

cielux

DMX Mapping

Firmware Version

- P3 Series - V2.0 or newer

- P5 Series - V2.0 or newer

Table of Contents	Page
DMX Modes	2
RDM Commands	24

DMX Modes

Standard Modes

Mode	8-bit (DMX Footprint)	16-bit (DMX Footprint)	Page
CCT	Mode 1 (6)	Mode 9 (10)	4
HSI*	Mode 2 (6)	Mode 10 (10)	5
RGBW*	Mode 3 (8)	Mode 11 (14)	6
CIExy	Mode 6 (6)	Mode 14 (10)	7
GEL	Mode 7 (6)	Mode 15 (8)	8
RGB*	Mode 40 (6)	Mode 45 (9)	9

CCT Modes

CCT modes allow white point adjustment using the “CCT” and “Green Adjust” parameters.

CCTHSI**	Mode 4 (9)	Mode 12 (16)	10
CCTRGBW**	Mode 5 (11)	Mode 13 (20)	11
CCTxy***	Mode 41 (9)	Mode 46 (15)	12

ICT Modes

ICT modes allow white point adjustment like CCT+ modes, but without a “Crossfade” parameter.

ICTHS**	Mode 42 (9)	Mode 47 (14)	13
ICTRGBW**	Mode 43 (11)	Mode 48 (18)	14
ICTxy***	Mode 44 (9)	Mode 49 (14)	15

EZ Modes

EZ modes do not include “Fan Setting”, “Dimming Setting”, or “Strobe Frequency” parameters, shortening the DMX footprint.

EZ CCT	Mode 50 (3)	Mode 63 (6)	16
EZ HSI*	Mode 51 (3)	Mode 64 (6)	16
EZ RGBW*	Mode 52 (5)	Mode 65 (10)	16
EZ CIExy	Mode 55 (3)	Mode 68 (6)	17
EZ CCTHSI**	Mode 53 (6)	Mode 66 (12)	17
EZ CCTRGBW**	Mode 54 (8)	Mode 67 (16)	17
EZ CCTxy***	Mode 57 (6)	Mode 70 (12)	18
EZ ICTHS**	Mode 58 (5)	Mode 71 (10)	18
EZ ICTRGBW**	Mode 59 (7)	Mode 72 (14)	18
EZ ICTxy***	Mode 60 (5)	Mode 73 (10)	19
EZ RGB*	Mode 56 (3)	Mode 69 (6)	19
EZ 3200K	Mode 61 (1)	Mode 74 (2)	19
EZ 5600K	Mode 62 (1)	Mode 75 (2)	19

ALL Modes

Mode	8-bit (DMX Footprint)	16-bit (DMX Footprint)	Page
ALL MODES	Mode 76 (12)	Mode 77 (20)	<u>20</u>

Notes

- * HSI, RGBW and RGB modes are based on a white point of 6500K. For instance, in HSI mode, when "Saturation"=0%, the fixture produces 6500K white.
- ** In CCTHSI, CCTRGBW, ICTHS and ICTRGBW modes, the white point is determined and can be adjusted by the "CCT" and "Green Adjust" parameters. This applies at any "Crossfade " value in CCTHSI and CCTRGBW modes. The following scenarios illustrate how white point is determined by the "CCT" parameter, given all other parameters being the same.
 - Scenario 1:** In CCTRGBW modes, the following settings produce the 3200K white. Notice that the white remains the same regardless of the "Crossfade" parameter.
CCT=3200K, Xfade=0% &
CCT=3200K, Xfade=100%, W=100% &
CCT=3200K, Xfade=100%, RGB=100% &
CCT=3200K, Xfade=100, RGBW=100%
 - Scenario 2:** In CCTHSI modes, the following settings produce 2800K and 5600K white respectively. Notice that "CCT" is the only differentiating parameter, even when "Crossfade"=100%.
(2800K white) CCT=2800K, Xfade=100%, Sat=0%
(5600K white) CCT=5600K, Xfade=100%, Sat=0%
 - Scenario 3:** In ICTRGBW modes, the following settings produce 3200K and 6500K white respectively. Notice that the "CCT" is the only differentiating parameter.
(3200K output) CCT=3200K, RGBW=100%
(5600K output) CCT=6500K, RGBW=100%
- *** In CCTxy and ICTxy modes, the "CCT" and "Green Adjust" parameters allow slight adjustment of the color temperature and tint for the selected "CIEx" and "CIEy" coordinates. To produce an output true to the CIEx and CIEy coordinates, set "CCT"=6500K and "Green Adjust"=0

