

High End Systems Reference Guide

DMX Channel Map

TurboRay DMX Channel Map

(Firmware Version 1.1.1 and Later)

| Reduced Profile | |
|-----------------|-------------------|
| Channel | Function |
| 1 | Pan Coarse |
| 2 | Pan Fine |
| 3 | Tilt Coarse |
| 4 | Tilt Fine |
| 5 | Mix Color Mode |
| 6 | Red |
| 7 | Green |
| 8 | Blue |
| 9 | White |
| 10 | CTO |
| 11 | Static Color Mode |
| 12 | Static Color |
| 13 | Gobo Mode |
| 14 | Gobo |
| 15 | Diffuser |
| 16 | Zoom |
| 17 | Zoom Fine |
| 18 | Strobe Mode |
| 19 | Strobe |
| 20 | Dim Coarse |
| 21 | Dim Fine |
| 22 | Macro Mode |
| 23 | Macro Speed |
| 24 | Macro Crossfade |
| 25 | Control |

| Standard Profile | | | |
|------------------|-------------------|---------|-------------------|
| Channel | Function | Channel | Function |
| 1 | Pan Coarse | 28 | LED 2 Green |
| 2 | Pan Fine | 29 | LED 2 Blue |
| 3 | Tilt Coarse | 30 | LED 2 White |
| 4 | Tilt Fine | 31 | LED 2 CTO |
| 5 | Mix Color Mode | 32 | LED 2 Strobe Mode |
| 6 | Static Color Mode | 33 | LED 2 Strobe |
| 7 | Static Color | 34 | LED 2 Dim Coarse |
| 8 | Gobo Mode | 35 | LED 2 Dim Fine |
| 9 | Gobo | 36 | LED 3 Red |
| 10 | Diffuser | 37 | LED 3 Green |
| 11 | Zoom Coarse | 38 | LED 3 Blue |
| 12 | Zoom Fine | 39 | LED 3 White |
| 13 | Macro Mode | 40 | LED 3 CTO |
| 14 | Macro Speed | 41 | LED 3 Strobe Mode |
| 15 | Macro Crossfade | 42 | LED 3 Strobe |
| 16 | Mspeed | 43 | LED 3 Dim Coarse |
| 17 | Control | 44 | LED 3 Dim Fine |
| 18 | LED 1 Red | 45 | LED 4 Red |
| 19 | LED 1 Green | 46 | LED 4 Green |
| 20 | LED 1 Blue | 47 | LED 4 Blue |
| 21 | LED 1 White | 48 | LED 4 White |
| 22 | LED 1 CTO | 49 | LED 4 CTO |
| 23 | LED 1 Strobe Mode | 50 | LED 4 Strobe Mode |
| 24 | LED 1 Strobe | 51 | LED 4 Strobe |
| 25 | LED 1 Dim Coarse | 52 | LED 4 Dim Coarse |
| 26 | LED 1 Dim Fine | 53 | LED 4 Dim Fine |
| 27 | LED 2 Red | | |

HIGH END SYSTEMS



an ETC Company

Headquarters ■ 2105 Gracy Farms Lane, Austin, TX, 78758 USA ■ Tel +512 836 2242 ■ Fax +512 837 5290
 Global Offices ■ London, UK ■ Holzkirchen, DE ■ Hong Kong ■ Web highend.com ■ Support support.etcconnect.com/HES
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 TurboRay ■ Rev D ■ Released 2020-11

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DMX Channel Map

TurboRay Reduced Profile

| Channel | Function | Description | Dec Low | Dec High | % Low | % High | Hex Low | Hex High | Default | |
|--------------|-------------------|---|---------|----------|-------|--------|---------|----------|---------|-----|
| 1 | Pan | Coarse | 0 | 255 | 0% | 100% | 00h | FFh | 128 | |
| 2 | | Fine | | | | | | | 0 | |
| 3 | Tilt | Coarse | | | | | | | 128 | |
| 4 | | Fine | | | | | | | 0 | |
| 5 | Mix Color Mode | RGB | 0 | 15 | 0% | 6% | 00h | 0Fh | 0 | |
| | | CMY | 91 | 105 | 36% | 41% | 5Bh | 69h | | |
| | | Cycle | 181 | 195 | 71% | 76% | B5h | C3h | | |
| | | Random | 196 | 210 | 77% | 82% | C4h | D2h | | |
| | | Reserved (See note 3 on page 11) | 226 | 255 | 89% | 100% | E2h | FFh | | |
| 6 | Red | RGB | | | | | | | | 255 |
| | | Off to full | 0 | 255 | 0% | 100% | 00h | FFh | | |
| | | CMY | | | | | | | | |
| | | Full saturation to open | 0 | 255 | 0% | 100% | 00h | FFh | | |
| | | Cycle & Random | | | | | | | | |
| Slow to fast | 0 | 255 | 0% | 100% | 00h | FFh | | | | |
| 7 | Green | RGB | | | | | | | | 255 |
| | | Off to full | 0 | 255 | 0% | 100% | 00h | FFh | | |
| | | CMY | | | | | | | | |
| | | Full saturation to open | 0 | 255 | 0% | 100% | 00h | FFh | | |
| 8 | Blue | RGB | | | | | | | | 255 |
| | | Off to full | 0 | 255 | 0% | 100% | 00h | FFh | | |
| | | CMY | | | | | | | | |
| | | Full saturation to open | 0 | 255 | 0% | 100% | 00h | FFh | | |
| 9 | White | Off to full | 0 | 255 | 0% | 100% | 00h | FFh | 255 | |
| 10 | CTO | Disabled | 0 | 4 | 0% | 2% | 00h | 04h | 0 | |
| | | Warm to cool (See note 5 on page 11) | 5 | 255 | 2% | 100% | 05h | FFh | | |
| 11 | Static Color Mode | Indexed (See note 4 on page 11) | 0 | 15 | 0% | 6% | 00h | 0Fh | 48 | |
| | | Forward Spin | 16 | 31 | 6% | 12% | 10h | 1Fh | | |
| | | Reverse Spin | 32 | 47 | 13% | 18% | 20h | 2Fh | | |
| | | Continuous (See note 4 on page 11) | 48 | 63 | 19% | 25% | 30h | 3Fh | | |
| | | Fast Scan | 64 | 79 | 25% | 31% | 40h | 4Fh | | |
| | | Random | 80 | 95 | 31% | 37% | 50h | 5Fh | | |
| | | Reserved (See note 3 on page 11) | 96 | 255 | 38% | 100% | 60h | FFh | | |

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DMX Channel Map

| Channel | Function | Description | Dec Low | Dec High | % Low | % High | Hex Low | Hex High | Default | |
|-------------------------------|-------------------|---|---------|----------|-------|--------|---------|----------|---------|--|
| 12 | Static Color | Indexed | | | | | | | 0 | |
| | | Open | 0 | 27 | 0% | 11% | 00h | 1Bh | | |
| | | Open/Dark Blue | 28 | 55 | 11% | 22% | 1Ch | 37h | | |
| | | Dark Blue | 56 | 83 | 22% | 33% | 38h | 53h | | |
| | | Dark Blue/CTO | 84 | 111 | 33% | 44% | 54h | 6Fh | | |
| | | CTO | 112 | 139 | 44% | 55% | 70h | 8Bh | | |
| | | CTO/Red | 140 | 167 | 55% | 65% | 8Ch | A7h | | |
| | | Red | 168 | 195 | 66% | 76% | A8h | C3h | | |
| | | Red/Open | 196 | 223 | 77% | 87% | C4h | DFh | | |
| | | Open | 224 | 255 | 88% | 100% | E0h | FFh | | |
| | | Scan | | | | | | | | |
| | | Open/Dark Blue (slow to fast) | 0 | 63 | 0% | 25% | 00h | 3Fh | | |
| | | Dark Blue/CTO (slow to fast) | 64 | 127 | 25% | 50% | 40h | 7Fh | | |
| | | CTO/Red (slow to fast) | 128 | 191 | 50% | 75% | 80h | BFh | | |
| | | Red/Open (slow to fast) | 192 | 255 | 75% | 100% | C0h | FFh | | |
| | | Spin & Random | | | | | | | | |
| | | Stop | 0 | 0 | 0% | 0% | 00h | 00h | | |
| | | Slow to fast | 1 | 255 | 0% | 100% | 01h | FFh | | |
| | | Continuous | | | | | | | | |
| Positioning from 0-90 degrees | 0 | 255 | 0% | 100% | 00h | FFh | | | | |
| 13 | Gobo Mode | Indexed | 0 | 15 | 0% | 6% | 00h | 0Fh | 16 | |
| | | Continuous (See note 4 on page 11) | 16 | 31 | 6% | 12% | 10h | 1Fh | | |
| | | Forward wheel spin | 32 | 47 | 13% | 18% | 20h | 2Fh | | |
| | | Reverse wheel spin | 48 | 63 | 19% | 25% | 30h | 3Fh | | |
| | | Animate | 64 | 79 | 25% | 31% | 40h | 4Fh | | |
| | | Reserved (See note 3 on page 11) | 80 | 255 | 31% | 100% | 50h | FFh | | |
| 14 | Gobo | Indexed | | | | | | | 0 | |
| | | Secondary Diffusion | 0 | 31 | 0% | 12% | 00h | 1Fh | | |
| | | Open | 32 | 63 | 13% | 25% | 20h | 3Fh | | |
| | | Hash | 64 | 95 | 25% | 37% | 40h | 5Fh | | |
| | | Dots | 96 | 127 | 38% | 50% | 60h | 7Fh | | |
| | | Reserved (See note 3 on page 11) | 128 | 255 | 50% | 100% | 80h | FFh | | |
| | | Continuous | | | | | | | | |
| | | Positioning from 0-90 degrees | 0 | 255 | 0% | 100% | 00h | FFh | | |
| | | Spin | | | | | | | | |
| | | Rotate Stop | 0 | 0 | 0% | 0% | 00h | 00h | | |
| | | Slow to fast | 1 | 255 | 0% | 100% | 01h | FFh | | |
| | | Animate | | | | | | | | |
| | | Hash stop | 0 | 0 | 0% | 0% | 00h | 00h | | |
| | | Hash slow to fast | 1 | 127 | 0% | 50% | 01h | 7Fh | | |
| | | Dots stop | 128 | 128 | 50% | 50% | 80h | 80h | | |
| Dots slow to fast | 129 | 255 | 51% | 100% | 81h | FFh | | | | |
| 15 | Primary Diffusion | Removed to full diffusion | 0 | 255 | 0% | 100% | 00h | FFh | 0 | |

