

| DMX CHANNEL | | PARAMETER | DEFAULTS | RANGE DMX | DESCRIPTION |
|-------------|---------------------------|----------------------------------|----------|-----------|---|
| 16-BIT | 16-BIT EXTENDED (DEFAULT) | | | | |
| 1 | 1 | Intensity High | 0 | 0-65535 | 16-Bit control of Dimming |
| 2 | 2 | Intensity Low | | | |
| 3 | 3 | Pan High | 32767 | 0-65535 | 540° Total Pan Rotation |
| 4 | 4 | Pan Low | | | |
| 5 | 5 | Tilt High | 32767 | 0-65535 | 270° Total Tilt |
| 6 | 6 | Tilt Low | | | |
| 7 | 7 | Focus High | 32767 | 0-65535 | Focus control Default value 50% Focus range |
| 8 | 8 | Focus Low | | | |
| 9 | 9 | Zoom High | 32767 | 0-65535 | Zoom control Default value 50% zoom range |
| 10 | 10 | Zoom Low | | | |
| 11 | 11 | Cyan | 0 | 0 - 255 | Cyan Color Control 0-100% saturation |
| 12 | 12 | Yellow | 0 | 0 - 255 | Yellow Color Control 0-100% saturation |
| 13 | 13 | Magenta | 0 | 0 - 255 | Magenta Color Control 0-100% saturation |
| 14 | 14 | CTO Wheel | 0 | 0 - 255 | CTO Color Control 0-100% saturation |
| 15 | 15 | Color Adjustment (Color Wheel 2) | 0 | 0 - 255 | 8-bit control of Color Adjustment (Color Wheel 2) . |
| | | | | 0 - 30 | Open |
| | | | | 31 - 60 | CRI Booster |
| | | | | 61 - 90 | 1/2 Minus Green |
| | | | | 91-120 | 1/4 Minus Green |
| | | | | 121--180 | CTB |
| | | | | 181-255 | Reserved |
| 16 | 16 | Color Wheel 1 (Color Wheel) | 0 | 0 - 255 | 8-bit control of Color Wheel. (spin speed slow to fast from control channel) OPEN (centered at 0) |
| | | | | 0-31 | Open |
| | | | | 32-63 | Red Center - 48 |
| | | | | 64-95 | Dark Blue Center - 80 |
| | | | | 96-127 | Yellow Center - 112 |
| | | | | 128-159 | Kelly Green Center - 144 |
| | | | | 160-191 | Amber Center - 176 |
| | | | | 192-223 | Congo Blue Center - 208 |
| 224-255 | Open | | | | |

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|-------------|---------------------------|-----------------------|----------|-----------|--|
| 16-BIT | 16-BIT EXTENDED (DEFAULT) | | | | |
| 17 | 17 | Color Wheel 1 Control | 0 | 0 - 255 | |
| | | | | 0 - 5 | Linear Movement using shortest (quickest) path. |
| | | | | 6 - 10 | Linear Movement using normal (longest) path. |
| | | | | 11 - 15 | Wheel Spin CW (Forward) |
| | | | | 16 - 20 | Wheel Spin STOP |
| | | | | 21 - 25 | Wheel Spin CCW (Reverse) |
| | | | | 26 - 56 | Color Shake Quickest Path (Slow to Fast) For fastest shake set color timing to 0 |
| | | | | 57 - 87 | Color Shake Normal Path (Slow to Fast) For fastest shake set color timing to 0 |
| | | | | 88 - 255 | Reserved Values |
| 18 | 18 | Gobo Wheel 1 (Fixed) | 0 | 0-255 | 8-bit control of Gobo Wheel See channel 19 for control options |
| | | | | 0 - 20 | Open - No Gobo |
| | | | | 21 - 41 | Gobo 1 Leafy Breakup |
| | | | | 42 - 62 | Gobo 2 Medium Circle |
| | | | | 63 - 83 | Gobo 3 Square Pile |
| | | | | 84 - 104 | Gobo 4 Confusion |
| | | | | 105 - 125 | Gobo 5 Dust |
| | | | | 126 - 146 | Gobo 6 Neurons |
| | | | | 147 - 167 | Gobo 7 Radial Breakup |
| | | | | 168 - 188 | Gobo 8 Staples |
| | | | | 189 - 209 | Gobo 9 Blobs |
| | | | | 210 - 230 | Gobo 10 Pipes Breakup |
| | | | | 231 - 255 | Open - No Gobo |
| 19 | 19 | Gobo Wheel 1 Control | 0 | 0 - 255 | Used as a control channel for different movement options for Gobo Wheel 1 (Channel 18) |
| | | | | 0 - 5 | Gobo Selection using shortest (quickest) path. |
| | | | | 6 - 10 | Gobo Selection using normal (longest) path. |
| | | | | 11 - 20 | Reserved Values |
| | | | | 21 - 50 | Wheel Spin CW Forward (Fast to Slow) |
| | | | | 51 - 60 | Wheel Spin STOP |
| | | | | 61 - 90 | Wheel Spin CCW Reverse (Slow to Fast) |
| | | | | 91 - 120 | Gobo Shake Quickest Path (Slow to Fast) For fastest shake set gobo timing to 0 |
| | | | | 121 - 150 | Gobo Shake Normal Path (Slow to Fast) For fastest shake set gobo timing to 0 |
| | | | | 151 - 180 | Reserved Values |
| | | | | 181 - 210 | Reserved Values |
| | | | | | |

