

ETC Reference Guide

High End Systems Halcyon Gold DMX Channel Map

Halcyon Gold DMX Channel Map

(Software Version 1.4.6 and Later)

| Standard Protocol | | | |
|-------------------|----------------------------|---------|-------------------------|
| Channel | Function | Channel | Function |
| 1 | Pan Coarse | 30 | Animation |
| 2 | Pan Fine | 31 | Prism 1 Mode |
| 3 | Tilt Coarse | 32 | Prism 1 Coarse |
| 4 | Tilt Fine | 33 | Prism 1 Fine |
| 5 | Color Mode | 34 | Prism 2 Mode |
| 6 | Cyan | 35 | Prism 2 Coarse |
| 7 | Magenta | 36 | Prism 2 Fine |
| 8 | Yellow | 37 | Trifusion |
| 9 | CTO | 38 | Diffusion 1 |
| 10 | Color Wheel Mode | 39 | Diffusion 2 |
| 11 | Color Wheel | 40 | Diffusion 3 |
| 12 | Rotating Gobo Wheel 1 Mode | 41 | Focus Coarse |
| 13 | Rotating Gobo Wheel 1 | 42 | Focus Fine |
| 14 | Rotating Gobo 1 Mode | 43 | Zoom Coarse |
| 15 | Rotating Gobo 1 Coarse | 44 | Zoom Fine |
| 16 | Rotating Gobo 1 Fine | 45 | Auto Focus |
| 17 | Fixed Gobo Wheel 2 Mode | 46 | Auto Focus Fine |
| 18 | Fixed Gobo Wheel 2 | 47 | Iris |
| 19 | Blade 1 Angle A | 48 | Strobe Mode |
| 20 | Blade 1 Angle B | 49 | Strobe |
| 21 | Blade 2 Angle A | 50 | Dimmer Coarse |
| 22 | Blade 2 Angle B | 51 | Dimmer Fine |
| 23 | Blade 3 Angle A | 52 | LED Animation |
| 24 | Blade 3 Angle B | 53 | LED Animation Speed |
| 25 | Blade 4 Angle A | 54 | LED Animation Crossfade |
| 26 | Blade 4 Angle B | 55 | mSpeed |
| 27 | Frame Rotate Coarse | 56 | Control |
| 28 | Frame Rotate Fine | 57 | Fan |
| 29 | Animation Insertion | | |



ETC Reference Guide

Halcyon Gold DMX Channel Map

Halcyon Gold Standard Protocol

| Channel | Function | Description | Decimal Low | Decimal High | Percent Low | Percent High | Hex Low | Hex High | Controller Default | |
|---|--------------------|--|-------------|--------------|-------------|--------------|---------|----------|--------------------|--|
| 1/2 | Pan (Coarse/Fine) | See note 6 on page 11 | 0 | 65535 | 0% | 100% | 0000h | FFFFh | 32767 | |
| 3/4 | Tilt (Coarse/Fine) | See note 6 on page 11 | 0 | 65535 | 0% | 100% | 0000h | FFFFh | 32767 | |
| 5 | Color Mode | Full Speed Control | | | | | | | 0 | |
| | | Pure Mix | 0 | 31 | 0% | 12% | 00h | 1Fh | | |
| | | Cycle | 32 | 47 | 13% | 18% | 20h | 2Fh | | |
| | | Random | 48 | 63 | 19% | 25% | 30h | 3Fh | | |
| | | Pure Mix Fast | 64 | 79 | 25% | 31% | 40h | 4Fh | | |
| | | Cycle Fast | 80 | 95 | 31% | 37% | 50h | 5Fh | | |
| | | Random Fast | 96 | 111 | 38% | 44% | 60h | 6Fh | | |
| | | Reserved (see note 5 on page 11) | 112 | 127 | 44% | 50% | 70h | 7Fh | | |
| | | mSpeed Control | | | | | | | | |
| | | Pure Mix | 128 | 159 | 50% | 62% | 80h | 9Fh | | |
| | | Cycle | 160 | 175 | 63% | 69% | A0h | AFh | | |
| | | Random | 176 | 191 | 69% | 75% | B0h | BFh | | |
| | | Pure Mix Fast | 192 | 207 | 75% | 81% | C0h | CFh | | |
| | | Cycle Fast | 208 | 223 | 82% | 87% | D0h | DFh | | |
| Random Fast | 224 | 239 | 88% | 94% | E0h | EFh | | | | |
| Reserved (see note 5 on page 11) | 240 | 255 | 94% | 100% | F0h | FFh | | | | |
| 6 | Cyan | Pure Mix | | | | | | | 255 | |
| | | Full Saturation to Open (see note 1 on page 11) | 0 | 255 | 0% | 100% | 00h | FFh | | |
| | | Cycle & Random | | | | | | | 0 | |
| | | Slow to Fast | 0 | 255 | 0% | 100% | 00h | FFh | | |
| 7 | Magenta | Full Saturation to Open (see note 1 on page 11) | 0 | 255 | 0% | 100% | 00h | FFh | 255 | |
| 8 | Yellow | Full Saturation to Open (see note 1 on page 11) | 0 | 255 | 0% | 100% | 00h | FFh | 255 | |
| 9 | CTO | Full Saturation to Open | 0 | 255 | 0% | 100% | 00h | FFh | 255 | |