Mode 1 (8-bit) / Mode 9 (16-bit) : CCT

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7	Fan Setting	0 - 9 10 - 69 70 - 129 130 - 189 190 - 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
5	8	Dimming Setting	0 - 9 10 - 99 100 - 255		Use current setting in fixture Sharp dimming Smooth dimming
6	9	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz
-	10	Reserved	TBD		

Mode 2 (8-bit) / Mode 10 (16-bit) : HSI

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	Hue	0 - 255	0 - 65,535	0° - 360°
3	5-6	Saturation	0 - 255	0 - 65,535	0% - 100%
4	7	Fan Setting	0 - 9 10 - 69 70 - 129 130 - 189 190 - 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
5	8	Dimming Setting	0 - 9 10 - 99 100 - 255		Use current setting in fixture Sharp dimming Smooth dimming
6	9	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz
-	10	Reserved	TBD		

Mode 3 (8-bit) / Mode 11 (16-bit) : RGBW

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	Intensity Red	0 - 255	0 - 65,535	0% - 100%
3	5-6	Intensity Green	0 - 255	0 - 65,535	0% - 100%
4	7-8	Intensity Blue	0 - 255	0 - 65,535	0% - 100%
5	9-10	Intensity White	0 - 255	0 - 65,535	0% - 100%
6	11	Fan Setting	0 - 9 10 - 69 70 - 129 130 - 189 190 - 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
7	12	Dimming Setting	0 - 9 10 - 99 100 - 255		Use current setting in fixture Sharp dimming Smooth dimming
8	13	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz
-	14	Reserved	TBD		

Mode 6 (8-bit) / Mode 14 (16-bit) : CIExy

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	x	0 - 255	0 - 65,535	0.0 - 0.8
3	5-6	y	0 - 255	0 - 65,535	0.0 - 0.8
4	7	Fan Setting	0 - 9 10 - 69 70 - 129 130 - 189 190 - 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
5	8	Dimming Setting	0 - 9 10 - 99 100 - 255		Use current setting in fixture Sharp dimming Smooth dimming
6	9	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz
-	10	Reserved	TBD		

Mode 7 (8-bit) / Mode 15 (16-bit) : GEL

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3	Gel Filter	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 119 120 - 129 130 - 139 140 - 149 150 - 159 160 - 169 170 - 179 180 - 189 190 - 199 200 - 209 210 - 255	None Bastard Amber Straw Light Amber Light Flame Golden Amber Light Red No Color Pink Middle Rose Light Rose Purple Surprise Pink No Color Blue Daylight Blue Primary Blue Moss Green Blue Green Gel 1 Gel 2 Gel 3 Gel 4 Gel 5 Reserved	
3	4	CCT (Disabled for Gel 1-5)	0 - 99 100 - 255	3200K 6500K	
4	5	Fan Setting	0 - 9 10 - 69 70 - 129 130 - 189 190 - 255	Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)	
5	6	Dimming Setting	0 - 9 10 - 99 100 - 255	Use current setting in fixture Sharp dimming Smooth dimming	
6	7	Strobe Frequency	0 - 9 10 - 255	Strobe off 1Hz - 25Hz	
-	8	Reserved	TBD		

Mode 40 (8-bit) / Mode 45 (16-bit) : RGB

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Intensity Red	0 - 255	0 - 65,535	0% - 100%
2	3-4	Intensity Green	0 - 255	0 - 65,535	0% - 100%
3	5-6	Intensity Blue	0 - 255	0 - 65,535	0% - 100%
4	7	Fan Setting	0 - 9 10 - 69 70 - 129 130 - 189 190 - 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
5	8	Dimming Setting	0 - 9 10 - 99 100 - 255		Use current setting in fixture Sharp dimming Smooth dimming
6	9	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz

