



Orion 300 **FS**

**DMX Protocol Specification V4.6**

## Revision history

Date	Changes	Sign
2020-04-21	Added basic DMX mode0. Modified DMX value for fan control. Modified the Preset List.	R&D
2020-06-16	Added Skin Tone Mode.	R&D
2020-06-29	Added ultimate mode effect running control.	R&D
2020-07-22	Fixed several known bugs.	R&D
2020-11-26	Removed Skin Tone Mode.	R&D
2021-01-14	Added mode CCT & RGBW 8bit and 16bit mode.	R&D
2022-04-02	The previously reserved Mode18 & Mode19 are now xy mode. Added xy mode in Ultimate Mode 24 & Mode25.	R&D
2022-10-18	Added CCT and DUV Channels in Mode 1 & Mode 6.	R&D
2022-11-28	Added mode Rec.709 RGB 8bit and 16bit mode.	R&D
2023-01-30	Remove CCT and DUV Channels in Mode 1 & Mode 6. Added mode CCT_RGBW_EXTEND 8bit and 16bit mode	R&D
2023-03-15	Fix slots issue.	R&D
2023-06-01	Rename Mode1 and Mode 6.	R&D

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## Preset Channel

DMX Channel	Value	Percent	Function
<b>Depending on DMX mode</b>	0 ~ 11	0 ~ 4	<b>No Effect</b>
	12 ~ 23	5 ~ 9	Preset 01
	24 ~ 35	10 ~ 14	Preset 02
	36 ~ 47	15 ~ 18	Preset 03
	48 ~ 59	19 ~ 23	Preset 04
	60 ~ 71	24 ~ 28	Preset 05
	72 ~ 83	29 ~ 33	Preset 06
	84 ~ 95	34 ~ 37	Preset 07
	96 ~ 107	38 ~ 42	Preset 08
	108 ~ 119	43 ~ 47	Preset 09
	120 ~ 131	48 ~ 51	Preset 10
			<b>Factory Default Preset</b>
	132 ~ 143	52 ~ 56	Preset 11 (2.900K, 0 +/-GN)
	144 ~ 155	57 ~ 61	Preset 12 (3.200K, 0 +/-GN)
	156 ~ 167	62 ~ 65	Preset 13 (5.600K, 0 +/-GN)
	168 ~ 179	66 ~ 70	Preset 14 (6.500K, 0 +/-GN)
	180 ~ 191	71 ~ 75	Preset 15 (Hue120°, 100% Saturation)
	192 ~ 203	76 ~ 80	Preset 16 (Hue240°, 100% Saturation)
	204 ~ 215	81 ~ 84	Preset 17 (Rosco3408, 5.600K)
	216 ~ 227	85 ~ 89	Preset 18 (Lee 187, 3.200K)
228 ~ 239	90 ~ 94	Preset 19 (Rosco3152, 3.200K)	
240 ~ 255	95 ~ 100	Preset 20 (Lee 162, 3.200K)	

Mode 0: CCT, 8 bit resolution per function

DMX Channel	Value	Percent	Function
1	0 ~ 255	0 ~ 100	<b>Dimmer</b> closed → open
2	0 ~ 255	0 ~ 100	<b>Color temperature CCT</b> 2.000 K → 20.000 K
3	0 ~ 10 11 ~ 20 21 ~ 119 120 ~ 145 146 ~ 244 245 ~ 255	0 ~ 4 5 ~ 8 9 ~ 47 48 ~ 57 58 ~ 96 97 ~ 100	<b>Green–Magenta Point</b> neutral / no effect full minus green –99% → –1% neutral / no effect 1% → 99% full plus green

Mode 1: Calibrated CCT & RGBW, 8 bit resolution per function

DMX Channel	Value	Percent	Function
1	0 ~ 255	0 ~ 100	<b>Dimmer</b> closed → open
2	0 ~ 255	0 ~ 100	<b>Color temperature CCT</b> 2.000 K → 20.000 K
3	0 ~ 10 11 ~ 20 21 ~ 119 120 ~ 145 146 ~ 244 245 ~ 255	0 ~ 4 5 ~ 8 9 ~ 47 48 ~ 57 58 ~ 96 97 ~ 100	<b>Green–Magenta Point</b> neutral / no effect full minus green –99% → –1% neutral / no effect 1% → 99% full plus green
4	0 ~ 255	0 ~ 100	<b>Cross Fade to Color</b> White → RGBW color
5	0 ~ 255	0 ~ 100	<b>Intensity red</b> 0% → 100%
6	0 ~ 255	0 ~ 100	<b>Intensity green</b> 0% → 100%
7	0 ~ 255	0 ~ 100	<b>Intensity blue</b> 0% → 100%
8	0 ~ 255	0 ~ 100	<b>Intensity white</b> 0% → 100%
9	0 ~ 255	0 ~ 100	<b>Color temperature CCT</b> 2.000 K → 20.000 K
10	0 ~ 10 11 ~ 20 21 ~ 119 120 ~ 145 146 ~ 244 245 ~ 255	0 ~ 4 5 ~ 8 9 ~ 47 48 ~ 57 58 ~ 96 97 ~ 100	<b>Green–Magenta Point</b> neutral / no effect full minus green –99% → –1% neutral / no effect 1% → 99% full plus green
11	0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
12	0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
13	0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
14			<b>Reserved for future use</b>



## Mode 2: CCT, 8 bit resolution per function

DMX Channel	Value	Percent	Function
1	0 ~ 255	0 ~ 100	<b>Dimmer</b> closed → open
2	0 ~ 255	0 ~ 100	<b>Color temperature CCT</b> 2.000 K → 20.000 K
3	0 ~ 10 11 ~ 20 21 ~ 119 120 ~ 145 146 ~ 244 245 ~ 255	0 ~ 4 5 ~ 8 9 ~ 47 48 ~ 57 58 ~ 96 97 ~ 100	<b>Green–Magenta Point</b> neutral / no effect full minus green –99% → –1% neutral / no effect 1% → 99% full plus green
4	0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
5	0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page <a href="#">6</a>
6	0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
7			<b>Reserved for future use</b>

### Mode 3: CCT & HSI, 8 bit resolution per function

DMX Channel	Value	Percent	Function
1	0 ~ 255	0 ~ 100	<b>Dimmer</b> closed → open
2	0 ~ 255	0 ~ 100	<b>Color temperature CCT</b> 2.000 K → 20.000 K
3	0 ~ 10 11 ~ 20 21 ~ 119 120 ~ 145 146 ~ 244 245 ~ 255	0 ~ 4 5 ~ 8 9 ~ 47 48 ~ 57 58 ~ 96 97 ~ 100	<b>Green–Magenta Point</b> neutral / no effect full minus green –99% → –1% neutral / no effect 1% → 99% full plus green
4	0 ~ 255	0 ~ 100	<b>Cross Fade to Color</b> White → RGBACL color
5	0 ~ 255	0 ~ 100	<b>Hue</b> 0° → 360°
6	0 ~ 255	0 ~ 100	<b>Saturation</b> 0 → full saturated
7	0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
8	0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
9	0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
10			<b>Reserved for future use</b>

#### Mode 4: RGBACL, 8 bit resolution per function

DMX Channel	Value	Percent	Function
1	0 ~ 255	0 ~ 100	<b>Dimmer</b> closed → open
2	0 ~ 255	0 ~ 100	<b>Intensity red</b> 0% → 100%
3	0 ~ 255	0 ~ 100	<b>Intensity green</b> 0% → 100%
4	0 ~ 255	0 ~ 100	<b>Intensity blue</b> 0% → 100%
5	0 ~ 255	0 ~ 100	<b>Intensity amber</b> 0% → 100%
6	0 ~ 255	0 ~ 100	<b>Intensity cyan</b> 0% → 100%
7	0 ~ 255	0 ~ 100	<b>Intensity lime</b> 0% → 100%
8	0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
9	0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
10	0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
11			<b>Reserved for future use</b>

Mode 5: H S I, 8 bit resolution per function

DMX Channel	Value	Percent	Function
1	0 ~ 255	0 ~ 100	<b>Dimmer</b> closed → open
2	0 ~ 255	0 ~ 100	<b>Hue</b> 0° → 360°
3	0 ~ 255	0 ~ 100	<b>Saturation</b> 0 → full saturated
4	0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
5	0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
6	0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
7			<b>Reserved for future use</b>

Mode 6: Calibrated CCT & RGBW, 16 bit resolution per function

DMX Channel		Value	Percent	Function
1	2	0 ~ 65.535	0 ~ 100	<b>Dimmer</b> closed → open
3	4	0 ~ 65.535	0 ~ 100	<b>Color temperature CCT</b> 2.000 K → 20.000 K
5	6	0 ~ 4.587 4.588 ~ 9.830 9.831 ~ 30.145 30.146 ~ 39.976 39.977 ~ 60.292 60.293 ~ 65.535	0 ~ 7 8 ~ 15 16 ~ 46 47 ~ 61 62 ~ 92 93 ~ 100	<b>Green–Magenta Point</b> neutral / no effect full minus green –99% → –1% neutral / no effect 1% → 99% full plus green
7	8	0 ~ 65.535	0 ~ 100	<b>Xfade to color</b> White → RGBW color
9	10	0 ~ 65.535	0 ~ 100	<b>Intensity red</b> 0% → 100%
11	12	0 ~ 65.535	0 ~ 100	<b>Intensity green</b> 0% → 100%
13	14	0 ~ 65.535	0 ~ 100	<b>Intensity blue</b> 0% → 100%
15	16	0 ~ 65.535	0 ~ 100	<b>Intensity white</b> 0% → 100%
17	18	0 ~ 65.535	0 ~ 100	<b>Color temperature CCT</b> 2.000 K → 20.000 K
19	20	0 ~ 4.587 4.588 ~ 9.830 9.831 ~ 30.145 30.146 ~ 39.976 39.977 ~ 60.292 60.293 ~ 65.535	0 ~ 7 8 ~ 15 16 ~ 46 47 ~ 61 62 ~ 92 93 ~ 100	<b>Green–Magenta Point</b> neutral / no effect full minus green –99% → –1% neutral / no effect 1% → 99% full plus green
21		0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature. Normal speed, fixed. Full speed, fixed Fan off.
22		0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
23		0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
24				<b>Reserved for future use</b>

### Mode 7: CCT, 16 bit resolution per function

DMX Channel		Value	Percent	Function
HI	LO			
1	2	0 ~ 65.535	0 ~ 100	<b>Dimmer</b> closed → open
3	4	0 ~ 65.535	0 ~ 100	<b>Color temperature CCT</b> 2.000 K → 20.000 K
5	6	0 ~ 4.587 4.588 ~ 9.830 9.831 ~ 30.145 30.146 ~ 39.976 39.977 ~ 60.292 60.293 ~ 65.535	0 ~ 7 8 ~ 15 16 ~ 46 47 ~ 61 62 ~ 92 93 ~ 100	<b>Green–Magenta Point</b> neutral / no effect full minus green –99% → –1% neutral / no effect 1% → 99% full plus green
7		0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature. Normal speed, fixed. Full speed, fixed Fan off.
8		0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
9		0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
10				<b>Reserved for future use</b>