| DMX CHANNEL | | PARAMETER | DEFAULTS | RANGE DMX | DESCRIPTION |
|-------------|--|-------------------------------------|----------|---------------|--|
| 16-BIT | 16-BIT EXTENDED (DEFAULT) | | | | |
| 20 | 20 | Gobo Wheel 2 | 0 | 0 - 255 | 8-bit control of Gobo Wheel 2. See channel 21 for Index/Rotation See channel 23 for control options. |
| | | | | 0 - 5 | Open - No Gobo |
| | | | | 6 - 10 | Gobo 1 Night Sky Index |
| | | | | 11 - 15 | Gobo 2 New Twirler Index |
| | | | | 16 - 20 | Gobo 3 Bricked Out Index |
| | | | | 21 - 25 | Gobo 4 Horizontal Slits Index |
| | | | | 26 - 30 | Gobo 5 Super Alpha Rays Index |
| | | | | 31 - 35 | Gobo 6 Honey Comb Reverse Index |
| | | | | 36 - 40 | Gobo 7 On the Rocks Index |
| | | | | 41 - 45 | Open - No Gobo |
| | | | | 46 - 50 | Gobo 1 Night Sky Rotate |
| | | | | 51 - 55 | Gobo 2 New Twirler Rotate |
| | | | | 56 - 60 | Gobo 3 Bricked Out Rotate |
| | | | | 61 - 65 | Gobo 4 Horizontal Slits Rotate |
| | | | | 66 - 70 | Gobo 5 Super Alpha Rays Rotate |
| | | | | 71 - 75 | Gobo 6 Honey Comb Reverse Rotate |
| | | | | 76 - 80 | Gobo 7 On the Rocks Rotate |
| | | | | 81 - 85 | Open - No Gobo |
| | | | | 86 - 90 | Gobo 1 Night Sky Rotate Mega Stepping |
| | | | | 91 - 95 | Gobo 2 New Twirler Rotate Mega Stepping |
| | | | | 96 - 100 | Gobo 3 Bricked Out Rotate Mega Stepping |
| | | | | 101 - 105 | Gobo 4 Horizontal Slits Rotate Mega Stepping |
| | | | | 106 - 110 | Gobo 5 Super Alpha Rays Rotate Mega Stepping |
| 111 - 115 | Gobo 6 Honey Comb Reverse Rotate Mega Stepping | | | | |
| 116 - 120 | Gobo 7 On the Rocks Rotate Mega Stepping | | | | |
| 121 - 255 | Open - No Gobo | | | | |
| 21 | 21 | Gobo Wheel 2 Rotate/Index High Byte | 32767 | 0 - 65535 | 16-bit control of index and rotation of gobo wheel 2. |
| 22 | 22 | Low Byte | | 0 - 32756 | Rotate Fast to Slow <<< |
| | | | | 32757 - 32780 | Rotation STOP |
| | | | | 32781 - 65535 | Rotate Slow to Fast >>> |