Mode 4 (8-bit) / Mode 12 (16-bit) : CCTHSI

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Crossfade	0 - 255	0 - 65,535	0% - 100%
5	9-10	Hue	0 - 255	0 - 65,535	0° - 360°
6	11-12	Saturation	0 - 255	0 - 65,535	0% - 100%
7	13	Fan Setting	0 - 9 10 - 69 70 - 129 130 - 189 190 - 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
8	14	Dimming Setting	0 - 9 10 - 99 100 - 255		Use current setting in fixture Sharp dimming Smooth dimming
9	15	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz
-	16	Reserved	TBD		

Mode 5 (8-bit) / Mode 13 (16-bit) : CCTRGBW

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Crossfade	0 - 255	0 - 65,535	0% - 100%
5	9-10	Intensity Red	0 - 255	0 - 65,535	0% - 100%
6	11-12	Intensity Green	0 - 255	0 - 65,535	0% - 100%
7	13-14	Intensity Blue	0 - 255	0 - 65,535	0% - 100%
8	15-16	Intensity White	0 - 255	0 - 65,535	0% - 100%
9	17	Fan Setting	0 - 9 10 - 69 70 - 129 130 - 189 190 - 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
10	18	Dimming Setting	0 - 9 10 - 99 100 - 255		Use current setting in fixture Sharp dimming Smooth dimming
11	19	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz
-	20	Reserved	TBD		

Mode 41 (8-bit) / Mode 46 (16-bit) : CCTxy

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Crossfade	0 - 255	0 - 65,535	0% - 100%
5	9-10	x	0 - 255	0 - 65,535	0.0 - 0.8
6	11-12	y	0 - 255	0 - 65,535	0.0 - 0.8
7	13	Fan Setting	0 - 9 10 - 69 70 - 129 130 - 189 190 - 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
8	14	Dimming Setting	0 - 9 10 - 99 100 - 255		Use current setting in fixture Sharp dimming Smooth dimming
9	15	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz

Mode 42 (8-bit) / Mode 47 (16-bit) : ICTHS

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Hue	0 - 255	0 - 65,535	0° - 360°
5	9-10	Saturation	0 - 255	0 - 65,535	0% - 100%
6	11	Reserved	TBD		
7	12	Fan Setting	0 - 9 10 - 69 70 - 129 130 - 189 190 - 255	Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)	
8	13	Dimming Setting	0 - 9 10 - 99 100 - 255	Use current setting in fixture Sharp dimming Smooth dimming	
9	14	Strobe Frequency	0 - 9 10 - 255	Strobe off 1Hz - 25Hz	

Mode 43 (8-bit) / Mode 48 (16-bit) : ICTRGBW

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Intensity Red	0 - 255	0 - 65,535	0% - 100%
5	9-10	Intensity Green	0 - 255	0 - 65,535	0% - 100%
6	11-12	Intensity Blue	0 - 255	0 - 65,535	0% - 100%
7	13-14	Intensity White	0 - 255	0 - 65,535	0% - 100%
8	15	Reserved	TBD		
9	16	Fan Setting	0 - 9 10 - 69 70 - 129 130 - 189 190 - 255	Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)	
10	17	Dimming Setting	0 - 9 10 - 99 100 - 255	Use current setting in fixture Sharp dimming Smooth dimming	
11	18	Strobe Frequency	0 - 9 10 - 255	Strobe off 1Hz - 25Hz	

Mode 44 (8-bit) / Mode 49 (16-bit) : ICTxy

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	x	0 - 255	0 - 65,535	0.0 - 0.8
5	9-10	y	0 - 255	0 - 65,535	0.0 - 0.8
6	11	Reserved	TBD		
7	12	Fan Setting	0 - 9 10 - 69 70 - 129 130 - 189 190 - 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
8	13	Dimming Setting	0 - 9 10 - 99 100 - 255		Use current setting in fixture Sharp dimming Smooth dimming
9	14	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz

