if operating a RoboColor II in full mode (6 DMX channels), and the DMX Interface is set to DMX channel 1, then the fixture is controlled by DMX channels 1-6.

2 For independent control, set the DIP-switch on the next fixture to the next channel (ch. 2, ch. 3 if the fixture uses 2 Martin channels).

Additional fixtures are controlled by consecutive DMX channels. Continuing the previous example, a second RoboColor II would use DMX channels 7 - 12.

3 If identical control is desired, set the DIP-switch on additional fixtures to channel 1.

These fixtures are controlled by the same DMX channels as the first fixture.



OPERATION

Once you have connected the devices and set all the DIP-switches you are ready to operate the Martin fixtures with your DMX controller. The protocols at the back of this manual describe how each fixture responds to DMX commands.

STATUS LEDS

The LEDs on the front panel indicate the system's status. When you first apply power to the DMX Interface, the green LED blinks approximately once per second to show that it is sending a default signal and waiting for DMX data from the controller. Both LEDs blink rapidly when data is received.

If the DMX signal fails the red LED lights for approximately two seconds and then goes out. The green LED flashes as on power up, indicating that a default reset signal is being sent to all units.

DMX PROTOCOLS

6

The following section includes the DMX protocol for every Martin product supported by the DMX Interface. The protocols list the ways the fixtures respond to DMX commands sent from the controller.

RoboColor MSD 200	p. 13
RoboColor	p. 14
RoboColor II	p. 15
RoboScan 804/805	p. 16
RoboScan 1004/1005	p. 17
RoboScan 1016	p. 18
RoboScan 1020	p. 19
RoboScan Pro 218	p. 21
RoboScan 1220	p. 23
RoboScan 1220 II	p. 23
RoboScan 1220 IIR	p. 25
RoboZap	p. 28
RoboZap MSR 1200	p. 29
Centrepiece	p. 30

ROBOCOLOR MSD 200

DMX channels, reduced mode	DMX channels, full mode	Martin channels	Product select
4	7	1	1
Channel	Value	Effect	
1	0 - 5 6 - 120 121 - 252 253 - 255	Shutter / Reset Unit Shutter Closed (Light off) Shutter Open (Light on) Strobe on (Fast -> Slow) Reset Unit	
2	0 - 10 11 - 168 169 - 255	Dimmer Dimmer full ON (no light) Dimmer (ON -> Off) Dimmer full OFF (Light)	
3	0 - 4 55 - 59 110 - 114 165 - 169 220 - 255	Color 1 White Red Blue Green Yellow	
4	0 - 4 55 - 59 110 - 114 165 - 169 220 - 255	Color 2 White Orange Pink Mauve Cyan	
5 (F)	0 - 255	Color 1 Speed Speed (fast -> slow)	
6 (F)	0 - 255	Color 2 Speed Speed (fast -> slow)	
7 (F)	0 - 255	Dimmer Speed Speed (fast -> slow)	

(F) Full DMX mode only

ROBOCOLOR

DMX channels, reduced mode	DMX channels, full mode	Martin channels	Product select
5	6	1	2
Channel		Values	Effect
1		0 - 5 6 - 120 121 - 252 253 - 255	Shutter / Reset Unit Shutter Closed (Light off) Shutter Open (Light on) Strobe on (Fast -> Slow) Reset Unit
2-5		0 - 2 45 - 47 90 - 92 135 - 137 180 - 182 225 - 255	Color (Head 1-4) White Red Blue Green Yellow Blackout
6 (F)		0 - 255	Color Speed (All heads) (Speed fast -> slow)

(F) Full DMX mode only

Note: When using the strobe the color function will be suspended. The colors will reappear when strobe is deselected.