| DMX CHANNEL | | PARAMETER | DEFAULTS | RANGE DMX | DESCRIPTION |
|-------------|---------------------------|--|----------|---------------|--|
| 16-BIT | 16-BIT EXTENDED (DEFAULT) | | | | |
| 23 | 23 | Gobo Wheel 2 Control | 0 | 0 - 255 | Used as a control channel for different movement options for Gobo Wheel 2 (Channel 20) |
| | | | | 0 - 5 | Gobo Selection using shortest (quickest) path. |
| | | | | 6 - 10 | Gobo Selection using normal (longest) path. |
| | | | | 11 - 20 | Reserved Values |
| | | | | 21 - 50 | Wheel Spin CW Forward (Fast to Slow) |
| | | | | 51 - 60 | Wheel Spin STOP |
| | | | | 61 - 90 | Wheel Spin CCW Reverse (Slow to Fast) |
| | | | | 91 - 120 | Gobo Shake Quickest Path (Slow to Fast) For fastest shake set gobo timing to 0 |
| | | | | 121 - 150 | Gobo Shake Normal Path (Slow to Fast) For fastest shake set gobo timing to 0 |
| | | | | 151 - 180 | Gobo Twist Quickest Path (Slow to Fast) For fastest twist set gobo timing to 0 |
| | | | | 181 - 210 | Gobo Twist Normal Path (Slow to Fast) For fastest twist set gobo timing to 0 |
| | | | | 211 - 255 | Reserved Values |
| 24 | 24 | VLFX (Gobo Wheel 3) | 0 | 0 - 255 | 8-bit control of VLFX (Gobo Wheel 3). See Channel 27 for control options. |
| | | | | 0 -10 | Open - No Gobo |
| | | | | 11 -33 | Gobo 1 Amoeboid chamber Index |
| | | | | 34 -56 | Gobo 2 Dichrofusion Index |
| | | | | 57 -79 | Gobo 3 Concurrent Index |
| | | | | 80 -90 | Open - No Gobo |
| | | | | 91 -113 | Gobo 1 Amoeboid chamber Rotate |
| | | | | 114 -136 | Gobo 2 Dichrofusion Rotate |
| | | | | 137 -159 | Gobo 3 Concurrent Rotate |
| | | | | 160 -170 | Open - No Gobo |
| | | | | 171 -193 | Gobo 1 Amoeboid chamber Rotate Mega Stepping |
| | | | | 194 -216 | Gobo 2 Dichrofusion Rotate Mega Stepping |
| | | | | 217 -239 | Gobo 3 Concurrent Rotate Mega Stepping |
| | | | | 240 -255 | Open - No Gobo |
| 25 | 25 | VLFX (Gobo Wheel 3) Rotate/Index High Byte | 32767 | 0 - 65535 | 16-bit control of index and rotation of VLFX (Gobo wheel 3). |
| | | | | 0 - 32756 | Rotate Fast to Slow <<< |
| 26 | 26 | Low Byte | 32767 | 32757 - 32780 | Rotation STOP |
| | | | | 32781 - 65535 | Rotate Slow to Fast >>> |

| DMX CHANNEL | | PARAMETER | DEFAULTS | RANGE DMX | DESCRIPTION |
|-------------|---------------------------|---------------------------|----------|-----------|--|
| 16-BIT | 16-BIT EXTENDED (DEFAULT) | | | | |
| 27 | 27 | VLFX Gobo Wheel 3 Control | 0 | 0 - 255 | Used as a control channel for different movement options for Gobo Wheel 3 (24) |
| | | | | 0 - 5 | Gobo Selection using shortest (quickest) path. |
| | | | | 6 - 10 | Gobo Selection using normal (longest) path. |
| | | | | 11 - 20 | Reserved Values |
| | | | | 21 - 50 | Wheel Spin CW Forward (Fast to Slow) |
| | | | | 51 - 60 | Wheel Spin STOP |
| | | | | 61 - 90 | Wheel Spin CCW Reverse (Slow to Fast) |
| | | | | 91 - 120 | Gobo Shake Quickest Path (Slow to Fast) For fastest shake set gobo timing to 0 |
| | | | | 121 - 150 | Gobo Shake Normal Path (Slow to Fast) For fastest shake set gobo timing to 0 |
| | | | | 151 - 180 | Gobo Twist Quickest Path (Slow to Fast) For fastest twist set gobo timing to 0 |
| | | | | 181 - 210 | Gobo Twist Normal Path (Slow to Fast) For fastest twist set gobo timing to 0 |
| | | | | 211 - 255 | Reserved Values |
| 28 | 28 | Iris | 0 | 0-255 | Iris size control |
| | | | | 0 - 200 | Iris beam size open to closed |
| | | | | 201 - 255 | Iris pulse slow to fast |
| 29 | 29 | Frame 1A | 0 | 0 - 255 | Controls Framing Shutter 1A from Open (DMX 0) to Full (DMX 255). |
| 30 | 30 | Frame 1B | 0 | 0 - 255 | Controls Framing Shutter 1B from Open (DMX 0) to Full (DMX 255). |
| 31 | 31 | Frame 2A | 0 | 0 - 255 | Controls Framing Shutter 2A from Open (DMX 0) to Full (DMX 255). |
| 32 | 32 | Frame 2B | 0 | 0 - 255 | Controls Framing Shutter 2B from Open (DMX 0) to Full (DMX 255). |
| 33 | 33 | Frame 3A | 0 | 0 - 255 | Controls Framing Shutter 3A from Open (DMX 0) to Full (DMX 255). |
| 34 | 34 | Frame 3B | 0 | 0 - 255 | Controls Framing Shutter 3B from Open (DMX 0) to Full (DMX 255). |
| 35 | 35 | Frame 4A | 0 | 0 - 255 | Controls Framing Shutter 4A from Open (DMX 0) to Full (DMX 255). |
| 36 | 36 | Frame 4B | 0 | 0 - 255 | Controls Framing Shutter 4B from Open (DMX 0) to Full (DMX 255). |
| 37 | 37 | Frame Rotate | 128 | 0 - 255 | Controls Framing Shutter mechanism from +/- 60° |