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DMX Channel Map

| Channel | Function | Description | Dec Low | Dec High | % Low | % High | Hex Low | Hex High | Default |
|---------|---|---|---------|----------|-------|--------|---------|----------|---------|
| 16 | Zoom | Coarse | 0 | 255 | 0% | 100% | 00h | FFh | 127 |
| 17 | Zoom | Fine | 0 | 255 | 0% | 100% | 00h | FFh | 255 |
| 18 | Strobe Mode | Synchronous | 0 | 15 | 0% | 6% | 00h | 0Fh | 0 |
| | | Random | 16 | 31 | 6% | 12% | 10h | 1Fh | |
| | | Random Pixel | 32 | 47 | 13% | 18% | 20h | 2Fh | |
| | | Random Pixel/Color | 48 | 63 | 19% | 25% | 30h | 3Fh | |
| | | Reserved (See note 3 on page 11) | 64 | 255 | 25% | 100% | 40h | FFh | |
| 19 | Strobe | Closed | 0 | 0 | 0% | 0% | 00h | 00h | 255 |
| | | Strobe Rate (slow to fast) | 1 | 254 | 0% | 100% | 01h | FEh | |
| | | Open | 255 | 255 | 100% | 100% | FFh | FFh | |
| 20 | Dimmer | Coarse | 0 | 255 | 0% | 100% | 00h | FFh | 0 |
| 21 | Dimmer | Fine | 0 | 255 | 0% | 100% | 00h | FFh | 0 |
| 22 | Macro Mode (See TurboRay Macros on page 12 and Note 1 on page 11) | Macro off | 0 | 0 | 0% | 0% | 00h | 00h | 0 |
| | | Macro 1 | 1 | 1 | 0% | 0% | 01h | 01h | |
| | | Macro 2 | 2 | 2 | 1% | 1% | 02h | 02h | |
| | | Macro 3 | 3 | 3 | 1% | 1% | 03h | 03h | |
| | | ... | - | - | - | - | - | - | |
| | | Macro 78 | 78 | 78 | 31% | 31% | 4Eh | 4Eh | |
| | | Reserved (See note 3 on page 11) | 13 | 255 | 5% | 100% | 0Dh | FFh | |
| 23 | Macro Speed (See note 1 on page 11) | Reverse fast to slow | 0 | 126 | 0% | 49% | 00h | 7Eh | 128 |
| | | Stop | 127 | 128 | 50% | 50% | 7Fh | 80h | |
| | | Forward slow to fast | 129 | 255 | 51% | 100% | 81h | FFh | |
| 24 | Macro Crossfade (See note 1 on page 11) | Static | | | | | | | 128 |
| | | Stop | 0 | 128 | 0% | 50% | 00h | 80h | |
| | | Slow to fast (63.8 - 0.15 s) | 129 | 255 | 51% | 100% | 81h | FFh | |
| | | Animated | | | | | | | |
| | | Stop | 0 | 1 | 0% | 0% | 00h | 01h | |
| | | Slow to fast | 1 | 255 | 0% | 100% | 01h | FFh | |

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DMX Channel Map

| Channel | Function | Description | Dec Low | Dec High | % Low | % High | Hex Low | Hex High | Default |
|---------|---|---|---------|----------|-------|--------|---------|----------|---------|
| 25 | Control (See note 6 on page 11) | Safe (normal operation) | 0 | 15 | 0% | 6% | 00h | 0Fh | 0 |
| | | Reserved (See note 3 on page 11) | 16 | 31 | 6% | 12% | 10h | 1Fh | |
| | | Display/LEDs off | 32 | 47 | 13% | 18% | 20h | 2Fh | |
| | | Display/LEDs on | 48 | 63 | 19% | 25% | 30h | 3Fh | |
| | | Home all | 64 | 79 | 25% | 31% | 40h | 4Fh | |
| | | Shutdown | 80 | 95 | 31% | 37% | 50h | 5Fh | |
| | | Studio fan mode | 96 | 101 | 38% | 40% | 60h | 65h | |
| | | Continuous fan mode | 102 | 107 | 40% | 42% | 66h | 6Bh | |
| | | Standard fan mode | 108 | 113 | 42% | 44% | 6Ch | 71h | |
| | | Studio continuous fan mode | 114 | 119 | 45% | 47% | 72h | 77h | |
| | | Red shift on | 120 | 123 | 47% | 48% | 78h | 7Bh | |
| | | Red shift off | 124 | 126 | 49% | 49% | 7Ch | 7Eh | |
| | | Dim frequency (1.1 kHz) | 127 | 128 | 50% | 50% | 7Fh | 80h | |
| | | Dim frequency (2.2 kHz) | 129 | 131 | 51% | 51% | 81h | 83h | |
| | | Dim frequency (4.4 kHz) | 132 | 133 | 52% | 52% | 84h | 85h | |
| | | Dim frequency (17.6 kHz) | 134 | 136 | 53% | 53% | 86h | 88h | |
| | | Reserved (See note 3 on page 11) | 137 | 255 | 54% | 100% | 89h | FFh | |

High End Systems Reference Guide

DMX Channel Map

TurboRay Standard Profile

| Channel | Function | Description | Dec Low | Dec High | % Low | % High | Hex Low | Hex High | Default | |
|---------|-------------------|---|---------|----------|-------|--------|---------|----------|---------|---|
| 1 | Pan | Coarse | 0 | 255 | 0% | 100% | 00h | FFh | 128 | |
| 2 | | Fine | | | | | | | 0 | |
| 3 | Tilt | Coarse | | | | | | | 128 | |
| 4 | | Fine | | | | | | | 0 | |
| 5 | Mix Color Mode | RGB | 0 | 14 | 0% | 5% | 00h | 0Eh | 0 | |
| | | CMY | 15 | 29 | 6% | 11% | 0Fh | 1Dh | | |
| | | Cycle | 30 | 44 | 12% | 17% | 1Eh | 2Ch | | |
| | | Random | 45 | 59 | 18% | 23% | 2Dh | 3Bh | | |
| | | Reserved (See note 3 on page 11) | 60 | 255 | 24% | 100% | 3Ch | FFh | | |
| 6 | Static Color Mode | Indexed (See note 4 on page 11) | 0 | 15 | 0% | 6% | 00h | 0Fh | 48 | |
| | | Forward Spin | 16 | 31 | 6% | 12% | 10h | 1Fh | | |
| | | Reverse Spin | 32 | 47 | 13% | 18% | 20h | 2Fh | | |
| | | Continuous (See note 4 on page 11) | 48 | 63 | 19% | 25% | 30h | 3Fh | | |
| | | Fast Scan | 64 | 79 | 25% | 31% | 40h | 4Fh | | |
| | | Random | 80 | 95 | 31% | 37% | 50h | 5Fh | | |
| | | Reserved (See note 3 on page 11) | 96 | 255 | 38% | 100% | 60h | FFh | | |
| 7 | Static Color | Indexed | | | | | | | | 0 |
| | | Open | 0 | 27 | 0% | 11% | 00h | 1Bh | | |
| | | Open/Dark Blue | 28 | 55 | 11% | 22% | 1Ch | 37h | | |
| | | Dark Blue | 56 | 83 | 22% | 33% | 38h | 53h | | |
| | | Dark Blue/CTO | 84 | 111 | 33% | 44% | 54h | 6Fh | | |
| | | CTO | 112 | 139 | 44% | 55% | 70h | 8Bh | | |
| | | CTO/Red | 140 | 167 | 55% | 65% | 8Ch | A7h | | |
| | | Red | 168 | 195 | 66% | 76% | A8h | C3h | | |
| | | Red/Open | 196 | 223 | 77% | 87% | C4h | DFh | | |
| | | Open | 224 | 255 | 88% | 100% | E0h | FFh | | |
| | | Scan | | | | | | | | |
| | | Open/Dark Blue (slow to fast) | 0 | 63 | 0% | 25% | 00h | 3Fh | | |
| | | Dark Blue/CTO (slow to fast) | 64 | 127 | 25% | 50% | 40h | 7Fh | | |
| | | CTO/Red (slow to fast) | 128 | 191 | 50% | 75% | 80h | BFh | | |
| | | Red/Open (slow to fast) | 192 | 255 | 75% | 100% | C0h | FFh | | |
| | | Spin & Random | | | | | | | | |
| | | Stop | 0 | 0 | 0% | 0% | 00h | 00h | | |
| | | Slow to fast | 1 | 255 | 0% | 100% | 01h | FFh | | |
| | | Continuous | | | | | | | | |
| | | Positioning from 0-90 degrees | 0 | 255 | 0% | 100% | 00h | FFh | | |

