DMX CHARTS

RDM Model ID: 0xD182

RDM Personality ID List

ID	DMX Modes	Footprint
1	DWE 1	1 ch
2	DWE 4	4 ch
3	DWE 1+	4 ch
4	CCT	4 ch
5	RAW	8 ch
6	STROBE	9 ch
7	BASIC	9 ch
8	STANDARD 8 bit	20 ch
9	STANDARD 16 bit	31 ch
10	DUAL 8 bit	36 ch
11	DUAL 16 bit	56 ch
12	EXTENDED 8 bit	25 ch
13	ADVANCED	35 ch

RDM Personality ID List

ID	Pixel Engine	Footprint
1	DIRECT 8	20 ch
2	DIRECT 16	40 ch

DMX MODES

Ch	DWE 1	DWE 4	DWE 1+	CCT	RAW
1	Dimmer	Dimmer 1	Dimmer	Dimmer	Dimmer
2		Dimmer 2	Dim. Curve	Strobe	Strobe
3		Dimmer 3	Dim. Speed	CCT	Red
4		Dimmer 4	Tungsten Em.	Control	Green
5					Blue
6					Warm White
7					Amber
8					Control

DMX MODES

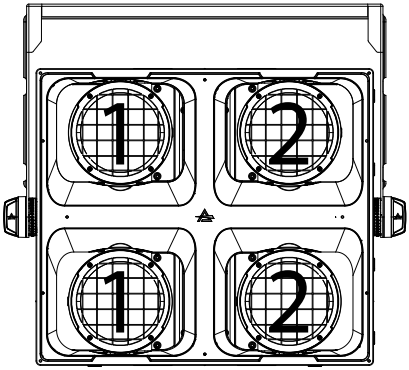
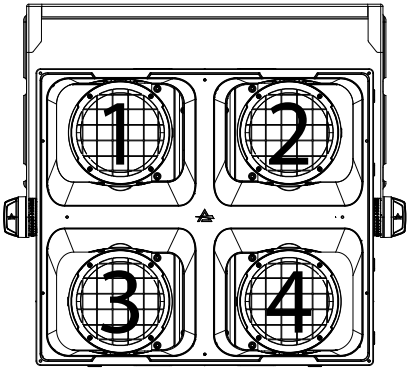
Ch	STROBE	BASIC	STANDARD 8 bit	STANDARD 16 bit	EXTENDED	ADVANCED
1	Master Dim.	Dimmer	Master Dim.	Master Dim.	Master Dim.	Master Dim.
2	Dimmer 1	Red	Dimmer 1	Master Dim.Fine	Master Dim.Fine	Master Dim.Fine
3	Dimmer 2	Green	Red 1	Dimmer 1	Dimmer 1	Dimmer 1
4	Strobe	Blue	Green 1	Dimmer Fine 1	Dimmer Fine	Dimmer Fine
5	Str. Duration	White	Blue 1	Red 1	Red 1	Red 1
6	Str. Rate	Strobe	White 1	Red Fine 1	Green 1	Red Fine 1
7	CCT	Effects	Dimmer 2	Green 1	Blue 1	Green 1
8	Control	Effects Speed	Red 2	Green Fine 1	White 1	Green Fine 1
9	Xfade To Pixel	Control	Green 2	Blue 1	Dimmer 2	Blue 1
10			Blue 2	Blue Fine 1	Dimmer Fine	Blue Fine 1
11			White 2	White 1	Red 2	White 1
12			Color Macro	White Fine 1	Green 2	White Fine 1
13			Strobe	Dimmer 2	Blue 2	Dimmer 2
14			CCT	Dimmer Fine 2	White 2	Dimmer Fine
15			Xfade To Color	Red 2	Strobe	Red 2
16			Dim. Curve	Red Fine 2	Duration	Red Fine 2
17			Dim. Speed	Green 2	Rate	Green 2
18			Tungsten Em.	Green Fine 2	CCT	Green Fine 2
19			Control	Blue 2	Gmp	Blue 2
20			Xfade To Pixel	Blue Fine 2	Xfade To Color	Blue Fine 2
21				White 2	Dim. Curve	White 2
22				White Fine 2	Dim. Speed	White Fine 2
23				Color Macro	Tungsten Em.	Strobe
24				Strobe	Control	Duration
25				CCT	Xfade To Pixel	Rate
26				Xfade To Color		CCT
27				Dim. Curve		Gmp
28				Dim. Speed		Xfade To Color
29				Tungsten Em.		Effects
30				Control		Effects Speed
31				Xfade To Pixel		Dim. Curve
32						Dim. Speed
33						Tungsten Em.
34						Control
35						Xfade To Pixel