Mode 8: CCT & HSI, 16 bit resolution per function

DMX Channel		Value	Percent	Function
<b>HI</b>	<b>LO</b>			
<b>1</b>	<b>2</b>	0 ~ 65.535	0 ~ 100	<b>Dimmer</b> closed → open
<b>3</b>	<b>4</b>	0 ~ 65.535	0 ~ 100	<b>Color temperature CCT</b> 2.000 K → 20.000 K
<b>5</b>	<b>6</b>	0 ~ 4.587 4.588 ~ 9.830 9.831 ~ 30.145 30.146 ~ 39.976 39.977 ~ 60.292 60.293 ~ 65.535	0 ~ 7 8 ~ 15 16 ~ 46 47 ~ 61 62 ~ 92 93 ~ 100	<b>Green–Magenta Point</b> neutral / no effect full minus green –99% → –1% neutral / no effect 1%→99% full plus green
<b>7</b>	<b>8</b>	0 ~ 65.535	0 ~ 100	<b>Xfade to color</b> White → RGBACL color
<b>9</b>	<b>10</b>	0 ~ 65.535	0 ~ 100	<b>Hue</b> 0° → 360°
<b>11</b>	<b>12</b>	0 ~ 65.535	0 ~ 100	<b>Saturation</b> White → full saturated
<b>13</b>		0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
<b>14</b>		0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
<b>15</b>		0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
<b>16</b>				<b>Reserved for future use</b>

Mode 9: RGBACL, 16 bit resolution per function

DMX Channel		Value	Percent	Function
HI	LO			
1	2	0 ~ 65.535	0 ~ 100	<b>Dimmer</b> closed → open
3	4	0 ~ 65.535	0 ~ 100	<b>Intensity red</b> 0% → 100%
5	6	0 ~ 65.535	0 ~ 100	<b>Intensity green</b> 0% → 100%
7	8	0 ~ 65.535	0 ~ 100	<b>Intensity blue</b> 0% → 100%
9	10	0 ~ 65.535	0 ~ 100	<b>Intensity amber</b> 0% → 100%
11	12	0 ~ 65.535	0 ~ 100	<b>Intensity cyan</b> 0% → 100%
13	14	0 ~ 65.535	0 ~ 100	<b>Intensity lime</b> 0% → 100%
15		0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
16		0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
17		0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
18				<b>Reserved for future use</b>



Mode 10: HSI, 16 bit resolution per function

DMX Channel		Value	Percent	Function
<b>HI</b>	<b>LO</b>			
<b>1</b>	<b>2</b>	0 ~ 65.535	0 ~ 100	<b>Dimmer</b> closed → open
<b>3</b>	<b>4</b>	0 ~ 65.535	0 ~ 100	<b>Hue</b> 0° → 360°
<b>5</b>	<b>6</b>	0 ~ 65.535	0 ~ 100	<b>Saturation</b> White → full saturated
<b>7</b>		0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
<b>8</b>		0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
<b>9</b>		0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
<b>10</b>				<b>Reserved for future use</b>

Mode 11: CCT & RGBACL, Coarse/fine per function

DMX Channel	Value	Percent	Function
1	0 ~ 255	0 ~ 100	<b>Dimmer</b> closed → open
2	0 ~ 255	0 ~ 100	<b>Dimmer fine</b>
3	0 ~ 255	0 ~ 100	<b>Color temperature CCT coarse</b> 2.000 K → 20.000 K
4	0 ~ 255	0 ~ 100	<b>Color temperature CCT fine</b>
5	0 ~ 10 11 ~ 20 21 ~ 119 120 ~ 145 146 ~ 244 245 ~ 255	0 ~ 4 5 ~ 8 9 ~ 47 48 ~ 57 58 ~ 96 97 ~ 100	<b>Green–Magenta Point</b> neutral / no effect full minus green –99% → –1% neutral / no effect 1%→99% full plus green
6	0 ~ 255	0 ~ 100	<b>Xfade to color</b> White → RGBACL color
7	0 ~ 255	0 ~ 100	<b>Intensity red coarse</b> 0% → 100%
8	0 ~ 255	0 ~ 100	<b>Red fine</b>
9	0 ~ 255	0 ~ 100	<b>Intensity green coarse</b> 0% → 100%
10	0 ~ 255	0 ~ 100	<b>Green fine</b>
11	0 ~ 255	0 ~ 100	<b>Intensity blue coarse</b> 0% → 100%
12	0 ~ 255	0 ~ 100	<b>Blue fine</b>
13	0 ~ 255	0 ~ 100	<b>Intensity amber coarse</b> 0% → 100%
14	0 ~ 255	0 ~ 100	<b>Amber fine</b>
15	0 ~ 255	0 ~ 100	<b>Intensity cyan coarse</b> 0% → 100%
16	0 ~ 255	0 ~ 100	<b>Cyan fine</b>
17	0 ~ 255	0 ~ 100	<b>Intensity lime coarse</b> 0% → 100%
18	0 ~ 255	0 ~ 100	<b>Lime fine</b>
19	0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
20	0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
21	0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s

22			Reserved for future use
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## Mode 12: CCT, Coarse / fine channel per function

DMX Channel	Value	Percent	Function
1	0 ~ 255	0 ~ 100	<b>Dimmer</b> closed → open
2	0 ~ 255	0 ~ 100	<b>Dimmer fine</b>
3	0 ~ 255	0 ~ 100	<b>Color temperature CCT coarse</b> 2.000 K → 20.000 K
4	0 ~ 255	0 ~ 100	<b>Color temperature CCT fine</b>
5	0 ~ 10 11 ~ 20 21 ~ 119 120 ~ 145 146 ~ 244 245 ~ 255	0 ~ 4 5 ~ 8 9 ~ 47 48 ~ 57 58 ~ 96 97 ~ 100	<b>Green–Magenta Point</b> neutral / no effect full minus green –99% → –1% neutral / no effect 1%→99% full plus green
6	0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
7	0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
8	0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
9			<b>Reserved for future use</b>

Mode 13: CCT & H S I, Coarse / fine channel per function

DMX Channel	Value	Percent	Function
1	0 ~ 255	0 ~ 100	<b>Dimmer</b> closed → open
2	0 ~ 255	0 ~ 100	<b>Dimmer fine</b>
3	0 ~ 255	0 ~ 100	<b>Color temperature CCT coarse</b> 2.000 K → 20.000 K
4	0 ~ 255	0 ~ 100	<b>Color temperature CCT fine</b>
5	0 ~ 10 11 ~ 20 21 ~ 119 120 ~ 145 146 ~ 244 245 ~ 255	0 ~ 4 5 ~ 8 9 ~ 47 48 ~ 57 58 ~ 96 97 ~ 100	<b>Green–Magenta Point</b> neutral / no effect full minus green –99% → –1% neutral / no effect 1%→99% full plus green
6	0 ~ 255	0 ~ 100	<b>Xfade to color</b> White → RGBACL color
7	0 ~ 255	0 ~ 100	<b>Hue coarse</b> 0° → 360°
8	0 ~ 255	0 ~ 100	<b>Hue fine</b>
9	0 ~ 255	0 ~ 100	<b>Saturation coarse</b> 0 → full saturated
10	0 ~ 255	0 ~ 100	<b>Saturation fine</b>
11	0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
12	0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
13	0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
14			<b>Reserved for future use</b>

## Mode 14: RGBACL, Coarse / fine channel per function

DMX Channel	Value	Percent	Function
1	0 ~ 255	0 ~ 100	<b>Dimmer</b> closed → open
2	0 ~ 255	0 ~ 100	<b>Dimmer fine</b>
3	0 ~ 255	0 ~ 100	<b>Intensity red coarse</b> 0% → 100%
4	0 ~ 255	0 ~ 100	<b>Red fine</b>
5	0 ~ 255	0 ~ 100	<b>Intensity green coarse</b> 0% → 100%
6	0 ~ 255	0 ~ 100	<b>Green fine</b>
7	0 ~ 255	0 ~ 100	<b>Intensity blue coarse</b> 0% → 100%
8	0 ~ 255	0 ~ 100	<b>Blue fine</b>
9	0 ~ 255	0 ~ 100	<b>Intensity amber coarse</b> 0% → 100%
10	0 ~ 255	0 ~ 100	<b>Amber fine</b>
11	0 ~ 255	0 ~ 100	<b>Intensity cyan coarse</b> 0% → 100%
12	0 ~ 255	0 ~ 100	<b>Cyan fine</b>
13	0 ~ 255	0 ~ 100	<b>Intensity lime coarse</b> 0% → 100%
14	0 ~ 255	0 ~ 100	<b>Lime fine</b>
15	0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
16	0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
17	0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
18			<b>Reserved for future use</b>

### Mode 15: HSI, Coarse / fine channel per function

DMX Channel	Value	Percent	Function
1	0 ~ 255	0 ~ 100	<b>Dimmer</b> closed → open
2	0 ~ 255	0 ~ 100	<b>Dimmer fine</b>
3	0 ~ 255	0 ~ 100	<b>Hue coarse</b> 0° → 360°
4	0 ~ 255	0 ~ 100	<b>Hue fine</b>
5	0 ~ 255	0 ~ 100	<b>Saturation coarse</b> 0 → full saturated
6	0 ~ 255	0 ~ 100	<b>Saturation fine</b>
7	0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
8	0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
9	0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
10			<b>Reserved for future use</b>

Mode 16: GEL, 8 bit resolution per function, base channels

DMX Channel	Value	Percent	Function
1	0 ~ 255	0 ~ 100	<b>Master Intensity</b> 0 % (closed) → 100% (open)
2	0 ~ 127 128 ~ 255	0 ~ 50 51 ~ 100	<b>Gel 1, CCT Selection</b> 3.200 K 5.600 K
3	0 ~ 255	0 ~ 100	<b>Reserved for future use</b>
4	0 ~ 127 128 ~ 255	0 ~ 50 51 ~ 100	<b>Gel 1, Brand</b> <i>Choose category on ch. 5, gel on ch. 6</i> Rosco LEE filters
5	0 ~ 50 51 ~ 101 102 ~ 152 153 ~ 203 204 ~ 255	0 ~ 20 21 ~ 39 40 ~ 60 61 ~ 80 81 ~ 100	<b>Gel 1, Category (Brand Dependent)</b> <i>Choose Gel manufacturer on channel 4</i> Category 1 <u>Rosco: Color correction</u> <u>LEE: Color correction</u> Category 2 <u>Rosco: CalColor</u> <u>LEE: Color Filters</u> Category 3 <u>Rosco: S toraro Selection</u> <u>LEE: 600 Series</u> Category 4 <u>Rosco: Cinelux</u> <u>LEE: Cosmetic Filters</u> Category 5 <u>LEE: 700 Series</u>
6	0 ~ 255	0 ~ 100	<b>Gel 1</b> Please see tables below
7	0 ~ 255	0 ~ 100	<b>Cross Fade to gel</b> Gel 1 → Gel 2
8	0 ~ 127 128 ~ 255	0 ~ 50 51 ~ 100	<b>Gel 2, CCT Selection</b> 3.200 K 5.600 K
9	0 ~ 255	0 ~ 100	<b>Reserved for future use</b>
10	0 ~ 127 128 ~ 255	0 ~ 50 51 ~ 100	<b>Gel 2, Brand</b> <i>Choose category on ch. 11 gel on ch. 12</i> Rosco LEE filters
11	0 ~ 50 51 ~ 101 102 ~ 152	0 ~ 20 21 ~ 39 40 ~ 60	<b>Gel 2, Category (Brand Dependent)</b> <i>Choose Gel manufacturer on channel 4</i> Category 1 <u>Rosco: Color correction</u> <u>LEE: Color correction</u> Category 2 <u>Rosco: CalColor</u> <u>LEE: Color Filters</u> Category 3 <u>Rosco: Storaro Selection</u>