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DMX Channel Map

| Channel | Function | Description | Dec Low | Dec High | % Low | % High | Hex Low | Hex High | Default | |
|--------------|---|---|---------|----------|-------|--------|---------|----------|---------|--|
| 8 | Gobo Mode | Indexed | 0 | 15 | 0% | 6% | 00h | 0Fh | 16 | |
| | | Continuous (See note 4 on page 11) | 16 | 31 | 6% | 12% | 10h | 1Fh | | |
| | | Forward wheel spin | 32 | 47 | 13% | 18% | 20h | 2Fh | | |
| | | Reverse wheel spin | 48 | 63 | 19% | 25% | 30h | 3Fh | | |
| | | Animate | 64 | 79 | 25% | 31% | 40h | 4Fh | | |
| | | Reserved (See note 3 on page 11) | 80 | 255 | 31% | 100% | 50h | FFh | | |
| 9 | Gobo | Indexed | | | | | | | 0 | |
| | | Secondary Diffusion | 0 | 31 | 0% | 12% | 00h | 1Fh | | |
| | | Open | 32 | 63 | 13% | 25% | 20h | 3Fh | | |
| | | Hash | 64 | 95 | 25% | 37% | 40h | 5Fh | | |
| | | Dots | 96 | 127 | 38% | 50% | 60h | 7Fh | | |
| | | Reserved (See note 3 on page 11) | 128 | 255 | 50% | 100% | 80h | FFh | | |
| | | Continuous | | | | | | | | |
| | | Positioning from 0-90 degrees | 0 | 255 | 0% | 100% | 00h | FFh | | |
| | | Spin | | | | | | | | |
| | | Stop | 0 | 0 | 0% | 0% | 00h | 00h | | |
| | | Slow to fast | 1 | 255 | 0% | 100% | 01h | FFh | | |
| | | Animate | | | | | | | | |
| | | Hash stop | 0 | 0 | 0% | 0% | 00h | 00h | | |
| | | Hash slow to fast | 1 | 127 | 0% | 50% | 01h | 7Fh | | |
| | | Dots stop | 128 | 128 | 50% | 50% | 80h | 80h | | |
| | | Dots slow to fast | 129 | 255 | 51% | 100% | 81h | FFh | | |
| 10 | Primary Diffusion | Removed to full diffusion | 0 | 255 | 0% | 100% | 00h | FFh | 0 | |
| 11 | Zoom | Coarse | 0 | 255 | 0% | 100% | 00h | FFh | 127 | |
| 12 | Zoom | Fine | 0 | 255 | 0% | 100% | 00h | FFh | 255 | |
| 13 | Macro Mode (See TurboRay Macros on page 12 and Note 1 on page 11) | Macro off | 0 | 0 | 0% | 0% | 00h | 00h | 0 | |
| | | Macro 1 | 1 | 1 | 0% | 0% | 01h | 01h | | |
| | | Macro 2 | 2 | 2 | 1% | 1% | 02h | 02h | | |
| | | Macro 3 | 3 | 3 | 1% | 1% | 03h | 03h | | |
| | | ... | - | - | - | - | - | - | | |
| | | Macro 78 | 78 | 78 | 31% | 31% | 4Eh | 4Eh | | |
| | | Reserved (See note 3 on page 11) | 13 | 255 | 5% | 100% | 0Dh | FFh | | |
| 14 | Macro Speed (See note 1 on page 11) | Reverse fast to slow | 0 | 126 | 0% | 49% | 00h | 7Eh | 128 | |
| | | Stop | 127 | 128 | 50% | 50% | 7Fh | 80h | | |
| | | Forward slow to fast | 129 | 255 | 51% | 100% | 81h | FFh | | |
| 15 | Macro Crossfade (See note 1 on page 11) | Static | | | | | | | 0 | |
| | | Stop | 0 | 128 | 0% | 50% | 00h | 80h | | |
| | | Slow to fast (63.8 - 0.15 s) | 129 | 255 | 51% | 100% | 81h | FFh | | |
| | | Animated | | | | | | | | |
| | | Stop | 0 | 0 | 0% | 0% | 00h | 00h | | |
| Slow to fast | 1 | 255 | 0% | 100% | 01h | FFh | | | | |
| 16 | Mspeed | Disable | 0 | 3 | 0% | 1% | 00h | 03h | 0 | |
| | | Slow to fast (252.7 - 0.15 s) | 4 | 255 | 2% | 100% | 04h | FFh | | |

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DMX Channel Map

| Channel | Function | Description | Dec Low | Dec High | % Low | % High | Hex Low | Hex High | Default | |
|---|---|---|---------|----------|-------|--------|---------|----------|---------|-----|
| 17 | Control (See note 6 on page 11) | Safe (normal operation) | 0 | 15 | 0% | 6% | 00h | 0Fh | 0 | |
| | | Reserved (See note 3 on page 11) | 16 | 31 | 6% | 12% | 10h | 1Fh | | |
| | | Display/LEDs off | 32 | 47 | 13% | 18% | 20h | 2Fh | | |
| | | Display/LEDs on | 48 | 63 | 19% | 25% | 30h | 3Fh | | |
| | | Home all | 64 | 79 | 25% | 31% | 40h | 4Fh | | |
| | | Shutdown | 80 | 95 | 31% | 37% | 50h | 5Fh | | |
| | | Studio fan mode | 96 | 101 | 38% | 40% | 60h | 65h | | |
| | | Continuous fan mode | 102 | 107 | 40% | 42% | 66h | 6Bh | | |
| | | Standard fan mode | 108 | 113 | 42% | 44% | 6Ch | 71h | | |
| | | Studio continuous fan mode | 114 | 119 | 45% | 47% | 72h | 77h | | |
| | | Red Shift on | 120 | 123 | 47% | 48% | 78h | 7Bh | | |
| | | Red Shift off | 124 | 126 | 49% | 49% | 7Ch | 7Eh | | |
| | | Dim frequency 1 | 127 | 128 | 50% | 50% | 7Fh | 80h | | |
| | | Dim frequency 2 | 129 | 131 | 51% | 51% | 81h | 83h | | |
| | | Dim frequency 3 | 132 | 133 | 52% | 52% | 84h | 85h | | |
| Dim frequency 4 | 134 | 136 | 53% | 53% | 86h | 88h | | | | |
| Reserved (See note 3 on page 11) | 137 | 255 | 54% | 100% | 89h | FFh | | | | |
| 18 | LED 1 Red (See note 2 on page 11) | RGB | | | | | | | | 255 |
| | | Off to full | 0 | 255 | 0% | 100% | 00h | FFh | | |
| | | CMY | | | | | | | | |
| | | Full saturation to open | 0 | 255 | 0% | 100% | 00h | FFh | | |
| | | Cycle & Random | | | | | | | | |
| Slow to fast | 0 | 255 | 0% | 100% | 00h | FFh | | | | |
| 19 | LED 1 Green | RGB | | | | | | | | 255 |
| | | Off to full | 0 | 255 | 0% | 100% | 00h | FFh | | |
| | | CMY | | | | | | | | |
| Full saturation to open | 0 | 255 | 0% | 100% | 00h | FFh | | | | |
| 20 | LED 1 Blue | RGB | | | | | | | | 255 |
| | | Off to full | 0 | 255 | 0% | 100% | 00h | FFh | | |
| | | CMY | | | | | | | | |
| Full saturation to open | 0 | 255 | 0% | 100% | 00h | FFh | | | | |
| 21 | LED 1 White | Off to full | 0 | 255 | 0% | 100% | 00h | FFh | 255 | |
| 22 | LED 1 CTO | Disabled | 0 | 4 | 0% | 2% | 00h | 04h | 0 | |
| | | Warm to cool (See note 5 on page 11) | 5 | 255 | 2% | 100% | 05h | FFh | | |
| 23 | LED 1 Strobe Mode | Synchronous | 0 | 15 | 0% | 6% | 00h | 0Fh | 0 | |
| | | Random | 16 | 31 | 6% | 12% | 10h | 1Fh | | |
| | | Random Pixel | 32 | 47 | 13% | 18% | 20h | 2Fh | | |
| | | Random Pixel/Color | 48 | 63 | 19% | 25% | 30h | 3Fh | | |
| | | Reserved (See note 3 on page 11) | 64 | 255 | 25% | 100% | 40h | FFh | | |
| 24 | LED 1 Strobe Rate | Closed | 0 | 0 | 0% | 0% | 00h | 00h | 255 | |
| | | Strobe Rate (slow to fast) | 1 | 254 | 0% | 100% | 01h | FEh | | |
| | | Open | 255 | 255 | 100% | 100% | FFh | FFh | | |
| 25 | LED 1 Dimmer | Coarse | 0 | 255 | 0% | 100% | 00h | FFh | 0 | |