| DMX CHANNEL | | PARAMETER | DEFAULTS | RANGE DMX | DESCRIPTION |
|-------------|---------------------------|----------------------------------|---------------|-------------------------|--|
| 16-BIT | 16-BIT EXTENDED (DEFAULT) | | | | |
| 38 | 38 | Prism 1 (Triangular) | 0 | 0 - 255 | Controls Prism mechanism with following values. |
| | | | | 0 - 5 | Open |
| | | | | 6 - 10 | Index |
| | | | | 11 - 15 | Rotate Normal |
| | | | | 16 - 20 | Rotate with Mega Stepping |
| | | | | 21 - 255 | Reserved Values |
| 39 | 39 | Prism 1 (Index/Rotate) High Byte | 32767 | 0 - 65535 | 16-bit control of prism rotation and index. |
| 40 | 40 | Low Byte | | 0 - 32756 | Rotate Fast to Slow <<< |
| | | | | 32757 - 32780 | Rotation STOP |
| | | | 32781 - 65535 | Rotate Slow to Fast >>> | |
| 41 | 41 | Prism 2 (Flat) | 0 | 0 - 255 | Controls Prism mechanism with following values. |
| | | | | 0 - 5 | Open |
| | | | | 6 - 10 | Index |
| | | | | 11 - 15 | Rotate Normal |
| | | | | 16 - 20 | Rotate with Mega Stepping |
| | | | | 21 - 255 | Reserved Values |
| 42 | 42 | Prism 2 (Index/Rotate) High Byte | 32767 | 0 - 65535 | 16-bit control of prism rotation and index. |
| 43 | 43 | Low Byte | | 0 - 32756 | Rotate Fast to Slow <<< |
| | | | | 32757 - 32780 | Rotation STOP |
| | | | 32781 - 65535 | Rotate Slow to Fast >>> | |
| 44 | 44 | Frost | 0 | 0-255 | Control of dual frost |
| | | | | 0 - 10 | No Frost |
| | | | | 11 - 20 | Frost 1 (light) |
| | | | | 21 - 25 | Frost 2 (heavy) |
| | | | | 26 - 36 | Open |
| | | | | 37-255 | Both Frost 1 & 2 (very heavy) |
| 45 | 45 | Strobe | 0 | 0 - 5 | Shutter open |
| | | | | 6 - 10 | Shutter closed |
| | | | | 11 - 125 | Strobe Slow>>>>>>>Fast 0.5Hz-30Hz |
| | | | | 126 - 130 | Shutter open |
| | | | | 131 - 245 | Strobe Random/Random Sync* Slow>>>>>>>Fast |
| | | | | 246 - 250 | Shutter open |
| | | | | 251 - 255 | Shutter closed *See Programmers channel for mode slection |

