

# DMX CHARTS

RDM Personality ID List

| ID | DMX Mode    | Footprint |
|----|-------------|-----------|
| 1  | BASIC       | 6CH       |
| 2  | BASIC 16BIT | 11CH      |
| 3  | STANDARD    | 7CH       |
| 4  | EXTENDED    | 15CH      |

RDM Model ID: 0xD164

| PARAMETER       | MODE  |             |          |          |
|-----------------|-------|-------------|----------|----------|
|                 | BASIC | BASIC 16BIT | STANDARD | EXTENDED |
| DIMMER          | 1     | 1           | 1        | 1        |
| DIMMER FINE     | -     | 2           | 2        | 2        |
| STROBE          | -     | -           | 3        | 3        |
| CCT             | -     | -           | 4        | 4        |
| CROSSFADE       | -     | -           | 5        | 5        |
| RED             | 2     | 3           | -        | 6        |
| RED FINE        | -     | 4           | -        | 7        |
| GREEN           | 3     | 5           | -        | 8        |
| GREEN FINE      | -     | 6           | -        | 9        |
| BLUE            | 4     | 7           | -        | 10       |
| BLUE FINE       | -     | 8           | -        | 11       |
| WARM WHITE      | 5     | 9           | -        | 12       |
| WARM WHITE FINE | -     | 10          | -        | 13       |
| COLOR MACRO     | -     | -           | 6        | 14       |
| CONTROL         | 6     | 11          | 7        | 15       |

DMX CHANNEL DETAILS

| BASIC | BASIC<br>16BIT | STNDRD | EXTND | Function                                                  | DMX value |     | Default |
|-------|----------------|--------|-------|-----------------------------------------------------------|-----------|-----|---------|
|       |                |        |       |                                                           | from      | to  |         |
| 1     | 1              | 1      | 1     | <b>MASTER DIMMER</b><br>Lineary from close to open        | 000       | 255 | 000     |
| -     | 2              | 2      | 2     | <b>MASTER DIMMER FINE</b><br>Lineary from close to open   | 000       | 255 | 000     |
| -     | -              | 3      | 3     | <b>STROBE</b>                                             |           |     | 0       |
|       |                |        |       | Open                                                      | 0         | 1   |         |
|       |                |        |       | 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 |         |
|       |                |        |       | Randon from slow to fast                                  | 191       | 251 |         |
|       |                |        |       | Open                                                      | 252       | 255 |         |
| -     | -              | 4      | 4     | <b>CCT</b><br>Check "CCT" on page 19                      | 000       | 255 | 000     |
| -     | -              | 5      | 5     | <b>XFADE FROM CCT TO COLOR</b><br>Lineary from 0% to 100% | 000       | 255 | 255     |
| 2     | 3              | -      | 6     | <b>RED</b><br>Lineary from 0% to 100%                     | 000       | 255 | 000     |
| -     | 4              | -      | 7     | <b>RED FINE</b><br>Lineary from 0% to 100%                | 000       | 255 | 000     |
| 3     | 5              | -      | 8     | <b>GREEN</b><br>Lineary from 0% to 100%                   | 000       | 255 | 000     |
| -     | 6              | -      | 9     | <b>GREEN FINE</b><br>Lineary from 0% to 100%              | 000       | 255 | 000     |
| 4     | 7              | -      | 10    | <b>BLUE</b><br>Lineary from 0% to 100%                    | 000       | 255 | 000     |
| -     | 8              | -      | 11    | <b>BLUE FINE</b><br>Lineary from 0% to 100%               | 000       | 255 | 000     |
| 5     | 9              | -      | 12    | <b>WARM WHITE</b><br>Lineary from 0% to 100%              | 000       | 255 | 000     |
| -     | 10             | -      | 13    | <b>WARM WHITE FINE</b><br>Lineary from 0% to 100%         | 000       | 255 | 000     |
| -     | -              | 6      | 14    | <b>COLOR MACRO</b><br>Check "Color macro" on page 21      | ///       | /// | 000     |
| 6     | 11             | 7      | 15    | <b>CONTROL</b><br>Check "Control Channel" on page 22      | ///       | /// | 000     |

