

5 Piece

RGB LED light controller quick reference

RDM control and Tables

The 5 Piece controller is fully RDM compliant. Channel settings are accessed using the RDM parameters below.

RDM Product Parameters IDs

Model ID	Manufacturer	Model	Product Category
BrightBeats Five Piece	BrightBeats, LLC	5	DIMMER CS LED

RDM UID

UID					
0x20	0xC1	0x--	0x--	0x--	0x--

Manufacturer Specific PID's

Get Allowed	Set Allowed	Parameter ID (Hexadecimal)	Min Value (Decimal)	Max Value (Decimal)	Default Value (Decimal)	Description
YES	YES	8000	0	1023	870	CH1 Input Gain
YES	YES	8001	0	1023	870	CH2 Input Gain
YES	YES	8002	0	1023	870	CH3 Input Gain
YES	YES	8003	0	1023	870	CH4 Input Gain
YES	YES	8004	0	1023	870	CH5 Input Gain
YES	YES	8005	0	100	80	CH1 Fade Speed
YES	YES	8006	0	100	80	CH2 Fade Speed
YES	YES	8007	0	100	80	CH3 Fade Speed
YES	YES	8008	0	100	80	CH4 Fade Speed
YES	YES	8009	0	100	80	CH5 Fade Speed
YES	YES	800A	10	1280	10	CH1 Hold Time
YES	YES	800B	10	1280	10	CH2 Hold Time
YES	YES	800C	10	1280	10	CH3 Hold Time
YES	YES	800D	10	1280	10	CH4 Hold Time
YES	YES	800E	10	1280	10	CH5 Hold Time
YES	YES	800F	3	100	30	LED PWM Rate

Channel Input Gain

Trigger sensitivity setting. Setting this to zero disables the trigger input.

Channel Fade Speed

This sets how fast the LED's fade out AFTER the hold time setting expires.

Channel Hold Time

This sets how long the LED's will remain lit after a strike is detected. If the fade is enabled on the channel it will start to fade out AFTER this timer expires.

LED Refresh Rate info

The LED refresh rate can be calculated with the following formula (round to the nearest):

$$\text{Refresh Rate(Hz)} = \frac{25000000}{4096 * (\text{PWM Rate Setting} + 1)}$$

The maximum PWM frequency is 1526 Hz when the setting is set to 3.

The minimum PWM frequency is 60 Hz when the setting is set to 100.

Default setting of 30 gives a 200 Hz refresh rate.