Mode 50 (8-bit) / Mode 63 (16-bit) : EZ CCT

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)

Mode 51 (8-bit) / Mode 64 (16-bit) : EZ HSI

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	Hue	0 - 255	0 - 65,535	0° - 360°
3	5-6	Saturation	0 - 255	0 - 65,535	0% - 100%

Mode 52 (8-bit) / Mode 65 (16-bit) : EZ RGBW

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	Intensity Red	0 - 255	0 - 65,535	0% - 100%
3	5-6	Intensity Green	0 - 255	0 - 65,535	0% - 100%
4	7-8	Intensity Blue	0 - 255	0 - 65,535	0% - 100%
5	9-10	Intensity White	0 - 255	0 - 65,535	0% - 100%

Mode 55 (8-bit) / Mode 68 (16-bit) : EZ CIExy

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	x	0 - 255	0 - 65,535	0.0 - 0.8
3	5-6	y	0 - 255	0 - 65,535	0.0 - 0.8

Mode 53 (8-bit) / Mode 66 (16-bit) : EZ CCTHSI

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Crossfade	0 - 255	0 - 65,535	0% - 100%
5	9-10	Hue	0 - 255	0 - 65,535	0° - 360°
6	11-12	Saturation	0 - 255	0 - 65,535	0% - 100%

Mode 54 (8-bit) / Mode 67 (16-bit) : EZ CCTRGBW

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Crossfade	0 - 255	0 - 65,535	0% - 100%
5	9-10	Intensity Red	0 - 255	0 - 65,535	0% - 100%
6	11-12	Intensity Green	0 - 255	0 - 65,535	0% - 100%
7	13-14	Intensity Blue	0 - 255	0 - 65,535	0% - 100%
8	15-16	Intensity White	0 - 255	0 - 65,535	0% - 100%

Mode 57 (8-bit) / Mode 70 (16-bit) : EZ CCTxy

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Crossfade	0 - 255	0 - 65,535	0% - 100%
5	9-10	x	0 - 255	0 - 65,535	0.0 - 0.8
6	11-12	y	0 - 255	0 - 65,535	0.0 - 0.8

Mode 58 (8-bit) / Mode 71 (16-bit) : EZ ICTHS

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Hue	0 - 255	0 - 65,535	0° - 360°
5	9-10	Saturation	0 - 255	0 - 65,535	0% - 100%

Mode 59 (8-bit) / Mode 72 (16-bit) : EZ ICTRGBW

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	Intensity Red	0 - 255	0 - 65,535	0% - 100%
5	9-10	Intensity Green	0 - 255	0 - 65,535	0% - 100%
6	11-12	Intensity Blue	0 - 255	0 - 65,535	0% - 100%
7	13-14	Intensity White	0 - 255	0 - 65,535	0% - 100%

Mode 60 (8-bit) / Mode 73 (16-bit) : EZ ICTxy

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3-4	CCT	0 - 255	0 - 65,535	2000K - 10000K
3	5-6	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
4	7-8	x	0 - 255	0 - 65,535	0.0 - 0.8
5	9-10	y	0 - 255	0 - 65,535	0.0 - 0.8

Mode 56 (8-bit) / Mode 69 (16-bit) : EZ RGB

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Intensity Red	0 - 255	0 - 65,535	0% - 100%
2	3-4	Intensity Green	0 - 255	0 - 65,535	0% - 100%
3	5-6	Intensity Blue	0 - 255	0 - 65,535	0% - 100%