ROBOCOLOR II

DMX channels, reduced mode	DMX channels, full mode	Martin channels	Product select
5	6	1	3
Channel	Values	Effect	
1	0 - 5	Shutter / Reset Unit	
	6 - 40	Lamp off	
	41 - 80	Lamp on	
	81 - 120	Stand-alone, music trigger	
	121 - 252	Stand-alone, auto trigger	
	253 - 255	Strobe on (Fast -> Slow) Reset Unit	
2-5	0 - 9	Color (Head 1-4)	
	10 - 19	Black	
	20 - 29	Black / White	
	30 - 39	White	
	40 - 49	White / Magenta	
	50 - 59	Magenta	
	60 - 69	Magenta / Pink	
	70 - 79	Pink	
	80 - 89	Pink / Red	
	90 - 99	Red	
	100 - 109	Red / Orange	
	110 - 119	Orange	
	120 - 129	Orange / Dark Yellow	
	130 - 139	Dark Yellow	
	140 - 149	Dark Yellow / Yellow	
	150 - 159	Yellow	
	160 - 169	Yellow / Light Green	
	170 - 179	Light Green	
	180 - 189	Light Green / Green	
	190 - 199	Green	
	200 - 209	Green / Cyan	
	210 - 219	Cyan	
	220 - 229	Cyan / Light Blue	
	230 - 239	Light Blue	
	240 - 255	Light Blue / Dark Blue	
6 (F)	0 - 255	Dark Blue Color Speed (All heads) (Speed fast -> slow)	

(F) Full DMX mode only

Note: The fixture strobes between the current color and the one before it. To strobe with white, set all heads to white. Color positioning while strobing is disabled in full DMX mode.

ROBOSCAN 804/805

DMX channels, reduced mode	DMX channels, full mode	Martin channels	Product select
5	N/A	1	5
Channel	Values	Effect	
1	0 - 5 6 - 252 253 - 255	Power / Reset Unit Power Off Power On Reset Unit	
2	0 - 50 51 - 100 101 - 150 151 - 200 201 - 255	Color White Red Blue Green Yellow	
3	0 - 63 64 - 127 128 - 191 192 - 255	Gobo (805 only) Open Holes Star Circle	
4	0 - 30 31 - 223 224 - 255	Pan Max Left Left --> Right (127 Neutral) Max Right	
5	0 - 12 13 - 241 242 - 255	Tilt Max Up Up --> Down (127 Neutral) Max Down	

ROBOSCAN 1004/1005

DMX channels, reduced mode	DMX channels, full mode	Martin channels	Product select
5	N/A	1	6
Channel	Values	Effect	
1	0 - 5 6 - 120 121 - 252 253 - 255	Shutter / Reset Unit Shutter Closed (Light off) Shutter open (Light on) Strobe on (Fast -> Slow) Reset Unit	
2	0 - 18 19 - 72 73 74 - 127 128 129 - 182 183 184 - 237 238 - 255	Color White White --> Red Red Red --> Blue Blue Blue --> Green Green Green --> Yellow Yellow	
3	0 - 12 13 - 88 89 90 - 165 166 167 - 242 243 - 255	Gobo Open Open --> Holes Holes Holes --> Star Star Star --> Cone Cone	
4	0 - 30 31 - 223 224 - 255	Pan Max Left Left -> Right (127 = Neutral) Max Right	
5	0 - 12 13 - 241 242 - 255	Tilt Max Up Up--> Down (127 = Neutral) Max Down	

ROBOSCAN 1016

DMX channels, reduced mode	DMX channels, full mode	Martin channels	Product select
5	N/A	1	7
Channel	Values	Effect	
1	0 - 5 6 - 120 121 - 252 253 - 255	Shutter / Reset Unit Shutter closed (Light off) Shutter open (Light on) Strobe on (Fast > Slow) Reset unit	
2	0 - 38 50 62 74 86 98 110 122 134 146 158 170 182 194 206 218 - 255	Color White Flame Red Light Blue Fern Green Yellow Primary Green Mauve Medium Blue Cyan Primary Red Orange Light Green Amber Pink Dark Lavender Deep Orange	
3	0 - 38 50 62 74 86 98 110 122 134 146 158 170 182 194 206 218 - 255	Gobo Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Gobo 8 Gobo 9 Gobo 10 Gobo 11 Gobo 12 Gobo 13 Gobo 14 Gobo 15 Gobo 16	
4	0 - 30 31 - 223 224 - 255	Pan Max Left Left --> Right (127 = Neutral) Max Right	
5	0 - 12 13 - 241 242 - 255	Tilt Max Up Up --> Down (127 = Neutral) Max Down	