	153 ~ 203 204 ~ 255	61 ~ 80 81 ~ 100	<u>LEE: 600 Series</u> Category 4 <u>Rosco: Cinelux</u> <u>LEE: Cosmetic Filters</u> Category 5 <u>LEE: 700 Series</u>
<b>12</b>	0 ~ 255	0 ~ 100	<b>Gel 2</b> Please see tables below
<b>13</b>	0 ~ 255	0 ~ 100	<b>Reserved for future use</b>
<b>14</b>	0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
<b>15</b>	0 ~ 255	0 ~ 100	<b>Preset</b> <u>Preset Channel</u> on Page 6
<b>16</b>	0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
<b>17</b>			<b>Reserved for future use</b>

Mode 17: GEL, 16 bit resolution per function, base channels

DMX Channel		Value	Percent	Function
HI	LO			
1	2	0 ~ 65.535	0 ~ 100	<b>Master Intensity</b> 0 % (closed) → 100% (open)
3		0 ~ 127 128 ~ 255	0 ~ 50 51 ~ 100	<b>Gel 1, CCT Selection</b> 3.200 K 5.600 K
4		0 ~ 255	0 ~ 100	<b>Reserved for future use</b>
5		0 ~ 127 128 ~ 255	0 ~ 50 51 ~ 100	<b>Gel 1, Brand</b> <i>Choose category on ch. 5, gel on ch. 6</i> Rosco LEE filters
6		0 ~ 50 51 ~ 101 102 ~ 152 153 ~ 203 204 ~ 255	0 ~ 20 21 ~ 39 40 ~ 60 61 ~ 80 81 ~ 100	<b>Gel 1, Category (Brand Dependent)</b> <i>Choose Gel manufacturer on channel 4</i> Category 1 <u>Rosco: Color correction</u> <u>LEE: Color correction</u> Category 2 <u>Rosco: CalColor</u> <u>LEE: Color Filters</u> Category 3 <u>Rosco: Storaro Selection</u> <u>LEE: 600 Series</u> Category 4 <u>Rosco: Cinelux</u> <u>LEE: Cosmetic Filters</u> Category 5 <u>LEE: 700 Series</u>
7		0 ~ 255	0 ~ 100	<b>Gel 1</b> Please see tables below
8	9	0 ~ 65.535	0 ~ 100	<b>Cross Fade to gel</b> Gel 1 → Gel 2
10		0 ~ 127 128 ~ 255	0 ~ 50 51 ~ 100	<b>Gel 2, CCT Selection</b> 3.200 K 5.600 K
11		0 ~ 255	0 ~ 100	<b>Reserved for future use</b>
12		0 ~ 127 128 ~ 255	0 ~ 50 51 ~ 100	<b>Gel 2, Brand</b> <i>Choose category on ch. 13 gel on ch. 14</i> Rosco LEE filters
		0 ~ 50 51 ~ 101 102 ~ 152	0 ~ 20 21 ~ 39 40 ~ 60	<b>Gel 2, Category (Brand Dependent)</b> <i>Choose Gel manufacturer on channel 14</i> Category 1 <u>Rosco: Color correction</u> <u>LEE: Color correction</u> Category 2 <u>Rosco: CalColor</u> <u>LEE: Color Filters</u>

13	153 ~ 203	61 ~ 80	Category 3 <i>Rosco: Storaro Selection</i> <i>LEE: 600 Series</i>
	204 ~ 255	81 ~ 100	Category 4 <i>Rosco: Cinelux</i> <i>LEE: Cosmetic Filters</i> Category 5 <i>LEE: 700 Series</i>
14	0 ~ 255	0 ~ 100	<b>Gel 2</b> Please see tables below
15	0 ~ 255	0 ~ 100	<b>Reserved for future use</b>
16	0 ~ 9	0 ~ 3	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
	10 ~ 57	4 ~ 22	
	58 ~ 105	23 ~ 41	
	106 ~ 201	42 ~ 78	
	202 ~ 249	79 ~ 97	
	250 ~ 255	99 ~ 100	
17	0 ~ 255	0 ~ 100	<b>Preset</b> <i>Preset Channel</i> on Page 6
18	0 ~ 19	0 ~ 7	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
	20 ~ 255	8 ~ 100	
19			<b>Reserved for future use</b>

Category 1, Rosco, Color correction

DMX Channel	Value	Gel Name	Gel Number
<b>8 bit:</b>	0 ~ 1	Full CTB	3202
Gel 1: 6	2 ~ 3	3/4 CTB	3203
Gel 2: 12	4 ~ 5	1/2 CTB	3204
	6 ~ 7	1/3 CTB	3206
<b>16 bit:</b>	8 ~ 9	1/4 CTB	3208
Gel 1: 6	10 ~ 11	1/8 CTB	3216
Gel 2: 14	12 ~ 13	Double	3220
	14 ~ 15	CTB Full	3407
	16 ~ 17	CTO 3/4 CTO	3411
	18 ~ 19	1/2 CTO	3408
	20 ~ 21	1/4 CTO	3409
	22 ~ 23	1/8 CTO	3410
	24 ~ 25	Double CTO	3420
	26 ~ 27	Full CTS	3441
	28 ~ 29	1/2 CTS	3442
	30 ~ 31	1/4 CTS	3443
	32 ~ 33	1/8 CTS	3444
	34 ~ 35	Full Plusgreen	3304
	36 ~ 37	1/2 Plusgreen	3315
	38 ~ 39	1/4 Plusgreen	3316
	40 ~ 41	1/8 Plusgreen	3317
	42 ~ 43	FullMinusgreen	3308
	44 ~ 45	3/4 Minusgrn	3309
	46 ~ 47	1/2 Minusgreen	3313
	48 ~ 49	1/4 Minusgreen	3314
	50 ~ 51	1/8 Minusgreen	3318
	52 ~ 53	Fluorofilter	3310
	54 ~ 55	Industrial Vapor	3150
	56 ~ 57	Urban Vapor	3152
	58 ~ 59	Tough Y-1	3107
	60 ~ 61	Tough MT 54	3134
	62 ~ 63	Tough MTY	3106
	64 ~ 65	Tough MT2	3102
	66 ~ 255		<b>Reserved for future use</b>

Category 2, Rosco, CalColor

DMX Channel	Value	Gel Name	Gel Number
	0 ~ 1	15 Blue	4215
	2 ~ 3	30 Blue	4230
	4 ~ 5	60 Blue	4260
	6 ~ 7	90 Blue	4290
	8 ~ 9	7 Cyan	4307
	10 ~ 11	15 Cyan	4315
	12 ~ 13	30 Cyan	4330
	14 ~ 15	60 Cyan	4360
	16 ~ 17	90 Cyan	4390
	18 ~ 19	15 Green	4415
	20 ~ 21	30 Green	4430
	22 ~ 23	60 Green	4460
	24 ~ 25	90 Green	4490
	26 ~ 27	15 Yellow	4515
	28 ~ 29	30 Yellow	4530
	30 ~ 31	60 Yellow	4560
	32 ~ 33	90 Yellow	4590
<b>8 bit:</b>	34 ~ 35	15 Red	4615
Gel 1: 6	36 ~ 37	30 Red	4630
Gel 2: 12	38 ~ 39	60 Red	4660
	40 ~ 41	90 Red	4690
<b>16 bit:</b>	42 ~ 43	15 Magenta	4715
Gel 1: 6	44 ~ 45	30 Magenta	4730
Gel 2: 14	46 ~ 47	60 Magenta	4760
	48 ~ 49	90 Magenta	4790
	50 ~ 51	15 Pink	4815
	52 ~ 53	30 Pink	4830
	54 ~ 55	60 Pink	4860
	56 ~ 57	90 Pink	4890
	58 ~ 59	15 Lavender	4915
	60 ~ 61	30 Lavender	4930
	62 ~ 63	60 Lavender	4960
	64 ~ 65	90 Lavender	4990
	66 ~ 255		<b>Reserved for future use</b>

Category 3, Rosco, Storaro Selection

DMX Channel	Value	Gel Name	Gel Number	
<b>8 bit:</b> Gel 1: 6 Gel 2: 12	0 ~ 1	VS Red	2001	
	2 ~ 3	VS Orange	2202	
	4 ~ 5	VS Yellow	2003	
	6 ~ 7	VS Green	2004	
	8 ~ 9	VS Cyan	2005	
	10 ~ 11	VS Azure	2006	
	12 ~ 13	VS Blue	2007	
	<b>16 bit:</b> Gel 1: 6 Gel 2: 14	14 ~ 15	VS Indigo	2008
		16 ~ 17	VS Violet	2009
		18 ~ 19	VS Magenta	2010
20 ~ 255			<b>Reserved for future use</b>	

Category 4, Rosco, Cinelux

DMX Channel	Value	Gel Name	Gel Number	
<b>8 bit:</b> Gel 1: 6 Gel 2: 12	0 ~ 1	Bastard Amber	2	
	2 ~ 3	Pale Bastard Amber	302	
	4 ~ 5	No Color Straw	6	
	6 ~ 7	Pale Gold	8	
	8 ~ 9	Daffodil	310	
	10 ~ 11	Straw	12	
	12 ~ 13	Light Amber	16	
	14 ~ 15	Gallo Gold	316	
	16 ~ 17	Light Flame	17	
	18 ~ 19	Flame	18	
	20 ~ 21	Mayan Sun	318	
	22 ~ 23	Golden Amber	21	
	24 ~ 25	Soft Golden Amber	321	
	26 ~ 27	Orange	23	
	28 ~ 29	Henna Sky	325	
	30 ~ 31	Light Red	26	
	<b>16 bit:</b> Gel 1: 6 Gel 2: 14	32 ~ 33	No Color Pink	33
		34 ~ 35	Blush Pink	333
		36 ~ 37	Flesh Pink	34
		38 ~ 39	Pale Rose Pink	37
		40 ~ 41	Salmon	41
		42 ~ 43	Deep Salmon	42
		44 ~ 45	Middle Rose	44
		46 ~ 47	Light Rose Purple	47
		48 ~ 49	Surprise Pink	51
		50 ~ 51	No Color Blue	60

Category 4, Rosco, Cinelux, continued

DMX Channel	Value	Gel Name	Gel Number
	52 ~ 53	Clearwater	360
	54 ~ 55	Booster Blue	62
	56 ~ 57	Tipton Blue	362
	58 ~ 59	Blue Bell	364
	60 ~ 61	Daylight Blue	65
	62 ~ 63	Tharon Delft Blue	365
	64 ~ 65	Cerulean Blue	375
	66 ~ 67	Bermuda Blue	376
<b>8 bit:</b>	68 ~ 69	Green Blue	77
Gel 1: 6	70 ~ 71	Alice Blue	378
Gel 2: 12	72 ~ 73	Primary Blue	80
	74 ~ 75	Baldassari Blue	381
<b>16 bit:</b>	76 ~ 77	Medium Blue	83
Gel 1: 6	78 ~ 79	Pale Yellow Green	87
Gel 2: 14	80 ~ 81	Light Green	88
<b>cont.</b>	82 ~ 83	Moss Green	89
	84 ~ 85	Primary Green	91
	86 ~ 87	Turquoise	92
	88 ~ 89	Blue Green	93
	90 ~ 91	Chocolate	99
	92 ~ 255		<b>Reserved for future use</b>

