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DLX1224 BUS multi channel

EASY

Device Manual ***FW 3.0+***

Made in Italy

FEATURES

- *BUS+SEQUENCER+FADER+DIMMER+DRIVER*
- *DC Input 12-24 Vdc*
- *Bus command: DMX512-A + RDM or DALI*
- *Local command: Stand alone function (Dip Switch settings)*
- *Control: RGB or RGBW Color*
- *Current outputs or voltage outputs for LED strip*
- *Typical efficiency > 95%*
- *Adjusting the brightness up to completed off*
- *Soft start and soft stop*
- *Optimized output curve*
- *Extended temperature range*
- *100% Test functional – 2 Years warranty*

➔ *For the whole and updated **Device Manual** refer to producer's website: http://www.dalcnet.com*

Constant current variants (common anode)

Application (4 channels output): RGB+W

CODE	Supply Voltage	Output	Channels	Command	
DLX1224-4CC350-DMX	12-24V DC	4x350mA	4	DMX	EASY
DLX1224-4CC350-DALI	12-24V DC	4x350mA	4	DALI	EASY
DLX1224-4CC500-DMX	12-24V DC	4x500mA	4	DMX	EASY
DLX1224-4CC500-DALI	12-24V DC	4x500mA	4	DALI	EASY

Constant voltage variants (common anode)

Application (4 channels output): RGB+W

CODE	Supply Voltage	Output	Channels	Command	
DLX1224-4CV-DMX	12-24V DC	4 x 5A (max 10A tot.)	4	DMX	EASY
DLX1224-4CV-DALI	12-24V DC	4 x 5A (max 10A tot.)	4	DALI	EASY

Protections

OVP	*Over voltage protection*
UVP	*Under voltage protection*
RVP	*Reverse polarity protection*
IFP	*Internal circuit input fuse protection*

Reference standards

EN 61347-1	Lamp controlgear - Part 1: General and safety requirements
EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 61547	Equipment for general lighting purposes - EMC immunity requirements
EN 50581	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances
IEC/EN 62386-101	Digital addressable lighting interface - Part 101: General requirements - System
IEC/EN 62386-102	Digital addressable lighting interface - Part 102: General requirements - Control gear
IEC/EN 62386-207	Digital addressable lighting interface - Part 207: Particular requirements for control gear - LED modules (device type 6)
ANSI E1.11	Entertainment Technology - USITT DMX512-A - Asynchronous Serial Digital Data Transmission Standard for Controlling Lighting Equipment and Accessories
ANSI E1.20	Entertainment Technology-RDM-Remote Device Management over USITT DMX512 Networks
-	MODBUS APPLICATION PROTOCOL SPECIFICATION V1.1b