# CCT (2800K - 10000K)

| Function       |              | 8 bit value |     | 16 bit value |       | Note        |
|----------------|--------------|-------------|-----|--------------|-------|-------------|
| CCT(K)<br>From | CCT(K)<br>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)<br>From | CCT(K)<br>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 |      |

## COLOR MACRO

| Function          | 8 bit value |     | Gel # |
|-------------------|-------------|-----|-------|
| Gel Name          | From        | To  |       |
| No Function       | 0           | 1   | None  |
| Red               | 2           | 3   | None  |
| Green             | 4           | 5   | None  |
| Blue              | 6           | 7   | None  |
| Cyan              | 8           | 9   | None  |
| Magenta           | 10          | 11  | None  |
| Yellow            | 12          | 13  | None  |
| Dirty White       | 14          | 15  | LEE   |
| Alice Blue        | 16          | 17  | LEE   |
| Congo Blue        | 18          | 19  | LEE   |
| Dark Steel Blue   | 20          | 21  | LEE   |
| Deep Lavender     | 22          | 23  | LEE   |
| Lilac Ting        | 24          | 25  | LEE   |
| Daylight Blue     | 26          | 27  | LEE   |
| Flame Red         | 28          | 29  | LEE   |
| Bastard Amber     | 30          | 31  | LEE   |
| Deep Orange       | 32          | 33  | LEE   |
| Pale Gold         | 34          | 35  | LEE   |
| Apricot           | 36          | 37  | LEE   |
| Bright Blue       | 38          | 39  | LEE   |
| Primary Green     | 40          | 41  | LEE   |
| Special Lavender  | 42          | 43  | LEE   |
| Pale Lavender     | 44          | 45  | LEE   |
| Deep Golden Amber | 46          | 47  | LEE   |
| Medium Blue       | 48          | 49  | LEE   |
| Bright Pink       | 50          | 51  | LEE   |
| Mauve             | 52          | 53  | LEE   |
| Dark Green        | 54          | 55  | LEE   |
| Lee Green         | 56          | 57  | LEE   |
| Dark Blue         | 58          | 59  | LEE   |
| Light Blue        | 60          | 61  | LEE   |
| Steel Blue        | 62          | 63  | LEE   |
| Medium Blue-Green | 64          | 65  | LEE   |
| Peacock Blue      | 66          | 67  | LEE   |
| Magenta           | 68          | 69  | LEE   |
| Dark Pink         | 70          | 71  | LEE   |
| Middle Rose       | 72          | 73  | LEE   |
| Light Salmon      | 74          | 75  | LEE   |
| English Rose      | 76          | 77  | LEE   |
| Light Rose        | 78          | 79  | LEE   |
| Orange            | 80          | 81  | LEE   |
| Deep Amber        | 82          | 83  | LEE   |
| Straw             | 84          | 85  | LEE   |
| Light Amber       | 86          | 87  | LEE   |
| Spring Yellow     | 88          | 89  | LEE   |
| Dark Yellow Green | 90          | 91  | LEE   |
| Just Blue         | 92          | 93  | LEE   |
| Sky Blue          | 94          | 95  | LEE   |
| Lavender          | 96          | 97  | LEE   |
| Light Lavender    | 98          | 99  | LEE   |
| Pink Carnation    | 100         | 101 | LEE   |