Category 1, LEE, Color correction

DMX Channel	Value	Gel Name	Gel Number
	0 ~ 1	Double CTB	200
	2 ~ 3	Full CTB	201
	4 ~ 5	3/4 CTB	281
	6 ~ 7	1/2 CTB	202
	8 ~ 9	1/4 CTB	203
	10 ~ 11	1/8 CTB	218
	12 ~ 13	Double	287
	14 ~ 15	CTO Full	204
	16 ~ 17	CTO 3/4 CTO	285
	18 ~ 19	1/2 CTO	205
	20 ~ 21	1/4 CTO	206
	22 ~ 23	1/8 CTO	223
	24 ~ 25	1 1/2 CTB	283
	26 ~ 27	1 1/2 CTO	286
	28 ~ 29	Full CTS	441
	30 ~ 31	1/2 CTS	442
	32 ~ 33	1/4 CTS	443
	34 ~ 35	1/8 CTS	444
	36 ~ 37	Full CTO + .3 ND	207
	38 ~ 39	Full CTO + .6 ND	208
	40 ~ 41	L.C.T. Yellow (Y1)	212
	42 ~ 43	White Flame Green	213
<b>8 bit:</b>	44 ~ 45	LEE Fluorescent Green	219
Gel 1: 6	46 ~ 47	Super Correction L.C.T. Yellow	230
Gel 2: 12	48 ~ 49	Super Correction W.F. Green	232
	50 ~ 51	H.M.I. (to Tungsten)	236
<b>16 bit:</b>	52 ~ 53	C.I.D. (to Tungsten)	237
Gel 1: 6	54 ~ 55	C.S.I. (to Tungsten)	238
Gel 2: 14	56 ~ 57	LEE Fluorescent 5700 Kelvin	241
	58 ~ 59	LEE Fluorescent 4300 Kelvin	242
	60 ~ 61	LEE Fluorescent 3600 Kelvin	243
	62 ~ 63	LEE Plus Green	244
	64 ~ 65	1/2 Plus Green	245
	66 ~ 67	1/4 Plus Green	246
	68 ~ 69	1/8 Plus Green	278
	70 ~ 71	LEE Minus Green	247
	72 ~ 73	1/2 Minus Green	248
	74 ~ 75	1/4 Minus Green	249
	76 ~ 77	1/8 Minus Green	279
	78 ~ 255		<b>Reserved for future use</b>



Category 2, LEE, Color Filters

DMX Channel	Value	Gel Name	Gel Number
	0 ~ 1	Rose Pink	002
	2 ~ 3	Lavender Tint	003
	4 ~ 5	Medium Bastard Amber	004
	6 ~ 7	Pale Yellow	007
	8 ~ 9	Dark Salmon	008
	10 ~ 11	Pale Amber Gold	009
	12 ~ 13	Medium Yellow	010
	14 ~ 15	Straw Tint	013
	16 ~ 17	Surprise Peach	017
	18 ~ 19	Fire	019
	20 ~ 21	Medium Amber	020
	22 ~ 23	Gold Amber	021
	24 ~ 25	Dark Amber	022
	26 ~ 27	Scarlet	024
	28 ~ 29	Sunset Red	025
	30 ~ 31	Bright Red	026
	32 ~ 33	Light Pink	035
	34 ~ 35	Medium Pink	036
	36 ~ 37	Dark Magenta	046
	38 ~ 39	Rose Purple	048
	40 ~ 41	Light Lavender	052
	42 ~ 43	Paler Lavender	053
	44 ~ 45	Lavender	058
<b>8 bit:</b> Gel 1: 6 Gel 2: 12	46 ~ 47	Mist Blue	061
	48 ~ 49	Pale Blue	063
<b>16 bit:</b> Gel 1: 6 Gel 2: 14	50 ~ 51	Sky Blue	068
	52 ~ 53	Evening Blue	075
	54 ~ 55	Just Blue	079
	56 ~ 57	Deeper Blue	085
	58 ~ 59	Lime Green	088
	60 ~ 61	Moss Green	089
	62 ~ 63	Dark Yellow Green	090
	64 ~ 65	Spring Yellow	100
	66 ~ 67	Yellow	101
	68 ~ 69	Light Amber	102
	70 ~ 71	Straw	103
	72 ~ 73	Deep Amber	104
	74 ~ 75	Primary Red	106
	76 ~ 77	Light Rose	107
	78 ~ 79	English Rose	108
	80 ~ 81	Light Salmon	109
	82 ~ 83	Middle Rose	110

*Category 2, LEE, Color Filters, continued*

<b>DMX Channel</b>	<b>Value</b>	<b>Gel Name</b>	<b>Gel Number</b>
	84 ~ 85	Dark Pink	111
	86 ~ 87	Magenta	113
	88 ~ 89	Peacock Blue	115
	90 ~ 91	Steel Blue	117
	92 ~ 93	Light Blue	118
	94 ~ 95	Deep Blue	120
	96 ~ 97	LEE Green	121
	98 ~ 99	Fern Green	122
	100 ~ 101	Dark Green	124
	102 ~ 103	Smokey Pink	127
	104 ~ 105	Bright Pink	128
	106 ~ 107	Marine Blue	131
	108 ~ 109	Golden Amber	134
	110 ~ 111	Deep Golden Amber	135
	112 ~ 113	Pale Lavender	136
	114 ~ 115	Special Lavender	137
	116 ~ 117	Pale Green	138
	118 ~ 119	Summer Blue	140
	120 ~ 121	Pale Violet	142
	122 ~ 123	Pale Navy Blue	143
	124 ~ 125	No Color Blue	144
	126 ~ 127	Apricot	147
	128 ~ 129	Bright Rose	148
<b>8 bit:</b>	130 ~ 131	Gold Tint	151
Gel 1: 6	132 ~ 133	Pale Gold	152
Gel 2: 12	134 ~ 135	Pale Salmon	153
	136 ~ 137	Pale Rose	154
<b>16 bit:</b>	138 ~ 139	Chocolate	156
Gel 1: 6	140 ~ 141	Pink	157
Gel 2: 14	142 ~ 143	No Color Straw	159
<b>cont.</b>	144 ~ 145	Slate Blue	161
	146 ~ 147	Bastard Amber	162
	148 ~ 149	Flame Red	164
	150 ~ 151	Daylight Blue	165
	152 ~ 153	Lilac Tint	169
	154 ~ 155	Deep Lavender	170
	156 ~ 157	Dark Steel Blue	174
	158 ~ 159	Loving Amber	176
	160 ~ 161	Dark Lavender	180
	162 ~ 163	Light Red	182
	164 ~ 165	Flesh Pink	192
	166 ~ 167	Surprise Pink	194
	168 ~ 169	Zenith Blue	195
	170 ~ 171	True Blue	196
	172 ~ 173	Alice Blue	197
	174 ~ 175	Palace Blue	198
	176 ~ 177	Regal Blue	199
	178 ~ 255		<b>Reserved for future use</b>

*Category 3, LEE, 600 Series*

DMX Channel	Value	Gel Name	Gel Number
<b>8 bit:</b> Gel 1: 6 Gel 2: 12	0 ~ 1	Arctic White	600
	2 ~ 3	Silver	601
	4 ~ 5	Platinum	602
	6 ~ 7	Moonlight White	603
	8 ~ 9	Full CT 85	604
	10 ~ 11	Industry Sodium	650
	12 ~ 13	HI Sodium	651
	14 ~ 15	Urban Sodium	652
	16 ~ 17	LO Sodium	653
<b>16 bit:</b> Gel 1: 6 Gel 2: 14	18 ~ 255		<b>Reserved for future use</b>

*Category 4, LEE, Cosmetic Filters*

DMX Channel	Value	Gel Name	Gel Number
<b>8 bit:</b> Gel 1: 6 Gel 2: 12	0 ~ 1	Cosmetic Peach	184
	2 ~ 3	Cosmetic Silver Rose	186
	4 ~ 5	Cosmetic Rouge	187
	6 ~ 7	Cosmetic Highlight	188
	8 ~ 9	Cosmetic Silver Moss	189
	10 ~ 11	Cosmetic Aqua Blue	191
	12 ~ 13	Lily Frost	705
	14 ~ 15	Shanklin Frost	717
	16 ~ 17	Half Shanklin Frost	718
	18 ~ 19	Durham Daylight Frost	720
	20 ~ 21	Hampshire Rose	749
	22 ~ 23	Durham Frost	750
	24 ~ 25	Soft Amber Key 1	774
	26 ~ 27	Soft Amber Key 2	775
	28 ~ 29	Moroccan Frost	791
	30 ~ 31	Blue Diffusion	217
	32 ~ 33	Blue Frost	221
34 ~ 35	Daylight Blue frost	224	
<b>16 bit:</b> Gel 1: 6 Gel 2: 14	36 ~ 255		<b>Reserved for future use</b>

Category 5, LEE, 700 Series

DMX Channel	Value	Gel Name	Gel Number
	0 ~ 1	Perfect Lavender	700
	2 ~ 3	Provence	701
	4 ~ 5	Special Pale Lavender	702
	6 ~ 7	Cold Lavender	703
	8 ~ 9	Lily	704
	10 ~ 11	King Fals Lavender	706
	12 ~ 13	Cool Lavender	708
	14 ~ 15	Electric Lilac	709
	16 ~ 17	Spir Special Blue	710
	18 ~ 19	Cold Blue	711
	20 ~ 21	Bedford Blue	712
	22 ~ 23	Elysian Blue	714
	24 ~ 25	Cabana Blue	715
	26 ~ 27	Mikkel Blue	716
	28 ~ 29	Colour Wash Blue	719
	30 ~ 31	Berry Blue	721
	32 ~ 33	Virgin Blue	723
	34 ~ 35	Ocean Blue	724
	36 ~ 37	Old Steel Blue	725
	38 ~ 39	Steel Green	728
	40 ~ 41	Liberty Green	730
<b>8 bit:</b>	42 ~ 43	Dirty Ice	731
Gel 1: 6	44 ~ 45	Damp Squib	733
Gel 2: 12	46 ~ 47	JAS Green	738
	48 ~ 49	Bram Brown	742
<b>16 bit:</b>	50 ~ 51	Dirty White	744
Gel 1: 6	52 ~ 53	Brown	746
Gel 2: 14	54 ~ 55	Easy White	747
	56 ~ 57	Seedy Pink	748
	58 ~ 59	Wheat	763
	60 ~ 61	Sun Colour Straw	764
	62 ~ 63	LEE Yellow	765
	64 ~ 65	Cardbox Amber	773
	66 ~ 67	Nectarine	776
	68 ~ 69	Millenium Gold	778
	70 ~ 71	Bastard Pink	779
	72 ~ 73	Terry Red	781
	74 ~ 75	Blood Red	789
	76 ~ 77	Moroccan Pink	790
	78 ~ 79	Pretty n'Pink	794
	80 ~ 81	Magical Magenta	795
	82 ~ 255		<b>Reserved for future use</b>

Mode 18: xy mode, 8 bit resolution per function.

