

DMX profiles L1600D

Summary: DMX profiles for Profoto L1600D with firmware version A7 or later

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1. Introduction

1.1 Purpose and scope

This document describes the DMX profiles including Gels and Effects supported by Profoto L1600D.

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 Dimmer

Control of the intensity of the video light. 0 = light off.

Channel		Value	Function	
1		0-255	Light Intensity	0-100%

3.2 P02 - 16 bit Dimmer

Smooth control of the intensity of the video light. 0 = light off.

Channel		Value	Function	
1 HI	2 LO	0-65535	Light Intensity	0-100%

3.3 P03 - 8 bit Dimmer with Device Control

Control of the intensity of the video light. 0 = light off.

Channel		Value	Function	
1		0-255	Light Intensity	0-100%
2		0-255	Fan control	See device control section
3		0-255	Device configuration	See device control section

3.4 P04 - 16 bit Dimmer with Device Control

Smooth control of the intensity of the video light. 0 = light off.

Channel		Value	Function	
1 HI	2 LO	0-65535	Light Intensity	0-100%
3		0-255	Fan control	See device control section
4		0-255	Device configuration	See device control section

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	0-255	Profile select	0-4: P01: 8-bit Dimmer 5-9: P02: 16-bit Dimmer 10-14: P03: 8-bit Dimmer with Device Control 15-19: P04: 16-bit Dimmer with Device Control 20-255: 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
			n/a
			3 seconds