

DMX profiles L600C

Summary: DMX profiles for Profoto L600C with firmware version A2 or later

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1. Introduction

1.1 Purpose and scope

This document describes the DMX profiles supported by Profoto L600C

2. General

2.1 General strategy

The following DMX profiles are generic for most Profoto lights. The general strategy is that selectable values are in accordance with the specific products limits. The value is calculated linear from lowest selectable value to max.

$$Value = Min + (Max - Min) \cdot \frac{DMX\ value}{DMX\ value\ max}$$

For example selecting color temperature in 8 bit mode (8 bit CCT) for a light that has the CCT range 2000-10'000K. Sending in the value 102 would result in:

$$Value = 2000 + (10000 - 2000) \cdot \frac{102}{255} = 5200K$$

3. DMX profiles

3.1 P01 – 8 Bit CCT & Tint

Channel	Value	Function	
1	0-255	Master video light Intensity	0-100%
2	0-255	CCT	2000 – 15000 K (Min and Max values are product specific)
3	0-255	TINT	0-10 neutral 11 full minus green 134 Neutral 255 full plus green
4	0-255	Fan control	See device control section
5	0-255	Device configuration	See device control section

3.2 P02 – 16 Bit CCT & Tint

Channel	Value	Function	
1 HI	2 LO	0-65535	Master video light Intensity 0-100%
3 HI	4 LO	0-65535	CCT 2000 – 15000 K (Min and Max values are product specific)
5 HI	6 LO	0-65535	TINT 0-4999 neutral 5000 full minus green 35268 neutral 65535 full plus green
7		0-255	Fan control See device control section
8		0-255	Device configuration See device control section

3.3 P03 - 8 bit HSI

Channel	Value	Function	
1	0-255	Master video light Intensity	0-100%
2	0-255	Hue	0-360
3	0-255	Saturation	0-100%
4	0-255	Fan control	See device control section
5	0-255	Device configuration	See device control section

3.4 P04 - 16 Bit HSI

Channel	Value	Function	
1 HI 2 LO	0-65535	Master video light Intensity	0-100%
3 HI 4 LO	0-65535	Hue	0-360
5 HI 6 LO	0-65535	Saturation	0-100%
7	0-255	Fan control	See device control section
8	0-255	Device configuration	See device control section

3.5 P05 - 8 Bit RGBW

Channel	Value	Function	
1	0-255	Master video light Intensity	0-100%
2	0-255	Intensity red	0-100%
3	0-255	Intensity green	0-100%
4	0-255	Intensity blue	0-100%
5	0-255	Intensity white	0-100%
			The white point is 6500K
6	0-255	Fan control	See device control section
7	0-255	Device configuration	See device control section

3.6 P06 – 16 bit RGBW

Channel		Value	Function	
1 HI	2 LO	0-65535	Master video light Intensity	0-100%
3 HI	4 LO	0-65535	Intensity red	0-100%
5 HI	6 LO	0-65535	Intensity green	0-100%
7 HI	8 LO	0-65535	Intensity blue	0-100%
9 HI	10 LO	0-65535	Intensity white	0-100% The white point is 6500K
11		0-255	Fan control	See device control section
12		0-255	Device configuration	See device control section

3.7 P07 – 16 bit X/Y coordinates

CIE1931 x/y coordinates

Channel		Value	Function	
1 HI	2 LO	0-65535	Master video light Intensity	0-100%
3 HI	4 LO	0-65535	X coordinate	0-0.8
5 HI	6 LO	0-65535	Y coordinate	0-0.8
7		0-255	Fan control	See device control section
8		0-255	Device configuration	See device control section

3.8 P08 - 8 bit gel mode

Channel	Value	Function	
1	0-255	Master video light Intensity	0-100%
2	0-255	Gel library	0-9: LEE color filters 10-19: LEE cosmetic 20-29: LEE 600 series 30-39: LEE 700 series 40-49: LEE Color correction 50-59: Rosco cinelux 60-69: Rosco CalColor 70-79: Rosco Storaro 80-89: Rosco color correction 90-255: Reserved
3	0-255	Gel swatch	See Gel swatch tables in Gel swatches section. Depends on the gel library
4	0-255	Base	0-127: Tungsten 3200K 128-255: HMI 5600K
5	0-255	Fan control	See device control section
6	0-255	Device configuration	See device control section

3.9 P09 - 8 bit CCT & HSI

CCT and HSI with cross-fade between.