DMX MODES

Ch	DUAL 8 bit	DUAL 16 bit
1	Master Dim.	Master Dim.
2	Master Dim.Fine	Master Dim.Fine
3	Dimmer 1	Dimmer 1
4	CCT 1	Dimmer Fine 1
5	Xfade To Color 1	CCT 1
6	Red 1	Xfade To Color 1
7	Green 1	Red 1
8	Blue 1	Red Fine 1
9	White 1	Green 1
10	Dimmer 2	Green Fine 1
11	CCT 2	Blue 1
12	Xfade To Color 2	Blue Fine 1
13	Red 2	White 1
14	Green 2	White Fine 1
15	Blue 2	Dimmer 2
...	...	...
30	White 4	Xfade To Color 3
31	Strobe	Red 3
32	Dim. Curve	Red Fine 3
33	Dim. Speed	Green 3
34	Tungsten Em.	Green Fine 3
35	Control	Blue 3
36	Xfade To Pixel	Blue Fine 3
...		...
50		White Fine 4
51		Strobe
52		Dim. Curve
53		Dim. Speed
54		Tungsten Em.
55		Control
56		Xfade To Pixel

PIXEL ENGINE

Ch	DIRECT 8	DIRECT 16
1	Red 1	Red 1
2	Green 1	Red Fine 1
3	Blue 1	Green 1
4	White 1	Green Fine 1
5	Amber 1	Blue 1
6	Red 2	Blue Fine 1
7	Green 2	White 1
8	Blue 2	White Fine 1
9	White 2	Amber 1
10	Amber 2	Amber Fine 1
...	...	...
20	Amber 4	Amber Fine 2
21		Red 3
22		Red Fine 3
...		...
30		Amber Fine 3
31		Red 4
32		Red Fine 4
...		...
40		Amber Fine 4

MAIN MODES	
PIXEL ENGINE	

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%)

Colors (RED - GREEN - BLUE - AMBER - WHITE)

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

Strobe

Function	8 bit value		16 bit value		Note
	From	To	From	To	
Open	0	4	-	-	Default @ 255
Strobe (slow to fast)	5	44	-	-	
Open	45	46	-	-	
Pulse In (slow to fast)	47	86	-	-	
Open	87	88	-	-	
Pulse Out (slow to fast)	89	128	-	-	
Close	129	130	-	-	
Random (slow to fast)	131	170	-	-	Random flash on all fixture
Open	171	172	-	-	
Random single pixels (slow to fast)	173	212	-	-	Flash on random pixels
Open	213	214	-	-	
Spikers (slow to fast)	215	254	-	-	Flash on low light
Open	255	255	-	-	

Strobe Duration

Function	8 bit value		16 bit value		Note
	From	To	From	To	
0ms to 990ms	0	255	-	-	Default @ 0

Strobe Rate

Function	8 bit value		16 bit value		Note
	From	To	From	To	
Rate off	0	5	-	-	Default @ 0
Slow (0,3Hz) to fast (25Hz)	6	255	-	-	

CCT (2800K - 10000K)