Mode 61 (8-bit) / Mode 74 (16-bit) : EZ 3200K

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%

Mode 62 (8-bit) / Mode 75 (16-bit) : EZ 5600K

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%

Mode 76 (8-bit) / Mode 77 (16-bit) : ALL MODES

8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range
1	1-2	Master Intensity	0 - 255	0 - 65,535	0% - 100%
2	3	Color Mode Selection	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109 110 - 119 120 - 129 130 - 255		CCT HSI RGBW CCTHSI CCTRGBW CIExy GEL DEMO RGB CCTxy ICTHS ICTRGBW ICTxy Reserved
3	4-5	Color Parameter 1	See table below		
4	6-7	Color Parameter 2			
5	8-9	Color Parameter 3			
6	10-11	Color Parameter 4			
7	12-13	Color Parameter 5			
8	14-15	Color Parameter 6			
9	16-17	Color Parameter 7			
10	18	Fan Setting	0 - 9 10 - 69 70 - 129 130 - 189 190 - 255		Use current setting in fixture Silent (Fan speed fixed) Auto (Fan speed variable) Fan full speed (Fan speed fixed) Fan off (Fan is off)
11	19	Dimming Setting	0 - 9 10 - 99 100 - 255		Use current setting in fixture Sharp dimming Smooth dimming
12	20	Strobe Frequency	0 - 9 10 - 255		Strobe off 1Hz - 25Hz

Mode 76 (8-bit) / Mode 77 (16-bit) : ALL MODES (continued 1)

		CCT				HSI			
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range	Function	8-bit/16-bit Value		Range
3	4-5	CCT	0 - 255	0 - 65,535	2000K - 10000K	Hue	0 - 255	0 - 65,535	0° - 360°
4	6-7	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)	Saturation	0 - 255	0 - 65,535	0% - 100%
		RGBW				RGB			
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range	Function	8-bit/16-bit Value		Range
3	4-5	INT Red	0 - 255	0 - 65,535	0% - 100%	INT Red	0 - 255	0 - 65,535	0% - 100%
4	6-7	INT Green	0 - 255	0 - 65,535	0% - 100%	INT Green	0 - 255	0 - 65,535	0% - 100%
5	8-9	INT Blue	0 - 255	0 - 65,535	0% - 100%	INT Blue	0 - 255	0 - 65,535	0% - 100%
6	10-11	INT White	0 - 255	0 - 65,535	0% - 100%				
		CCTRGBW				CCTHSI			
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range	Function	8-bit/16-bit Value		Range
3	4-5	CCT	0 - 255	0 - 65,535	2000K - 10000K	CCT	0 - 255	0 - 65,535	2000K - 10000K
4	6-7	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
5	8-9	Crossfade	0 - 255	0 - 65,535	0% - 100%	Crossfade	0 - 255	0 - 65,535	0% - 100%
6	10-11	INT Red	0 - 255	0 - 65,535	0% - 100%	Hue	0 - 255	0 - 65,535	0° - 360°
7	12-13	INT Green	0 - 255	0 - 65,535	0% - 100%	Saturation	0 - 255	0 - 65,535	0% - 100%
8	14-15	INT Blue	0 - 255	0 - 65,535	0% - 100%				
9	16-17	INT White	0 - 255	0 - 65,535	0% - 100%				
		CCTxy				ICTHS			
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range	Function	8-bit/16-bit Value		Range
3	4-5	CCT	0 - 255	0 - 65,535	2000K - 10000K	CCT	0 - 255	0 - 65,535	2000K - 10000K
4	6-7	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65,535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
5	8-9	Crossfade	0 - 255	0 - 65,535	0% - 100%	Hue	0 - 255	0 - 65,535	0° - 360°
6	10-11	x	0 - 255	0 - 65,535	0.0 - 0.8	Saturation	0 - 255	0 - 65,535	0% - 100%
7	12-13	y	0 - 255	0 - 65,535	0.0 - 0.8	Reserved	TBD		