Channel	Value	Function	
1	0-255	Master video light Intensity	0-100%
2	0-255	CCT	2000 – 15000 K (Min and Max values are product specific)
3	0-255	TINT	0-10 neutral 11 full minus green 134 neutral 255 full plus green
4	0-255	Crossfade to HSI	0-100%
5	0-255	Hue	0-360
6	0-255	Saturation	0-100%
7	0-255	Fan control	See device control section
8	0-255	Device configuration	See device control section

3.10 P10 - 16 bit CCT & HSI

CCT and HSI with cross-fade between.

Channel		Value	Function	
1 HI	2 LO	0-65535	Master video light Intensity	0-100%
3 HI	4 LO	0-65535	CCTG	2000 - 15000 K (Min and Max values are product specific)
5 HI	6 LO	0-65535	TINT	0-4999 neutral 5000 full minus green 35268 neutral 65535 full plus green
7 HI	8 LO	0-65535	Crossfade to HSI	0-100%
9 HI	10 LO	0-65535	Hue	0-360
11 HI	12 LO	0-65535	Saturation	0-100%
13		0-255	Fan control	See device control section
14		0-255	Device configuration	See device control section

CCT and RGBW with cross-fade between.

Channel	Value	Function	
1	0-255	Master video light Intensity	0-100%
2	0-255	CCT	2000 – 15000 K (Min and Max values are product specific)
3	0-255	TINT	0-10 neutral 11 full minus green 134 neutral 255 full plus green
4	0-255	Crossfade to RGBW	0-100%
5	0-255	Intensity red	0-100%
6	0-255	Intensity green	0-100%
7	0-255	Intensity blue	0-100%
8	0-255	Intensity white	0-100% The white point is 6500K
9	0-255	Fan control	See device control section
10	0-255	Device configuration	See device control section

3.11 P12 - 16 bit CCT & RGBW

CCT and RGBW with cross-fade between

Channel		Value	Function	
1 HI	2 LO	0-65535	Master video light Intensity	0-100%
3 HI	4 LO	0-65535	CCT	Min - Max K
5 HI	6 LO	0-65535	TINT	0-4999 neutral 5000 full minus green 35268 neutral 65535 full plus green
7 HI	8 LO	0-65535	Crossfade to RGBW	0-100%
9 HI	10 LO	0-65535	Intensity red	0-100%
11 HI	12 LO	0-65535	Intensity green	0-100%
13 HI	14 LO	0-65535	Intensity blue	0-100%
15 HI	16 LO	0-65535	Intensity white	0-100% The white point is 6500K
17		0-255	Fan control	See device control section
18		0-255	Device configuration	See device control section

3.12 P13 - 16 bit CCT & X/Y coordinates

CCT and CIE1931 X/Y coordinates with cross-fade between.

Channel		Value	Function	
1 HI	2 LO	0-65535	Master video light Intensity	0-100%
3 HI	4 LO	0-65535	CCTG	2000 – 15000 K (Min and Max values are product specific)
5 HI	6 LO	0-65535	TINT	0-4999 neutral 5000 full minus green 35268 neutral 65535 full plus green
7 HI	8 LO	0-65535	Crossfade to X/Y coordinates	0-100%
9 HI	10 LO	0-65535	X coordinate	0-0.8
11 HI	12 LO	0-65535	Y coordionate	0-0.8
13		0-255	Fan control	See device control section
14		0-255	Device configuration	See device control section

3.13 P31 - Flex profile

This is a dynamic profile, where the first DMX channel selects the active profile, which are placed in the channels after the first.