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DMX Channel Map

| Channel | Function | Description | Dec Low | Dec High | % Low | % High | Hex Low | Hex High | Default | |
|---------|---|---|---------|----------|-------|--------|---------|----------|---------|-----|
| 26 | LED 1 Dimmer | Fine | 0 | 255 | 0% | 100% | 00h | FFh | 0 | |
| 27 | LED 2 Red (See note 2 on page 11) | RGB | | | | | | | | 255 |
| | | Off to full | 0 | 255 | 0% | 100% | 00h | FFh | | |
| | | CMY | | | | | | | | |
| | | Full saturation to open | 0 | 255 | 0% | 100% | 00h | FFh | | |
| 28 | LED 2 Green | RGB | | | | | | | | 255 |
| | | Off to full | 0 | 255 | 0% | 100% | 00h | FFh | | |
| | | CMY | | | | | | | | |
| | | Full saturation to open | 0 | 255 | 0% | 100% | 00h | FFh | | |
| 29 | LED 2 Blue | RGB | | | | | | | | 255 |
| | | Off to full | 0 | 255 | 0% | 100% | 00h | FFh | | |
| | | CMY | | | | | | | | |
| 30 | LED 2 White | Off to full | 0 | 255 | 0% | 100% | 00h | FFh | 255 | |
| | | Full saturation to open | 0 | 255 | 0% | 100% | 00h | FFh | | |
| 31 | LED 2 CTO | Disabled | 0 | 4 | 0% | 2% | 00h | 04h | 0 | |
| | | Warm to cool (See note 5 on page 11) | 5 | 255 | 2% | 100% | 05h | FFh | | |
| 32 | LED 2 Strobe Mode | Synchronous | 0 | 15 | 0% | 6% | 00h | 0Fh | 0 | |
| | | Random | 16 | 31 | 6% | 12% | 10h | 1Fh | | |
| | | Random Pixel | 32 | 47 | 13% | 18% | 20h | 2Fh | | |
| | | Random Pixel/Color | 48 | 63 | 19% | 25% | 30h | 3Fh | | |
| | | Reserved (See note 3 on page 11) | 64 | 255 | 25% | 100% | 40h | FFh | | |
| 33 | LED 2 Strobe Rate | Closed | 0 | 0 | 0% | 0% | 00h | 00h | 255 | |
| | | Strobe Rate (slow to fast) | 1 | 254 | 0% | 100% | 01h | FEh | | |
| | | Open | 255 | 255 | 100% | 100% | FFh | FFh | | |
| 34 | LED 2 Dimmer | Coarse | 0 | 255 | 0% | 100% | 00h | FFh | 0 | |
| 35 | LED 2 Dimmer | Fine | 0 | 255 | 0% | 100% | 00h | FFh | 0 | |
| 36 | LED 3 Red (See note 2 on page 11) | RGB | | | | | | | | 255 |
| | | Off to full | 0 | 255 | 0% | 100% | 00h | FFh | | |
| | | CMY | | | | | | | | |
| | | Full saturation to open | 0 | 255 | 0% | 100% | 00h | FFh | | |
| 37 | LED 3 Green | RGB | | | | | | | | 255 |
| | | Off to full | 0 | 255 | 0% | 100% | 00h | FFh | | |
| | | CMY | | | | | | | | |
| 38 | LED 3 Blue | RGB | | | | | | | | 255 |
| | | Off to full | 0 | 255 | 0% | 100% | 00h | FFh | | |
| | | CMY | | | | | | | | |
| 39 | LED 3 White | Full saturation to open | 0 | 255 | 0% | 100% | 00h | FFh | 255 | |
| | | Off to full | 0 | 255 | 0% | 100% | 00h | FFh | | |

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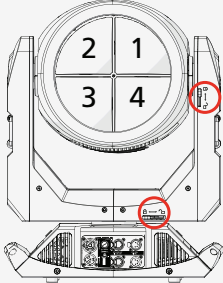
DMX Channel Map

| Channel | Function | Description | Dec Low | Dec High | % Low | % High | Hex Low | Hex High | Default | |
|-------------------------|---|---|---------|----------|-------|--------|---------|----------|---------|-----|
| 40 | LED 3 CTO | Disabled | 0 | 4 | 0% | 2% | 00h | 04h | 0 | |
| | | Warm to cool (See note 5 on page 11) | 5 | 255 | 2% | 100% | 05h | FFh | | |
| 41 | LED 3 Strobe Mode | Synchronous | 0 | 15 | 0% | 6% | 00h | 0Fh | 0 | |
| | | Random | 16 | 31 | 6% | 12% | 10h | 1Fh | | |
| | | Random Pixel | 32 | 47 | 13% | 18% | 20h | 2Fh | | |
| | | Random Pixel/Color | 48 | 63 | 19% | 25% | 30h | 3Fh | | |
| | | Reserved (See note 3 on page 11) | 64 | 255 | 25% | 100% | 40h | FFh | | |
| 42 | LED 3 Strobe Rate | Closed | 0 | 0 | 0% | 0% | 00h | 00h | 255 | |
| | | Strobe Rate (slow to fast) | 1 | 254 | 0% | 100% | 01h | FEh | | |
| | | Open | 255 | 255 | 100% | 100% | FFh | FFh | | |
| 43 | LED 3 Dimmer | Coarse | 0 | 255 | 0% | 100% | 00h | FFh | 0 | |
| 44 | LED 3 Dimmer | Fine | 0 | 255 | 0% | 100% | 00h | FFh | 0 | |
| 45 | LED 4 Red (See note 2 on the facing page) | RGB | | | | | | | | 255 |
| | | Off to full | 0 | 255 | 0% | 100% | 00h | FFh | | |
| | | CMY | | | | | | | | |
| | | Full saturation to open | 0 | 255 | 0% | 100% | 00h | FFh | | |
| | | Cycle & Random | | | | | | | | |
| Slow to fast | 0 | 255 | 0% | 100% | 00h | FFh | | | | |
| 46 | LED 4 Green | RGB | | | | | | | | 255 |
| | | Off to full | 0 | 255 | 0% | 100% | 00h | FFh | | |
| | | CMY | | | | | | | | |
| Full saturation to open | 0 | 255 | 0% | 100% | 00h | FFh | | | | |
| 47 | LED 4 Blue | RGB | | | | | | | | 255 |
| | | Off to full | 0 | 255 | 0% | 100% | 00h | FFh | | |
| | | CMY | | | | | | | | |
| Full saturation to open | 0 | 255 | 0% | 100% | 00h | FFh | | | | |
| 48 | LED 4 White | Off to full | 0 | 255 | 0% | 100% | 00h | FFh | 255 | |
| 49 | LED 4 CTO | Disabled | 0 | 4 | 0% | 2% | 00h | 04h | 0 | |
| | | Warm to cool (See note 5 on page 11) | 5 | 255 | 2% | 100% | 05h | FFh | | |
| 50 | LED 4 Strobe Mode | Synchronous | 0 | 15 | 0% | 6% | 00h | 0Fh | 0 | |
| | | Random | 16 | 31 | 6% | 12% | 10h | 1Fh | | |
| | | Random Pixel | 32 | 47 | 13% | 18% | 20h | 2Fh | | |
| | | Random Pixel/Color | 48 | 63 | 19% | 25% | 30h | 3Fh | | |
| | | Reserved (See note 3 on page 11) | 64 | 255 | 25% | 100% | 40h | FFh | | |
| 51 | LED 4 Strobe Rate | Closed | 0 | 0 | 0% | 0% | 00h | 00h | 255 | |
| | | Strobe Rate (slow to fast) | 1 | 254 | 0% | 100% | 01h | FEh | | |
| | | Open | 255 | 255 | 100% | 100% | FFh | FFh | | |
| 52 | LED 4 Dimmer | Coarse | 0 | 255 | 0% | 100% | 00h | FFh | 0 | |
| 53 | LED 4 Dimmer | Fine | 0 | 255 | 0% | 100% | 00h | FFh | 0 | |

High End Systems Reference Guide

DMX Channel Map

TurboRay Notes

| | |
|---|--|
| 1 | Static macro crossfade and playback operation: When changing between static macros, the crossfade time from channel 14 will be applied to the change. Crossfade will commence when the change is received. |
| 2 | <p>LED modules are arranged according to the following (note the direction of the fixture head, pan, and tilt locks in the image):</p>  |
| 3 | Reserved channel ranges should function the same as the default range. |
| 4 | Continuous / indexed mode take the quickest path from 255-0, and 0-255. |
| 5 | CTO is mixed via RGBW LEDs. CTO will disable at 0-4 and the LED will have full output. |
| 6 | The control channel should not be crossfaded. Hold the value for two seconds. There is no shutter channel requirement. Fan control, red shift, and dim frequency modes are retentive. When the fixture is turned off, the selected mode is retained. |
| 7 | RDM Manufacturers ID: 0x4c52 |
| 8 | RDM Device ID: 0x583 |