		GEL			DEMO				
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range	Function	8-bit/16-bit Value		Range
3	4-5	Gel Filter	0 - 9		None	Demo Selection	0 - 9		No effect(Stop Effect)
			10 - 19		Bastard Amber		10 - 19		Candle
			20 - 29		Straw		20 - 29		Club light
			30 - 39		Light Amber		30 - 39		Color chase
			40 - 49		Light Flame		40 - 49		Cop car
			50 - 59		Golden Amber		50 - 59		Fireworks
			60 - 69		Light Red		60 - 69		Lightning
			70 - 79		No Color Pink		70 - 79		Paparazzi
			80 - 89		Middle Rose		80 - 89		Strobe
			90 - 99		Light Rose Purple		90 - 99		Television
			100 - 109		Surprise Pink		100 - 109		Circular
			110 - 119		No Color Blue		110 - 119		(Only for PIX mode)
			120 - 129		Daylight Blue		120 - 129		Vertical
			130 - 139		Primary Blue		130 - 139		(Only for PIX mode)
			140 - 149		Moss Green		140 - 255		Horizontal
			150 - 159		Blue Green				(Only for PIX mode)
			160 - 169		Gel 1				Diagonal
170 - 179		Gel 2			(Only for PIX mode)				
180 - 189		Gel 3			Reserved for future use				
190 - 199		Gel 4							
200 - 209		Gel 5							
210 - 255		Reserved							
4	5-6	CCT	0 - 99		3200K				
			100 - 255		6500K				
		ICTRGBW			ICTxy				
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range	Function	8-bit/16-bit Value		Range
3	4-5	CCT	0 - 255	0 - 65, 535	2000K - 10000K	CCT	0 - 255	0 - 65, 535	2000K - 10000K
4	6-7	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)	Green Adjust	0 - 9 10 - 255	0 - 9 10 - 65, 535	Neutral (0) Full magenta ~ Full green (-1.0 ~ +1.0)
5	8-9	INT Red	0 - 255	0 - 65, 535	0% - 100%	x	0 - 255	0 - 65, 535	0.0 - 0.8
6	10-11	INT Green	0 - 255	0 - 65, 535	0% - 100%	y	0 - 255	0 - 65, 535	0.0 - 0.8
7	12-13	INT Blue	0 - 255	0 - 65, 535	0% - 100%	Reserved	TBD		
8	14-15	INT White	0 - 255	0 - 65, 535	0% - 100%				
9	-	Reserved	TBD						
		CIExy							
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value		Range				
3	4-5	x	0 - 255	0 - 65, 535	0.0 - 0.8				
4	6-7	y	0 - 255	0 - 65, 535	0.0 - 0.8				

Mode 76 (8-bit) / Mode 77 (16-bit) : ALL MODES (continued 2)

		Candle			Fireworks			Television		
8-bit DMX	16-bit DMX	Function	8-bit/16-bit Value	Range	Function	8-bit/16-bit Value	Range	Function	8-bit/16-bit Value	Range
4	6-7	Color	0 - 9 10 - 19 20 - 29	Warmer Neutral Cooler	Color	0 - 9 10 - 19 20 - 29	Color White Color + White	Mode	0 - 9 10 - 19 20 - 29 30 - 39	Action Horror News Romance
5	8-9	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49	Slowest Slower Medium Faster Fastest	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49	Slowest Slower Medium Faster Fastest			
		Club Light			Lightning			Cop Car		
4	6-7	Color	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69	Red Green Blue Cyan Magenta a Yellow All colors	Color	0 - 9 10 - 19 20 - 29	Warmer Neutral Cooler	Color	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 79 80 - 89 90 - 99 100 - 109	B (Blue) R (Red) A (Amber) W (White) RB RA BA BW AW RBW BRA
5	8-9	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49	Slowest Slower Medium Faster Fastest	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49	Slowest Slower Medium Faster Fastest	Flash Pattern	0 - 9 10 - 19 20 - 29 30 - 39	Single Double Quad Quint
		Color Chase			Paparazzi			Strobe		
4	6-7	Saturation	0 - 255/ 0 - 65,535	0% -100%	Color	0 - 9 10 - 19 20 - 29	Warmer Neutral Cooler	Hue	0 - 255/ 0 - 65,535	0 - 360°
5	8-9	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49	Slowest Slower Medium Faster Fastest	Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49	Slowest Slower Medium Faster Fastest	Saturation	0 - 255/ 0 - 65,535	0% - 100%
6	10-11							Speed	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49	Slowest Slower Medium Faster Fastest