ROBOSCAN 1020

DMX channels, reduced mode	DMX channels, full mode	Martin channels	Product select
12	N/A	2	10
Channel	Values	Effect	
1	0 - 5 6 - 120 121 - 252 253 - 255	Shutter / Reset Unit Shutter closed (Light off) Shutter open (Light on) Strobe on (Fast -> Slow) Reset unit	
2	0 - 10 11 - 220 221 - 255	Dimmer Dimmer full on (No Light) Dimmer (On -> Off) Dimmer full off (Light)	
3	0 - 37 57 77 97 117 137 157 177 197 217 - 255	Color 1 White R61 B51 G51/56 Y52 G50/55 M47/63 B42 C54 R65	
4	0 - 37 57 77 97 117 137 157 177 197 217 - 255	Color 2 White O56 G49/59 Y54 Y52 P47/58 M47/63 M49/65 C54 T48/53	
5	0 - 37 57 77 97 117 137 157 177 197 217 - 255	Gobo 1 Open Stars Star Dots Cone Pling Dot-Circle Bells Flower Turbine	

6	0 - 37 57 77 97 117 137 157 177 197 217 - 255	Gobo 2 Open Logo Triangle Sun Holes Raster Bars Turbine Flash Star
7	0 -10 11 - 239 240 - 255	Focus Default Min. --> Max (140 = Default) Default
8	0 -48 49 -205 206 -255	Iris Default Full open -> Full Close Full Close
9	0 - 10 43 76 109 142 175 - 255	Prism Open 3 Facet Open 5 Facet Open 9 Facet
10	0 - 255	Pan Left --> Right (127 = Neutral)
11	0 - 255	Tilt Up --> Down (127 = Neutral)
12	0 - 255	Movement Speed (Speed fast -> slow)

ROBOSCAN PRO 218

DMX channels, reduced mode	DMX channels, full mode	Martin channels	Product select
7	N/A	1	11
Channel	Values	Effect	
1	0 - 5 6 - 120 121 - 252 253 - 255	Shutter / Reset Unit Shutter Closed (Light off) Shutter Open (Light on) Strobe on (Fast -> Slow) Reset Unit	
2	0 - 10 11 - 168 169 - 255	Dimmer Dimmer full ON (no light) Dimmer (ON -> Off) Dimmer full OFF (Light)	
3	0 - 34 45 56 67 78 89 100 111 122 133 144 155 166 177 188 199 210 221 - 255	Color White R61 B51 G51/56 Y52 G50/55 M47/63 B46 C54 R65 O56 G49/59 Y54 P47/58 M49/65 O59 MultiColor 1 MultiColor 2	
4	0 - 34 45 56 67 78 89 100 111 122 133 144 155 166 177 188 199 210 221 - 255	Gobo Open Half Dot Vertical Bar Horizontal Bar Arrow Fat Cone Triangle Star Dots Bells Cone Flash Raster Dot Circle Bars Window Turbine	
5	0 - 255	Pan Left --> Right (127 = Neutral)	

6	0 - 255	Tilt Up -- > Down (127 = Neutral)
7	0 - 255	Movement Speed Speed (fast -> slow)

ROBOSCAN 1220

DMX channels, reduced mode	DMX channels, full mode	Martin channels	Product select
12	15	2	12

Note: The original 1220 has a separate shutter and dimmer. The 1220 II has a combined shutter and dimmer. Neither the 1220 nor the 1220 II has rotating gobos.

ROBOSCAN 1220 II

DMX channels, reduced mode	DMX channels, full mode	Martin channels	Product select
12	15	2	13

Channel	Values	Effect
1	0 - 5 6 - 115 116 - 247 248 - 251 252 - 255	Shutter / Reset Unit / Power Shutter Closed (Light off) Shutter open (Light on) Strobe on (Fast --> Slow) Reset Unit Lamp On (Power on)
2	0 - 10 11 - 220 221 - 255	Dimmer Dimmer full on (No Light) Dimmer (On -> Off) Dimmer Full Off (Light)
3	0 - 37 57 77 97 117 137 157 177 197 217 - 255	Color 1 White R61 B51 G51/56 Y52 G50/55 M47/63 B42 C54 R65
4	0 - 37 57 77 97 117 137 157 177 197 217 - 255	Color 2 White O56 G49/59 Y54 Y52 P47/58 M47/63 M49/65 C54 T48/53