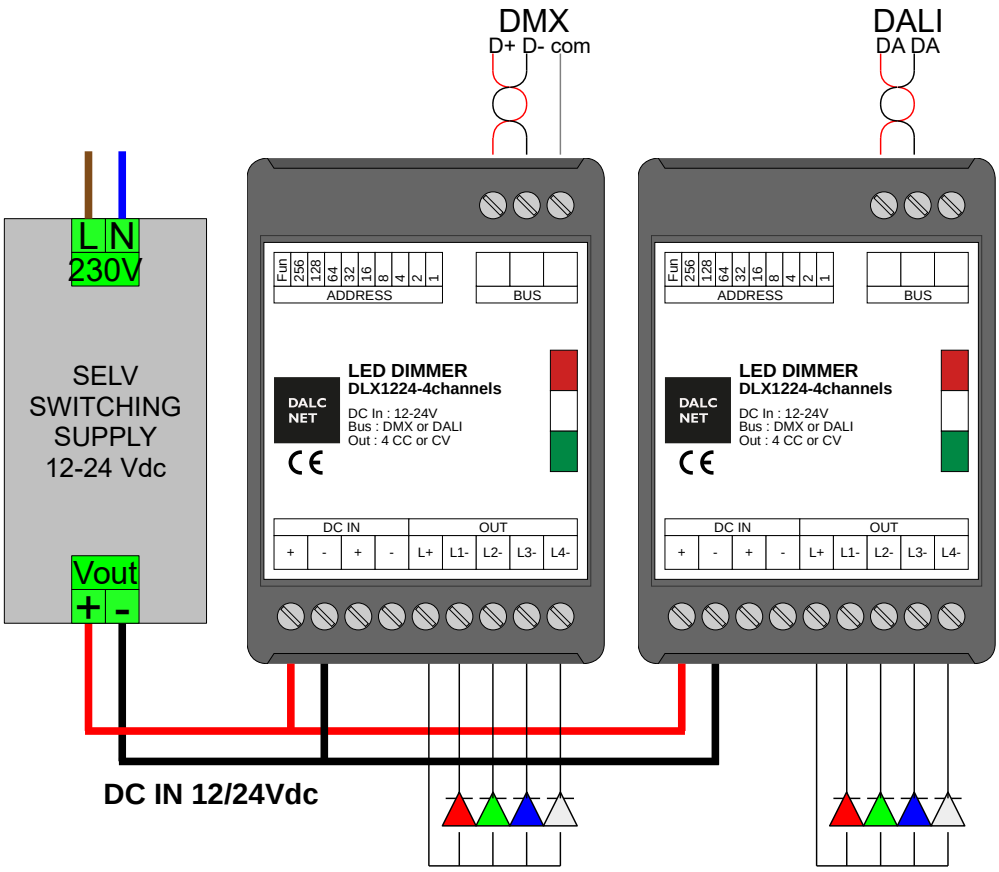
Technical Specifications

		Variant		
		Constant current		Constant voltage
		4 channels		4 channels
Supply voltage		DC min: 10.8 Vdc .. max: 26.4 Vdc		
Input current		max 2 A		max 10A
Output voltage		min: Vin/4	max: Vin-0,9V	= Vin
Output current		350mA/ch	500mA/ch	max 5 A/ch [1]
		max 1,4 A total	**max 2 A total**	**max 10 A total** [1]
Nominal power[1]	*@12V*	16,8 W	24 W	120 W
	@24V	33,6 W	48 W	240 W
Thermal shutdown		150 °C		150 °C
D-PWM dimming frequency		250Hz		
D-PWM resolution		16 bit		
D-PWM range		0,1 – 100 %		
Storage Temperature		min: -40 max: +60 °C		
Ambient Temperature [1]		min: -10 max: +40 °C		
Maximum Temperature at Tc		70°C [2]		
Protection grade		IP20		
Wiring		2.5mm² solid - 1.5mm² stranded - 30/12 AWG		
Mechanical dimensions		88 x 54 x 26 mm		
Packaging dimensions		106 x 59 x 36 mm		
Weight		74g		

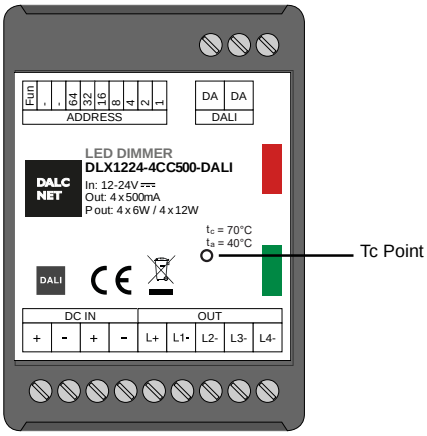
[1] *maximum value, dependent on the ventilation conditions*
[2] *Tc=70°C at Ta=40°C. With an Ambient Temperature of Ta=20°C → Tc=50°C*

Installation

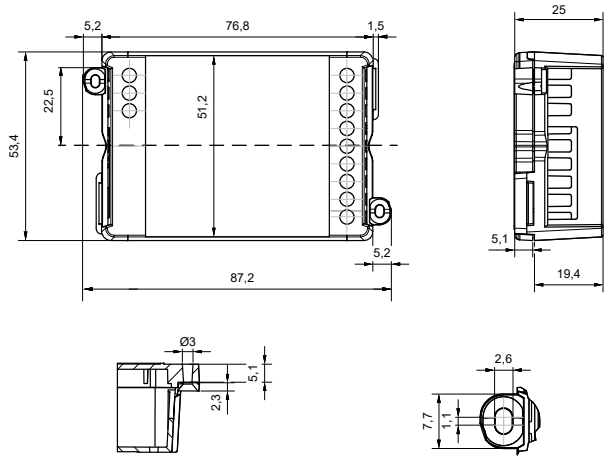
Connect the switching supply, connect the BUS (DALI or DMX+RDM), connect the leds.



