



Series™ 200 DMX Control Reference Guide

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Introduction

About This Guide

By using a VARI***LITE** DMX200 interface unit, VL2C™ and VL4™ luminaires can be controlled from any Virtuoso™ or DMX-compatible console. The DMX200 interface unit converts DMX512 protocol to Series 200™ comm in order to control these luminaires.

Note: Refer to the Virtuoso System Installation and Checkout Manual (02.3004.0400) for instructions on using Series 200 equipment with Virtuoso consoles.

Thumbwheel Settings

The luminaire thumbwheel setting determines the offset of the first channel for that luminaire within its universe. Luminaires with thumbwheel settings 1-497 (498 for VL2 luminaires) are controlled by universe 1 and luminaires with thumbwheel settings 501-993 are controlled by universe 2. For example, a VL4 luminaire with thumbwheel setting 21 would be controlled by DMX channels 21-35 of universe 1, while a VL2C luminaire with thumbwheel setting 514 would be controlled by DMX channels 14-27 of universe 2.

VL2C™ Luminaire

Channel Assignments

Each VL2C luminaire requires 14 DMX channels for control. The luminaire's starting address is determined by its thumbwheel setting (refer to [“Thumbwheel Settings” on page 1](#)). Use Tables 1 through 3 to determine channel assignments for the luminaire parameters and DMX values for positioning color wheels 1 and 2 and the gobo wheel.

Table 1: VL2C Luminaire Channel Assignments

Channel	Parameter
1	Intensity
2	Pan Hi
3	Pan Lo
4	Tilt Hi
5	Tilt Lo
6	Wheel 1
7	Wheel 2
8	Beam
9	Edge
10	Gobo Wheel
11	Focus Time
12	Edge Time
13	Beam Time
14	Reset, Start and Douse

Table 2: VL2C Luminaire DMX Values for Color Wheels 1 & 2

Pos.	Color Wheel 1	Color Wheel 2	DMX Value
1	Open (no color)	Open (no color)	0-15
2	No Color Straw	Magenta	16-31
3	Color Correction	Light Pink	32-47
4	Lavender	Pink	48-63
5	Deep Red	Pale Lavender	64-79
6	Ultra Violet	Red	80-95
7	Dark Violet	Orange Red	96-111
8	Violet Blue	Orange	112-127
9	Blue Violet	Amber	128-143
10	Royal Blue	Yellow	144-159
11	Blue	Greenish Yellow	160-175
12	Turquoise Blue	Lt. Yellow Green	176-191
13	Medium Blue	Pale Yellow Green	192-207
14	Pale Med. Blue	Straw	208-223
15	Pale Blue	Light Straw	224-239
16	No Color Blue	Pale Straw	240-255

Table 3: VL2C Luminaire DMX Values for Gobo Control

Gobo	DMX Value
1 (open)	0-24
2	25-49
3	50-74
4	75-99
5	100-124
6	125-149
7	150-174
8	175-199
9	200-224
10	225-255

VL4™ Luminaire

Channel Assignments

Each VL4 luminaire requires 15 DMX channels for control. The luminaire's starting address is determined by its thumbwheel setting (refer to [“Thumbwheel Settings” on page 1](#)). Channel assignments are as follows:

Table 4: VL4 Luminaire Channel Assignments

Channel	Parameter
1	Intensity
2	Pan Hi
3	Pan Lo
4	Tilt Hi
5	Tilt Lo
6	Blue
7	Amber
8	Magenta
9	Edge
10	Beam
11	Shutter
12	Focus Time
13	Color Time
14	Beam Time
15	Reset, Start and Douse

Reset Channel

The reset channel (14 for VL2C luminaire, 15 for VL4 luminaire) allows the operator to reset the luminaire, start the lamp, or douse the lamp. To perform the desired action, set the reset channel to the appropriate value, wait three seconds, then return the value to zero. The actions, and control values are as follows:

Table 5: Reset Channel Values

Action	DMX Value
Reset	84
Douse	168
Start	252
zero	0

Timing Channels

Timing channel functionality for VL2C and VL4 luminaires is the same as the functionality for Series 300™ fixtures. Refer to the DMX Guide 5.2 manual (02.3004.0300.52) for more information.

