

# DMX CHARTS

RDM Model ID	HEX	DEC
ECLFWHPVW	A042	41026
ECLFWHPIPVW	A043	41027

## DMX MODES LIST

RDM ID	DMX Mode	Footprint
1	UNO	1 ch
2	DUO	2 ch
3	BASIC	6 ch
4	STANDARD	6 ch
5	EXTENDED	9 ch
6	ADVANCED	14 ch

## DMX MODES

Ch	UNO	DUO	BASIC	STANDARD	EXTENDED	ADVANCED
1	Dimmer	Dimmer	Dimmer	Dimmer	Dimmer	Dimmer
2	Accessory	Dimmer Fine	Dimmer Fine	Dimmer Fine	Dimmer Fine	Dimmer Fine
3	Accessory fine	Accessory	Warm White	CCT	CCT	CCT
4		Accessory fine	Cold White	CCT Fine	CCT Fine	CCT Fine
5			Strobe	Strobe	Control	Crossfade
6			Control	Control	Strobe	Warm White
7			Accessory	Accessory	Preset	Warm White Fine
8			Accessory fine	Accessory fine	Fan Control	Cold White
9					Reserved	Cold White Fine
10					Accessory	Control
11					Accessory fine	Strobe
12						Preset
13						Fan Control
14						Reserved
15						Accessory
16						Accessory fine

## CHANNEL DEFINITION

### Dimmer

Function	8 bit value		16 bit value		Note
	From	To	From	To	
Dimmer	0	255	0	65535	Default @ 0 (Linear Dimmer 0 - 100%)

### CCT (Range Selector @ 2700K - 6500K)

CCT (K)		8 bit value		16 bit value	
From	To	From	To	From	To
2700	2800	0	7	0	1725
2800	2900	7	13	1725	3449
2900	3000	13	20	3449	5174
3000	3100	20	27	5174	6898
3100	3200	27	34	6898	8623
3200	3300	34	40	8623	10348
3300	3400	40	47	10348	12072
3400	3500	47	54	12072	13797
3500	3600	54	60	13797	15521
3600	3700	60	67	15521	17246
3700	3800	67	74	17246	18971
3800	3900	74	81	18971	20695
3900	4000	81	87	20695	22420
4000	4100	87	94	22420	24144
4100	4200	94	101	24144	25869
4200	4300	101	107	25869	27594
4300	4400	107	114	27594	29318
4400	4500	114	121	29318	31043
4500	4600	121	128	31043	32768
4600	4700	128	134	32768	34492
4700	4800	134	141	34492	36217
4800	4900	141	148	36217	37941
4900	5000	148	154	37941	39666
5000	5100	154	161	39666	41391
5100	5200	161	168	41391	43115
5200	5300	168	174	43115	44840
5300	5400	174	181	44840	46564
5400	5500	181	188	46564	48289
5500	5600	188	195	48289	50014
5600	5700	195	201	50014	51738
5700	5800	201	208	51738	53463
5800	5900	208	215	53463	55187
5900	6000	215	221	55187	56912
6000	6100	221	228	56912	58637
6100	6200	228	235	58637	60361
6200	6300	235	242	60361	62086
6300	6400	242	248	62086	63810
6400	6500	248	255	63810	65535

### Warm White / Cold White

Function	8 bit value		16 bit value		Note
	From	To	From	To	
Dimmer	0	255	0	65535	Default @ 255 (8bit) / 65535 (16bit)

### Strobe

Function	8 bit value		16 bit value		Note
	From	To	From	To	
Open	0	1	-	-	Default @ 0
0,9 Hz to 20 Hz Strobing Duty Cycle Open Time: 100 ms to 25 ms Duty Cycle Closed Time: 1000 ms to 25 ms	2	62	-	-	
Open	63	64	-	-	
0,8 Hz to 6,6 Hz Pulse-In Strobing Duty Cycle Puls-In Time: 250 ms to 50 ms Duty Cycle Closed Time: 1000 ms to 100 ms	65	125	-	-	
Open	126	127	-	-	
0,8 Hz to 6,6 Hz Pulse-Out Strobing Duty Cycle Puls-Out Time: 250 ms to 50 ms Duty Cycle Closed Time: 1000 ms to 100 ms	128	188	-	-	
Open	189	190	-	-	
0,9 Hz to 20 Hz Random Strobing Duty Cycle Open Time: 100 ms to 25 ms Duty Cycle Closed Time: 1000 ±500 ms to 25 ±12 ms	191	251	-	-	
Open	252	255	-	-	

### Fan Control Channel

Function	8 bit value		16 bit value		Note
	From	To	From	To	
Safe					
No Function	0	1	-	-	Use Fan Mode Setting of Fixture Menu
Auto	2	3	-	-	Automatically regulates fan speed - Drops light only if passing the thermal protection treshold.
Turbo	4	5	-	-	Fixed - 100%
Fan Speed	6	107	-	-	Manual Fan Speed: 0% at 6 dmx value - 20% to 100% from 7 to 107 dmx value in linear progression
Dynamic Light Output					
Quiet 1 DLO	108	109	-	-	Fixed Fan Speed (50%) - Power drop -15%
Quiet 2 DLO	110	111	-	-	Fixed Fan Speed (40%) - Power drop -25%
Off DLO	112	113	-	-	Fixed Fan Speed (0%)
Constant Light Output					
Quiet 1 CLO	114	115	-	-	Fixed Fan Speed (50%) - Power limit 70%
Quiet 2 CLO	116	117	-	-	Fixed Fan Speed (40%) - Power limit 60%
Off CLO	118	119	-	-	Fixed Fan Speed (0%) - Power limit 35%
Reserved	120	255	-	-	---