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|-------------|---------------------------|---------------------|----------|-----------|---|
| 16-BIT | 16-BIT EXTENDED (DEFAULT) | | | | |
| 46 | 46 | Future use channel | 0 | | Channel reserved for future use |
| 47 | 47 | Programmers Channel | 0 | | Functions do not require 3 second DMX rule, except as noted. Mode will change once DMX level is reached |
| | | | | 0-40 | Idle |
| | | | | 41 - 45 | Dimming Curve Linear (3 second rule) |
| | | | | 46 - 50 | Dimming Curve S-Curve (3 second rule) |
| | | | | 51 - 55 | Dimming Curve Square Curve (Default)** (3 second rule) |
| | | | | 56 - 60 | Dimmer Snap On |
| | | | | 61 - 65 | Dimmer Snap Off (Default) |
| | | | | 66 - 75 | Reserved Values |
| | | | | 76 - 80 | Edge Tracking On |
| | | | | 81 - 85 | Edge Tracking Off (Default) |
| | | | | 86 - 90 | Reserved Values |
| | | | | 91 - 95 | Color Snap Off (Default) |
| | | | | 96 - 100 | Color Snap On (de-activates color timing channel) |
| | | | | 101 - 105 | Reserved Values |
| | | | | 106 - 110 | Strobe Random (Default) |
| 111 - 115 | Strobe Random Sync | | | | |
| 116 - 255 | Reserved Values | | | | |
| | 48 | Focus Timing | 255 | 0 - 255 | Adjustment of fixture timing to control Pan/Tilt mechanisms. See Timing Channel Values |
| | 49 | Optics Timing | 255 | 0 - 255 | Adjustment of fixture timing to control lensing mechanisms. See Timing Channel Values. |
| | 50 | Color Timing | 255 | 0 - 255 | Adjustment of fixture timing to control color mechanisms. See Timing Channel Values. |
| | 51 | Beam Timing | 255 | 0 - 255 | Adjustment of fixture timing to control beam shaping mechanisms. See Timing Channel Values. |
| | 52 | Gobo Timing | 255 | 0 - 255 | Adjustment of fixture timing to control gobo mechanisms. See Timing Channel Values. |

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|-------------|---------------------------|-------------------|----------|-----------|--|
| 16-BIT | 16-BIT EXTENDED (DEFAULT) | | | | |
| 48 | 53 | Fan Control | 0 | 0 - 255 | Dynamically control fan speed vs LED Output operation. Control values as follows . . . |
| | | | | 0-4 | Automatic fan/output adjustment (Default) |
| | | | | 05 - 255 | Linear control of fan speed and LED max output* DMX 5 =Highest Constant Fan Speed (Standard mode) DMX 255 = Lowest Constant Fan Speed (Whisper mode) * Standard mode only. Function is dec-activated if Studio or Boost modes are selected via Dmx or User Interface **Note channel is deactivated by default. The function requires activation for use. Activation is from the UI or the luminaire control channel |
| 49 | 54 | Luminaire Control | 0 | 0 - 255 | Control Channel used for full fixture settings Set discrete value of desired effect, wait >3 sec then set value to 0 (Idle). |
| | | | | 0 - 5 | Idle (Default to 0) |
| | | | | 6 - 10 | Full Luminaire ReCal - also used to wake from shutdown |
| | | | | 11 - 15 | Fixture Shutdown |
| | | | | 16 - 20 | ReBoot |
| | | | | 21 - 25 | Display - Menu On (Will unlock if locked) |
| | | | | 26 - 30 | Display - Menu Off |
| | | | | 31 - 85 | Reserved |
| | | | | 86 - 90 | Status Check |
| | | | | 91 - 95 | Side Hang Disable (Default) |
| | | | | 96 - 100 | Side Hang Enable |
| | | | | 101 - 110 | Reserved |
| | | | | 111 - 115 | Standard Mode (Default) |
| | | | | 116 - 120 | Studio Mode |
| | | | | 121 - 125 | Whisper Mode |
| | | | | 126 - 135 | Reserved |
| | | | | 136 - 140 | Fan On (Default) |
| | | | | 141 - 145 | Fan Auto |
| | | | | 146 - 148 | Fan Control On |
| | | | | 149 - 150 | Fan Control Off (Default) |
| 151 - 155 | ReCal Position | | | | |
| 156 - 160 | ReCal Color | | | | |
| 161 - 165 | ReCal Beam | | | | |
| 166 - 170 | ReCal Optics | | | | |
| 171 - 175 | ReCal Gobo | | | | |
| 176 - 180 | Reset fixture to defaults | | | | |