Channel	Value	Function	
1		Profile select	0-4: P01: 8-bit CCT & TINT 5-9: P02: 16-bit CCT & TINT 10-14: P03: 8-bit HSI 15-19: P04: 16-bit HSI 20-24: P05: 8-bit RGB 25-29: P06: 16-bit RGB 30-34: P07: 16-bit X/Y 35-39: P08: 8-bit gels 40-44: P09: 8-bit CCT/HSI crossfade 45-49: P10: 16-bit CCT/HSI crossfade 50-54: P11: 8-bit CCT/RGB crossfade 55-59: P12: 16-bit CCT/RGB crossfade 60-64: P13: 16 bit CCT & X/Y crossfade 65-255: Reserved
2-...		Channel 1.. of selected profile	See corresponding mode table

4. Device control via DMX

Some settings have a 3 second activation time to enable device control via manual DMX panels. Device control channel control should normally be kept in range 0-9. To activate a setting: Move control to the desired DMX setting value and hold for 3 seconds before moving it back to 0-9 range.

DMX Smoothing settings are activated instantly but not saved until held for 3 seconds.

4.1 Device control

Channel	Value	Function	Activation time
1	0-255	Fan control	0-9 Auto
			10-19 Max
			20-29 Silent
			30-255 Reserved
2	0-255	Device control	n/a
			Instant
			Instant
			Instant
			Instant
			3 seconds
			3 seconds
			3 seconds
			3 seconds
			3 seconds
			3 seconds
			3 seconds
			3 seconds
			n/a
			3 seconds

5. Gel swatches

5.1 LEE color filters (library DMX value 0-9)

Value 8-bit	Gel number	Name
0 - 1	2	Rose Pink
2 - 3	3	Lavender Tint
4 - 5	4	Medium Bastard Amber
6 - 7	7	Pale Yellow
8 - 9	8	Dark Salmon
10 - 11	9	Pale Amber Gold
12 - 13	10	Medium Yellow
14 - 15	13	Straw Tint
16 - 17	17	Surprise Peach
18 - 19	19	Fire
20 - 21	20	Medium Amber
22 - 23	21	Gold Amber
24 - 25	22	Dark Amber
26 - 27	24	Scarlet
28 - 29	25	Sunset Red
30 - 31	26	Bright Red
32 - 33	35	Light Pink
34 - 35	36	Medium Pink
36 - 37	46	Dark Magenta
38 - 39	48	Rose Purple
40 - 41	52	Light Lavender
42 - 43	53	Paler Lavender
44 - 45	58	Lavender
46 - 47	61	Mist Blue
48 - 49	63	Pale Blue

50 – 51	68	Sky Blue
52 – 53	75	Evening Blue
54 – 55	79	Just Blue
56 – 57	85	Deeper Blue
58 – 59	88	Lime Green
60 – 61	89	Moss Green
62 – 63	90	Dark Yellow Green
64 – 65	100	Spring Yellow
66 – 67	101	Yellow
68 – 69	102	Light Amber
70 – 71	103	Straw
72 – 73	104	Deep Amber
74 – 75	106	Primary Red
76 – 77	107	Light Rose
78 – 79	108	English Rose
80 – 81	109	Light Salmon
82 – 83	110	Middle Rose
84 – 85	111	Dark Pink
86 – 87	113	Magenta
88 – 89	115	Peacock Blue
90 – 91	117	Steel Blue
92 – 93	118	Light Blue
94 – 95	120	Deep Blue
96 – 97	121	LEE Green
98 – 99	122	Fern Green
100 – 101	124	Dark Green
102 – 103	127	Smokey Pink
104 – 105	128	Bright Pink