## COLOR MACRO

| Function        | 8 bit value |     | Gel # |
|-----------------|-------------|-----|-------|
| Gel Name        | From        | To  |       |
| Medium Pink     | 102         | 103 | LEE   |
| Light Pink      | 104         | 105 | LEE   |
| Sunset Red      | 106         | 107 | LEE   |
| Dark Amber      | 108         | 109 | LEE   |
| Gold Amber      | 110         | 111 | LEE   |
| Medium Amber    | 112         | 113 | LEE   |
| Fire            | 114         | 115 | LEE   |
| Surprise Peach  | 116         | 117 | LEE   |
| Straw Tint      | 118         | 119 | LEE   |
| Medium Yellow   | 120         | 121 | LEE   |
| Lee Minus Green | 122         | 123 | LEE   |
| Pale Gold       | 124         | 125 | LEE   |
| Orange          | 126         | 127 | LEE   |
| Deep Straw      | 128         | 129 | LEE   |
| Rose Purple     | 130         | 131 | LEE   |
| Deep Purple     | 132         | 133 | LEE   |
| Soft Green      | 134         | 135 | LEE   |
| Reserved        | 136         | 211 | -     |
| 2800K           | 212         | 213 | 0     |
| 3000K           | 214         | 215 | 1     |
| 3200K           | 216         | 217 | 2     |
| 3400K           | 218         | 219 | 3     |
| 3600K           | 220         | 221 | 4     |
| 3800K           | 222         | 223 | 5     |
| 4000K           | 224         | 225 | 6     |
| 4200K           | 226         | 227 | 7     |
| 4400K           | 228         | 229 | 8     |
| 4600K           | 230         | 231 | 9     |
| 4800K           | 232         | 233 | 10    |
| 5000K           | 234         | 235 | 11    |
| 5200K           | 236         | 237 | 12    |
| 5400K           | 238         | 239 | 13    |
| 5600K           | 240         | 241 | 14    |
| 6000K           | 242         | 243 | 15    |
| 6500K           | 244         | 245 | 16    |
| 7000K           | 246         | 247 | 17    |
| 8000K           | 248         | 249 | 18    |
| 9000K           | 250         | 251 | 19    |
| 10000K          | 252         | 253 | 20    |
| Full ON         | 254         | 255 | -     |

## CONTROL CHANNEL

| Function<br>Hold 3s to take function |                                 | 8 bit value |     | Note        |
|--------------------------------------|---------------------------------|-------------|-----|-------------|
|                                      |                                 | From        | To  |             |
| No Function / Safe                   |                                 | 0           | 1   | Default @ 0 |
| DIMMER CURVE                         | DIMMER CURVE LINEAR             | 2           | 3   |             |
|                                      | DIMMER CURVE S-CURVE            | 4           | 5   |             |
|                                      | DIMMER CURVE SQUARE LAW         | 6           | 7   |             |
|                                      | DIMMER CURVE INVERSE SQUARE LAW | 8           | 9   |             |
| DIMMER SPEED                         | DIMMER SPEED AUTO               | 10          | 11  |             |
|                                      | DIMMER SPEED FAST               | 12          | 13  |             |
|                                      | DIMMER SPEED MEDIUM             | 14          | 15  |             |
|                                      | DIMMER SPEED SLOW               | 16          | 17  |             |
| LED FREQUENCY                        | LED FREQUENCY 600HZ             | 18          | 19  |             |
|                                      | LED FREQUENCY 1200HZ            | 20          | 21  |             |
|                                      | LED FREQUENCY 2000HZ            | 22          | 23  |             |
|                                      | LED FREQUENCY 4000HZ            | 24          | 25  |             |
|                                      | LED FREQUENCY 6000HZ            | 26          | 27  |             |
| DMX FAULT                            | LED FREQUENCY 25KHZ             | 28          | 29  |             |
|                                      | DMX FAULT HOLD                  | 30          | 31  |             |
|                                      | DMX FAULT BLACKOUT              | 32          | 33  |             |
| STAND ALONE                          | DMX FAULT STAND ALONE           | 34          | 35  |             |
|                                      | STAND ALONE MASTER DMX          | 36          | 37  |             |
|                                      | STAND ALONE MASTER NO DMX       | 38          | 39  |             |
|                                      | STAND ALONE SLAVE               | 40          | 41  |             |
|                                      | STAND ALONE STATIC COLORS       | 42          | 43  |             |
|                                      | STAND ALONE CCT                 | 44          | 45  |             |
|                                      | STAND ALONE COLOR MACRO         | 46          | 47  |             |
|                                      | STAND ALONE WHITE PRESETS       | 48          | 49  |             |
| Reserved                             |                                 | 50          | 51  |             |
| Reserved                             |                                 | 52          | 251 |             |
| FACTORY DEFAULT OF CONTROL FUNCTIONS |                                 | 252         | 253 |             |
| Reserved                             |                                 | 254         | 255 |             |