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|-------------|---------------------------|-------------------------------|----------|-----------|------------------------------|
| 16-BIT | 16-BIT EXTENDED (DEFAULT) | | | | |
| 49 | 54 | Luminaire Control - continued | 0 | 181 - 185 | CTB Correction Off (Default) |
| | | | | 186 - 190 | CTB Correction On |
| | | | | 191 - 195 | Reserved |
| | | | | 196 | LED Refresh 900Hz |
| | | | | 197 | LED Refresh 910Hz |
| | | | | 198 | LED Refresh 920Hz |
| | | | | 199 | LED Refresh 930Hz |
| | | | | 200 | LED Refresh 940Hz |
| | | | | 201 | LED Refresh 950Hz |
| | | | | 202 | LED Refresh 960Hz |
| | | | | 203 | LED Refresh 980Hz |
| | | | | 204 | LED Refresh 990Hz |
| | | | | 205 | LED Refresh 1000Hz |
| | | | | 206 | LED Refresh 1500Hz (Default) |
| | | | | 207 | LED Refresh 2500Hz |
| | | | | 208 | LED Refresh 3000Hz |
| | | | | 209 | LED Refresh 3500Hz |
| | | | | 210 | LED Refresh 4000Hz |
| | | | | 211 | LED Refresh 4500Hz |
| | | | | 212 | LED Refresh 5000Hz |
| | | | | 213 | LED Refresh 5500Hz |
| | | | | 214 | LED Refresh 6000Hz |
| | | | | 215 | LED Refresh 6500Hz |
| | | | | 216 | LED Refresh 7000Hz |
| | | | | 217 | LED Refresh 7500Hz |
| | | | | 218 | LED Refresh 8000Hz |
| | | | | 219 | LED Refresh 8500Hz |
| | | | | 220 | LED Refresh 9000Hz |
| | | | | 221 | LED Refresh 10KHz |
| 222 | LED Refresh 10.5KHz | | | | |
| 223 | LED Refresh 11KHz | | | | |
| 224 | LED Refresh 11.5KHz | | | | |
| 225 | LED Refresh 12.5KHz | | | | |
| 226 | LED Refresh 13KHz | | | | |
| 227 | LED Refresh 13.5KHz | | | | |
| 228 | LED Refresh 14KHz | | | | |
| 229 | LED Refresh 14.5KHz | | | | |

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|-------------|---------------------------|-------------------------------|----------|-----------|------------------------------|
| 16-BIT | 16-BIT EXTENDED (DEFAULT) | | | | |
| 49 | 54 | Luminaire Control - continued | 0 | 181 - 185 | CTB Correction Off (Default) |
| | | | | 186 - 190 | CTB Correction On |
| | | | | 191 - 195 | Reserved |
| | | | | 196 | LED Refresh 900Hz |
| | | | | 197 | LED Refresh 910Hz |
| | | | | 198 | LED Refresh 920Hz |
| | | | | 199 | LED Refresh 930Hz |
| | | | | 200 | LED Refresh 940Hz |
| | | | | 201 | LED Refresh 950Hz |
| | | | | 202 | LED Refresh 960Hz |
| | | | | 203 | LED Refresh 980Hz |
| | | | | 204 | LED Refresh 990Hz |
| | | | | 205 | LED Refresh 1000Hz |
| | | | | 206 | LED Refresh 1500Hz (Default) |
| | | | | 207 | LED Refresh 2500Hz |
| | | | | 208 | LED Refresh 3000Hz |
| | | | | 209 | LED Refresh 3500Hz |
| | | | | 210 | LED Refresh 4000Hz |
| | | | | 211 | LED Refresh 4500Hz |
| | | | | 212 | LED Refresh 5000Hz |
| | | | | 213 | LED Refresh 5500Hz |
| | | | | 214 | LED Refresh 6000Hz |
| | | | | 215 | LED Refresh 6500Hz |
| | | | | 216 | LED Refresh 7000Hz |
| | | | | 217 | LED Refresh 7500Hz |
| | | | | 218 | LED Refresh 8000Hz |
| | | | | 219 | LED Refresh 8500Hz |
| | | | | 220 | LED Refresh 9000Hz |
| | | | | 221 | LED Refresh 10KHz |
| 222 | LED Refresh 10.5KHz | | | | |
| 223 | LED Refresh 11KHz | | | | |
| 224 | LED Refresh 11.5KHz | | | | |
| 225 | LED Refresh 12.5KHz | | | | |
| 226 | LED Refresh 13KHz | | | | |
| 227 | LED Refresh 13.5KHz | | | | |
| 228 | LED Refresh 14KHz | | | | |
| 229 | LED Refresh 14.5KHz | | | | |

