

# DMX CHARTS

RDM Model ID: 0xD158

## RDM Personality ID List

ID	DMX Mode	Footprint
1	UNO	1CH
2	BASIC	5CH
3	STANDARD	11CH
4	EXTENDED	17CH
5	LEGACY 4CH	4CH
6	LEGACY 6CH	6CH
7	LEGACY 10CH	10CH
8	LEGACY HSV	3CH
9	LEGACY HSI	3CH

## DMX BASIC MODES

PARAMETER	UNO (1ch)	BASIC (5ch)	STANDARD (11ch)	EXTENDED (17ch)
DIMMER	1	1	1	1
DIMMER FINE	-	-	2	2
STROBE	-	-	3	3
CCT	-	-	4	4
GMP	-	-	-	5
CROSSFADE	-	-	5	6
RED	-	2	6	7
RED FINE	-	-	-	8
GREEN	-	3	7	9
GREEN FINE	-	-	-	10
BLUE	-	4	8	11
BLUE FINE	-	-	-	12
WARM WHITE	-	5	9	13
WARM WHITE FINE	-	-	-	14
COLOR MACRO	-	-	10	15
CTO ON COLORS	-	-	-	16
CONTROL	-	-	11	17

**DMX LEGACY MODES**

PARAMETER	4CH	6CH	10CH	HSV	HSI
DIMMER	-	1	1	-	-
RED	1	2	2	-	-
GREEN	2	3	3	-	-
BLUE	3	4	4	-	-
WARM WHITE	4	5	5	-	-
STROBE	-	6	6	-	-
COLOR MACRO	-	-	7	-	-
AUTO PROGRAM	-	-	8	-	-
AUTO SPEED	-	-	9	-	-
DIMMER CURVE	-	-	10	-	-
HUE	-	-	-	1	1
SATURATION	-	-	-	2	2
BRIGHTNESS	-	-	-	3	-
INTENSITY	-	-	-	-	3

## 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%)

### Strobe

Function	8 bit value		16 bit value		Note
	From	To	From	To	
Open	0	1	-	-	Default @ 255
Strobe from Slow to Fast	2	62	-	-	
Open	63	64	-	-	
Pulse In from slow to fast	65	125	-	-	
Close	126	127	-	-	
Pulse Out from slow to fast	128	188	-	-	
Open	189	190	-	-	
Random from slow to fast	191	251	-	-	
Open	252	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	

**CCT (2800K - 10000K)**

Function		8 bit value		16 bit value		Note
CCT(K) From	CCT(K) To	From	To	From	To	
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	
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 @ 0
Neutral	128	128	-	-	
0 to 25%	129	255	-	-	

**Crossfade from CCT to Color**

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

**Colors (RED - GREEN - BLUE - WARM 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)

**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 BLUE	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	-	-	

**Color Macro**

Function	8 bit value		16 bit value		Note
	From	To	From	To	
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	-	-	
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 for future use	136	209	-	-	
2700K	210	211	-	-	
2800K	212	213	-	-	
3000K	214	215	-	-	

### Color Macro

Function	8 bit value		16 bit value		Note
	From	To	From	To	
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	-	-	

### CTO on Colors

Function	8 bit value		16 bit value		Note
	From	To	From	To	
Linear CTO 0 - 100%	0	255	-	-	Default @ 0

### Control Channel

Function	8 bit value		16 bit value		Note
	From	To	From	To	
No Function	0	1	-	-	Default @ 0
Backlight	Always 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	-	
Reserved	18	25	-	-	
Dimmer Curve	Linear	26	27	-	
	S-curve	28	29	-	
	Square Law	30	31	-	
	Inverse Square Law	32	33	-	

### Control Channel

Function		8 bit value		16 bit value		Note
		From	To	From	To	
Dimmer Speed	Auto	34	35	-	-	
	Fast	36	37	-	-	
	Medium	38	39	-	-	
	Slow	40	41	-	-	
Led Frequency	600hz	42	43	-	-	
	1200hz	44	45	-	-	
	2000hz	46	47	-	-	
	4000hz	48	49	-	-	
	6000hz	50	51	-	-	
Run Time	25khz	52	53	-	-	
	3h	54	55	-	-	
	6h	56	57	-	-	
	8h	58	59	-	-	
	12h	60	61	-	-	
IR Control	18h	62	63	-	-	
	On	64	65	-	-	
Dmx Fault	Off	66	67	-	-	
	Hold	68	69	-	-	
Dmx Fault	Blackout	70	71	-	-	
	Stand Alone	72	73	-	-	
Dmx Fault	Emergency	74	75	-	-	
	Reserved	76	91	-	-	
Tungsten Emulation	Off	92	93	-	-	
	On	94	95	-	-	
Standalone	Master DMX	96	97	-	-	
	Master no DMX	98	99	-	-	
	Slave	100	101	-	-	
	Effect 1	102	103	-	-	
	Effect 2	104	105	-	-	
	Effect 3	106	107	-	-	
	Effect 4	108	109	-	-	
	Effect 5	110	111	-	-	
	Fixed colors	112	113	-	-	
	Color macro	114	115	-	-	
	White presets	116	117	-	-	
	Manual colors	118	119	-	-	
Reserved	120	253	-	-		
Reset all channel controlled	254	255	-	-		