

10 - DMX CHARTS

RDM Model ID: 0xD181

RDM Personality ID List

ID	DMX Modes	Footprint
1	DWE 1	1 ch
2	DWE 4	4 ch
3	DWE 1+	5 ch
4	CCT	4 ch
5	RAW	6 ch
6	STROBE	8 ch
7	STANDARD 8 bit	9 ch
8	STANDARD 16 bit	13 ch
9	EXTENDED	15 ch
10	EXTENDED 16 bit	18 ch

RDM Personality ID List

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

DMX MODES

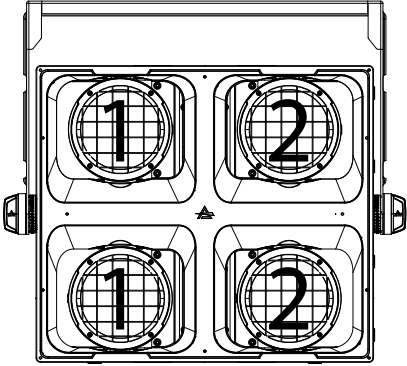
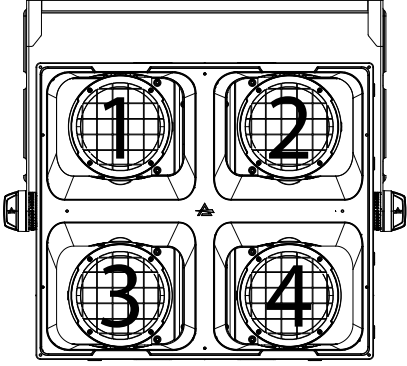
Ch	DWE 1	DWE 4	DWE 1+	CCT	RAW	STROBE
1	Dimmer	Dimmer 1	Dimmer	Dimmer	Dimmer	Master Dim.
2		Dimmer 2	CCT	Strobe	Strobe	Dimmer 1
3		Dimmer 3	Dim. Curve	CCT	Warm White	Dimmer 2
4		Dimmer 4	Dim. Speed	Control	Cold White	Strobe
5			Tungsten Em.		Amber	Str. Duration
6					Control	Str. Rate
7						CCT
8						Control
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						

DMX MODES

Ch	STANDARD 8 bit	STANDARD 16 bit	EXTENDED	EXTENDED 16 bit
1	Master Dim.	Master Dim.	Master Dim.	Master Dim.
2	Dimmer 1	Master Dim.Fine	Strobe	Master Dim.Fine
3	Dimmer 2	Strobe	Strobe Duration	Strobe
4	Strobe	Dimmer 1	Strobe Rate	Strobe Duration
5	CCT	Dimmer 1 Fine	Dimmer 1	Strobe Rate
6	Dimmer Curve	CCT 1	CCT 1	Dimmer 1
7	Dimmer Speed	Dimmer 2	Dimmer 2	Dimmer 1 Fine
8	Tungsten Em.	Dimmer 2 Fine	CCT 2	CCT 1
9	Control	CCT 2	Effects	Dimmer 2
10		Dimmer Curve	Effect Speed	Dimmer 2 Fine
11		Dimmer Speed	Dimmer Curve	CCT 2
12		Tungsten Em.	Dimmer Speed	Effects
13		Control	Tungsten Em.	Effect Speed
14			Control	Dimmer Curve
15			Xfade To Pixel	Dimmer Speed
16				Tungsten Em.
17				Control
18				Xfade To Pixel

PIXEL ENGINE

Ch	DIRECT 4	DIRECT 8
1	Warm White 1	Warm White 1
2	Cold White 1	Warm White 1 Fine
3	Warm White 2	Cold White 1
4	Cold White 2	Cold White 1 Fine
5	Warm White 3	Warm White 2
6	Cold White 3	Warm White 2 Fine
7	Warm White 4	Cold White 2
8	Cold White 4	Cold White 2 Fine
9		Warm White 3
10		Warm White 3 Fine
11		Cold White 3
12		Cold White 3 Fine
13		Warm White 4
14		Warm White 4 Fine
15		Cold White 4
16		Cold White 4 Fine

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 (WARM WHITE - COLD 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	-	-	Random flash on all fixture
Close	129	130	-	-	
Random (slow to fast)	131	170	-	-	
Open	171	172	-	-	Flash on random pixels
Random single pixels (slow to fast)	173	212	-	-	
Open	213	214	-	-	Flash on low light
Spikers (slow to fast)	215	254	-	-	
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 (2700K - 6500K)

Function		8 bit value		16 bit value		Note
CCT(K) From	CCT(K) To	From	To	From	To	
2700	2800	0	7	0	1725	Default @ 0
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	

Dimmer Curve

Function	8 bit value		16 bit value		Note
	From	To	From	To	
No Function - Current Preset from Menu	0	29	-	-	Default @ 0 Temporarily overrides Dimmer Curve settings from menu
LINEAR	30	59	-	-	
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 Temporarily overrides Dimmer Speed settings from menu
AUTO	30	59	-	-	
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 Works only with CCT <3500K
ON	30	59	-	-	
OFF	60	89	-	-	
Reserved	90	255	-	-	

Crossfade from CW/WW 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	-	-	

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	-	-	

Control Channel

Function		8 bit value		16 bit value		Note
		From	To	From	To	
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	-	-	
LED FREQUENCY	1000Hz	46	47	-	-	
	2000HZ	48	49	-	-	
	4000HZ	50	51	-	-	
	6000HZ	52	53	-	-	
	25KHZ	54	55	-	-	
DMX FAULT	HOLD	56	57	-	-	
	BLACKOUT	58	59	-	-	
	STAND ALONE	60	61	-	-	
	EMERGENCY	62	63	-	-	
TUNGSTEN EMULATION	ON	64	65	-	-	
	OFF	66	67	-	-	
INVERT MAPPING	ON	68	69	-	-	
	OFF	70	71	-	-	
STANDALONE	MASTER	72	73	-	-	
	MASTER NO DMX	74	75	-	-	
	SLAVE	76	77	-	-	
	CCT	78	79	-	-	
	WHITE PRESETS	80	81	-	-	
	MANUAL COLORS	82	83	-	-	
FAN MODE	CO AUTO	84	85	-	-	
	CO HIGH	86	87	-	-	
	CO SILENT 1	88	89	-	-	
	CO SILENT 2	90	91	-	-	
	CO OFF	92	93	-	-	
	DO AUTO	94	95	-	-	
	DO HIGH	96	97	-	-	
	DO SILENT 1	98	99	-	-	
	DO SILENT 2	100	101	-	-	
Reserved		104	251	-	-	
Reset all channel controlled		252	253	-	-	
Reserved		254	255	-	-	