High End Systems Reference Guide

DMX Channel Map

TurboRay Macros

| DMX | Description | LED 1 | LED 2 | LED 3 | LED 4 |
|-----|---|---------|---------|---------|---------|
| 0 | Macro Off - Standard Position | Pixel 1 | Pixel 2 | Pixel 3 | Pixel 4 |
| 1 | Macro 01 - Right Position | Pixel 2 | Pixel 3 | Pixel 4 | Pixel 1 |
| 2 | Macro 02 - Upside Down Position | Pixel 3 | Pixel 4 | Pixel 1 | Pixel 2 |
| 3 | Macro 03 - Left Position | Pixel 4 | Pixel 1 | Pixel 2 | Pixel 3 |
| 4 | Macro 04 - 2 Color Top/Bottom | Pixel 1 | Pixel 1 | Pixel 2 | Pixel 2 |
| 5 | Macro 05 - 2 Color Left/Right | Pixel 1 | Pixel 2 | Pixel 2 | Pixel 1 |
| 6 | Macro 06.1 - 2 Color Rotation | Pixel 1 | Pixel 2 | Pixel 3 | Pixel 4 |
| | Macro 06.2 - 2 Color Rotation | Pixel 4 | Pixel 1 | Pixel 2 | Pixel 3 |
| | Macro 06.3 - 2 Color Rotation | Pixel 3 | Pixel 4 | Pixel 1 | Pixel 2 |
| | Macro 06.4 - 2 Color Rotation | Pixel 2 | Pixel 3 | Pixel 4 | Pixel 1 |
| | Macro 06.5 - 2 Color Rotation | Pixel 1 | Pixel 2 | Pixel 3 | Pixel 4 |
| | Macro 06.6 - 2 Color Rotation | Pixel 4 | Pixel 1 | Pixel 2 | Pixel 3 |
| | Macro 06.7 - 2 Color Rotation | Pixel 3 | Pixel 4 | Pixel 1 | Pixel 2 |
| | Macro 06.8 - 2 Color Rotation | Pixel 2 | Pixel 3 | Pixel 4 | Pixel 1 |
| 7 | Macro 07.1 - 2 Color Rotation | Pixel 1 | Pixel 1 | Pixel 2 | Pixel 2 |
| | Macro 07.2 - 2 Color Rotation | Pixel 2 | Pixel 1 | Pixel 1 | Pixel 2 |
| | Macro 07.3 - 2 Color Rotation | Pixel 2 | Pixel 2 | Pixel 1 | Pixel 1 |
| | Macro 07.4 - 2 Color Rotation | Pixel 1 | Pixel 2 | Pixel 2 | Pixel 1 |
| | Macro 07.5 - 2 Color Rotation | Pixel 1 | Pixel 1 | Pixel 2 | Pixel 2 |
| | Macro 07.6 - 2 Color Rotation | Pixel 2 | Pixel 1 | Pixel 1 | Pixel 2 |
| | Macro 07.7 - 2 Color Rotation | Pixel 2 | Pixel 2 | Pixel 1 | Pixel 1 |
| | Macro 07.8 - 2 Color Rotation | Pixel 1 | Pixel 2 | Pixel 2 | Pixel 1 |
| 8 | Macro 08.1 - 2 Color Single Cell Rotation | Pixel 1 | Pixel 2 | Pixel 2 | Pixel 2 |
| | Macro 08.2 - 2 Color Single Cell Rotation | Pixel 2 | Pixel 1 | Pixel 2 | Pixel 2 |
| | Macro 08.3 - 2 Color Single Cell Rotation | Pixel 2 | Pixel 2 | Pixel 1 | Pixel 2 |
| | Macro 08.4 - 2 Color Single Cell Rotation | Pixel 2 | Pixel 2 | Pixel 2 | Pixel 1 |
| | Macro 08.5 - 2 Color Single Cell Rotation | Pixel 1 | Pixel 2 | Pixel 2 | Pixel 2 |
| | Macro 08.6 - 2 Color Single Cell Rotation | Pixel 2 | Pixel 1 | Pixel 2 | Pixel 2 |
| | Macro 08.7 - 2 Color Single Cell Rotation | Pixel 2 | Pixel 2 | Pixel 1 | Pixel 2 |
| | Macro 08.8 - 2 Color Single Cell Rotation | Pixel 2 | Pixel 2 | Pixel 2 | Pixel 1 |

High End Systems Reference Guide

DMX Channel Map

| DMX | Description | LED 1 | LED 2 | LED 3 | LED 4 |
|-----|--|---------|---------|---------|---------|
| 9 | Macro 09.1 - Left and Right | Pixel 1 | Pixel 2 | Pixel 2 | Pixel 1 |
| | Macro 09.2 - Left and Right | Pixel 2 | Pixel 1 | Pixel 1 | Pixel 2 |
| 10 | Macro 10.1 - Top and Bottom | Pixel 1 | Pixel 1 | Pixel 2 | Pixel 2 |
| | Macro 10.2 - Top and Bottom | Pixel 2 | Pixel 2 | Pixel 1 | Pixel 1 |
| 11 | Macro 11.1 - Crosses | Pixel 1 | Pixel 2 | Pixel 1 | Pixel 2 |
| | Macro 11.2 - Crosses | Pixel 2 | Pixel 1 | Pixel 2 | Pixel 1 |
| 12 | Macro 12.1 - White Snap (Red Default) | White | White | White | White |
| | Macro 12.2 - White Snap (Red Default) | Pixel 1 | Pixel 1 | Pixel 1 | Pixel 1 |
| 13 | Macro 13.1 - White Snap Rotation | White | | | |
| | Macro 13.2 - White Snap Rotation | Pixel 1 | | | |
| | Macro 13.3 - White Snap Rotation | | White | | |
| | Macro 13.4 - White Snap Rotation | | Pixel 1 | | |
| | Macro 13.5 - White Snap Rotation | | | White | |
| | Macro 13.6 - White Snap Rotation | | | Pixel 1 | |
| | Macro 13.7 - White Snap Rotation | | | | White |
| | Macro 13.8 - White Snap Rotation | | | | Pixel 1 |
| 14 | Macro 14.1 - White Snap Top and Bottom | White | White | | |
| | Macro 14.2 - White Snap Top and Bottom | Pixel 1 | Pixel 1 | | |
| | Macro 14.3 - White Snap Top and Bottom | | | White | White |
| | Macro 14.4 - White Snap Top and Bottom | | | Pixel 1 | Pixel 1 |
| 15 | Macro 15.1 - White Snap Left and Right | White | | | White |
| | Macro 15.2 - White Snap Left and Right | Pixel 1 | | | Pixel 1 |
| | Macro 15.3 - White Snap Left and Right | | White | White | |
| | Macro 15.4 - White Snap Left and Right | | Pixel 1 | Pixel 1 | |
| 16 | Macro 16.1 - White Snap Half Rotation | White | White | | |
| | Macro 16.2 - White Snap Half Rotation | Pixel 1 | Pixel 1 | | |
| | Macro 16.3 - White Snap Half Rotation | | White | White | |
| | Macro 16.4 - White Snap Half Rotation | | Pixel 1 | Pixel 1 | |
| | Macro 16.5 - White Snap Half Rotation | | | White | White |
| | Macro 16.6 - White Snap Half Rotation | | | Pixel 1 | Pixel 1 |
| | Macro 16.7 - White Snap Half Rotation | White | | | White |
| | Macro 16.8 - White Snap Half Rotation | Pixel 1 | | | Pixel 1 |

High End Systems Reference Guide

DMX Channel Map

| DMX | Description | LED 1 | LED 2 | LED 3 | LED 4 |
|-----|---|---------|---------|---------|---------|
| 17 | Macro 17.1 - White Snap Opposite Sides | White | White | | |
| | Macro 17.2 - White Snap Opposite Sides | Pixel 1 | Pixel 1 | | |
| | Macro 17.3 - White Snap Opposite Sides | | | White | White |
| | Macro 17.4 - White Snap Opposite Sides | | | Pixel 1 | Pixel 1 |
| | Macro 17.5 - White Snap Opposite Sides | | White | White | |
| | Macro 17.6 - White Snap Opposite Sides | | Pixel 1 | Pixel 1 | |
| | Macro 17.7 - White Snap Opposite Sides | White | | | White |
| | Macro 17.8 - White Snap Opposite Sides | Pixel 1 | | | Pixel 1 |
| 18 | Macro 18.1 - White Snap (Amber Default) | White | White | White | White |
| | Macro 18.2 - White Snap (Amber Default) | Pixel 1 | Pixel 1 | Pixel 1 | Pixel 1 |
| 19 | Macro 19.1 - White Snap Dim 1 | White | White | White | White |
| | Macro 19.2 - White Snap Dim 1 | Pixel 1 | Pixel 1 | Pixel 1 | Pixel 1 |
| | Macro 19.3 - White Snap Dim 1 | | White | | White |
| | Macro 19.4 - White Snap Dim 1 | | Pixel 1 | | Pixel 1 |
| | Macro 19.5 - White Snap Dim 1 | White | | White | |
| | Macro 19.6 - White Snap Dim 1 | Pixel 1 | | Pixel 1 | |
| | Macro 19.7 - White Snap Dim 1 | | White | | White |
| | Macro 19.8 - White Snap Dim 1 | | Pixel 1 | | Pixel 1 |
| | Macro 19.9 - White Snap Dim 1 | White | | White | |
| | Macro 19.10 - White Snap Dim 1 | Pixel 1 | | Pixel 1 | |
| 20 | Macro 20.1 - White Snap Dim 2 | | White | White | White |
| | Macro 20.2 - White Snap Dim 2 | | Pixel 1 | Pixel 1 | Pixel 1 |
| | Macro 20.3 - White Snap Dim 2 | White | | White | White |
| | Macro 20.4 - White Snap Dim 2 | Pixel 1 | | Pixel 1 | Pixel 1 |
| | Macro 20.5 - White Snap Dim 2 | White | White | | White |
| | Macro 20.6 - White Snap Dim 2 | Pixel 1 | Pixel 1 | | Pixel 1 |
| | Macro 20.7 - White Snap Dim 2 | White | White | White | |
| | Macro 20.8 - White Snap Dim 2 | Pixel 1 | Pixel 1 | Pixel 1 | |

High End Systems Reference Guide

DMX Channel Map

| DMX | Description | LED 1 | LED 2 | LED 3 | LED 4 |
|-----|--|---------|---------|---------|---------|
| 21 | Macro 21.1 - White Chase (Amber Default) | Pixel 1 | | | |
| | Macro 21.2 - White Chase (Amber Default) | White | | | |
| | Macro 21.3 - White Chase (Amber Default) | | Pixel 1 | | |
| | Macro 21.4 - White Chase (Amber Default) | | White | | |
| | Macro 21.5 - White Chase (Amber Default) | | | Pixel 1 | |
| | Macro 21.6 - White Chase (Amber Default) | | | White | |
| | Macro 21.7 - White Chase (Amber Default) | | | | Pixel 1 |
| | Macro 21.8 - White Chase (Amber Default) | | | | White |
| 22 | Macro 22.1 - White Chase (Blue Default) | | White | | |
| | Macro 22.2 - White Chase (Blue Default) | | | Pixel 1 | |
| | Macro 22.3 - White Chase (Blue Default) | | | White | |
| | Macro 22.4 - White Chase (Blue Default) | | | | Pixel 1 |
| | Macro 22.5 - White Chase (Blue Default) | | | | White |
| | Macro 22.6 - White Chase (Blue Default) | Pixel 1 | | | |
| | Macro 22.7 - White Chase (Blue Default) | White | | | |
| | Macro 22.8 - White Chase (Blue Default) | | Pixel 1 | | |
| 23 | Macro 23.1 - Color Chase (Red/Amber Default) | Pixel 1 | | | |
| | Macro 23.2 - Color Chase (Red/Amber Default) | Pixel 2 | | | |
| | Macro 23.3 - Color Chase (Red/Amber Default) | | Pixel 1 | | |
| | Macro 23.4 - Color Chase (Red/Amber Default) | | Pixel 2 | | |
| | Macro 23.5 - Color Chase (Red/Amber Default) | | | Pixel 1 | |
| | Macro 23.6 - Color Chase (Red/Amber Default) | | | Pixel 2 | |
| | Macro 23.7 - Color Chase (Red/Amber Default) | | | | Pixel 1 |
| | Macro 23.8 - Color Chase (Red/Amber Default) | | | | Pixel 2 |
| 24 | Macro 24.1 - Color Chse (Amber/Blue Default) | | Pixel 1 | | |
| | Macro 24.2 - Color Chse (Amber/Blue Default) | | Pixel 2 | | |
| | Macro 24.3 - Color Chse (Amber/Blue Default) | | | Pixel 1 | |
| | Macro 24.4 - Color Chse (Amber/Blue Default) | | | Pixel 2 | |
| | Macro 24.5 - Color Chse (Amber/Blue Default) | | | | Pixel 1 |
| | Macro 24.6 - Color Chse (Amber/Blue Default) | | | | Pixel 2 |
| | Macro 24.7 - Color Chse (Amber/Blue Default) | Pixel 1 | | | |
| | Macro 24.8 - Color Chse (Amber/Blue Default) | Pixel 2 | | | |