Timing Channel Values

| DMX | % VALUES | TIME (SEC) |
|-----|----------|------------|
| 0 | | Full Speed |
| 1 | | 0.2 |
| 2 | | 0.4 |
| 3 | 1 | 0.6 |
| 4 | | 0.8 |
| 5 | 2 | 1 |
| 6 | | 1.2 |
| 7 | | 1.4 |
| 8 | 3 | 1.6 |
| 9 | | 1.8 |
| 10 | 4 | 2 |
| 11 | | 2.2 |
| 12 | | 2.4 |
| 13 | 5 | 2.6 |
| 14 | | 2.8 |
| 15 | 6 | 3 |
| 16 | | 3.2 |
| 17 | | 3.4 |
| 18 | 7 | 3.6 |
| 19 | | 3.8 |
| 20 | 8 | 4 |
| 21 | | 4.2 |
| 22 | | 4.4 |
| 23 | 9 | 4.6 |
| 24 | | 4.8 |
| 25 | 10 | 5 |
| 26 | | 5.2 |
| 27 | | 5.4 |
| 28 | 11 | 5.6 |
| 29 | | 5.8 |
| 30 | | 6 |
| 31 | 12 | 6.2 |
| 32 | | 6.4 |
| 33 | 13 | 6.6 |
| 34 | | 6.8 |
| 35 | | 7 |
| 36 | 14 | 7.2 |
| 37 | | 7.4 |
| 38 | 15 | 7.6 |
| 39 | | 7.8 |
| 40 | | 8 |
| 41 | 16 | 8.2 |
| 42 | | 8.4 |
| 43 | 17 | 8.6 |

| DMX | % VALUES | TIME (SEC) |
|-----|----------|------------|
| 44 | | 8.8 |
| 45 | | 9 |
| 46 | 18 | 9.2 |
| 47 | | 9.4 |
| 48 | 19 | 9.6 |
| 49 | | 9.8 |
| 50 | | 10 |
| 51 | 20 | 10.2 |
| 52 | | 10.4 |
| 53 | | 10.6 |
| 54 | 21 | 11 |
| 55 | | 11 |
| 56 | 22 | 12 |
| 57 | | 12 |
| 58 | | 13 |
| 59 | 23 | 13 |
| 60 | | 14 |
| 61 | 24 | 14 |
| 62 | | 14 |
| 63 | | 15 |
| 64 | 25 | 15 |
| 65 | | 16 |
| 66 | 26 | 16 |
| 67 | | 16 |
| 68 | | 17 |
| 69 | 27 | 17 |
| 70 | | 18 |
| 71 | 28 | 18 |
| 72 | | 18 |
| 73 | | 19 |
| 74 | 29 | 19 |
| 75 | | 20 |
| 76 | 30 | 20 |
| 77 | | 20 |
| 78 | | 21 |
| 79 | 31 | 21 |
| 80 | | 21 |
| 81 | | 22 |
| 82 | 32 | 22 |
| 83 | | 23 |
| 84 | 33 | 23 |
| 85 | | 23 |
| 86 | | 24 |
| 87 | 34 | 24 |

| DMX | % VALUES | TIME (SEC) |
|-----|----------|------------|
| 88 | | 25 |
| 89 | 35 | 25 |
| 90 | | 25 |
| 91 | | 26 |
| 92 | 36 | 26 |
| 93 | | 27 |
| 94 | 37 | 27 |
| 95 | | 27 |
| 96 | | 28 |
| 97 | 38 | 28 |
| 98 | | 29 |
| 99 | 39 | 29 |
| 100 | | 29 |
| 101 | | 30 |
| 102 | 40 | 30 |
| 103 | | 30 |
| 104 | | 31 |
| 105 | 41 | 31 |
| 106 | | 32 |
| 107 | 42 | 32 |
| 108 | | 32 |
| 109 | | 33 |
| 110 | 43 | 33 |
| 111 | | 34 |
| 112 | 44 | 34 |
| 113 | | 34 |
| 114 | | 35 |
| 115 | 45 | 35 |
| 116 | | 36 |
| 117 | 46 | 36 |
| 118 | | 36 |
| 119 | | 37 |
| 120 | 47 | 37 |
| 121 | | 38 |
| 122 | 48 | 38 |
| 123 | | 38 |
| 124 | | 39 |
| 125 | 49 | 39 |
| 126 | | 39 |
| 127 | | 40 |
| 128 | 50 | 40 |
| 129 | | 41 |
| 130 | 51 | 41 |
| 131 | | 41 |

