

RDM

RDM MANAGEMENT

DMX address settings

Two classes of management are foreseen in the Odeon product family: 4 and 7 channels which are the types that can be selected. The address selection and the management occurs by means of the RDM protocol. According to the channels assigned to a product it is established how many products can be addressed in a single mode on a DMX universe (512 channels), so we will have:

- 4 channels = 128 useful addresses
- 7 channels = 73 useful addresses

Writing commands to set up on the RDM set control window:

The default command to be used is **06** which is composed of:

06 = command

00 = first (fixed at 00)

XY = second group of values where:

- X=0 PWM 8 bit resolution – linear curve
- X=4 PWM 16 bit resolution –linear curve
- X=6 PWM 16 bit mode – square curve
- Y=4 mode with 7 channels working mode enabled
- Y=8 mode with 4 channels working mode enabled

If we want to set up the product to operate only in four channels mode, PWM 16 bit and square mode we will set the command: 060068

NOTE: it is necessary to save and restart the product after the change of any settings/ parameter.

Reading Commands to set up on the RDM GET control window of ENTTEC:

With the command **06** it is possible to verify the value of the command written in a previous step.

MANAGEMENT OF THE PARAMETER PWM DIMMING LED DRIVER

It is possible to setup the frequency of the PWM signal at the inlet of the led driver at 1 KHZ

Writing commands to set up on the RDM SET control window:

The command to be used is **02** so composed:

02 = command

XX = first value

YY = second value

So for a PWM frequency of 300 HZ we will set up the value 0201C8

NOTE: it is necessary to save and restart the product after the change of any settings/ parameter.

Readings command to set up on the RDM GET control:

With the command **02** it is possible to check the value of the command written in a previous step.

DMX CHANNELS

N°	4 CHANNELS MODE	7 CHANNELS MODE
1	RED	RED
2	GREEN	GREEN
3	BLUE	BLUE
4	WHITE	WHITE
5	-	RANDOM STROBE
6	-	DIMMER
7	-	CTO

4 Channels mode	DMX Value	Function
1		RED
	0 - 255	Red colour linearly increase from no-light to maximum intensity
2		GREEN
	0 - 255	Green colour linearly increase from no-light to maximum intensity
3		BLUE
	0 - 255	Blue colour linearly increase from no-light to maximum intensity
4		WHITE
	0 - 255	White colour linearly increase from no-light to maximum intensity

7 Channels mode	DMX Value	Function
1		RED
	0 - 255	Red colour linearly increase from no-light to maximum intensity
2		GREEN
	0 - 255	Green colour linearly increase from no-light to maximum intensity
3		BLUE
	0 - 255	Blue colour linearly increase from no-light to maximum intensity
4		WHITE
	0 - 255	White colour linearly increase from no-light to maximum intensity
5		RANDOM STROBE
	0 - 7	Light Off
	8 - 15	Light ON
	15 - 151	Strobe at linearly variable frequency from low to fast
	152 - 159	Open Slow Pulsation
	160 - 167	Open Medium Pulsation
	168 - 175	Open Fast Pulsation
	176 - 183	Closed Slow Pulsation
	184 - 191	Closed Medium Pulsation
	191 - 199	Closed Fast Pulsation
	200 - 207	Random Slow Strobe
	208 - 215	Random Medium Strobe
	216 - 223	Random Fast Strobe
224 - 255	Light ON	
6		DIMMER
	0 - 255	Light output linearly increase from off to maximum brightness
7		CTO
	0 - 255	Colour Temperature Control linearly decrease from 7000K to 2700K <ul style="list-style-type: none"> • 0: 7000K • 255: 2700K