106 – 107	131	Marine Blue
108 – 109	134	Golden Amber
110 – 111	135	Deep Golden Amber
112 – 113	136	Pale Lavender
114 – 115	137	Special Lavender
116 – 117	138	Pale Green
118 – 119	140	Summer Blue
120 – 121	142	Pale Violet
122 – 123	143	Pale Navy Blue
124 – 125	144	No Color Blue
126 – 127	147	Apricot
128 – 129	148	Bright Rose
130 – 131	151	Gold Tint
132 – 133	152	Pale Gold
134 – 135	153	Pale Salmon
136 – 137	154	Pale Rose
138 – 139	156	Chocolate
140 – 141	157	Pink
142 – 143	159	No Colour Straw
144 – 145	161	Slate Blue
146 – 147	162	Bastard Amber
148 – 149	164	Flame Red
150 – 151	165	Daylight Blue
152 – 153	169	Lilac Tint
154 – 155	170	Deep Lavender
156 – 157	174	Dark Steel Blue
158 – 159	176	Loving Amber
160 – 161	180	Dark Lavender

162 – 163	182	Light Red
164 – 165	192	Flesh Pink
166 – 167	194	Surprise Pink
168 – 169	195	Zenith Blue
170 – 171	196	True Blue
172 – 173	197	Alice Blue
174 – 175	198	Palace Blue
176 – 177	199	Regal Blue
178 – 255		Reserved

5.2 LEE cosmetic (library DMX value 10-19)

Value 8-bit	Gel number	Name
0 – 1	184	Cosmetic Peach
2 – 3	186	Cosmetic Silver Rose
4 – 5	187	Cosmetic Rouge
6 – 7	188	Cosmetic Highlight
8 – 9	189	Cosmetic Silver Moss
10 – 11	191	Cosmetic Aqua Blue
12 – 13	705	Lily Frost
14 – 15	717	Shanklin Frost
16 – 17	718	Half Shanklin Frost
18 – 19	720	Durham Daylight Frost
20 – 21	749	Hampshire Rose
22 – 23	750	Durham Frost
24 – 25	774	Soft Amber Key 1
26 – 27	775	Soft Amber Key 2

28 – 29	791	Moroccan Frost
30 – 31	217	Blue Diffusion
32 – 33	221	Blue Frost
34 – 35	224	Daylight Blue Frost
36-255		Reserved

5.3 LEE 600 series (library DMX value 20-29)

Value 8-bit	Gel number	Name
0 – 1	600	Arctic White
2 – 3	601	Silver
4 – 5	602	Platinum
6 – 7	603	Moonlight White
8 – 9	604	Full CT 85
10 – 11	650	Industry Sodium
12 – 13	651	HI Sodium
14 – 15	652	Urban Sodium
16 – 17	653	LO Sodium
18 – 255		Reserved

5.4 LEE 700 series (library DMX value 39-39)

Value 8-bit	Gel number	Name
0 – 1	700	Perfect Lavender
2 – 3	701	Provence
4 – 5	702	Special Pale Lavender
6 – 7	703	Cold Lavender
8 – 9	704	Lily
10 – 11	706	King Fals Lavender
12 – 13	708	Cool Lavender
14 – 15	709	Electric Lilac

16 – 17	710	Spir Special Blue
18 – 19	711	Cold Blue
20 – 21	712	Bedford Blue
22 – 23	714	Elysian Blue
24 – 25	715	Cabana Blue
26 – 27	716	Mikkel Blue
28 – 29	719	Colour Wash Blue
30 – 31	721	Berry Blue
32 – 33	723	Virgin Blue
34 – 35	724	Ocean Blue
36 – 37	725	Old Steel Blue
38 – 39	728	Steel Green
40 – 41	730	Liberty Green
42 – 43	731	Dirty Ice
44 – 45	733	Damp Squib
46 – 47	738	JAS Green
48 – 49	742	Bram Brown
50 – 51	744	Dirty White
52 – 53	746	Brown
54 – 55	747	Easy White
56 – 57	748	Seedy Pink
58 – 59	763	Wheat
60 – 61	764	Sun Colour Straw
62 – 63	765	LEE Yellow
64 – 65	773	Cardbox Amber
66 – 67	776	Nectarine
68 – 69	778	Millenium Gold
70 – 71	779	Bastard Pink