Timing Channel Values - continued

| DMX | % VALUES | TIME (SEC) |
|-----|----------|------------|
| 132 | | 42 |
| 133 | 52 | 42 |
| 134 | | 43 |
| 135 | 53 | 43 |
| 136 | | 43 |
| 137 | | 44 |
| 138 | 54 | 44 |
| 139 | | 45 |
| 140 | 55 | 45 |
| 141 | | 45 |
| 142 | | 46 |
| 143 | 56 | 46 |
| 144 | | 47 |
| 145 | 57 | 47 |
| 146 | | 47 |
| 147 | | 48 |
| 148 | 58 | 48 |
| 149 | | 49 |
| 150 | 59 | 49 |
| 151 | | 49 |
| 152 | | 50 |
| 153 | 60 | 50 |
| 154 | | 50 |
| 155 | | 51 |
| 156 | 61 | 51 |
| 157 | | 52 |
| 158 | 62 | 52 |
| 159 | | 52 |
| 160 | | 53 |
| 161 | 63 | 53 |
| 162 | | 54 |
| 163 | 64 | 54 |
| 164 | | 54 |
| 165 | | 55 |
| 166 | 65 | 55 |
| 167 | | 56 |
| 168 | 66 | 56 |
| 169 | | 56 |
| 170 | | 57 |
| 171 | 67 | 57 |
| 172 | | 58 |
| 173 | 68 | 58 |
| 174 | | 58 |
| 175 | | 59 |

| DMX | % VALUES | TIME (SEC) |
|-----|----------|------------|
| 176 | 69 | 59 |
| 177 | | 59 |
| 178 | | 60 |
| 179 | 70 | 60 |
| 180 | | 65 |
| 181 | 71 | 65 |
| 182 | | 65 |
| 183 | | 70 |
| 184 | 72 | 70 |
| 185 | | 75 |
| 186 | 73 | 75 |
| 187 | | 75 |
| 188 | | 80 |
| 189 | 74 | 80 |
| 190 | | 85 |
| 191 | 75 | 85 |
| 192 | | 85 |
| 193 | | 90 |
| 194 | 76 | 90 |
| 195 | | 95 |
| 196 | 77 | 95 |
| 197 | | 95 |
| 198 | | 100 |
| 199 | 78 | 100 |
| 200 | | 110 |
| 201 | 79 | 110 |
| 202 | | 110 |
| 203 | | 120 |
| 204 | 80 | 120 |
| 205 | | 120 |
| 206 | 81 | 130 |
| 207 | | 130 |
| 208 | | 140 |
| 209 | 82 | 140 |
| 210 | | 140 |
| 211 | | 150 |
| 212 | 83 | 150 |
| 213 | | 160 |
| 214 | 84 | 160 |
| 215 | | 160 |
| 216 | | 170 |
| 217 | 85 | 170 |
| 218 | | 180 |
| 219 | 86 | 180 |

| DMX | % VALUES | TIME (SEC) |
|-----|----------|------------------|
| 220 | | 180 |
| 221 | | 190 |
| 222 | 87 | 190 |
| 223 | | 200 |
| 224 | 88 | 200 |
| 225 | | 200 |
| 226 | | 210 |
| 227 | 89 | 210 |
| 228 | | 210 |
| 229 | | 220 |
| 230 | 90 | 220 |
| 231 | | 230 |
| 232 | 91 | 230 |
| 233 | | 230 |
| 234 | | 240 |
| 235 | 92 | 240 |
| 236 | | 250 |
| 237 | 93 | 250 |
| 238 | | 250 |
| 239 | | 260 |
| 240 | 94 | 260 |
| 241 | | 270 |
| 242 | 95 | 270 |
| 243 | | 270 |
| 244 | | 280 |
| 245 | 96 | 280 |
| 246 | | 290 |
| 247 | 97 | 290 |
| 248 | | 290 |
| 249 | | 300 |
| 250 | 98 | 300 |
| 251 | | 310 |
| 252 | 99 | 310 |
| 253 | | 310 |
| 254 | | 310 |
| 255 | 100 | Follows Cue Data |