VARI*LTE Color Parameters

DMX Values

Note: In the following table, the VL2C luminaire color system information is given by wheel 1 and wheel 2 positions. Use [“Table 2:” on page 3](#) to find the appropriate DMX value range for the listed wheel positions.

Table 6: Series 200 DMX Values

Color Name	VL No.	Similar To	VL2C (Wh 1/Wh 2)	VL4 (DMX Values)		
				Blue (6)	Amber (7)	Magenta (8)
Pink Tint	101	Lux 55	N/A	254	255	198
Bastard Amber	103	Lux 02	N/A	254	151	166
GAM Bastard Amber	104	GAM 325	N/A	255	158	163
Warm Bastard Amber	105	Lee 162	N/A	255	162	173
Pale Golden Amber	107	Lux 09	N/A	255	141	179
Light Amber	110	Lux 16, Lee 204	N/A	255	128	165
Light Flame	112	Lux 17	N/A	255	126	147
Medium Bastard Amber	115	Lux 04	N/A	255	126	147
Dark Bastard Amber	116	Lux 03	N/A	N/A	N/A	N/A
Warm Amber	122	Lee 176, Lux 01	N/A	255	141	152
Peach	125	GAM 320		255	122	135
Flesh Pink	131	Lux 34	N/A	255	160	132
Dark Pink	134	Lee 111	N/A	255	158	118
Medium Salmon	136	Lux 32	N/A	255	128	108
Salmon	138	Lux 41	N/A	254	104	90
Brite Pink	141	Lee 128	N/A	255	126	75
Dark Peach	145		N/A	255	128	87
Lee Magenta	149	Lee 113	N/A	255	111	53
Dark Salmon	151		N/A	255	97	48
Deep Salmon	155		N/A	255	105	34
Dark Red	161		4/4	N/A	N/A	N/A
Medium Red	164	Lux 27	4/8	255	0	0

Table 6: Series 200 DMX Values (Continued)

Color Name	VL No.	Similar To	VL2C (Wh 1/Wh 2)	VL4 (DMX Values)		
				Blue (6)	Amber (7)	Magenta (8)
Primary Red	168	Lee 106	0/5	255	0	29
Dark Orange	173	Lux 26	0/5	255	0	46
Light Red	177	GAM 235	N/A	255	106	44
Dark Orange	181		2/6	255	90	46
Orange	183	Lux 19, Lee 164	15/6	255	0	78
Medium Amber	187	Lux 22	15/6	255	0	98
Deep Golden Amber	201	GAM 345	15/7	255	47	109
Canary	205	Lux 21	2/8	255	62	173
Light Amber	208		0/8	255	67	225
Lee Orange	212	Lee 105	2/9	255	98	255
Chrome Orange	214	Lux 15, Lee 179	15/8	255	104	198
Bright Yellow	219		1/9	255	106	255
Dark Straw	221		0/9	255	100	255
Deep Amber	223	Lee 104	0/9	254	111	255
Light Yellow	225	Lee 101	2/11	N/A	N/A	N/A
Straw	237	Lux 12	1/10	N/A	N/A	N/A
Light Straw	239		2/15	255	135	255
No Color Green	245	Lee 213, Lee 202	0/15	151	128	255
Pale Yellow-Green	251		14/12	N/A	N/A	N/A
Fern Green	254	Lee 122	13/14	0	137	255
Yellow-Green	256		10/9	85	87	255
Lime Green	257	Lee 139	11/11	95	107	255
Primary Green	259		10/11	85	116	255
Light Green	261		9/11	98	143	255
Moss Green	263		9/12	N/A	N/A	N/A
Lt. Blue Green	267		11/14	34	130	255
Kelly Green	268	Lux 94	12/14	48	126	255
Dark Green	270	Lee 124	10/13	96	117	255
Fluorescent Green	273		9/13	N/A	N/A	N/A
Dark Fluor. Green	275		8/15	N/A	N/A	N/A
Blue-Grass Green	281	GAM 690, GAM 440	10/14	N/A	N/A	N/A
Medium Blue- Green	284	Lee 116	9/14	99	136	230