High End Systems Reference Guide

DMX Channel Map

| DMX | Description | LED 1 | LED 2 | LED 3 | LED 4 |
|-----|------------------------------------|---------|---------|---------|---------|
| 25 | Macro 25.1 - 3 Color Chase | | White | White | White |
| | Macro 25.2 - 3 Color Chase | | Pixel 1 | Pixel 2 | Pixel 3 |
| | Macro 25.3 - 3 Color Chase | White | | White | White |
| | Macro 25.4 - 3 Color Chase | Pixel 3 | | Pixel 1 | Pixel 2 |
| | Macro 25.5 - 3 Color Chase | White | White | | White |
| | Macro 25.6 - 3 Color Chase | Pixel 2 | Pixel 3 | | Pixel 1 |
| | Macro 25.7 - 3 Color Chase | White | White | White | |
| | Macro 25.8 - 3 Color Chase | Pixel 1 | Pixel 2 | Pixel 3 | |
| 26 | Macro 26.1 - Color Chase Rotation | White | | | |
| | Macro 26.2 - Color Chase Rotation | Pixel 1 | | | |
| | Macro 26.3 - Color Chase Rotation | | White | | |
| | Macro 26.4 - Color Chase Rotation | | Pixel 2 | | |
| | Macro 26.5 - Color Chase Rotation | | | White | |
| | Macro 26.6 - Color Chase Rotation | | | Pixel 3 | |
| | Macro 26.7 - Color Chase Rotation | | | | White |
| | Macro 26.8 - Color Chase Rotation | | | | Pixel 1 |
| | Macro 26.9 - Color Chase Rotation | White | | | |
| | Macro 26.10 - Color Chase Rotation | Pixel 2 | | | |
| | Macro 26.11 - Color Chase Rotation | | White | | |
| | Macro 26.12 - Color Chase Rotation | | Pixel 3 | | |
| | Macro 26.13 - Color Chase Rotation | | | White | |
| | Macro 26.14 - Color Chase Rotation | | | Pixel 1 | |
| | Macro 26.15 - Color Chase Rotation | | | | White |
| | Macro 26.16 - Color Chase Rotation | | | | Pixel 2 |
| | Macro 26.17 - Color Chase Rotation | White | | | |
| | Macro 26.18 - Color Chase Rotation | Pixel 3 | | | |
| | Macro 26.19 - Color Chase Rotation | | White | | |
| | Macro 26.20 - Color Chase Rotation | | Pixel 1 | | |
| | Macro 26.21 - Color Chase Rotation | | | White | |
| | Macro 26.22 - Color Chase Rotation | | | Pixel 2 | |
| | Macro 26.23 - Color Chase Rotation | | | | White |
| | Macro 26.24 - Color Chase Rotation | | | | Pixel 3 |

High End Systems Reference Guide

DMX Channel Map

| DMX | Description | LED 1 | LED 2 | LED 3 | LED 4 |
|-----|--------------------------------|---------|---------|---------|---------|
| 27 | Macro 27.1 - One Cell Rotation | | | | Pixel 1 |
| | Macro 27.2 - One Cell Rotation | | | Pixel 1 | |
| | Macro 27.3 - One Cell Rotation | | Pixel 1 | | |
| | Macro 27.4 - One Cell Rotation | Pixel 1 | | | |
| 28 | Macro 28.1 - Color Opposites | Pixel 1 | | Pixel 2 | |
| | Macro 28.2 - Color Opposites | | Pixel 1 | | |
| | Macro 28.3 - Color Opposites | Pixel 2 | | Pixel 1 | |
| | Macro 28.4 - Color Opposites | | | | Pixel 2 |
| 29 | Macro 29.1 - 4 Color Chase | Pixel 1 | | | |
| | Macro 29.2 - 4 Color Chase | | Pixel 2 | | |
| | Macro 29.3 - 4 Color Chase | | | Pixel 3 | |
| | Macro 29.4 - 4 Color Chase | | | | Pixel 4 |
| 30 | Macro 30 - Color Iris | Cycle | Cycle | Cycle | Cycle |
| 31 | Macro 31 - Blue Diamond 1 | White | White | White | White |
| 32 | Macro 32 - Blue Diamond 2 | White | White | White | White |
| 33 | Macro 33 - Blue Diamond 3 | White | White | White | White |
| 34 | Macro 34 - Blue Diamond 4 | White | White | White | White |
| 35 | Macro 35 - Red Diamond 1 | White | White | White | White |
| 36 | Macro 36 - Red Diamond 2 | White | White | White | White |
| 37 | Macro 37.1 - Colored Lines | Pixel 1 | Pixel 2 | Pixel 1 | Pixel 2 |
| | Macro 37.2 - Colored Lines | Pixel 2 | Pixel 1 | Pixel 2 | Pixel 1 |
| 38 | Macro 38.1 - Dots and Lines | Pixel 1 | Pixel 2 | Pixel 3 | Pixel 4 |
| | Macro 38.2 - Dots and Lines | Pixel 4 | Pixel 1 | Pixel 2 | Pixel 3 |
| | Macro 38.3 - Dots and Lines | Pixel 3 | Pixel 4 | Pixel 1 | Pixel 2 |
| | Macro 38.4 - Dots and Lines | Pixel 2 | Pixel 3 | Pixel 4 | Pixel 1 |
| 39 | Macro 39.1 - Dots and Lines 2 | Pixel 1 | Pixel 2 | Pixel 3 | Pixel 4 |
| | Macro 39.2 - Dots and Lines 2 | Pixel 4 | Pixel 1 | Pixel 2 | Pixel 3 |
| | Macro 39.3 - Dots and Lines 2 | Pixel 3 | Pixel 4 | Pixel 1 | Pixel 2 |
| | Macro 39.4 - Dots and Lines 2 | Pixel 2 | Pixel 3 | Pixel 4 | Pixel 1 |

High End Systems Reference Guide

DMX Channel Map

| DMX | Description | LED 1 | LED 2 | LED 3 | LED 4 |
|-----|--|---------|---------|---------|---------|
| 40 | Macro 40.1 - Hash Chase | Pixel 1 | | | |
| | Macro 40.2 - Hash Chase | | Pixel 1 | | |
| | Macro 40.3 - Hash Chase | | | Pixel 1 | |
| | Macro 40.4 - Hash Chase | | | | Pixel 1 |
| 41 | Macro 41.1 - Hash Chase 2 | Pixel 1 | | | |
| | Macro 41.2 - Hash Chase 2 | | Pixel 1 | | |
| | Macro 41.3 - Hash Chase 2 | | | Pixel 1 | |
| | Macro 41.4 - Hash Chase 2 | | | | Pixel 1 |
| 42 | Macro 42 - Iris Hash | Pixel 1 | Pixel 1 | Pixel 2 | Pixel 2 |
| 43 | Macro 43 - Color Hash | Pixel 1 | Pixel 2 | Pixel 3 | Pixel 4 |
| 44 | Macro 44 - Hash Animation | Pixel 1 | Pixel 1 | Pixel 1 | Pixel 1 |
| 45 | Macro 45 - Hash Animation 2 | Pixel 1 | Pixel 1 | Pixel 1 | Pixel 1 |
| 46 | Macro 46 - Hash Animation 3 | Cycle | Cycle | Cycle | Cycle |
| 47 | Macro 47.1 - Blue Hash Chase | White | | | |
| | Macro 47.2 - Blue Hash Chase | | White | | |
| | Macro 47.3 - Blue Hash Chase | | | White | |
| | Macro 47.4 - Blue Hash Chase | | | | White |
| 48 | Macro 48.1 - Red Hash Chase | White | | | |
| | Macro 48.2 - Red Hash Chase | | White | | |
| | Macro 48.3 - Red Hash Chase | | | White | |
| | Macro 48.4 - Red Hash Chase | | | | White |
| 49 | Macro 49 - Hash Animation | Cycle | Cycle | Cycle | Cycle |
| 50 | Macro 50 - Hash Animation Random Color | Cycle | Cycle | Cycle | Cycle |
| 51 | Macro 51 - Fast Hash Color | Cycle | Cycle | Cycle | Cycle |
| 52 | Macro 52 - Hash Splat | Cycle | Cycle | Cycle | Cycle |
| 53 | Macro 53 - Color Dots 1 | Pixel 1 | Pixel 2 | Pixel 3 | Pixel 4 |
| 54 | Macro 54 - Color Dots 2 | Cycle | Cycle | Cycle | Cycle |
| 55 | Macro 55 - Color Dots 3 | Cycle | Cycle | Cycle | Cycle |
| 56 | Macro 56 - Color Dots 4 | Pixel 1 | Pixel 2 | Pixel 3 | Pixel 4 |
| 57 | Macro 57 - Color Dots 5 | Pixel 1 | Pixel 2 | Pixel 3 | Pixel 4 |