72 – 73	781	Terry Red
74 – 75	789	Blood Red
76 – 77	790	Moroccan Pink
78 – 79	794	Pretty 'N Pink
80 – 81	795	Magical Magenta
82-255		Reserved

5.5 LEE Color correction (library DMX value40-49)

Value 8-bit	Gel number	Name
0 – 1	200	Double CTB
2 – 3	201	Full CTB
4 – 5	281	3/4 CTB
6 – 7	202	1/2 CTB
8 – 9	203	1/4 CTB
10 – 11	218	1/8 CTB
12 – 13	287	Double CTO
14 – 15	204	Full CTO
16 – 17	285	3/4 CTO
18 – 19	205	1/2 CTO
20 – 21	206	1/4 CTO
22 – 23	223	1/8 CTO
24 – 25	283	1 1/2 CTB
26 – 27	286	1 1/2 CTO
28 – 29	441	Full CTS
30 – 31	442	1/2 CTS
32 – 33	443	1/4 CTS
34 – 35	444	1/8 CTS
36 – 37	207	CTO + 0.3 ND

38 – 39	208	CTO + 0.6 ND
40 – 41	212	LCT Yellow (Y1)
42 – 43	213	White Flame Green
44 – 45	219	LEE Fluorescent Green
46 – 47	230	SC LCT Yellow
48 – 49	232	SC WF Green
50 – 51	236	H.M.I (to Tungsten)
52 – 53	237	C.I.D (to Tungsten)
54 – 55	238	C.S.I (to Tungsten)
56 – 57	241	LEE Fluoro 5700K
58 – 59	242	LEE Fluoro 4300K
60 – 61	243	LEE Fluoro 3600K
62 – 63	244	LEE Plus Green
64 – 65	245	1/2 Plus Green
66 – 67	246	1/4 Plus Green
68 – 69	278	1/8 Plus Green
70 – 71	247	LEE Minus Green
72 – 73	248	1/2 Minus Green
74 – 75	249	1/4 Minus Green
76 – 77	279	1/8 Minus Green
78 – 255		Reserved

5.6 Rosco cinelux (library DMX value50-59)

Value 8-bit	Gel number	Name
0 – 1	2	Bastard Amber
2 – 3	302	Pale Bastard Amber
4 – 5	6	No Color Straw
6 – 7	8	Pale Gold

8 – 9	310	Daffodil
10 – 11	12	Straw
12 – 13	16	Light Amber
14 – 15	316	Gallo Gold
16 – 17	17	Light Flame
18 – 19	18	Flame
20 – 21	318	Mayan Sun
22 – 23	21	Golden Amber
24 – 25	321	Soft Golden Amber
26 – 27	23	Orange
28 – 29	325	Henna Sky
30 – 31	26	Light Red
32 – 33	33	No Color Pink
34 – 35	333	Blush Pink
36 – 37	34	Flesh Pink
38 – 39	37	Pale Rose Pink
40 – 41	41	Salmon
42 – 43	42	Deep Salmon
44 – 45	44	Middle Rose
46 – 47	47	Light Rose Purple
48 – 49	51	Surprise Pink
50 – 51	60	No Color Blue
52 – 53	360	Clearwater
54 – 55	62	Booster Blue
56 – 57	362	Tipton Blue
58 – 59	364	Blue Bell
60 – 61	65	Daylight Blue
62 – 63	365	Tharon Delft Blue