RDM Commands

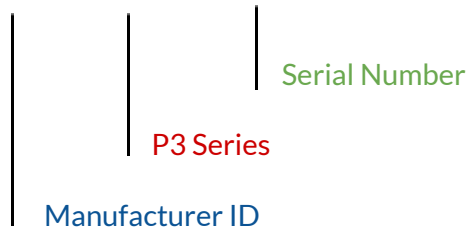
Table of Contents	Page
RDM Identification	25
DMX Personality Identification	26
Network Management	28
Status Collection	28
RDM Information	28
Product Information	28
DMX512 Setu	29
Dimmer Settings RDM E1.37 version (not supported yet)	29
Power/Lamp Settings	29
Control	29
Manufacturer Command	29

RDM Identification

Manufacturer ID	Device Model ID	Device Label Device	Model Name
6124	30	CXP3X / CXP3S / CXP3F	P3 Series
	31	CXP5X / CXP5S / CXP5F	P5 Series

UID Example

612430010002



DMX Personality Identification

Personality Description	Hex	Description [Decimal Data: Mode Description (Footprint)]
1	0x01	1: CCT 8-bit (Footprint 6)
2	0x02	2: HSI 8-bit (Footprint 6)
3	0x03	3: RGBW 8-bit (Footprint 8)
4	0x04	4: CCTHSI 8-bit (Footprint 9)
5	0x05	5: CCTRGBW 8-bit (Footprint 11)
6	0x06	6: CIExy 8-bit (Footprint 6)
7	0x07	7: GEL 8-bit (Footprint 6)
8	0x08	9: CCT 16-bit (Footprint 10)
9	0x09	10: HSI 16-bit (Footprint 10)
10	0x0A	11: RGBW 16-bit (Footprint 14)
11	0x0B	12: CCTHSI 16-bit (Footprint 16)
12	0x0C	13: CCTRGBW 16-bit (Footprint 20)
13	0x0D	14: CIExy 16-bit (Footprint 10)
14	0x0E	15: GEL 16-bit (Footprint 8)
21	0x0F	40: RGB 8-bit (Footprint 6)
22	0x010	41: CCTxy 8-bit (Footprint 9)
23	0x011	42: ICTHS 8-bit (Footprint 9)
24	0x012	43: ICTRGBW 8-bit (Footprint 11)
25	0x013	44: ICTxy 8-bit (Footprint 9)
26	0x014	45: RGB 16-bit (Footprint 9)
27	0x015	46: CCTxy 16-bit (Footprint 15)
28	0x016	47: ICTHS 16-bit (Footprint 14)
29	0x017	48: ICTRGBW 16-bit (Footprint 18)
30	0x018	49: ICTxy 16-bit (Footprint 14)
31	0x019	50: EZ CCT 8-bit (Footprint 3)
32	0x01A	51: EZ HSI 8-bit (Footprint 3)
33	0x01B	52: EZ RGBW 8-bit (Footprint 5)
34	0x01C	53: EZ CCTHSI 8-bit (Footprint 6)
35	0x01D	54: EZ CCTRGBW 8-bit (Footprint 8)
36	0x01E	55: EZ CIExy 8-bit (Footprint 3)
37	0x01F	56: EZ RGB 8-bit (Footprint 3)
38	0x020	57: EZ CCTxy 8-bit (Footprint 6)
39	0x021	58: EZ ICTHS 8-bit (Footprint 5)
40	0x022	59: EZ ICTRGBW 8-bit (Footprint 7)