High End Systems Reference Guide

DMX Channel Map

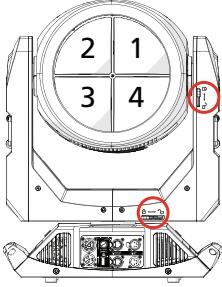
| DMX | Description | LED 1 | LED 2 | LED 3 | LED 4 |
|-----|---------------------------------|---------|---------|---------|---------|
| 58 | Macro 58.1 - Rainbow Dots | Pixel 1 | Pixel 2 | Pixel 3 | Pixel 4 |
| | Macro 58.2 - Rainbow Dots | Pixel 4 | Pixel 1 | Pixel 2 | Pixel 3 |
| | Macro 58.3 - Rainbow Dots | Pixel 3 | Pixel 4 | Pixel 1 | Pixel 2 |
| | Macro 58.4 - Rainbow Dots | Pixel 2 | Pixel 3 | Pixel 4 | Pixel 1 |
| 59 | Macro 59.1 - Red and White Dots | Pixel 1 | Pixel 2 | Pixel 1 | Pixel 2 |
| | Macro 59.2 - Red and White Dots | Pixel 2 | Pixel 1 | Pixel 2 | Pixel 1 |
| 60 | Macro 60 - Shimmer Breakup | White | White | White | White |
| 61 | Macro 61 - Color Breakup | White | White | White | White |
| 62 | Macro 62.1 - Zoom FX 1 | White | White | White | White |
| | Macro 62.2 - Zoom FX 1 | White | White | White | White |
| 63 | Macro 63.1 - Zoom FX 2 | White | White | White | White |
| | Macro 63.2 - Zoom FX 2 | White | White | White | White |
| 64 | Macro 64.1 - Zoom FX 3 | White | White | White | White |
| | Macro 64.2 - Zoom FX 3 | White | White | White | White |
| 65 | Macro 65.1 - Zoom FX 4 | White | White | White | White |
| | Macro 65.2 - Zoom FX 4 | White | White | White | White |
| 66 | Macro 66.1 - Zoom FX 5 | White | White | White | White |
| | Macro 66.2 - Zoom FX 5 | White | White | White | White |
| 67 | Macro 67.1 - Zoom FX 6 | White | White | White | White |
| | Macro 67.2 - Zoom FX 6 | White | White | White | White |
| 68 | Macro 68.1 - Zoom FX 7 | White | White | White | White |
| | Macro 68.2 - Zoom FX 7 | White | White | White | White |
| 69 | Macro 69.1 - Hash Zoom 1 | White | White | White | White |
| | Macro 69.2 - Hash Zoom 1 | White | White | White | White |
| 70 | Macro 70.1 - Hash Zoom 2 | White | White | White | White |
| | Macro 70.2 - Hash Zoom 2 | White | White | White | White |
| 71 | Macro 71.1 - Hash Zoom 3 | White | White | White | White |
| | Macro 71.2 - Hash Zoom 3 | White | White | White | White |
| 72 | Macro 72.1 - Dot Zoom | Pixel 1 | Pixel 2 | Pixel 3 | Pixel 4 |
| | Macro 72.2 - Dot Zoom | Pixel 1 | Pixel 2 | Pixel 3 | Pixel 4 |
| 73 | Macro 73 - Dot Shake Zoom 1 | Cycle | Cycle | Cycle | Cycle |

High End Systems Reference Guide

DMX Channel Map

| DMX | Description | LED 1 | LED 2 | LED 3 | LED 4 |
|-----|-------------------------------|-------|-------|-------|-------|
| 74 | Macro 74.1 - Dot Shake Zoom 2 | White | White | White | White |
| | Macro 74.2 - Dot Shake Zoom 2 | White | White | White | White |
| 75 | Macro 75.1 - Dot Shake Zoom 3 | White | White | White | White |
| | Macro 75.2 - Dot Shake Zoom 3 | White | White | White | White |
| 76 | Macro 76 - Dot Shake Zoom 4 | White | White | White | White |
| 77 | Macro 77 - Dot Shake Zoom 5 | White | White | White | White |
| 78 | Macro 78.1 - Super Nova | White | White | White | White |
| | Macro 78.2 - Super Nova | Cycle | Cycle | Cycle | Cycle |

Notes

| | | |
|--|--|--|
| <p>LED 1-4 defined by the following:</p> <p>Pixel 1 - DMX channels 18-26</p> <p>1 Pixel 2 - DMX channels 27-35</p> <p>Pixel 3 - DMX channels 36-44</p> <p>Pixel 4 - DMX channels 45-53</p> |  | <p>Note the direction of the fixture head, pan, and tilt locks in the image.</p> |
| <p>2 When the Macro is selected, the Pixel data will be mapped to the LED column.</p> | | |
| <p>3 Individual pixels must be programmed with different colors for Macros to function.</p> | | |

High End Systems Reference Guide

DMX Channel Map

TurboRay mSpeeds

| DMX | Time (seconds) | DMX | Time (seconds) | DMX | Time (seconds) | DMX | Time (seconds) |
|-----|----------------|-----|----------------|-----|----------------|-----|----------------|
| 0 | Off | 40 | 185.44 | 80 | 122.91 | 120 | 73.2 |
| 1 | Off | 41 | 183.72 | 81 | 121.51 | 121 | 72.13 |
| 2 | Off | 42 | 182.01 | 82 | 120.12 | 122 | 71.06 |
| 3 | Off | 43 | 180.31 | 83 | 118.74 | 123 | 69.99 |
| 4 | 252.69 | 44 | 178.61 | 84 | 117.36 | 124 | 68.94 |
| 5 | 250.68 | 45 | 176.92 | 85 | 115.99 | 125 | 67.89 |
| 6 | 248.68 | 46 | 175.24 | 86 | 114.64 | 126 | 66.85 |
| 7 | 246.69 | 47 | 173.57 | 87 | 113.28 | 127 | 65.82 |
| 8 | 244.7 | 48 | 171.91 | 88 | 111.94 | 128 | 64.8 |
| 9 | 242.73 | 49 | 170.25 | 89 | 110.61 | 129 | 63.79 |
| 10 | 240.76 | 50 | 168.61 | 90 | 109.28 | 130 | 62.78 |
| 11 | 238.8 | 51 | 166.97 | 91 | 107.96 | 131 | 61.78 |
| 12 | 236.85 | 52 | 165.33 | 92 | 106.65 | 132 | 60.79 |
| 13 | 234.9 | 53 | 163.71 | 93 | 105.35 | 133 | 59.81 |
| 14 | 232.97 | 54 | 162.1 | 94 | 104.05 | 134 | 58.84 |
| 15 | 231.04 | 55 | 160.49 | 95 | 102.77 | 135 | 57.87 |
| 16 | 229.12 | 56 | 158.89 | 96 | 101.49 | 136 | 56.91 |
| 17 | 227.21 | 57 | 157.39 | 97 | 100.22 | 137 | 55.96 |
| 18 | 225.3 | 58 | 155.71 | 98 | 98.95 | 138 | 55.02 |
| 19 | 223.41 | 59 | 154.14 | 99 | 97.7 | 139 | 54.09 |
| 20 | 221.52 | 60 | 152.57 | 100 | 96.45 | 140 | 53.16 |
| 21 | 219.64 | 61 | 151.01 | 101 | 95.21 | 141 | 52.24 |
| 22 | 217.77 | 62 | 149.46 | 102 | 93.98 | 142 | 51.33 |
| 23 | 215.9 | 63 | 147.92 | 103 | 92.76 | 143 | 50.43 |
| 24 | 214.05 | 64 | 146.38 | 104 | 91.55 | 144 | 49.54 |
| 25 | 212.2 | 65 | 144.86 | 105 | 90.34 | 145 | 48.65 |
| 26 | 210.36 | 66 | 143.34 | 106 | 89.14 | 146 | 47.77 |
| 27 | 208.53 | 67 | 141.82 | 107 | 87.95 | 147 | 46.9 |
| 28 | 206.7 | 68 | 140.32 | 108 | 86.77 | 148 | 46.04 |
| 29 | 204.89 | 69 | 138.83 | 109 | 85.59 | 149 | 45.19 |
| 30 | 203.08 | 70 | 137.34 | 110 | 84.43 | 150 | 44.34 |
| 31 | 201.28 | 71 | 135.86 | 111 | 83.27 | 151 | 43.51 |
| 32 | 199.49 | 72 | 134.39 | 112 | 82.12 | 152 | 42.68 |
| 33 | 197.7 | 73 | 132.93 | 113 | 80.98 | 153 | 41.85 |
| 34 | 195.93 | 74 | 131.47 | 114 | 79.84 | 154 | 41.04 |
| 35 | 194.16 | 75 | 130 | 115 | 78.72 | 155 | 40.23 |
| 36 | 192.4 | 76 | 128.59 | 116 | 77.6 | 156 | 39.44 |
| 37 | 190.65 | 77 | 127.15 | 117 | 76.49 | 157 | 38.65 |
| 38 | 188.9 | 78 | 125.73 | 118 | 75.38 | 158 | 37.87 |
| 39 | 187.17 | 79 | 124.32 | 119 | 74.29 | 159 | 37.09 |