Tc Point



Mechanical Dimensions:



Technical Notes:

Installation:

• Installation and maintenance must be performed only by qualified personnel in compliance with current regulations.
• The product must be installed inside an electrical panel protected against overvoltages.
• The product must be installed in a vertical or horizontal position with the cover / label upwards or vertically; Other positions are not permitted. It is not permitted to bottom-up position (with the cover / label updown).
• Keep separated the circuits at 230V (LV) and the circuits not SELV from circuits to low voltage (SELV) and from any connection with this product. It is absolutely forbidden to connect, for any reason whatsoever, directly or indirectly, the 230V mains voltage to the bus or to other parts of the circuit.

Power Supply:
• For the power supply use only a SELV power supplies with limited current, short circuit protection and the power must be dimensioned correctly.
In case of using power supply with ground terminals, all points of the protective earth (PE = Protection Earth) must be connected to a valid and certified protection earth.
• The connection cables between the power source "low voltage" and the product must be dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. Use double insulated cables.
• Dimension the power supply for the load connected to the device. If the power supply is oversized compared with the maximum absorbed current, insert a protection against over-current between the power supply and the device.
• For the constant current output, the voltage of LED module (Vf) must be less of 5V at the voltage of power supply.

Command:
• The length and type of the connection cables at the BUS (DMX512, Modbus, DALI or other) use cables as per specification of the respective protocols and regulations and they should be isolated from every wiring or parts at voltage not SELV. Use double insulated shielded and twisted cables.
• All the product and the control signal connect at the bus (DMX512, Modbus, DALI or other) must be SELV (the devices connected must be SELV or supply a SELV signal)

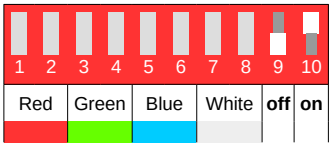
Outputs:
• The length of the connection cables between the product and the LED module must be less than 10m; the cables must be dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. Is preferable to use shielded and twisted cables.

■ STAND ALONE SETUP

Leds are managed by the DIP-SWITCH of the device.

Configuration

64 static colours

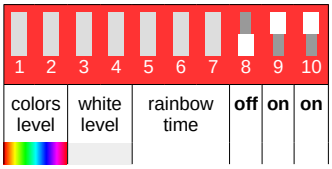


DIP 9 = OFF **DIP 10 = ON**

To set the intensity levels:

LEVELS	1st CHANNEL		2nd CHANNEL		3rd CHANNEL		4th CHANNEL	
	DIP 1	DIP2	DIP 3	DIP 4	DIP 5	DIP 6	DIP 7	DIP 8
100%	ON	ON	ON	ON	ON	ON	ON	ON
66%	OFF	ON	OFF	ON	OFF	ON	OFF	ON
33%	ON	OFF	ON	OFF	ON	OFF	ON	OFF
0%	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

Rainbow



DIP 8 = OFF **DIP 9 = ON** **DIP 10 = ON**

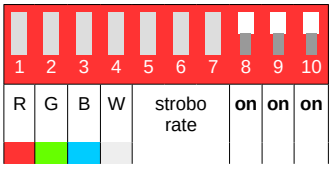
To set the intensity levels:

LEVELS	COLOURS		WHITE	
	DIP 1	DIP 2	DIP 3	DIP 4
100%	ON	ON	ON	ON
66%	OFF	ON	OFF	ON
33%	ON	OFF	ON	OFF
0%	OFF	OFF	OFF	OFF

To set the time between two adjacent colour changes:

TIME	DIP 5	DIP 6	DIP 7
30 min.	------ON-------	------ON-------	------ON-------
15 min.	-----OFF------	-----ON------	-----ON------
6 min.	----ON-----	----OFF-----	----ON-----
1 min.	---OFF----	---OFF----	----ON----
30 sec.	--ON---	--ON---	--OFF---
15 sec.	-OFF--	--ON--	--OFF--
6 sec.	-ON-	-OFF-	-OFF-
3 sec.	OFF	OFF	OFF

Strobo



DIP 8 = ON **DIP 9 = ON** **DIP 10 = ON**

To turn on the outputs:

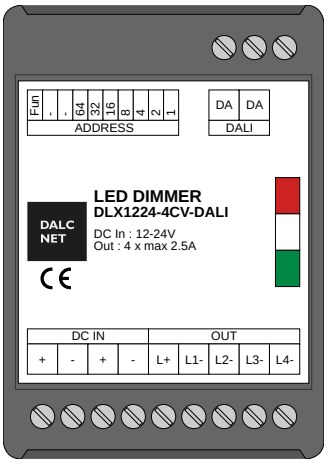
LEVEL	1st CHANNEL	2nd CHANNEL	3rd CHANNEL	4th CHANNEL
	DIP 1	DIP 2	DIP 3	DIP 4
100%	ON	ON	ON	ON
0%	OFF	OFF	OFF	OFF

To set the strobo frequency:

fps	DIP 5	DIP 6	DIP 7
10	ON	ON	OFF
8	ON	ON	ON
5	OFF	ON	ON
3	ON	OFF	OFF
1	OFF	OFF	OFF

BUS DALI SETUP

Leds are managed by a DALI controller.