### Preset Channel

Function	8 bit value		16 bit value		Note
	From	To	From	To	
Safe					
No Function	0	1	-	-	Default @ 0
User Defined Presets					
Preset 01	2	3	-	-	Preset saved by user
Preset 02	4	5	-	-	
Preset 03	6	7	-	-	
Preset 04	8	9	-	-	
Preset 05	10	11	-	-	
Preset 06	12	13	-	-	
Preset 07	14	15	-	-	
Preset 08	16	17	-	-	
Preset 09	18	19	-	-	
Preset 10	20	21	-	-	
Preset 11	22	23	-	-	
Preset 12	24	25	-	-	
Preset 13	26	27	-	-	
Preset 14	28	29	-	-	
Preset 15	30	31	-	-	
Preset 16	32	33	-	-	
Preset 17	34	35	-	-	
Preset 18	36	37	-	-	
Preset 19	38	39	-	-	
Preset 20	40	41	-	-	
Reserved	42	167	-	-	
Factory Presets					
Preset 01	168	169	-	-	CCT - 2700K
Preset 02	170	171	-	-	CCT - 3000K
Preset 03	172	173	-	-	CCT - 3200K
Preset 04	174	175	-	-	CCT - 3600K
Preset 05	176	177	-	-	CCT - 4000K
Preset 06	178	179	-	-	CCT - 5000K
Preset 07	180	181	-	-	CCT - 5600K
Preset 08	182	183	-	-	CCT - 6000K
Preset 09	184	185	-	-	CCT - 6500K
Reserved	186	255	-	-	---

### Control Channel

Function		8 bit value		Note
		From	To	
No Function / Safe		0	1	Default @ 0 Hold 3s to take function
Dimmer Speed	<b>Auto</b>	2	3	
	Fast	4	5	
	Medium	6	7	
	Slow	8	9	
	Off	10	11	
Dimmer Curve	Linear	12	13	
	S-Curve	14	15	
	<b>Square Law</b>	16	17	
	Inv. Square Law	18	19	
	High Res @ Low	20	21	
	Tungsten	22	23	
Reserved		24	45	
Fan Mode	<b>Auto</b>	46	47	
	Turbo	48	49	
	Manual	50	51	
	Quiet 1 DLO	52	53	
	Quiet 2 DLO	54	55	
	Off DLO	56	57	
	Quiet 1 CLO	58	59	
	Quiet 2 CLO	60	61	
	Off CLO	62	63	
Signal Fault	Hold	64	65	
	<b>Hold On Encoder Touch</b>	<b>CCT Mode</b>	66	67
		WW-CW Mode	68	69
	Reserved	70	77	
	Standalone	78	79	
	Blackout	80	81	
	Emergency	82	83	
Startup Behaviour On Encoder Touch	<b>On Encoder Touch</b>	<b>CCT Mode</b>	84	85
		WW-CW Mode	86	87
	Reserved	88	95	
	Standalone	96	97	
	Blackout	98	99	
	Emergency	100	101	
Led Frequency	<b>1282Hz</b>	102	103	
	2000Hz	104	105	
	4000Hz	106	107	
	6000Hz	108	109	
	10kHz	110	111	
	12kHz	112	113	
	15kHz	114	115	
20kHz	116	117		
Reserved		118	123	
Power Limit	<b>100%</b>	124	125	
	75%	126	127	
	50%	128	129	
	25%	130	131	
Reserved		132	135	

### Control Channel

Function		8 bit value		Note
		From	To	
Backlight Timeout	Always On	136	137	Default @ 0 Hold 3s to take function
	10s	138	139	
	<b>30s</b>	140	141	
	60s	142	143	
Backlight Display	25%	144	145	
	50%	146	147	
	75%	148	149	
	<b>100%</b>	150	151	
Backlight Encoder	Off	152	153	
	<b>On</b>	154	155	
Flip display	On	156	157	
	<b>Off</b>	158	159	
Keylock	On	160	161	
	<b>Off</b>	162	163	
Stand Alone Mode	Master DMX	164	165	
	Master NO DMX	166	167	
	<b>Slave</b>	168	169	
Stand Alone	<b>CCT Mode</b>	170	171	
	WW-CW Mode	172	173	
Reserved		174	181	
Stand Alone Preset	Mode 1	182	183	
	Mode 2	184	185	
	Mode 3	186	187	
	Mode 4	188	189	
	Mode 5	190	191	
	Mode 6	192	193	
	Mode 7	194	195	
	Mode 8	196	197	
	Mode 9	198	199	
	Mode 10	200	201	
Stand Alone Preset	Mode 11	202	203	
	Mode 12	204	205	
	Mode 13	206	207	
	Mode 14	208	209	
	Mode 15	210	211	
	Mode 16	212	213	
	Mode 17	214	215	
	Mode 18	216	217	
	Mode 19	218	219	
	Mode 20	220	221	
Configuration Presets	Preset 1	222	223	
	Preset 2	224	225	
	Preset 3	226	227	
	Preset 4	228	229	
Reserved		230	251	
Factory Default of control functions		252	253	
Reserved		254	255	

**Gobo Rotation**

Function	8 bit value		16 bit value		Note
	From	To	From	To	
Gobo Index 0° to 360°	0	127	0	32767	Default @ 0
CW rotation 40 rpm to 0,10 rpm	128	190	32768	48895	
Stop	191	192	48896	49407	
CCW Rotation 0,10 rpm to 40 rpm	193	255	49408	65535	

**Iris Module**

Function	8 bit value		16 bit value		Note
	From	To	From	To	
Iris Open to Close	0	127	0	32767	Default @ 0
Pulse close Slow to fast	128	190	32768	48895	
Pulse Stop	191	192	48896	49407	
Pulse open Slow to fast	193	255	49408	65535	