DMX Channel	Value	Percent	Function
1	0 ~ 255	0 ~ 100	<b>Dimmer</b> closed → open
2	0 ~ 255	0 ~ 100	<b>x</b> 0 → 0.8
3	0 ~ 255	0 ~ 100	<b>y</b> 0 → 0.8
4	0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
5	0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
6	0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
7			<b>Reserved for future use</b>

Mode 19: xy mode, 16 bit resolution per function.

DMX Channel	Value	Percent	Function	
<b>HI</b>	<b>LO</b>			
1	2	0 ~ 65.535	0 ~ 100	<b>Dimmer</b> closed → open
3	4	0 ~ 65.535	0 ~ 100	<b>x</b> 0 → 0.8
5	6	0 ~ 65.535	0 ~ 100	<b>y</b> 0 → 0.8
7		0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
8		0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
9		0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
10				<b>Reserved for future use</b>

Mode 20: Source Matching, 8 bit resolution per function

DMX Channel	Value	Percent	Function
1	0 ~ 255	0 ~ 100	<b>Master Intensity</b> 0 % (closed) → 100% (open)
2	0 ~ 50 51 ~ 101 102 ~ 152 153 ~ 203 204 ~ 255	0 ~ 20 21 ~ 39 40 ~ 59 60 ~ 79 80 ~ 100	<b>Category 1</b> <a href="#">Incandescent</a> <a href="#">Fluorescent</a> <a href="#">Discharge</a> <a href="#">Other</a> Reserved for future use
3	0 ~ 255	0 ~ 100	<b>Source 1</b> Please see table below
4	0 ~ 255	0 ~ 100	<b>Cross Fade</b> Cat 1, Source 1 → Cat 2, Source 2
5	0 ~ 50 51 ~ 101 102 ~ 152 153 ~ 203 204 ~ 255	0 ~ 20 21 ~ 39 40 ~ 59 60 ~ 79 80 ~ 100	<b>Category 2</b> <a href="#">Incandescent</a> <a href="#">Fluorescent</a> <a href="#">Discharge</a> <a href="#">Other</a> Reserved for future use
6	0 ~ 255	0 ~ 100	<b>Source 2</b> Please see table below
7	0 ~ 20 21 ~ 99 99 ~ 159 160 ~ 219 220 ~ 255	0 ~ 7 8 ~ 39 40 ~ 50 51 ~ 86 86 - 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed varies with temperature Normal speed. Full speed. Fan off.
8	0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> Page 6
9	0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
10			<b>Reserved for future use</b>

Mode 21: Source Matching, 16 bit resolution per function

DMX Channel		Value	Percent	Function
<b>HI</b>	<b>LO</b>			
<b>1</b>	<b>2</b>	0 ~ 65.535	0 ~ 100	<b>Master Intensity</b> 0 % (closed) → 100% (open)
<b>3</b>		0 ~ 50 51 ~ 101 102 ~ 152 153 ~ 203 204 ~ 255	0 ~ 20 21 ~ 39 40 ~ 59 60 ~ 79 80 ~ 100	<b>Category 1</b> <a href="#">Incandescent</a> <a href="#">Fluorescent</a> <a href="#">Discharge</a> <a href="#">Other</a> Reserved for future use
<b>4</b>		0 ~ 255	0 ~ 100	<b>Source 1</b> Please see table below
<b>5</b>	<b>6</b>	0 ~ 65.535	0 ~ 100	<b>Cross Fade</b> Cat 1, Source 1 → Cat 2, Source 2
<b>7</b>		0 ~ 50 51 ~ 101 102 ~ 152 153 ~ 203 204 ~ 255	0 ~ 20 21 ~ 39 40 ~ 59 60 ~ 79 80 ~ 100	<b>Category 2</b> <a href="#">Incandescent</a> <a href="#">Fluorescent</a> <a href="#">Discharge</a> <a href="#">Other</a> Reserved for future use
<b>8</b>		0 ~ 255	0 ~ 100	<b>Source 2</b> Please see table below
<b>9</b>		0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
<b>10</b>		0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
<b>11</b>		0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
<b>12</b>				<b>Reserved for future use</b>

Source Matching, Sources

Category	Value	Name
<b>Incandescent</b>	0 ~ 2	Tungsten Bulb
	3 ~ 5	Incandescent
	6 ~ 8	Halogen
	9 ~ 11	Antique Bulb
	12 ~ 14	Warm Antique Bulb
	15 ~ 17	Christmas Lights
	18 ~ 20	Night Light
	21 ~ 23	Infrared Heat Lamp
	24 ~ 26	Grow light
	27 ~ 255	<b>Reserved for future use</b>
<b>Flourescent</b>	0 ~ 2	CFL Soft White
	3 ~ 5	CFL Bright White
	6 ~ 8	CFL Cool White
	9 ~ 11	CFL Daylight
	12 ~ 14	Cool White 1
	15 ~ 17	Cool White 2
	18 ~ 20	Cool White 3
	21 ~ 23	Warm White
	24 ~ 26	CFL Blacklight
	27 ~ 255	<b>Reserved for future use</b>
<b>Discharge</b>	0 ~ 2	HMI
	3 ~ 5	High Pressure Sodium
	6 ~ 8	Low Pressure Sodium
	9 ~ 11	Mercury Vapor
	12 ~ 14	Metal Halide
	15 ~ 17	Ceramic
	18 ~ 20	Carbon Arc
	21 ~ 23	Xenon
24 ~ 255	<b>Reserved for future use</b>	
<b>Other</b>	0 ~ 2	Candle
	3 ~ 5	Gas Fire
	6 ~ 8	Sun Direct
	9 ~ 11	Sun Overcast
	12 ~ 14	Sun Blue Hour
	15 ~ 17	Mobile Phone
	18 ~ 20	Computer Monitor
	21 ~ 23	Electroluminescence
	24 ~ 26	Blow Torch
	27 ~ 29	Road Flare
	30 ~ 32	Amber Caution
	33 ~ 35	Green Traffic Light
	36 ~ 38	Yellow Traffic Light
	39 ~ 41	Red Traffic Light
	42 ~ 44	Blue Glow Stick
	45 ~ 47	Green Glow Stick
	48 ~ 50	Red Glow Stick
51 ~ 53	Yellow Glow Stick	
54 ~ 56	Pink Glow Stick	
57 ~ 59	Violet Glow Stick	
60 ~ 255	<b>Reserved for future use</b>	



## Mode 22: Lighting Effect, 8BIT

DMX Channel	Value	Percent	Function
1	0~255	0~100	<b>Dimmer</b> 0%(closed) ~ 100%(open)
2	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	0~4 5~7 8~11 12~15 16~19 20~23 24~ 27 28~31 32~35 36~39 40~43 44~47 48~51 52~55 56~59 60~63 64~67 68~71 72~75 76~79 80~83 84~100	<b>Choice of lighting effects</b> None <a href="#">Color Chase</a> <a href="#">Candle</a> <a href="#">Clouds Passing</a> <a href="#">Club</a> <a href="#">Party</a> <a href="#">Cop Car</a> <a href="#">Fire</a> <a href="#">Fireworks</a> <a href="#">Strobe</a> <a href="#">Lightning</a> <a href="#">Paparazzi</a> <a href="#">Pulsing</a> <a href="#">Television</a> <a href="#">Explosion</a> <a href="#">Fluorescent Flicker</a> <b>Reserved</b> <a href="#">Welding</a> <b>Reserved</b> <a href="#">CCT Sweep</a> <a href="#">Breathing</a> <b>Reserved</b>
3	0~255	0~100	<b>Effect Parameter 1</b> See table below
4	0~255	0~100	<b>Effect Parameter 2</b> See table below
5	0~255	0~100	<b>Effect Parameter 3</b> See table below
6	0~255	0~100	<b>Effect Parameter 4</b> See table below
7	0~255	0~100	<b>Effect Parameter 5</b> See table below
8	0~255	0~100	<b>Effect Parameter 6</b> See table below
9	0~255	0~100	<b>Reserved</b>
10	0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
11	0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
12	0~19 20~39	0~7 8~15	<b>Speed of lighting effects</b> Slowest Slow

	40~59 60~79 80~99 100~255	16~23 24~31 32~39 40~100	Medium Fast Fastest <b>Reserved</b>
13	0~19 20~39 40~59 60~255	0~7 8~15 16~23 24~100	<b>Overall Play Control</b> Play Pause Stop (black out) <b>Reserved</b>

Mode 23: [Lighting Effect, 16BIT](#)

DMX Channel		Value	Percent	Function
High	Low			
1	2	0~65535	0~100	<b>Dimmer</b> 0%(closed) ~ 100%(open)
3		0~9	0~4	<b>Choice of lighting effects</b> None
		10~19	5~7	<a href="#">Color Chase</a>
		20~29	8~11	<a href="#">Candle</a>
		30~39	12~15	<a href="#">Clouds Passing</a>
		40~49	16~19	<a href="#">Club</a>
		50~59	20~23	<a href="#">Party</a>
		60~69	24~ 27	<a href="#">Cop Car</a>
		70~79	28~31	<a href="#">Fire</a>
		80~89	32~35	<a href="#">Fireworks</a>
		90~99	36~39	<a href="#">Strobe</a>
		100~109	40~43	<a href="#">Lightning</a>
		110~119	44~47	<a href="#">Paparazzi</a>
		120~129	48~51	<a href="#">Pulsing</a>
		130~139	52~55	<a href="#">Television</a>
		140~149	56~59	<a href="#">Explosion</a>
		150~159	60~63	<a href="#">Fluorescent Flicker</a>
		160~169	64~67	<b>Reserved</b>
	170~179	68~71	<a href="#">Welding</a>	
	180~189	72~75	<b>Reserved</b>	
	190~199	76~79	<a href="#">CCT Sweep</a>	
	200~209	80~83	<a href="#">Breathing</a>	
	210~255	84~100	<b>Reserved</b>	
4	5	0~65535	0~100	<b>Effect Parameter 1</b> See table below
6	7	0~65535	0~100	<b>Effect Parameter 2</b> See table below
8	9	0~65535	0~100	<b>Effect Parameter 3</b> See table below
10	11	0~65535	0~100	<b>Effect Parameter 4</b> See table below
12	13	0~65535	0~100	<b>Effect Parameter 5</b> See table below
14	15	0~65535	0~100	<b>Effect Parameter 6</b> See table below
16	17	0~255	0~100	<b>Reserved</b>
18		0 ~ 9	0 ~ 3	<b>Fan control</b> Use Settings of Fixture Menu
		10 ~ 57	4 ~ 22	Fan speed low, fixed.
		58 ~ 105	23 ~ 41	Fan speed varies with temperature
		106 ~ 201	42 ~ 78	Normal speed, fixed.
		202 ~ 249	79 ~ 97	Full speed, fixed
		250 ~ 255	99 ~ 100	Fan off.
19		0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
20		0~19	0~7	<b>Speed of lighting effects</b> Slowest

	20~39 40~59 60~79 80~99 100~255	8~15 16~23 24~31 32~39 40~100	Slow Medium Fast Fastest <b>Reserved</b>
21	0~19 20~39 40~59 60~255	0~7 8~15 16~23 24~100	<b>Overall Play Control</b> Play Pause Stop (black out) <b>Reserved</b>