Features

• DALI BUS

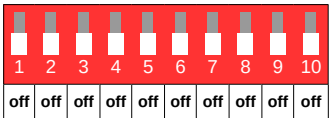
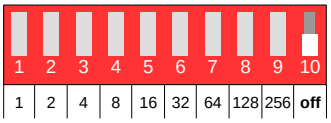
DALI protocol reference standards

IEC/EN 62386-101	Digital addressable lighting interface - Part 101: General requirements - System
IEC/EN 62386-102	Digital addressable lighting interface - Part 102: General requirements - Control gear
IEC/EN 62386-207	Digital addressable lighting interface - Part 207: Particular requirements for control gear - LED modules (device type 6)

Configuration

ADDRESSING

By selectors	V
Random Address Allocation	V

Function	DIP-SWITCH	
DALI Random Address Allocation		Addressing managed by DALI BUS. **All DIPS are OFF.**
Manual addressing [0..63]		Manual Addressing. **DIP 10 = OFF** Address DALI from 0 to 63 = (1*dip1 + 2*dip2 + 4*dip3 + ... + 64*dip7) -1 See the following table to set the address. In the table: - value 1 corresponds to dip ON - value 0 corresponds to dip OFF

DIP 1	DIP 2	DIP 3	DIP 4	DIP 5	DIP 6	DIP 7	DIP 8	DIP 9	DIP 10
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

addr	dip-switch 123456789	addr	dip-switch 123456789	addr	dip-switch 123456789	addr	dip-switch 123456789	addr	dip-switch 123456789	addr	dip-switch 123456789	addr	dip-switch 123456789	addr	dip-switch 123456789
by DALI	000000000														
0	100000000	**8**	100100000	**16**	100010000	**24**	100110000	**32**	100001000	**40**	100101000	**48**	100011000	**56**	100111000
1	010000000	**9**	010100000	**17**	010010000	**25**	010110000	**33**	010001000	**41**	010101000	**49**	010011000	**57**	010111000
2	110000000	**10**	110100000	**18**	110010000	**26**	110110000	**34**	110001000	**42**	110101000	**50**	110011000	**58**	110111000
3	001000000	**11**	001100000	**19**	001010000	**27**	001110000	**35**	001001000	**43**	001101000	**51**	001011000	**59**	001111000
4	101000000	**12**	101100000	**20**	101010000	**28**	101110000	**36**	101001000	**44**	101101000	**52**	101011000	**60**	101111000
5	011000000	**13**	011100000	**21**	011010000	**29**	011110000	**37**	011001000	**45**	011101000	**53**	011011000	**61**	011111000
6	111000000	**14**	111100000	**22**	111010000	**30**	111110000	**38**	111001000	**46**	111101000	**54**	111011000	**62**	111111000
7	000100000	**15**	000010000	**23**	000110000	**31**	000001000	**39**	000101000	**47**	000011000	**55**	000111000	**63**	000000100

APPLICATION EXAMPLE: suppose you want to set the address 38 in the device. The following values need to be set on the switches:
DIP 1 = ON, DIP 2 = ON, DIP 3 = ON, DIP 4 = OFF, DIP 5 = OFF, DIP 6 = ON, DIP 7 = OFF, DIP 8 = OFF, DIP 9 = OFF, DIP 10 = OFF.

Function

Considering the colours configuration depicted in paragraph ***Installation*** at page 3, the 4 intensities can be controlled by the following addresses:

Addr	Function	Value
+0	R	R 0 .. 254
+1	G	G 0 .. 254
+2	B	B 0 .. 254
+3	W	W 0.. 254

APPLICATION EXAMPLE: suppose you have manually set the address 38 in the device. Then, operating on DALI address:
- 38 the first output intensity can be managed (red colour);
- 39 the second output intensity can be managed (green colour);
- 40 the third output intensity can be managed (blue colour);
- 41 the fourth output intensity can be managed (white colour).