Function		8 bit value		16 bit value		Note
CCT(K) From	CCT(K) To	From	To	From	To	
2800	2900	0	4	0	910	Default @ 0
2900	3000	4	7	910	1820	
3000	3100	7	11	1820	2731	
3100	3200	11	14	2731	3641	
3200	3300	14	18	3641	4551	
3300	3400	18	21	4551	5461	
3400	3500	21	25	5461	6371	
3500	3600	25	28	6371	7282	
3600	3700	28	32	7282	8192	
3700	3800	32	35	8192	9102	
3800	3900	35	39	9102	10012	
3900	4000	39	43	10012	10923	
4000	4100	43	46	10923	11833	
4100	4200	46	50	11833	12743	
4200	4300	50	53	12743	13653	
4300	4400	53	57	13653	14563	
4400	4500	57	60	14563	15474	
4500	4600	60	64	15474	16384	
4600	4700	64	67	16384	17294	
4700	4800	67	71	17294	18204	
4800	4900	71	74	18204	19114	
4900	5000	74	78	19114	20025	
5000	5100	78	81	20025	20935	
5100	5200	81	85	20935	21845	
5200	5300	85	89	21845	22755	
5300	5400	89	92	22755	23665	
5400	5500	92	96	23665	24576	
5500	5600	96	99	24576	25486	
5600	5700	99	103	25486	26396	
5700	5800	103	106	26396	27306	
5800	5900	106	110	27306	28216	
5900	6000	110	113	28216	29127	
6000	6100	113	117	29127	30037	
6100	6200	117	120	30037	30947	
6200	6300	120	124	30947	31857	
6300	6400	124	128	31857	32768	
6400	6500	128	131	32768	33678	
6500	6600	131	135	33678	34588	
6600	6700	135	138	34588	35498	
6700	6800	138	142	35498	36408	
6800	6900	142	145	36408	37319	
6900	7000	145	149	37319	38229	
7000	7100	149	152	38229	39139	
7100	7200	152	156	39139	40049	
7200	7300	156	159	40049	40959	
7300	7400	159	163	40959	41870	
7400	7500	163	166	41870	42780	
7500	7600	166	170	42780	43690	
7600	7700	170	174	43690	44600	
7700	7800	174	177	44600	45510	

CCT (2800K - 10000K)

Function		8 bit value		16 bit value		Note
CCT(K) From	CCT(K) To	From	To	From	To	
7800	7900	177	181	45510	46421	
7900	8000	181	184	46421	47331	
8000	8100	184	188	47331	48241	
8100	8200	188	191	48241	49151	
8200	8300	191	195	49151	50061	
8300	8400	195	198	50061	50972	
8400	8500	198	202	50972	51882	
8500	8600	202	205	51882	52792	
8600	8700	205	209	52792	53702	
8700	8800	209	213	53702	54613	
8800	8900	213	216	54613	55523	
8900	9000	216	220	55523	56433	
9000	9100	220	223	56433	57343	
9100	9200	223	227	57343	58253	
9200	9300	227	230	58253	59164	
9300	9400	230	234	59164	60074	
9400	9500	234	237	60074	60984	
9500	9600	237	241	60984	61894	
9600	9700	241	244	61894	62804	
9700	9800	244	248	62804	63715	
9800	9900	248	251	63715	64625	
9900	10000	251	255	64625	65535	

GMP

Function	8 bit value		16 bit value		Note
	From	To	From	To	
-25% to 0	0	127	-	-	Default @ 128
Neutral	128	128	-	-	
0 to 25%	129	255	-	-	

Crossfade from CCT to ColorMix

Function	8 bit value		16 bit value		Note
	From	To	From	To	
Linear Crossfade	0	255	0	65535	Default @ 255 Crossfade from CCT Layer to ColorMix

Crossfade from Color to Pixel Engine

Function	8 bit value		16 bit value		Note
	From	To	From	To	
Linear Crossfade	0	255	0	65535	Default @ 0 Crossfade from Color Layer to Pixel Engine

Effects

Function	8 bit value		16 bit value		Note
	From	To	From	To	
No Function	0	9	-	-	Default @ 0
Effect 1	10	19	-	-	
Effect 2	20	29	-	-	
Effect 3	30	39	-	-	
Effect 4	40	49	-	-	
Effect 5	50	59	-	-	
Effect 6	60	69	-	-	
Effect 7	70	79	-	-	
Effect 8	80	89	-	-	
Effect 9	90	99	-	-	
Effect 10	100	109	-	-	
Effect 11	110	119	-	-	
Effect 12	120	129	-	-	
Reserved	130	255	-	-	

Effects Speed

Function	8 bit value		16 bit value		Note
	From	To	From	To	
CW from fast to slow	0	127	-	-	Default @ 0
Stop	128	128	-	-	
CCW from slow to fast	129	255	-	-	