High End Systems Reference Guide

DMX Channel Map

| DMX | Time (seconds) | DMX | Time (seconds) | DMX | Time (seconds) |
|-----|----------------|-----|----------------|-----|----------------|
| 160 | 36.33 | 192 | 16.06 | 224 | 4 |
| 161 | 35.57 | 193 | 15.56 | 225 | 3.76 |
| 162 | 34.82 | 194 | 15.07 | 226 | 3.52 |
| 163 | 34.08 | 195 | 14.58 | 227 | 3.29 |
| 164 | 33.34 | 196 | 14.1 | 228 | 3.07 |
| 165 | 32.62 | 197 | 13.63 | 229 | 2.86 |
| 166 | 31.9 | 198 | 13.17 | 230 | 2.66 |
| 167 | 31.19 | 199 | 12.72 | 231 | 2.46 |
| 168 | 30.49 | 200 | 12.28 | 232 | 2.27 |
| 169 | 29.8 | 201 | 11.84 | 233 | 2.09 |
| 170 | 29.11 | 202 | 11.41 | 234 | 1.92 |
| 171 | 28.43 | 203 | 10.99 | 235 | 1.75 |
| 172 | 27.76 | 204 | 10.58 | 236 | 1.6 |
| 173 | 27.1 | 205 | 10.17 | 237 | 1.45 |
| 174 | 26.45 | 206 | 9.77 | 238 | 1.31 |
| 175 | 25.8 | 207 | 9.39 | 239 | 1.18 |
| 176 | 25.17 | 208 | 9 | 240 | 1.05 |
| 177 | 24.54 | 209 | 8.63 | 241 | 0.94 |
| 178 | 23.92 | 210 | 8.27 | 242 | 0.83 |
| 179 | 23.3 | 211 | 7.91 | 243 | 0.73 |
| 180 | 22.7 | 212 | 7.56 | 244 | 0.64 |
| 181 | 22.1 | 213 | 7.22 | 245 | 0.55 |
| 182 | 21.51 | 214 | 6.89 | 246 | 0.47 |
| 183 | 20.93 | 215 | 6.56 | 247 | 0.41 |
| 184 | 20.36 | 216 | 6.25 | 248 | 0.35 |
| 185 | 19.79 | 217 | 5.94 | 249 | 0.29 |
| 186 | 19.23 | 218 | 5.64 | 250 | 0.25 |
| 187 | 18.69 | 219 | 5.34 | 251 | 0.21 |
| 188 | 18.14 | 220 | 5.06 | 252 | 0.19 |
| 189 | 17.61 | 221 | 4.78 | 253 | 0.17 |
| 190 | 17.09 | 222 | 4.52 | 254 | 0.15 |
| 191 | 16.57 | 223 | 4.25 | 255 | 0.15 |

High End Systems Reference Guide

DMX Channel Map

TurboRay Crossfades

| DMX | Time (seconds) | DMX | Time (seconds) | DMX | Time (seconds) | DMX | Time (seconds) |
|-----|----------------|-----|----------------|-----|----------------|-----|----------------|
| 0 | 0 | 40 | 0 | 80 | 0 | 120 | 0 |
| 1 | 0 | 41 | 0 | 81 | 0 | 121 | 0 |
| 2 | 0 | 42 | 0 | 82 | 0 | 122 | 0 |
| 3 | 0 | 43 | 0 | 83 | 0 | 123 | 0 |
| 4 | 0 | 44 | 0 | 84 | 0 | 124 | 0 |
| 5 | 0 | 45 | 0 | 85 | 0 | 125 | 0 |
| 6 | 0 | 46 | 0 | 86 | 0 | 126 | 0 |
| 7 | 0 | 47 | 0 | 87 | 0 | 127 | 0 |
| 8 | 0 | 48 | 0 | 88 | 0 | 128 | 0 |
| 9 | 0 | 49 | 0 | 89 | 0 | 129 | 63.79 |
| 10 | 0 | 50 | 0 | 90 | 0 | 130 | 62.78 |
| 11 | 0 | 51 | 0 | 91 | 0 | 131 | 61.78 |
| 12 | 0 | 52 | 0 | 92 | 0 | 132 | 60.79 |
| 13 | 0 | 53 | 0 | 93 | 0 | 133 | 59.81 |
| 14 | 0 | 54 | 0 | 94 | 0 | 134 | 58.84 |
| 15 | 0 | 55 | 0 | 95 | 0 | 135 | 57.87 |
| 16 | 0 | 56 | 0 | 96 | 0 | 136 | 56.91 |
| 17 | 0 | 57 | 0 | 97 | 0 | 137 | 55.96 |
| 18 | 0 | 58 | 0 | 98 | 0 | 138 | 55.02 |
| 19 | 0 | 59 | 0 | 99 | 0 | 139 | 54.09 |
| 20 | 0 | 60 | 0 | 100 | 0 | 140 | 53.16 |
| 21 | 0 | 61 | 0 | 101 | 0 | 141 | 52.24 |
| 22 | 0 | 62 | 0 | 102 | 0 | 142 | 51.33 |
| 23 | 0 | 63 | 0 | 103 | 0 | 143 | 50.43 |
| 24 | 0 | 64 | 0 | 104 | 0 | 144 | 49.54 |
| 25 | 0 | 65 | 0 | 105 | 0 | 145 | 48.65 |
| 26 | 0 | 66 | 0 | 106 | 0 | 146 | 47.77 |
| 27 | 0 | 67 | 0 | 107 | 0 | 147 | 46.9 |
| 28 | 0 | 68 | 0 | 108 | 0 | 148 | 46.04 |
| 29 | 0 | 69 | 0 | 109 | 0 | 149 | 45.19 |
| 30 | 0 | 70 | 0 | 110 | 0 | 150 | 44.34 |
| 31 | 0 | 71 | 0 | 111 | 0 | 151 | 43.51 |
| 32 | 0 | 72 | 0 | 112 | 0 | 152 | 42.68 |
| 33 | 0 | 73 | 0 | 113 | 0 | 153 | 41.85 |
| 34 | 0 | 74 | 0 | 114 | 0 | 154 | 41.04 |
| 35 | 0 | 75 | 0 | 115 | 0 | 155 | 40.23 |
| 36 | 0 | 76 | 0 | 116 | 0 | 156 | 39.44 |
| 37 | 0 | 77 | 0 | 117 | 0 | 157 | 38.65 |
| 38 | 0 | 78 | 0 | 118 | 0 | 158 | 37.87 |
| 39 | 0 | 79 | 0 | 119 | 0 | 159 | 37.09 |

High End Systems Reference Guide

DMX Channel Map

| DMX | Time (seconds) | DMX | Time (seconds) | DMX | Time (seconds) |
|-----|----------------|-----|----------------|-----|----------------|
| 160 | 36.33 | 192 | 16.069 | 224 | 4 |
| 161 | 35.57 | 193 | 15.56 | 225 | 3.76 |
| 162 | 34.82 | 194 | 15.07 | 226 | 3.52 |
| 163 | 34.08 | 195 | 14.58 | 227 | 3.29 |
| 164 | 33.34 | 196 | 14.1 | 228 | 3.07 |
| 165 | 32.62 | 197 | 13.63 | 229 | 2.86 |
| 166 | 31.9 | 198 | 13.17 | 230 | 2.66 |
| 167 | 31.19 | 199 | 12.72 | 231 | 2.46 |
| 168 | 30.49 | 200 | 12.28 | 232 | 2.27 |
| 169 | 29.8 | 201 | 11.84 | 233 | 2.09 |
| 170 | 29.11 | 202 | 11.41 | 234 | 1.92 |
| 171 | 28.43 | 203 | 10.99 | 235 | 1.75 |
| 172 | 27.76 | 204 | 10.58 | 236 | 1.6 |
| 173 | 27.1 | 205 | 10.17 | 237 | 1.45 |
| 174 | 26.45 | 206 | 9.77 | 238 | 1.31 |
| 175 | 25.8 | 207 | 9.39 | 239 | 1.18 |
| 176 | 25.17 | 208 | 9 | 240 | 1.05 |
| 177 | 24.54 | 209 | 8.63 | 241 | 0.94 |
| 178 | 23.92 | 210 | 8.27 | 242 | 0.83 |
| 179 | 23.3 | 211 | 7.91 | 243 | 0.73 |
| 180 | 22.7 | 212 | 7.56 | 244 | 0.64 |
| 181 | 22.1 | 213 | 7.22 | 245 | 0.55 |
| 182 | 21.51 | 214 | 6.89 | 246 | 0.47 |
| 183 | 20.93 | 215 | 6.56 | 247 | 0.41 |
| 184 | 20.36 | 216 | 6.25 | 248 | 0.35 |
| 185 | 19.79 | 217 | 5.94 | 249 | 0.29 |
| 186 | 19.23 | 218 | 5.64 | 250 | 0.25 |
| 187 | 18.7 | 219 | 5.34 | 251 | 0.21 |
| 188 | 18.14 | 220 | 5.06 | 252 | 0.19 |
| 189 | 17.61 | 221 | 4.78 | 253 | 0.17 |
| 190 | 17.09 | 222 | 4.52 | 254 | 0.15 |
| 191 | 16.57 | 223 | 4.25 | 255 | 0.15 |

High End Systems Reference Guide

DMX Channel Map

Revision History

Revision D - Added the "Reserved" range to channel 9 (Gobo) in the Standard Profile, and added bold text formatting to several Description headings in the Reduced Profile and the Standard Protocol. (November 2020)

Revision C - Added DMX channels 12-78 to the TurboRay Macros. (October 2020)

Revision B - Changed section title names and added a third note to TurboRay Macros page. There were no DMX value changes for this revision. (September 17, 2019)

Revision A - Initial release. (August 16th, 2019)