DMX Personality Identification

Personality Description	Hex	Description [Decimal Data: Mode Description (Footprint)]
41	0x023	60: EZ ICTxy 8-bit (Footprint 5)
42	0x024	61: EZ 3200K 8-bit (Footprint 1)
43	0x025	62: EZ 5600K 8-bit (Footprint 1)
44	0x026	63: EZ CCT 16-bit (Footprint 6)
45	0x027	64: EZ HSI 16-bit (Footprint 6)
46	0x028	65: EZ RGBW 16-bit (Footprint 10)
47	0x029	66: EZ CCTHSI 16-bit (Footprint 12)
48	0x02A	67: EZ CCTRGBW 16-bit (Footprint 16)
49	0x02B	68: EZ CIExy 16-bit (Footprint 6)
50	0x02C	69: EZ RGB 16-bit (Footprint 6)
51	0x02D	70: EZ CCTxy 16-bit (Footprint 12)
52	0x02E	71: EZ ICTHS 16-bit (Footprint 10)
53	0x02F	72: EZ ICTRGBW 16-bit (Footprint 14)
54	0x030	73: EZ ICTxy 16-bit (Footprint 10)
55	0x031	61: EZ 3200K 8-bit (Footprint 1)
56	0x032	75: EZ 5600K 16-bit (Footprint 2)
57	0x033	76: ALL MODES 8-bit (Footprint 12)
58	0x034	77: ALL MODES 16-bit (Footprint 20)

Network Management

Command	PID	Description
DISC UNIQUE BRANCH	0x0001	Devices respond to discovery messages.
DISC MUTE	0x0002	Mute the device.
DISC UNMUTE	0x0003	Unmute the device.

Status Collection (For Art-Net)

Command	PID	Description
QUEUED MESSAGE	0x0020	The QUEUED_MESSAGE parameter shall be used to retrieve a message from the responder's message queue.

RDM Information

Command	PID	Description
SUPPORTED PARAMETERS	0x0050	Support required only if supporting parameters beyond the minimum required set.
PARAMETER DESCRIPTION	0x0051	Retrieves a list of all manufacturer commands (\geq 0x8000).

Product Information

Command	PID	Description
DEVICE INFO	0x0060	This parameter is used to retrieve a variety of information about the device that is normally required by a controller
DEVICE MODEL DESCRIPTION	0x0080	This parameter provides a text description of up to 32 characters for the device model type.
MANUFACTURER LABEL	0x0081	This parameter provides an ASCII text response of up to 32 characters with the Manufacturer name for the device. The Manufacturer name must be consistent between all products manufactured within an ESTA Manufacturer ID.
DEVICE LABEL	0x0082	This parameter provides a means of setting a descriptive label for each device.
SOFTWARE VERSION LABEL	0x00C0	This parameter is used to get a descriptive ASCII text label for the device's operating software version.

DMX512 Setup

Command	PID	Description
DMX PERSONALITY	0x00E0	This parameter is used to set the responder's DMX512 Personality.
DMX PERSONALITY DESCRIPTION	0x00E1	This parameter is used to get a descriptive ASCII text label for a given DMX512 Personality.
DMX START ADDRESS	0x00F0	This parameter is used to set or get the DMX512 start address.

Dimmer Settings (not yet supported) RDM ANSI E1.37 version

Command	PID	Description
CURVE	0x0343	Retrieve or set a dimmer curve. 1 : Linear 2 : Gamma
CURVE DESCRIPTION	0x0344	This parameter is used to get a descriptive ASCII text label for a given curve.

Power/Lamp Settings

Command	PID	Description
DEVICE HOURS	0x0400	This parameter is used to retrieve or set the number of hours of operation the device has been in use.
LAMP HOURS	0x0401	This parameter is used to retrieve the number of lamp hours or to set the counter in the device to a specific starting value.

Control

Command	PID	Description
IDENTIFY DEVICE	0x1000	This parameter is used for the user to physically identify the device represented by the UID.

Manufacturer Command (not yet supported)

Command	PID	Description
WHITE POINT	0x8001	GET/SET Range 2000 ~ 10000 Kelvin Applies to HSI, RGBW and RGB modes
FIILEX_FAN	0x8002	GET/SET 0:Silent, 1:Auto, 2:Full speed, 3:OFF
FIILEX_ERROR	0x8003	GET Fiilex error code
FIILEX_CIEXY	0x8004	GET Format: (X, Y) Range: X: 0~0.8 Y: 0~0.8