Dimmer Curve

Function	8 bit value		16 bit value		Note
	From	To	From	To	
No Function - Current Preset from Menu	0	29	-	-	Default @ 0
LINEAR	30	59	-	-	Temporarily overrides Dimmer Curve settings from menu
S-CURVE	60	89	-	-	
SQUARE LAW	90	119	-	-	
INVERSE SQUARE LAW	120	149	-	-	
HIGH RES@LOW	150	179	-	-	
INCANDESCENT	180	209	-	-	
Reserved	210	255	-	-	

Dimmer Speed

Function	8 bit value		16 bit value		Note
	From	To	From	To	
No Function - Current Preset from Menu	0	29	-	-	Default @ 0
AUTO	30	59	-	-	Temporarily overrides Dimmer Speed settings from menu
FAST	60	89	-	-	
MEDIUM	90	119	-	-	
SLOW	120	149	-	-	
INCANDESCENT	150	179	-	-	
OFF	180	209	-	-	
Reserved	210	255	-	-	

Tungsten Emulation

Function	8 bit value		16 bit value		Note
	From	To	From	To	
No Function - Current Preset from Menu	0	29	-	-	Default @ 0
ON	30	59	-	-	Works only with CCT <3500K
OFF	60	89	-	-	
Reserved	90	255	-	-	

Color Macro

Function	8 bit value		16 bit value		Note
	From	To	From	To	
No Function	0	1	-	-	Default @ 0
RED	2	3	-	-	
GREEN	4	5	-	-	
BLUE	6	7	-	-	
CYAN	8	9	-	-	
MAGENTA	10	11	-	-	
YELLOW	12	13	-	-	
DIRTY WHITE	14	15	-	-	
ALICE BLLUE	16	17	-	-	
CONGO BLUE	18	19	-	-	
DARK STEEL BLUE	20	21	-	-	
DEEP LAVENDER	22	23	-	-	
LILAC TING	24	25	-	-	
DAYLIGHT BLUE	26	27	-	-	
FLAME RED	28	29	-	-	
BASTARD AMBER	30	31	-	-	
DEEP ORANGE	32	33	-	-	
PALE GOLD	34	35	-	-	
APRICOT	36	37	-	-	
BRIGHT BLUE	38	39	-	-	
PRIMARY GREEN	40	41	-	-	
SPECIAL LAVENDER	42	43	-	-	
PALE LAVENDER	44	45	-	-	
DEEP GOLDEN AMBER	46	47	-	-	
MEDIUM BLUE	48	49	-	-	
BRIGHT PINK	50	51	-	-	
MAUVE	52	53	-	-	
DARK GREEN	54	55	-	-	
LEE GREEN	56	57	-	-	
DARK BLUE	58	59	-	-	
LIGHT BLUE	60	61	-	-	
STEEL BLUE	62	63	-	-	
MEDIUM BLUE-GREEN	64	65	-	-	
PEACOCK BLUE	66	67	-	-	
MAGENTA	68	69	-	-	
DARK PINK	70	71	-	-	
MIDDLE ROSE	72	73	-	-	
LIGHT SALMON	74	75	-	-	
ENGLISH ROSE	76	77	-	-	
LIGHT ROSE	78	79	-	-	
ORANGE	80	81	-	-	
DEEP AMBER	82	83	-	-	
STRAW	84	85	-	-	
LIGHT AMBER	86	87	-	-	
SPRING YELLOW	88	89	-	-	
DARK YELLOW GREEN	90	91	-	-	