COMMANDS

STANDARD COMMANDS	
DIRECT ARC POWER	V
OFF	V
UP	V
DOWN	V
STEP UP	V
STEP DOWN	V
RECALL MAX LEVEL	V
RECALL MIN LEVEL	V
STEP DOWN AND OFF	V
ON AND STEP UP	V
GOTO SCENE (0 to 15)	V
RESET	V
STORE ACTUAL LEVEL IN THE DTR	V
STORE THE DTR AS MAX LEVEL	V
STORE THE DTR AS MIN LEVEL	V
STORE THE DTR AS SYSTEM FAILURE LEVEL	V
STORE THE DTR AS POWER ON LEVEL	V
STORE THE DTR AS FADE TIME	V
STORE THE DTR AS FADE RATE	V
STORE THE DTR AS SCENE (0 to 15)	V
REMOVE FROM SCENE (0 to 15)	V
ADD TO GROUP (0 to 15)	V
REMOVE FROM GROUP (0 to 15)	V
STORE DTR AS SHORT ADDRESS	V
ENABLE WRITE MEMORY	X
QUERY STATUS	V
QUERY BALLAST	V
QUERY LAMP FAILURE	V
QUERY LAMP POWER ON	V
QUERY LIMIT ERROR	V
QUERY RESET STATE	V
QUERY MISSING SHORT ADDRESS	V
QUERY VERSION NUMBER	V
QUERY CONTENT DTR	V
QUERY DEVICE TYPE	V
QUERY PHYSICAL MINIMUM LEVEL	V
QUERY POWER FAILURE	V
QUERY CONTENT DTR1	V
QUERY CONTENT DTR2	V
QUERY ACTUAL LEVEL	V
QUERY MAX LEVEL	V
QUERY MIN LEVEL	V
QUERY POWER ON LEVEL	V
QUERY SYSTEM FAILURE LEVEL	V
QUERY FADE TIME / FADE RATE	V
QUERY SCENE LEVEL (0 to 15)	V
QUERY GROUPS 0-7	V
QUERY GROUPS 8-15	V
QUERY RANDOM ADDRESS H	V
QUERY RANDOM ADDRESS M	V
QUERY RANDOM ADDRESS L	V
READ MEMORY LOCATION	X
QUERY EXTENDED VERSION	X

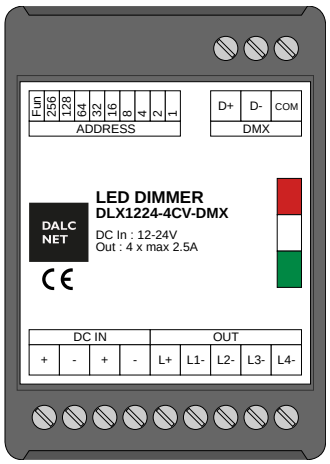
SPECIAL COMMANDS	
TERMINATE	V
DATA TRANSFER REGISTER	V
INITIALIZE	V
RANDOMIZE	V
COMPARE	V
WITHDRAW	V
SEARCHADDR H	V
SEARCHADDR M	V
SEARCHADDR L	V
PROGRAM SHORT ADDRESS	V
VERIFY SHORT ADDRESS	V
QUERY SHORT ADDRESS	V
PHYSICAL SELECTION	X
ENABLE DEVICE TYPE	X
DATA TRANSFER REGISTER 1	V
DATA TRANSFER REGISTER 2	V
WRITE MEMORY LOCATION	X

DEFAULT VALUES

	FACTORY	RESET
ACTUAL LEVEL	*254*	*254*
POWER ON LEVEL	*254*	*254*
SYSTEM FAILURE LEVEL	*254*	*254*
MIN LEVEL	*1*	*1*
MAX LEVEL	*254*	*254*
FADE RATE	*7*	*7*
FADE TIME	*0*	*0*
SHORT ADDRESS	*FF*	*(no change)*
SEARCH ADDRESS	*FF FF FF*	*FF FF FF*
RANDOM ADDRESS	*FF FF FF*	*FF FF FF*
GROUP 0-7	*0*	*0*
GROUP 8-15	*0*	*0*
SCENE 0-15	*MASK*	*MASK*
STATUS INFORMATION	*1??0????*	*0?100???*
VERSION NUMBER	*1*	*(no change)*
PHYSICAL MIN. LEVEL	*1*	*(no change)*

■ BUS DMX+RDM SETUP

LEDS are managed by a DMX controller.