		Gobo 1 Open Stars Star Dots Cone Pling Dot-Circle Bells Flower Turbine
5	0 - 37 57 77 97 117 137 157 177 197 217 - 255	Gobo 2 Open Logo Triangle Sun Holes Raster Bars Turbine Flash Star
6	0 - 37 57 77 97 117 137 157 177 197 217 - 255	Focus Default Min. --> Max (140 = Default) Default
7	0 -10 11 - 239 240 - 255	Iris Default Full open --> Full Close Full Close
8	0 -48 49 -205 206 -255	Prism Open 3 Facet Open 5 Facet Open 9 Facet
9	0 - 10 43 76 109 142 175 - 255	Pan Left --> Right (127 = Neutral)
10	0 - 255	Tilt Up --> Down (127 = Neutral)
11	0 - 255	Pan/Tilt Speed (Speed fast -> slow)
12	0 - 255	Color Speed (Speed fast -> slow)
13 (F)	0 - 255	Gobo Speed (Speed fast -> slow)
14 (F)	0 - 255	Focus/Iris/Dimmer Speed (Speed fast -> slow)
15 (F)	0 - 255	

(F) Full DMX mode only

ROBOSCAN 1220 IIR

DMX channels, reduced mode	DMX channels, full mode	Martin channels	Product select
12	16	2	14
Note: The 1220 IIR has a combined shutter and dimmer and rotating gobos.			
Channel	Values	Effect	
1	0 - 5 6 - 115 116 - 247 248 - 251 252 - 255	Shutter / Reset Unit / Power Shutter Closed (Light off) Shutter open (Light on) Strobe on (Fast --> Slow) Reset Unit Lamp On (Power on)	
2	0 - 10 11 - 220 221 - 255	Dimmer Dimmer full on (No Light) Dimmer (On -> Off) Dimmer Full Off (Light)	
3	0 - 37 57 77 97 117 137 157 177 197 217 - 255	Color 1 White R61 B51 G51/56 Y52 G50/55 M47/63 B42 C54 R65	
4	0 - 37 57 77 97 117 137 157 177 197 217 - 255	Color 2 White O56 G49/59 Y54 Y52 P47/58 M47/63 M49/65 C54 T48/53	
5	0 - 37 57 77 97 117 137 157 177 197 217 - 255	Gobo 1 Open Stars Star Dots Cone Pling Dot-Circle Bells Flower Turbine	

		Rotating Gobo Selection and Rotation: Reduced mode only
6 (Reduced mode only)	0 - 15 16 - 44 45 - 46 47 - 75 76 - 104 105 - 106 107 - 135 136 - 164 165 - 166 167 - 195 196 - 224 225 - 226 227 - 255	Open Gobo - No Rotation Gobo 1 - CW Rotation Fast --> Slow Gobo 1 Stop Gobo 1 - CCW Rotation Slow --> Fast Gobo 2 - CW Rotation Fast --> Slow Gobo 2 Stop Gobo 2 - CCW Rotation Slow --> Fast Gobo 3 - CW Rotation Fast --> Slow Gobo 3 Stop Gobo 3 - CCW Rotation Slow --> Fast Gobo 4 - CW Rotation Fast --> Slow Gobo 4 Stop Gobo 4 - CCW Rotation Slow --> Fast
6 (F)	0 - 3 4 - 7 8 - 11 12 - 15 16 - 19 20 - 48 49 50 - 78 79 - 107 108 109 - 137 138 - 166 167 168 - 196 197 - 225 226 227 - 255	Rotating Gobo Selection, Index and Rotation: Full mode only Open Gobo - No Rotation Gobo 1 - indexed (set index on ch. 16) Gobo 2 - indexed (set index on ch. 16) Gobo 3 - indexed (set index on ch. 16) Gobo 4 - indexed (set index on ch. 16) Gobo 1 - CW Rotation Fast -> Slow Gobo 1 Stop Gobo 1 - CCW Rotation Slow -> Fast Gobo 2 - CW Rotation Fast -> Slow Gobo 2 Stop Gobo 2 - CCW Rotation Slow -> Fast Gobo 3 - CW Rotation Fast -> Slow Gobo 3 Stop Gobo 3 - CCW Rotation Slow -> Fast Gobo 4 - CW Rotation Fast -> Slow Gobo 4 Stop Gobo 4 - CCW Rotation Slow -> Fast
7	0 -10 11 - 239 240 - 255	Focus Default Min. --> Max (140 = Default) Default
8	0 -48 49 -205 206 -255	Iris Default Full open --> Full Close Full Close
9	0 - 10 43 76 109 142 175 - 255	Prism Open 3 Facet Open 5 Facet Open 9 Facet
10	0 - 255	Pan Left --> Right (127 = Neutral)