Color Macro

Function	8 bit value		16 bit value		Note
	From	To	From	To	
JUST BLUE	92	93	-	-	
SKY BLUE	94	95	-	-	
LAVENDER	96	97	-	-	
LIGHT LAVENDER	98	99	-	-	
PINK CARNATION	100	101	-	-	
MEDIUM PINK	102	103	-	-	
LIGHT PINK	104	105	-	-	
SUNSET RED	106	107	-	-	
DARK AMBER	108	109	-	-	
GOLD AMBER	110	111	-	-	
MEDIUM AMBER	112	113	-	-	
FIRE	114	115	-	-	
SURPRISE PEACH	116	117	-	-	
STRAW TINT	118	119	-	-	
MEDIUM YELLOW	120	121	-	-	
LEE MINUS GREEN	122	123	-	-	
PALE GOLD	124	125	-	-	
ORANGE	126	127	-	-	
DEEP STRAW	128	129	-	-	
ROSE PURPLE	130	131	-	-	
DEEP PURPLE	132	133	-	-	
SOFT GREEN	134	135	-	-	
Reserved	136	209	-	-	
2700K	210	211	-	-	
2800K	212	213	-	-	
3000K	214	215	-	-	
3200K	216	217	-	-	
3400K	218	219	-	-	
3600K	220	221	-	-	
3800K	222	223	-	-	
4000K	224	225	-	-	
4200K	226	227	-	-	
4400K	228	229	-	-	
4600K	230	231	-	-	
4800K	232	233	-	-	
5000K	234	235	-	-	
5200K	236	237	-	-	
5400K	238	239	-	-	
5600K	240	241	-	-	
6000K	242	243	-	-	
6500K	244	245	-	-	
7000K	246	247	-	-	
8000K	248	249	-	-	
9000K	250	251	-	-	
10000K	252	253	-	-	
FULL ON	254	255	-	-	

Control Channel

Function		8 bit value		16 bit value		Note
		From	To	From	To	
No Function / Safe		0	1	-	-	Default @ 0
DISPLAY	ON	2	3	-	-	Hold 3s to take function
	10s	4	5	-	-	
	20s	6	7	-	-	
	30s	8	9	-	-	
FLIP DISPLAY	ON	10	11	-	-	
	OFF	12	13	-	-	
KEY LOCK	ON	14	15	-	-	
	OFF	16	17	-	-	
DIMMER CURVE	LINEAR	18	19	-	-	
	S-CURVE	20	21	-	-	
	SQUARE LAW	22	23	-	-	
	INVERSE SQUARE LAW	24	25	-	-	
	HIGH RES@LOW	26	27	-	-	
	INCANDESCENT	28	29	-	-	
DIMMER SPEED	**AUTO**	30	31	-	-	
	FAST	32	33	-	-	
	MEDIUM	34	35	-	-	
	SLOW	36	37	-	-	
	INCANDESCENT	38	39	-	-	
	OFF	40	41	-	-	
DIMMER END	**FADE OFF END**	42	43	-	-	
	SNAP OFF END	44	45	-	-	
Reserved		46	47	-	-	
SPEKTRA CALIBRATION	**PURE COLORS**	48	49	-	-	
	OFF	50	51	-	-	
Reserved		52	55	-	-	
WHITE POINT	**3200K**	56	57	-	-	
	4000K	58	59	-	-	
	5600K	60	61	-	-	
	6000K	62	63	-	-	
	8000K	64	65	-	-	
LED FREQUENCY	1000Hz	66	67	-	-	
	2000HZ	68	69	-	-	
	4000HZ	70	71	-	-	
	6000HZ	72	73	-	-	
	25KHZ	74	75	-	-	
DMX FAULT	HOLD	76	77	-	-	
	BLACKOUT	78	79	-	-	
	STAND ALONE	80	81	-	-	
	EMERGENCY	82	83	-	-	
TUNGSTEN EMULATION	**ON**	84	85	-	-	
	OFF	86	87	-	-	
INVERT MAPPING	ON	88	89	-	-	
	OFF	90	91	-	-	

Control Channel

Function		8 bit value		16 bit value		Note
		From	To	From	To	
STANDALONE	MASTER	92	93	-	-	
	MASTER NO DMX	94	95	-	-	
	SLAVE	96	97	-	-	
	CCT	98	99	-	-	
	HSI	100	101	-	-	
	FIXED COLORS	102	103	-	-	
	WHITE PRESETS	104	105	-	-	
	Reserved	106	107	-	-	
	COLOR MACRO	108	109	-	-	
	MANUAL COLORS	110	111	-	-	
FAN MODE	**CO AUTO**	112	113	-	-	
	CO HIGH	114	115	-	-	
	CO SILENT 1	116	117	-	-	
	CO SILENT 2	118	119	-	-	
	CO OFF	120	121	-	-	
	DO AUTO	122	123	-	-	
	DO HIGH	124	125	-	-	
	DO SILENT 1	126	127	-	-	
	DO SILENT 2	128	129	-	-	
	DO OFF	130	131	-	-	
Reserved		132	251	-	-	
Reset all channel controlled		252	253	-	-	
Reserved		254	255	-	-	