Features

• BUS DMX512 (NSC+SIP+RDM)

DMX protocol reference standards

ANSI E1.11	Entertainment Technology - USITT DMX512-A - Asynchronous Serial Digital Data Transmission Standard for Controlling Lighting Equipment and Accessories
ANSI E1.20	Entertainment Technology-RDM-Remote Device Management over USITT DMX512 Networks

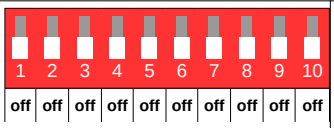
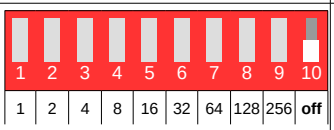
Technical Specification

Standard DMX512/RDM

Configuration

ADDRESSING

By selectors	V
From RDM	V

Function	DIP-SWITCH	
DMX512 Addressing managed by RDM		Addressing managed by RDM. **All DIPS are OFF.** **DIP 1 DIP 2 DIP 3 DIP 4 DIP 5 DIP 6 DIP 7 DIP 8 DIP 9 DIP 10** **OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF**
DMX512 Manual Addressing [1..511]		Manual Addressing **DIP 10 = OFF** DMX address from 1 to 511 = (1*dip1 + 2*dip2 + 4*dip3 + ... + 256*dip9) See the following table to set the address. In the table: - value 1 corresponds to dip ON - value 0 corresponds to dip OFF