### Fire

Effect Parameter	8bit	16bit	Percentage	Function
1	0 ~ 84 85 ~ 170 171 ~ 255	0 ~ 21504 21805 ~ 43520 43521 ~ 65535	0 ~ 33 34 ~ 66 67 ~ 100	<b>CCT range</b> 1800K~2200K 2200K~2600K 2600K~3000K

### Candle

Effect Parameter	8bit	16bit	Percentage	Function
1	0 ~ 84 85 ~ 170 171 ~ 255	0 ~ 21504 21805 ~ 43520 43521 ~ 65535	0 ~ 33 34 ~ 66 67 ~ 100	<b>CCT range</b> 1400K~1700K 1700K~2000K 2000K~2300K

### Paparazzi

Effect Parameter	8bit	16bit	Percentage	Function
1	0 ~ 255	0 ~ 65535	0 ~ 100	<b>CCT</b> 2700K~10000K
2	0 ~ 10 11 ~ 20 21 ~ 119 120 ~ 145 146 ~ 244 245 ~ 255	0 ~ 4587 4588 ~ 9830 9831 ~ 30145 30146 ~ 39976 39977 ~ 60292 60293 ~ 65535	n/a	<b>Green/Magenta</b> neutral / no effect full minus green -99% → -1% neutral / no effect 1% → 99% full plus green
3	0 ~ 127 128 ~ 255	0 ~ 32767 32768 ~ 65535	0 ~ 50 51 ~ 100	<b>Flash Type</b> Flash Bulb Modern Flash
4	0 ~ 127 128 ~ 255	0 ~ 32767 32768 ~ 65535	0 ~ 50 51 ~ 100	<b>Random/Fixed Pulse</b> Fixed No. of pulses Random No. of pulses
5	0~84 85~169 170~255	0~21844 21845~43689 43690~65535	0~33 34~66 67~100	<b>No. of fixed pulses</b> 2 3 4
6	0 ~ 255	0 ~ 65535	0 ~ 100	<b>Phase</b> 0%~100%

### Lightning

Effect Parameter	8bit	16bit	Percentage	Function
1	0 ~ 255	0 ~ 65535	0 ~ 100	<b>CCT Range</b> 2700K~10000K
2	0 ~ 10 11 ~ 20 21 ~ 119 120 ~ 145 146 ~ 244 245 ~ 255	0 ~ 4587 4588 ~ 9830 9831 ~ 30145 30146 ~ 39976 39977 ~ 60292 60293 ~ 65535	N/A	<b>Green/Magenta</b> neutral / no effect full minus green -99% → -1% neutral / no effect 1% → 99% full plus green
3	0~84 85~169	0~21844 21845~43689	0~33 34~66	<b>No. of long pulses</b> 1 2

	170~255	43690~65535	67~100	3
4	0 ~ 127 128 ~ 255	0 ~ 32767 32768 ~ 65535	0 ~ 50 51 ~ 100	<b>Fixed or Random Pulses</b> Fixed No. of pulses Random No. of pulses
5	0~18 19~37 38~56 57~75 76~94 95~113 114~132 143~151 152~170 171~189 190~208 209~217 218~255	0~5040 5041~10081 10082~15121 15122~20161 20162~25201 25202~30241 30242~35281 35282~40321 40322~45361 45362~50401 50402~55441 55442~60481 60482~65535	0~6 7~13 14~20 21~27 28~34 35~41 42~48 49~55 56~62 63~69 70~76 77~83 84~100	<b>No. of short pulses</b> 2 3 4 5 6 7 8 9 10 11 12 13 14
6	0 ~ 255	0 ~ 65535	0 ~ 100	<b>SYNC</b> 0%~100%

Club

Effect Parameter	8bit	16bit	Percentage	Function
1	0 ~ 31 32 ~ 63 64 ~ 95 96 ~ 127 128 ~ 159 160 ~ 191 192 ~ 223 224 ~ 255	0 ~ 7936 7937 ~ 16128 16129 ~ 24320 24321 ~ 32767 32768 ~ 40704 40705 ~ 48896 48897 ~ 57088 57089 ~ 65535	0 ~ 12 13 ~ 25 26 ~ 37 38 ~ 49 50 ~ 62 63 ~ 75 76 ~ 87 88 ~ 100	<b>No. of colors</b> 3 6 9 12 15 18 21 24
2	0 ~ 255	0 ~ 65535	0~100%	<b>Saturation</b> 0%~100% Saturation

Cop Car

Effect Parameter	8bit	16bit	Percentage	Function
1	0 ~ 27 28 ~ 55 56 ~ 83 84 ~ 111 112 ~ 139 140 ~ 167 168 ~ 195 196 ~ 223 224 ~ 255	0 ~ 6912 6913 ~ 14080 14081 ~ 21248 21249 ~ 28416 28417 ~ 35584 35585 ~ 42752 42753 ~ 49920 49921 ~ 57088 57089 ~ 65535	0 ~ 11 12 ~ 21 22 ~ 32 33 ~ 43 44 ~ 54 55 ~ 65 66 ~ 76 77 ~ 87 88 ~ 100	<b>Color combination</b> Just Blue Blue and Red Blue and White Blue, Red and White Blue and Amber Blue, Red and Amber Red and Amber Amber Red
2	0 ~ 41 42 ~ 83 84 ~ 125 126 ~ 167 168 ~ 209 210 ~ 255	0 ~ 4587 4588 ~ 9830 9831 ~ 30145 30146 ~ 39976 39977 ~ 60292 60293 ~ 65535	N/A	<b>No. of pulses</b> 1 2 3 4 5 6

Fireworks

Effect Parameter	8bit	16bit	Percentage	Function
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1	0 ~ 63 64 ~ 127 128 ~ 255	0 ~ 16128 16129 ~ 32767 32768 ~ 65535	0 ~ 25 26 ~ 50 51 ~ 100	<b>Color type</b> White Color <b>Reserved</b>
2	0 ~ 255	0 ~ 65535	0~100%	<b>Saturation</b> 0%~100% Saturation
3	0 ~ 255	0 ~ 65535	0 ~ 100	<b>CCT range</b> 2700K~10000K
4	0 ~ 10 11 ~ 20 21 ~ 119 120 ~ 145 146 ~ 244 245 ~ 255	0 ~ 4587 4588 ~ 9830 9831 ~ 30145 30146 ~ 39976 39977 ~ 60292 60293 ~ 65535	N/A	<b>Green/Magenta</b> neutral / no effect full minus green -99% → -1% neutral / no effect 1% → 99% full plus green

### Strobe

Effect Parameter	8bit	16bit	Percentage	Function
1	0 ~ 63 64 ~ 127 128 ~ 255	0 ~ 16128 16129 ~ 32767 32768 ~ 65535	0 ~ 25 26 ~ 50 51 ~ 100	<b>Color type</b> White Color <b>Reserved</b>
2	0 ~ 255	0 ~ 65535	0 ~ 100	<b>CCT range</b> 2700K~10000K
3	0 ~ 10 11 ~ 20 21 ~ 119 120 ~ 145 146 ~ 244 245 ~ 255	0 ~ 4587 4588 ~ 9830 9831 ~ 30145 30146 ~ 39976 39977 ~ 60292 60293 ~ 65535	n/a	<b>Green/Magenta</b> neutral / no effect full minus green -99% → -1% neutral / no effect 1% → 99% full plus green
4	0 ~ 255	0 ~ 65535	0 ~ 100%	<b>HUE range</b> 0~360°
5	0 ~ 255	0 ~ 65535	0~100%	<b>Saturation</b> 0%~100% Saturation

### Television

Effect Parameter	8bit	16bit	Percentage	Function
1	0 ~ 84 85 ~ 170 171 ~ 255	0 ~ 21504 21505 ~ 43520 43521 ~ 65535	0 ~ 32 33 ~ 66 67 ~ 100	<b>CCT Range</b> Warmer Neutral Cooler
2	0 ~ 10 11 ~ 20 21 ~ 119 120 ~ 145 146 ~ 244 245 ~ 255	0 ~ 4587 4588 ~ 9830 9831 ~ 30145 30146 ~ 39976 39977 ~ 60292 60293 ~ 65535	N/A	<b>Green/Magenta</b> neutral / no effect full minus green -99% → -1% neutral / no effect 1% → 99% full plus green
3	0~255	0~65535	0~100	<b>Trigger</b> Setting the starting CCT of one cycle

### Party

Effect Parameter	8bit	16bit	Percentage	Function
1	0 ~ 255	0 ~ 65535	0~100%	<b>Saturation</b> 0%~100% Saturation

### CCT Sweep

Effect Parameter	8bit	16bit	Percentage	Function
1	0 ~ 255	0 ~ 65535	0 ~ 100	<b>CCT</b> 2000K ~ 6500K
2	0 ~ 255	0 ~ 65535	0 ~ 100	<b>CCT</b> 6500K ~10000K

### Fluorescent Flicker

Effect Parameter	8bit	16bit	Percentage	Function
1	0 ~ 127 128 ~ 255	0 ~ 32767 32768 ~ 65535	0 ~ 49 50 ~ 100	<b>Color type</b> White Color
2	0 ~ 255	0 ~ 65535	0 ~ 100	<b>CCT range</b> 2700K~10000K
3	0 ~ 10 11 ~ 20 21 ~ 119 120 ~ 145 146 ~ 244 245 ~ 255	0 ~ 4587 4588 ~ 9830 9831 ~ 30145 30146 ~ 39976 39977 ~ 60292 60293 ~ 65535	n/a	<b>Green/Magenta</b> neutral / no effect full minus green -99% → -1% neutral / no effect 1% → 99% full plus green
4	0 ~ 255	0 ~ 65535	0 ~100%	<b>HUE range</b> 0~360°
5	0 ~ 255	0 ~ 65535	0~100%	<b>Saturation</b> 0%~100% Saturation
6	0 ~ 127 128 ~ 255	0 ~ 32767 32768 ~ 65535	0 ~ 49 50 ~ 100	<b>Constant or Random</b> Constant No. of FREQ. Random No. of FREQ.