Table 6: Series 200 DMX Values (Continued)

Color Name	VL No.	Similar To	VL2C (Wh 1/Wh 2)	VL4 (DMX Values)		
				Blue (6)	Amber (7)	Magenta (8)
Dark Peacock Green	286		8/13	N/A	N/A	N/A
Peacock Green	287	Lee 115	10/15	43	160	255
Dark Turquoise	289		11/15	43	165	255
Light Aqua	291		10/15	99	156	255
Aqua	295		8/14	108	189	255
Rosco Peacock Blue	298	Lux 73	N/A	116	140	255
Lee Steel Blue	299	Lee 117	N/A	130	136	255
1/4 CTB	301	Lee 203	N/A	210	175	255
1/2 CTB	303	Lee 202, Lux 61	N/A	255	191	255
Full CTB	307	Lee 201	15/0	146	177	255
City Blue	310	GAM 847, Polycolor 70	N/A	141	204	255
N.C. Blue	313	GAM 840, GAM 980	N/A	138	255	222
Slate Blue	318	Lee 161	N/A	N/A	N/A	N/A
Pale Blue	321	Lux 69	11/0	113	191	255
Lee Light Blue	325	Lee 118	10/0	51	203	255
Bright Blue	330	Lee 141	N/A	82	255	255
Medium Blue	342	Lee 132	9/0	103	254	169
Sea Blue	345	Lux 68, GAM 810	11/2	117	255	255
Icy Blue	350		10/2	99	255	167
Just Blue	355	Lee 79	8/0	N/A	N/A	N/A
Primary Blue	359	Lux 83, GAM 850	9/3	N/A	N/A	N/A
Dark Steel Blue	365		7/15	N/A	N/A	N/A
Deep Blue	371		7/0	53	255	0
Dark Blue	374	Lee 120	8/4	71	255	46
Royal Blue	380	GAM 905	6/4	38	255	80
Dark UV	401		5/1	N/A	N/A	N/A
Indigo	403	Lux 59	5/0	100	255	101
Congo Blue	406	Lee 181	6/1	101	255	101
Darkest Lavender	409		12/1	109	255	109
Dark Rose Purple	411		3/4	101	255	118
Deep Lavender	415		12/4	77	255	121

Table 6: Series 200 DMX Values (Continued)

Color Name	VL No.	Similar To	VL2C (Wh 1/Wh 2)	VL4 (DMX Values)		
				Blue (6)	Amber (7)	Magenta (8)
Lilac	418		13/4	73	255	135
Special Dark Lavender	421		10/3	74	251	136
Cool Lavender	422	GAM 845	11/3	101	251	152
Pale Lavender	425		13/3	N/A	N/A	N/A
Mercury Vapor	429		13/4	46	255	118
Medium Violet	433	Lux 359	15/4	116	255	135
Dark Lavender	443	Lee 180	1/4	132	254	135
Lee Special Lavender	447	Lee 137	N/A	183	255	199
Twilight	451	GAM 915	N/A	145	255	255
Deep Lavender	455	GAM 948	15/3	123	255	135
Pale Lilac	461		2/4	136	255	139
Periwinkle	463	GAM 960, GAM 970	0/3	158	255	148
Dusty Lavender	466		15/2	181	255	199
No Color Lilac	468	Lux 52	1/2	216	255	165
Special Lavender	469	Lux 54	N/A	211	255	189
Dark Rose	471		3/1	134	255	97
Dark Fushia	474	Lux 358	14/1	132	255	97
Dark Follies Pink	476		15/1	255	254	67
Magenta	478	Lee 126	15/1	155	193	64
Hot Pink	480		0/1	255	193	64
Mauve	483		1/1	255	172	69
Follies Pink	489		N/A	255	163	84
Flesh Pink	491		N/A	255	255	115
Rose Purple	492	Lux 48	N/A	209	255	118
Carnation	494		N/A	255	199	131
No Color Pink	495		0/2	255	185	131
Cool Bastard Amber	496	Lux 52, Lux 33	0/2	211	255	152
Dusty Rose	497		2/2	255	175	148
Rouge	498		N/A	206	173	152

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