addr	dip-switch 123456789	addr	dip-switch 123456789	addr	dip-switch 123456789	addr	dip-switch 123456789	addr	dip-switch 123456789	addr	dip-switch 123456789	addr	dip-switch 123456789	addr	dip-switch 123456789
RDM	000000000	**64**	000000100	**128**	000000010	**192**	000000110	**256**	000000001	**320**	000000101	**384**	000000011	**448**	000000111
1	100000000	**65**	100000100	**129**	100000010	**193**	100000110	**257**	100000001	**321**	100000101	**385**	100000011	**449**	100000111
2	010000000	**66**	010000100	**130**	010000010	**194**	010000110	**258**	010000001	**322**	010000101	**386**	010000011	**450**	010000111
3	110000000	**67**	110000100	**131**	110000010	**195**	110000110	**259**	110000001	**323**	110000101	**387**	110000011	**451**	110000111
4	001000000	**68**	001000100	**132**	001000010	**196**	001000110	**260**	001000001	**324**	001000101	**388**	001000011	**452**	001000111
5	101000000	**69**	101000100	**133**	101000010	**197**	101000110	**261**	101000001	**325**	101000101	**389**	101000011	**453**	101000111
6	011000000	**70**	011000100	**134**	011000010	**198**	011000110	**262**	011000001	**326**	011000101	**390**	011000011	**454**	011000111
7	111000000	**71**	111000100	**135**	111000010	**199**	111000110	**263**	111000001	**327**	111000101	**391**	111000011	**455**	111000111
8	000100000	**72**	000100100	**136**	000100010	**200**	000100110	**264**	000100001	**328**	000100101	**392**	000100011	**456**	000100111
9	100100000	**73**	100100100	**137**	100100010	**201**	100100110	**265**	100100001	**329**	100100101	**393**	100100011	**457**	100100111
10	010100000	**74**	010100100	**138**	010100010	**202**	010100110	**266**	010100001	**330**	010100101	**394**	010100011	**458**	010100111
11	110100000	**75**	110100100	**139**	110100010	**203**	110100110	**267**	110100001	**331**	110100101	**395**	110100011	**459**	110100111
12	001100000	**76**	001100100	**140**	001100010	**204**	001100110	**268**	001100001	**332**	001100101	**396**	001100011	**460**	001100111
13	101100000	**77**	101100100	**141**	101100010	**205**	101100110	**269**	101100001	**333**	101100101	**397**	101100011	**461**	101100111
14	011100000	**78**	011100100	**142**	011100010	**206**	011100110	**270**	011100001	**334**	011100101	**398**	011100011	**462**	011100111
15	111100000	**79**	111100100	**143**	111100010	**207**	111100110	**271**	111100001	**335**	111100101	**399**	111100011	**463**	111100111
16	000010000	**80**	000010100	**144**	000010010	**208**	000010110	**272**	000010001	**336**	000010101	**400**	000010011	**464**	000010111
17	100010000	**81**	100010100	**145**	100010010	**209**	100010110	**273**	100010001	**337**	100010101	**401**	100010011	**465**	100010111
18	010010000	**82**	010010100	**146**	010010010	**210**	010010110	**274**	010010001	**338**	010010101	**402**	010010011	**466**	010010111
19	110010000	**83**	110010100	**147**	110010010	**211**	110010110	**275**	110010001	**339**	110010101	**403**	110010011	**467**	110010111
20	001010000	**84**	001010100	**148**	001010010	**212**	001010110	**276**	001010001	**340**	001010101	**404**	001010011	**468**	001010111
21	101010000	**85**	101010100	**149**	101010010	**213**	101010110	**277**	101010001	**341**	101010101	**405**	101010011	**469**	101010111
22	011010000	**86**	011010100	**150**	011010010	**214**	011010110	**278**	011010001	**342**	011010101	**406**	011010011	**470**	011010111
23	111010000	**87**	111010100	**151**	111010010	**215**	111010110	**279**	111010001	**343**	111010101	**407**	111010011	**471**	111010111
24	000110000	**88**	000110100	**152**	000110010	**216**	000110110	**280**	000110001	**344**	000110101	**408**	000110011	**472**	000110111
25	100110000	**89**	100110100	**153**	100110010	**217**	100110110	**281**	100110001	**345**	100110101	**409**	100110011	**473**	100110111
26	010110000	**90**	010110100	**154**	010110010	**218**	010110110	**282**	010110001	**346**	010110101	**410**	010110011	**474**	010110111
27	110110000	**91**	110110100	**155**	110110010	**219**	110110110	**283**	110110001	**347**	110110101	**411**	110110011	**475**	110110111
28	001110000	**92**	001110100	**156**	001110010	**220**	001110110	**284**	001110001	**348**	001110101	**412**	001110011	**476**	001110111
29	101110000	**93**	101110100	**157**	101110010	**221**	101110110	**285**	101110001	**349**	101110101	**413**	101110011	**477**	101110111
30	011110000	**94**	011110100	**158**	011110010	**222**	011110110	**286**	011110001	**350**	011110101	**414**	011110011	**478**	011110111
31	111110000	**95**	111110100	**159**	111110010	**223**	111110110	**287**	111110001	**351**	111110101	**415**	111110011	**479**	111110111
32	000001000	**96**	000001100	**160**	000001010	**224**	000001110	**288**	000001001	**352**	000001101	**416**	000001011	**480**	000001111
33	100001000	**97**	100001100	**161**	100001010	**225**	100001110	**289**	100001001	**353**	100001101	**417**	100001011	**481**	100001111
34	010001000	**98**	010001100	**162**	010001010	**226**	010001110	**290**	010001001	**354**	010001101	**418**	010001011	**482**	010001111
35	110001000	**99**	110001100	**163**	110001010	**227**	110001110	**291**	110001001	**355**	110001101	**419**	110001011	**483**	110001111
36	001001000	**100**	001001100	**164**	001001010	**228**	001001110	**292**	001001001	**356**	001001101	**420**	001001011	**484**	001001111
37	101001000	**101**	101001100	**165**	101001010	**229**	101001110	**293**	101001001	**357**	101001101	**421**	101001011	**485**	101001111
38	011001000	**102**	011001100	**166**	011001010	**230**	011001110	**294**	011001001	**358**	011001101	**422**	011001011	**486**	011001111
39	111001000	**103**	111001100	**167**	111001010	**231**	111001110	**295**	111001001	**359**	111001101	**423**	111001011	**487**	111001111
40	000101000	**104**	000101100	**168**	000101010	**232**	000101110	**296**	000101001	**360**	000101101	**424**	000101011	**488**	000101111
41	100101000	**105**	100101100	**169**	100101010	**233**	100101110	**297**	100101001	**361**	100101101	**425**	100101011	**489**	100101111
42	010101000	**106**	010101100	**170**	010101010	**234**	010101110	**298**	010101001	**362**	010101101	**426**	010101011	**490**	010101111
43	110101000	**107**	110101100	**171**	110101010	**235**	110101110	**299**	110101001	**363**	110101101	**427**	110101011	**491**	110101111
44	001101000	**108**	001101100	**172**	001101010	**236**	001101110	**300**	001101001	**364**	001101101	**428**	001101011	**492**	001101111
45	101101000	**109**	101101100	**173**	101101010	**237**	101101110	**301**	101101001	**365**	101101101	**429**	101101011	**493**	101101111
46	011101000	**110**	011101100	**174**	011101010	**238**	011101110	**302**	011101001	**366**	011101101	**430**	011101011	**494**	011101111
47	111101000	**111**	111101100	**175**	111101010	**239**	111101110	**303**	111101001	**367**	111101101	**431**	111101011	**495**	111101111
48	000011000	**112**	000011100	**176**	000011010	**240**	000011110	**304**	000011001	**368**	000011101	**432**	000011011	**496**	000011111
49	100011000	**113**	100011100	**177**	100011010	**241**	100011110	**305**	100011001	**369**	100011101	**433**	100011011	**497**	100011111
50	010011000	**114**	010011100	**178**	010011010	**242**	010011110	**306**	010011001	**370**	010011101	**434**	010011011	**498**	010011111
51	110011000	**115**	110011100	**179**	110011010	**243**	110011110	**307**	110011001	**371**	110011101	**435**	110011011	**499**	110011111
52	001011000	**116**	001011100	**180**	001011010	**244**	001011110	**308**	001011001	**372**	001011101	**436**	001011011	**500**	001011111
53	101011000	**117**	101011100	**181**	101011010	**245**	101011110	**309**	101011001	**373**	101011101	**437**	101011011	**501**	101011111
54	011011000	**118**	011011100	**182**	011011010	**246**	011011110	**310**	011011001	**374**	011011101	**438**	011011011	**502**	011011111
55	111011000	**119**	111011100	**183**	111011010	**247**	111011110	**311**	111011001	**375**	111011101	**439**	111011011	**503**	111011111
56	000111000	**120**	000111100	**184**	000111010	**248**	000111110	**312**	000111001	**376**	000111101	**440**	000111011	**504**	000111111
57	100111000	**121**	100111100	**185**	100111010	**249**	100111110	**313**	100111001	**377**	100111101	**441**	100111011	**505**	100111111
58	010111000	**122**	010111100	**186**	010111010	**250**	010111110	**314**	010111001	**378**	010111101	**442**	010111011	**506**	010111111
59	110111000	**123**	110111100	**187**	110111010	**251**	110111110	**315**	110111001	**379**	110111101	**443**	110111011	**507**	110111111
60	001111000	**124**	001111100	**188**	001111010	**252**	001111110	**316**	001111001	**380**	001111101	**444**	001111011	**508**	001111111
61	101111000	**125**	101111100	**189**	101111010	**253**	101111110	**317**	101111001	**381**	101111101	**445**	101111011	**509**	101111111
62	011111000	**126**	011111100	**190**	011111010	**254**	011111110	**318**	011111001	**382**	011111101	**446**	011111011	**510**	011111111
63	111111000	**127**	111111100	**191**	111111010	**255**	111111110	**319**	111111001	**383**	111111101	**447**	111111011	**511**	111111111