11	0 - 255	Tilt Up --> Down (127 = Neutral)
12	0 - 255	Pan/Tilt Speed (Speed fast -> slow)
13 (F)	0 - 255	Color Speed (Speed fast -> slow)
14 (F)	0 - 255	Gobo Speed (Speed fast -> slow)
15 (F)	0 - 255	Focus/Iris/Dimmer Speed (Speed fast -> slow)
16 (F)	0 - 119 120 121 - 239	Rotating Gobo Orientation - 216° --> Default Index Default Index Default Index --> 214.2 degrees Gobos are reindexed whenever a new gobo is selected or the current gobo has been rotating continuously.

(F) Full DMX mode only

ROBOZAP

DMX channels, reduced mode	DMX channels, full mode	Martin channels	Product select
4	N/A	1	15
Channel	Values	Effect	
1	0 - 5 6 - 120 121 - 252 253 - 255	Shutter / Reset Unit Shutter Closed (Light off) Shutter Open (Light on) Strobe on (Fast -> Slow) Reset Unit	
2	0 - 2 48 - 50 96 - 98 144 - 146 192 - 194 240 - 255	Color Right White Red Blue Green Yellow Blackout	
3	0 - 2 48 - 50 96 - 98 144 - 146 192 - 194 240 - 255	Color Left White Red Blue Green Yellow Blackout	
4	0 - 123 124 - 131 132 - 255	Rotation Rotate Right (Slow -> Fast) Stop Rotate Left (Slow -> Fast)	

Note: When using the strobe the color function will be suspended. The colors will reappear when strobe is deselected.

ROBOZAP MSR 1200

DMX channels, reduced mode	DMX channels, full mode	Martin channels	Product select
6	N/A	1	16
Channel	Values	Effect	
1	121 - 252 253 - 255	Shutter / Reset Unit Strobe on (Fast -> Slow) Reset Unit	
2&3	0 - 37 57 77 97 117 137 157 197 217 237 - 255	Color Right & Left Primary Red White Flame Red Light Blue Fern Green Yellow Primary Green Mauve Dark Blue Cyan	
4&5	0 - 37 57 77 97 117 137 157 197 217 237 - 255	Gobo Right & Left Black Out Open Stars Star Dots Cone Pling Dot-Circles Bells Flower	
6	0 - 123 124 - 131 132 - 255	Rotation Rotate Right (Fast -> Slow) Stop Rotate Left (Slow -> Fast)	

As the Zap MSR uses it's gobo wheels to perform blackout there is no light on function on this channel. You must use channels 4 and 5 to move the gobos from their blackout positions.

Also please note when using the strobe function the gobo function will be suspended. The gobos will reappear when strobe is deselected.

CENTREPIECE

DMX channels, reduced mode	DMX channels, full mode	Martin channels	Product select
7	N/A	1	17
Channel	Values	Effect	
1	0 - 49 50 - 99 100 - 149 150 - 199 200 - 247 248 - 252 253 - 255	Reset Fixture, Stand-Alone, Lamp On Manual Control Stand-Alone Random Music Stand-Alone Random Auto Stand-Alone Music Stand-Alone Auto Reset Fixture Lamp On	
		When running stand-alone, the Centrepiece will not respond to any other commands.	
2 - 5	0 - 198 199 - 255	Tilt 1-4 Full Closed --> Full Open Full Open	
6	0 - 123 124 - 131 132 - 255	Color Carousel Rotate Right (Fast --> Slow) Stop Rotate Left (Slow --> Fast)	
7	0 - 123 124 - 131 132 - 255	Mirror Rotation Rotate Right (Fast --> Slow) Stop Rotate Left (Slow --> Fast)	