### Explosion

Effect Parameter	8bit	16bit	Percentage	Function
1	0 ~ 127 128 ~ 255	0 ~ 32767 32768 ~ 65535	0 ~ 49 50 ~ 100	<b>Color type</b> White Color
2	0 ~ 255	0 ~ 65535	0 ~ 100	<b>CCT range</b> 2700K~10000K
3	0 ~ 10 11 ~ 20 21 ~ 119 120 ~ 145 146 ~ 244 245 ~ 255	0 ~ 4587 4588 ~ 9830 9831 ~ 30145 30146 ~ 39976 39977 ~ 60292 60293 ~ 65535	n/a	<b>Green/Magenta</b> neutral / no effect full minus green -99% → -1% neutral / no effect 1% → 99% full plus green
4	0 ~ 255	0 ~ 65535	0 ~100%	<b>HUE range</b> 0~360°
5	0 ~ 255	0 ~ 65535	0~100%	<b>Saturation</b> 0%~100% Saturation



Pulsing

Effect Parameter	8bit	16bit	Percentage	Function
1	0 ~ 127 128 ~ 255	0 ~ 32767 32768 ~ 65535	0 ~ 49 50 ~ 100	<b>Color type</b> White Color
2	0 ~ 255	0 ~ 65535	0 ~ 100	<b>CCT range</b> 2700K~10000K
3	0 ~ 10 11 ~ 20 21 ~ 119 120 ~ 145 146 ~ 244 245 ~ 255	0 ~ 4587 4588 ~ 9830 9831 ~ 30145 30146 ~ 39976 39977 ~ 60292 60293 ~ 65535	n/a	<b>Green/Magenta</b> neutral / no effect full minus green -99% → -1% neutral / no effect 1% → 99% full plus green
4	0 ~ 255	0 ~ 65535	0 ~100%	<b>HUE range</b> 0~360°
5	0 ~ 255	0 ~ 65535	0~100%	<b>Saturation</b> 0%~100% Saturation

Welding

Effect Parameter	8bit	16bit	Percentage	Function
1	0 ~ 255	0 ~ 65535	0 ~ 100	<b>Min Intensity</b> 0%~75%
2	0 ~ 127 128 ~ 255	0 ~ 32767 32768 ~ 65535	0 ~ 49 50 ~ 100	<b>Color type</b> White Color
3	0 ~ 255	0 ~ 65535	0 ~ 100	<b>CCT range</b> 2700K~10000K
4	0 ~ 10 11 ~ 20 21 ~ 119 120 ~ 145 146 ~ 244 245 ~ 255	0 ~ 4587 4588 ~ 9830 9831 ~ 30145 30146 ~ 39976 39977 ~ 60292 60293 ~ 65535	n/a	<b>Green/Magenta</b> neutral / no effect full minus green -99% → -1% neutral / no effect 1% → 99% full plus green
5	0 ~ 255	0 ~ 65535	0 ~100%	<b>HUE range</b> 0~360°
6	0 ~ 255	0 ~ 65535	0~100%	<b>Saturation</b> 0%~100% Saturation

Color Chase

Effect Parameter	8bit	16bit	Percentage	Function
1	0 ~ 255	0 ~ 65535	0~100%	<b>Saturation</b> 0%~100% Saturation
2	0 ~ 255	0 ~ 65535	0~100%	<b>SYNC</b> 0 ~100%

Clouds Passing

Effect Parameter	8bit	16bit	Percentage	Function
1	0 ~ 255	0 ~ 65535	0~100%	<b>SYNC</b> 0 ~100%

Breathing

Effect Parameter	8bit	16bit	Percentage	Function
1	0 ~ 63 64 ~ 127 128 ~ 255	0 ~ 16128 16129 ~ 32767 32768 ~ 65535	0 ~ 25 26 ~ 50 51 ~ 100	<b>Color type</b> White Color <b>Reserved</b>
2	0 ~ 255	0 ~ 65535	0 ~ 100	<b>CCT range</b> 2700K~10000K
3	0 ~ 10 11 ~ 20 21 ~ 119 120 ~ 145 146 ~ 244 245 ~ 255	0 ~ 4587 4588 ~ 9830 9831 ~ 30145 30146 ~ 39976 39977 ~ 60292 60293 ~ 65535	n/a	<b>Green/Magenta</b> neutral / no effect full minus green -99% → -1% neutral / no effect 1% → 99% full plus green
4	0 ~ 255	0 ~ 65535	0 ~ 100%	<b>HUE range</b> 0~360°
5	0 ~ 255	0 ~ 65535	0~100%	<b>Saturation</b> 0%~100% Saturation

Mode 24: Ultimate DMX mode, 8 bit

DMX Channel	Value	Percentage	Function
1	0~255	0~100	<b>Intensity</b> 0%(closed) ~ 100%(open)
2	0 ~ 9 10 ~ 19 20 ~ 29 30 ~ 39 40 ~ 49 50 ~ 59 60 ~ 69 70 ~ 255	0 ~ 4 5 ~ 7 8 ~ 11 12 ~ 16 17 ~ 19 20 ~ 23 24 ~ 27 28 ~ 100	<b>Choices of modes</b> CCT & Green/Magenta Point H S I RGBACL Gel Selection Source Matching xy Effects <b>Reserved</b>
3	<a href="#">See table below</a>		<b>Color Parameter 1</b>
4			<b>Color Parameter 2</b>
5			<b>Color Parameter 3</b>
6			<b>Color Parameter 4</b>
7			<b>Color Parameter 5</b>
8			<b>Color Parameter 6</b>
9			<b>Color Parameter 7</b>
10			<b>Color Parameter 8</b>
11	0~255	0~100	<b>Cross Fade</b>
12	0 ~ 9 10 ~ 19 20 ~ 29 30 ~ 39 40 ~ 49 50 ~ 59 60 ~ 69 70 ~ 255	0 ~ 4 5 ~ 7 8 ~ 11 12 ~ 16 17 ~ 19 20 ~ 23 24 ~ 27 28 ~ 100	<b>Choices of modes</b> CCT & Green/Magenta Point H S I RGBACL Gel Selection Source Matching xy Effects <b>Reserved</b>
13	<a href="#">See table below</a>		<b>Color Parameter 1</b>
14			<b>Color Parameter 2</b>
15			<b>Color Parameter 3</b>
16			<b>Color Parameter 4</b>
17			<b>Color Parameter 5</b>
18			<b>Color Parameter 6</b>
19			<b>Color Parameter 7</b>
20			<b>Color Parameter 8</b>
21	0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
22	0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
23	41	0 ~ 19 20 ~ 255	<b>Light Strobe</b> 0 ~ 7 8 ~ 100

24	0~19 20~39 40~59 60~255	0~7 8~15 16~23 24~100	<b>Overall Play Control</b> Play Pause Stop (black out) <b>Reserved</b>
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Mode 25: [Ultimate mode, 16 bit](#)

DMX Channel		Value	Percentage	Function
HI	LO			
1	2	0~255	0~100	<b>Intensity</b> 0%(closed) ~ 100%
3		0 ~ 9	0 ~ 4	<b>Choices of modes</b> CCT & Green/Magenta Point H S I RGBACL Gel Selection Source Matching xy Effects <b>Reserved</b>
		10 ~ 19	5 ~ 7	
		20 ~ 29	8 ~ 11	
		30 ~ 39	12 ~ 16	
		40 ~ 49	17 ~ 19	
		50 ~ 59	20 ~ 23	
		60 ~ 69	24 ~ 27	
70 ~ 255	28 ~ 100			
4	5	<a href="#">See table below</a>		<b>Color Parameter 1</b>
6	7			<b>Color Parameter 2</b>
8	9			<b>Color Parameter 3</b>
10	11			<b>Color Parameter 4</b>
12	13			<b>Color Parameter 5</b>
14	15			<b>Color Parameter 6</b>
16	17			<b>Color Parameter 7</b>
18	19			<b>Color Parameter 8</b>
20	21	0~255	0~100	<b>Cross Fade</b>
22		0 ~ 9	0 ~ 4	<b>Choices of modes</b> CCT & Green/Magenta Point H S I RGBACL Gel Selection Source Matching xy Effects <b>Reserved</b>
		10 ~ 19	5 ~ 7	
		20 ~ 29	8 ~ 11	
		30 ~ 39	12 ~ 16	
		40 ~ 49	17 ~ 19	
		50 ~ 59	20 ~ 23	
		60 ~ 69	24 ~ 27	
70 ~ 255	28 ~ 100			
23	24	<a href="#">See table below</a>		<b>Color Parameter 1</b>
25	26			<b>Color Parameter 2</b>
27	28			<b>Color Parameter 3</b>
29	30			<b>Color Parameter 4</b>
31	32			<b>Color Parameter 5</b>
33	34			<b>Color Parameter 6</b>
35	36			<b>Color Parameter 7</b>
37	38			<b>Color Parameter 8</b>
39		0 ~ 9	0 ~ 3	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
		10 ~ 57	4 ~ 22	
		58 ~ 105	23 ~ 41	
		106 ~ 201	42 ~ 78	
		202 ~ 249	79 ~ 97	
250 ~ 255	99 ~ 100			
40		0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6

41	0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
42	0~19 20~39 40~59 60~255	0~7 8~15 16~23 24~100	<b>Overall Play Control</b> Play Pause Stop (black out) <b>Reserved</b>

Color mode parameters

Color mode	Parameter	Value 8 bit	Value 16 bit	Percentage	Function
CCT & Green/ Magenta Point	1	0~255	0~65535	0~100	<b>CCT Range</b> 2.000 K → 20.000 K
	2	0 ~ 10 11 ~ 20 21 ~ 119 120 ~ 145 146 ~ 244 245 ~ 255	0 ~ 4,587 4,588 ~ 9,830 9,831 ~ 30,145 30,146 ~ 39,976 39,977 ~ 60,292 60,293 ~ 65,535	n/a	<b>Green–Magenta Point</b> neutral / no effect full minus green –99% → –1% neutral / no effect 1% → 99% full plus green
HSI	1	0~255	0~65535	0~100	<b>Hue</b> 0° → 360°
	2	0~255	0~65535	0~100	<b>Saturation</b> 0 → full saturated
RGBACL	1	0~255	0~65535	0~100	<b>Intensity red</b> 0% → 100%
	2	0~255	0~65535	0~100	<b>Intensity green</b> 0% → 100%
	3	0~255	0~65535	0~100	<b>Intensity blue</b> 0% → 100%
	4	0~255	0~65535	0~100	<b>Intensity amber</b> 0% → 100%
	5	0~255	0~65535	0~100	<b>Intensity cyan</b> 0% → 100%
	6	0~255	0~65535	0~100	<b>Intensity lime</b> 0% → 100%
Gel	1	0 ~ 127 128 ~ 255	<b>Notice:</b> No 16 bit GEL mode available in Ultimate DMX Uses only “HI” channels, LO channels default value = 0	0~50 51~100	<b>Gel 1, CCT Selection</b> 3.200 K 5.600 K
	2	0 ~ 255		0~100	<b>Reserved for future use</b>
	3	0 ~ 127 128 ~ 255		0~50 51~100	<b>Gel 1, Brand</b> Rosco LEE filters
	4	0 ~ 50 51 ~ 101 102 ~ 152 153 ~ 203 204 ~ 255		0~20 21 ~ 39 40 ~ 60 61 ~ 80 81 ~ 100	<b>Gel 1, Category (Brand Dependent)</b> Category 1 <a href="#">Rosco: Color correction</a> <a href="#">LEE: Color correction</a> Category 2 <a href="#">Rosco: CalColor</a> <a href="#">LEE: Color Filters</a> Category 3 <a href="#">Rosco: Storaro Selection</a> <a href="#">LEE: 600 Series</a> Category 4 <a href="#">Rosco: Cinelux</a> <a href="#">LEE: Cosmetic Filters</a> Category 5 <a href="#">LEE: 700 Series</a>
	5	0 ~ 255		0 ~ 100	<b>Gel</b> <a href="#">Please see tables on page 25.</a>
Source Matching	1	0 ~ 50	<b>Notice:</b> No 16 bit	0 ~ 20	<b>Category 1</b> <a href="#">Incandescent</a>