APPLICATION EXAMPLE: suppose you want to set the address 310 in the device. The following values need to be set on the switches:
DIP 1 = OFF, DIP 2 = ON, DIP 3 = ON, DIP 4 = OFF, DIP 5 = ON, DIP 6 = ON, DIP 7 = OFF, DIP 8 = OFF, DIP 9 = ON, DIP 10 =

OFF

Functions

Considering the colours configuration depicted in paragraph **Installation** at page 3, the 4 intensities can be controlled by the following slots:

Slot	Function	Value
1	R	R 0 .. 255
2	G	G 0 .. 255
3	B	B 0 .. 255
4	W	W 0.. 255

APPLICATION EXAMPLE: suppose you have manually set the address 310 on the device by selectors. Then, operating on DMX address:
- 310 (1st slot) first output intensity can be managed (red colour);
- 311 (2nd slot) second output intensity can be managed (green colour);
- 312 (3rd slot) third output intensity can be managed (blue colour);
- 313 (4th slot) fourth output intensity can be managed (white colour).

RDM COMMANDS

REQUESTED PARAMETERS	
DISC_UNIQUE_BRANCH	V
DISC_MUTE	V
DISC_UN_MUTE	V
SUPPORTED_PARAMETERS	V
PARAMETER_DESCRIPTION	V
DEVICE_INFO	V
SOFTWARE_VERSION_LABEL	V
DMX_START_ADDRESS	V
IDENTIFY_DEVICE	V

SUPPORTED PARAMETERS	
PRODUCT_DETAIL_ID_LIST	V
DEVICE_MODEL_DESCRIPTION	V
MANUFACTURER_LABEL	V
DEVICE_LABEL	V
BOOT_SOFTWARE_VERSION_ID	V
BOOT_SOFTWARE_VERSION_LABEL	V
DMX_PERSONALITY	V
DMX_PERSONALITY_DESCRIPTION	V
SLOT_INFO	V
SLOT_DESCRIPTION	V
DEFAULT_SLOT_VALUE	V