64 – 65	375	Cerulean Blue
66 – 67	376	Bermuda Blue
68 – 69	77	Green Blue
70 – 71	378	Alice Blue
72 – 73	80	Primary Blue
74 – 75	381	Baldassari Blue
76 – 77	83	Medium Blue
78 – 79	87	Pale Yellow Green
80 – 81	88	Light Green
82 – 83	89	Moss Green
84 – 85	91	Primary Green
86 – 87	92	Turquoise
88 – 89	93	Blue Green
90 – 91	99	Chocolate
92 – 255		Reserved

5.7 Rosco CalColor (library DMX value60-69)

Value 8-bit	Gel number	Name
0 – 1	4215	15 Blue
2 – 3	4230	30 Blue
4 – 5	4260	60 Blue
6 – 7	4290	90 Blue
8 – 9	4307	7.5 Cyan
10 – 11	4315	15 Cyan
12 – 13	4330	30 Cyan
14 – 15	4360	60 Cyan
16 – 17	4390	90 Cyan
18 – 19	4415	15 Green

20 - 21	4430	30 Green
22 - 23	4460	60 Green
24 - 25	4490	90 Green
26 - 27	4515	15 Yellow
28 - 29	4530	30 Yellow
30 - 31	4560	60 Yellow
32 - 33	4590	90 Yellow
34 - 35	4615	15 Red
36 - 37	4630	30 Red
38 - 39	4660	60 Red
40 - 41	4690	90 Red
42 - 43	4715	15 Magenta
44 - 45	4730	30 Magenta
46 - 47	4760	60 Magenta
48 - 49	4790	90 Magenta
50 - 51	4815	15 Pink
52 - 53	4830	30 Pink
54 - 55	4860	60 Pink
56 - 57	4890	90 Pink
58 - 59	4915	15 Lavender
60 - 61	4930	30 Lavender
62 - 63	4960	60 Lavender
64 - 65	4990	90 Lavender
66 - 255		Reserved

5.8 Rosco Storaro (library DMX value70-79)

Value 8-bit	Gel number	Name
0 - 1	2001	Store Aero Red

2 – 3	2002	Store Aero Orange
4 – 5	2003	Store Aero Yellow
6 – 7	2004	Store Aero Green
8 – 9	2005	Store Aero Cyan
10 – 11	2006	Store Aero Azure
12 – 13	2007	Store Aero Blue
14 – 15	2008	Store Aero Indigo
16 – 17	2009	Store Aero Violet
18 – 19	2010	Store Aero Magenta
20 – 255		Reserved

5.9 Rosco color correctio (library DMX value80-89)

Value 8-bit	Gel number	Name
0 – 1	3202	Full CTB
2 – 3	3203	3/4 CTB
4 – 5	3204	1/2 CTB
6 – 7	3206	1/3 CTB
8 – 9	3208	1/4 CTB
10 – 11	3216	1/8 CTB
12 – 13	3220	Double CTB
14 – 15	3407	Full CTO
16 – 17	3411	3/4 CTO
18 – 19	3408	1/2 CTO
20 – 21	3409	1/4 CTO
22 – 23	3410	1/8 CTO
24 – 25	3420	Double CTO
26 – 27	3441	Full CTS
28 – 29	3442	1/2 CTS

30 - 31	3443	1/4 CTS
32 - 33	3444	1/8 CTS
34 - 35	3304	Full Plusgreen
36 - 37	3315	1/2 Plusgreen
38 - 39	3316	1/4 Plusgreen
40 - 41	3317	1/8 Plusgreen
42 - 43	3308	Full Minusgreen
44 - 45	3309	3/4 Minusgreen
46 - 47	3313	1/2 Minusgreen
48 - 49	3314	1/4 Minusgreen
50 - 51	3318	1/8 Minusgreen
52 - 53	3310	Fluorofilter
54 - 55	3150	Industrial Vapor
56 - 57	3152	Urban Vapor
58 - 59	3107	Tough Y - 1
60 - 61	3134	Tough MT54
62 - 63	3106	Tough MTY
64 - 65	3102	Tough MT2
66 - 255		Reserved