		51 ~ 101 102 ~ 152 153 ~ 203 204 ~ 255	Source matching mode available in Ultimate DMX Mode.	21 ~ 39 40 ~ 59 60 ~ 79 80 ~ 100	<a href="#">Fluorescent</a> <a href="#">Discharge</a> <a href="#">Other</a> Reserved for future use
	2	0 ~ 255	Uses only "HI" channels, LO channels default value = 0	0 ~ 100	<b>Source 1</b> <a href="#">Please see tables on page 36.</a>
xy	1	0 ~ 255	0 - 65535	0~100	<b>x</b> 0 → 0.8
	2	0 ~ 255	0 ~ 65,535	0~100	<b>y</b> 0 → 0.8
Effects	1	0~9	0~2304	0~4	<b>lighting effects</b>
		10~19	2305 ~4864	5~7	None
		20~29	4865 ~7424	8~11	<a href="#">Color Chase</a>
		30~39	7425 ~9984	12 ~ 15	<a href="#">Candle</a>
		40~49	9985 ~12544	16 ~ 19	<a href="#">Clouds Passing</a>
		50~59	12545 ~15104	20 ~ 23	<a href="#">Club</a>
		60~69	15105 ~17664	24 ~ 27	<a href="#">Party</a>
		70~79	17665 ~20224	28 ~ 31	<a href="#">Cop Car</a>
		80~89	20225 ~22784	32 ~ 35	<a href="#">Fire</a>
		90~99	22785 ~25344	36 ~ 39	<a href="#">Fireworks</a>
	100~109	25345 ~27904	40 ~ 43	<a href="#">Strobe</a>	
	110~119	27905 ~30464	44 ~ 47	<a href="#">Lightning</a>	
	120~129	30465 ~33024	48 ~ 51	<a href="#">Paparazzi</a>	
	130~139	33025 ~35584	52~55	<a href="#">Pulsing</a>	
	140~149	35585 ~38144	56~59	<a href="#">Television</a>	
	150~159	38145 ~40704	60~63	<a href="#">Explosion</a>	
	160~169	40705 ~43264	64~67	<a href="#">Fluorescent Flicker</a>	
	170~179	43265~45824	68~71	<b>Reserved</b>	
	180~189	45825~48384	72~75	<a href="#">Welding</a>	
	190~199	48385~50944	76~79	<b>Reserved</b>	
	200~209	50945~53504	80~83	<a href="#">CCT Sweep</a>	
	210~255	53505~65535	84~100	<a href="#">Breathing</a> <b>Reserved</b>	
	2	<a href="#">Please see tables on page 41.</a>			<b>Effect Parameter 1</b>
	3				<b>Effect Parameter 2</b>
	4				<b>Effect Parameter 3</b>
	5				<b>Effect Parameter 4</b>
	6				<b>Effect Parameter 5</b>
	7				<b>Effect Parameter 6</b>
	8				0~19
		20~39	Source	8~15	Slowest
		40~59	matching mode	16~23	Slow
		60~79	available in	24~31	Middle
		80~99	Ultimate DMX	32~39	Fast
		100~255	Mode.	40~100	Fastest
			Uses only "HI" channels, LO channels default value = 0		Reserved



Mode 26: CCT & RGBACL, 8 bit resolution per function

DMX Channel	Value	Percent	Function
1	0 ~ 255	0 ~ 100	<b>Dimmer closed</b> → open
2	0 ~ 255	0 ~ 100	<b>Color temperature CCT</b> 2.000 K → 20.000 K
3	0 ~ 10 11 ~ 20 21 ~ 119 120 ~ 145 146 ~ 244 245 ~ 255	0 ~ 4 5 ~ 8 9 ~ 47 48 ~ 57 58 ~ 96 97 ~ 100	<b>Green–Magenta Point</b> neutral / no effect full minus green –99% → –1% neutral / no effect 1% → 99% full plus green
4	0 ~ 255	0 ~ 100	<b>Cross Fade to Color</b> White → RGBACL color
5	0 ~ 255	0 ~ 100	<b>Intensity red</b> 0% → 100%
6	0 ~ 255	0 ~ 100	<b>Intensity green</b> 0% → 100%
7	0 ~ 255	0 ~ 100	<b>Intensity blue</b> 0% → 100%
8	0 ~ 255	0 ~ 100	<b>Intensity amber</b> 0% → 100%
9	0 ~ 255	0 ~ 100	<b>Intensity cyan</b> 0% → 100%
10	0 ~ 255	0 ~ 100	<b>Intensity lime</b> 0% → 100%
11	0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
12	0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
13	0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
14			<b>Reserved for future use</b>

Mode 27: CCT & RGBACL, 16 bit resolution per function

DMX Channel	Value	Percent	Function
HI	LO		
1	2	0 ~ 65.535	<b>Dimmer closed</b> → open
3	4	0 ~ 65.535	<b>Color temperature CCT</b> 2.000 K → 20.000 K
		0 ~ 4.587 4.588 ~ 9.830 9.831 ~ 30.145	<b>Green–Magenta Point</b> neutral / no effect full minus green –99% → –1%

5	6	30.146 ~ 39.976 39.977 ~ 60.292 60.293 ~ 65.535	47 ~ 61 62 ~ 92 93 ~ 100	neutral / no effect 1% → 99% full plus green
7	8	0 ~ 65.535	0 ~ 100	<b>Xfade to color</b> White → RGBACL color
9	10	0 ~ 65.535	0 ~ 100	<b>Intensity red</b> 0% → 100%
11	12	0 ~ 65.535	0 ~ 100	<b>Intensity green</b> 0% → 100%
13	14	0 ~ 65.535	0 ~ 100	<b>Intensity blue</b> 0% → 100%
15	16	0 ~ 65.535	0 ~ 100	<b>Intensity amber</b> 0% → 100%
17	18	0 ~ 255	0 ~ 100	<b>Intensity cyan</b> 0% → 100%
19	20	0 ~ 255	0 ~ 100	<b>Intensity lime</b> 0% → 100%
21		0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
22		0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
23		0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
24				<b>Reserved for future use</b>

#### Mode 28: Rec.709 RGB, 8 bit resolution per function

DMX Channel	Value	Percent	Function
1	0 ~ 255	0 ~ 100	<b>Dimmer</b> closed → open
2	0 ~ 255	0 ~ 100	<b>Intensity red</b> 0% → 100%
3	0 ~ 255	0 ~ 100	<b>Intensity green</b> 0% → 100%
4	0 ~ 255	0 ~ 100	<b>Intensity blue</b> 0% → 100%
5	0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
6	0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6

<b>7</b>	0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
<b>8</b>			<b>Reserved for future use</b>

Mode 29: Rec.709 RGB, 16 bit resolution per function

DMX Channel		Value	Percent	Function
<b>HI</b>	<b>LO</b>			
<b>1</b>	<b>2</b>	0 ~ 65.535	0 ~ 100	<b>Dimmer</b> closed → open
<b>3</b>	<b>4</b>	0 ~ 65.535	0 ~ 100	<b>Intensity red</b> 0% → 100%
<b>5</b>	<b>6</b>	0 ~ 65.535	0 ~ 100	<b>Intensity green</b> 0% → 100%
<b>7</b>	<b>8</b>	0 ~ 65.535	0 ~ 100	<b>Intensity blue</b> 0% → 100%
<b>9</b>		0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
<b>10</b>		0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
<b>11</b>		0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
<b>12</b>				<b>Reserved for future use</b>

Mode 30: CCT & RGBW, 8 bit resolution per function

DMX Channel	Value	Percent	Function
1	0 ~ 255	0 ~ 100	<b>Dimmer</b> closed → open
2	0 ~ 255	0 ~ 100	<b>Color temperature CCT</b> 2.000 K → 20.000 K
3	0 ~ 10 11 ~ 20 21 ~ 119 120 ~ 145 146 ~ 244 245 ~ 255	0 ~ 4 5 ~ 8 9 ~ 47 48 ~ 57 58 ~ 96 97 ~ 100	<b>Green–Magenta Point</b> neutral / no effect full minus green –99% → –1% neutral / no effect 1% → 99% full plus green
4	0 ~ 255	0 ~ 100	<b>Cross Fade to Color</b> White → RGBW color
5	0 ~ 255	0 ~ 100	<b>Intensity red</b> 0% → 100%
6	0 ~ 255	0 ~ 100	<b>Intensity green</b> 0% → 100%
7	0 ~ 255	0 ~ 100	<b>Intensity blue</b> 0% → 100%
8	0 ~ 255	0 ~ 100	<b>Intensity white</b> 0% → 100%
9	0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature Normal speed, fixed. Full speed, fixed Fan off.
10	0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
11	0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
12			<b>Reserved for future use</b>

## Mode 31: CCT & RGBW, 16 bit resolution per function

DMX Channel		Value	Percent	Function
1	2	0 ~ 65.535	0 ~ 100	<b>Dimmer</b> closed → open
3	4	0 ~ 65.535	0 ~ 100	<b>Color temperature CCT</b> 2.000 K → 20.000 K
5	6	0 ~ 4.587 4.588 ~ 9.830 9.831 ~ 30.145 30.146 ~ 39.976 39.977 ~ 60.292 60.293 ~ 65.535	0 ~ 7 8 ~ 15 16 ~ 46 47 ~ 61 62 ~ 92 93 ~ 100	<b>Green–Magenta Point</b> neutral / no effect full minus green –99% → –1% neutral / no effect 1% → 99% full plus green
7	8	0 ~ 65.535	0 ~ 100	<b>Xfade to color</b> White → RGBW color
9	10	0 ~ 65.535	0 ~ 100	<b>Intensity red</b> 0% → 100%
11	12	0 ~ 65.535	0 ~ 100	<b>Intensity green</b> 0% → 100%
13	14	0 ~ 65.535	0 ~ 100	<b>Intensity blue</b> 0% → 100%
15	16	0 ~ 65.535	0 ~ 100	<b>Intensity white</b> 0% → 100%
17		0 ~ 9 10 ~ 57 58 ~ 105 106 ~ 201 202 ~ 249 250 ~ 255	0 ~ 3 4 ~ 22 23 ~ 41 42 ~ 78 79 ~ 97 99 ~ 100	<b>Fan control</b> Use Settings of Fixture Menu Fan speed low, fixed. Fan speed varies with temperature. Normal speed, fixed. Full speed, fixed Fan off.
18		0 ~ 255	0 ~ 100	<b>Preset</b> <a href="#">Preset Channel</a> on Page 6
19		0 ~ 19 20 ~ 255	0 ~ 7 8 ~ 100	<b>Light Strobe</b> No effect 1 flash / s → 25 flashes / s
20				<b>Reserved for future use</b>

## DMX Lost Behavior

This function sets the behavior of the Prolycht LED product when the DMX signal is lost. The followings are three options:

Options	Description
Hold Last Command	The last received DMX values are used until the fixture is switched off or valid DMX data is received again.
Black Out	The fixtures douses to 0% intensity immediately.

Hold 2Min. Fade Out	The last received DMX values are used for 2 minutes. After 2 minutes the fixture douses to 0% intensity. When valid DMX data is received after less than 2 minutes, these data will be used.
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*How to set:*

1. Press the MENU button;
2. Turn the Intensity/Selection knob and select "Network Settings", Press the Intensity/Selection knob;
3. Select "DMX Settings" and press the Intensity/Selection knob;
4. Select "DMX Signal Lost Behavior" and press the Intensity/Selection knob.
5. Choose the DMX lost behavior and Press the Intensity/Selection button to confirm.