ETC Reference Guide

Halcyon Gold DMX Channel Map

| Channel | Function | Description | Decimal Low | Decimal High | Percent Low | Percent High | Hex Low | Hex High | Controller Default | |
|---------|------------------|---|-------------|--------------|-------------|--------------|---------|----------|--------------------|----|
| 10 | Color Wheel Mode | Full Speed Control | | | | | | | | 48 |
| | | Indexed (see note 1 on page 11) | 0 | 15 | 0% | 6% | 00h | 0Fh | | |
| | | Forward Spin | 16 | 31 | 6% | 12% | 10h | 1Fh | | |
| | | Reverse Spin | 32 | 47 | 13% | 18% | 20h | 2Fh | | |
| | | Continuous (see note 1 on page 11) | 48 | 63 | 19% | 25% | 30h | 3Fh | | |
| | | Scan | 64 | 79 | 25% | 31% | 40h | 4Fh | | |
| | | Random | 80 | 95 | 31% | 37% | 50h | 5Fh | | |
| | | Reserved (see note 5 on page 11) | 96 | 127 | 38% | 50% | 60h | 7Fh | | |
| | | mSpeed Control | | | | | | | | |
| | | Indexed (see note 1 on page 11) | 128 | 143 | 50% | 56% | 80h | 8Fh | | |
| | | Forward Spin | 144 | 159 | 56% | 62% | 90h | 9Fh | | |
| | | Reverse Spin | 160 | 175 | 63% | 69% | A0h | AFh | | |
| | | Continuous (see note 1 on page 11) | 176 | 191 | 69% | 75% | B0h | BFh | | |
| | | Scan | 192 | 207 | 75% | 81% | C0h | CFh | | |
| | | Random | 208 | 223 | 82% | 87% | D0h | DFh | | |
| | | Reserved (see note 5 on page 11) | 224 | 255 | 88% | 100% | E0h | FFh | | |

ETC Reference Guide

Halcyon Gold DMX Channel Map

| Channel | Function | Description | Decimal Low | Decimal High | Percent Low | Percent High | Hex Low | Hex High | Controller Default | |
|---------|-------------|--------------------------------|-------------|--------------|-------------|--------------|---------|----------|--------------------|--|
| 11 | Color Wheel | Indexed | | | | | | | | |
| | | Open (White) | 0 | 14 | 0% | 5% | 00h | 0Eh | 0 | |
| | | Open/Red | 15 | 29 | 6% | 11% | 0Fh | 1Dh | | |
| | | Red | 30 | 44 | 12% | 17% | 1Eh | 2Ch | | |
| | | Red/Blue | 45 | 59 | 18% | 23% | 2Dh | 3Bh | | |
| | | Blue | 60 | 74 | 24% | 29% | 3Ch | 4Ah | | |
| | | Blue/TM-30 | 75 | 89 | 29% | 35% | 4Bh | 59h | | |
| | | TM-30 | 90 | 104 | 35% | 41% | 5Ah | 68h | | |
| | | TM-30/Purple | 105 | 119 | 41% | 47% | 69h | 77h | | |
| | | Purple | 120 | 134 | 47% | 53% | 78h | 86h | | |
| | | Purple/Orange | 135 | 149 | 53% | 58% | 87h | 95h | | |
| | | Orange | 150 | 164 | 59% | 64% | 96h | A4h | | |
| | | Orange/Dark Blue | 165 | 179 | 65% | 70% | A5h | B3h | | |
| | | Dark Blue | 180 | 194 | 71% | 76% | B4h | C2h | | |
| | | Dark Blue/CTB | 195 | 209 | 76% | 82% | C3h | D1h | | |
| | | CTB | 210 | 224 | 82% | 88% | D2h | E0h | | |
| | | CTB/Open | 225 | 239 | 88% | 94% | E1h | EFh | | |
| | | Open (White) | 240 | 255 | 94% | 100% | F0h | FFh | | |
| | | Scan | | | | | | | | |
| | | Open/Red, Slow to Fast | 0 | 29 | 0% | 11% | 00h | 1Dh | | |
| | | Red/Blue, Slow to Fast | 30 | 59 | 12% | 23% | 1Eh | 3Bh | | |
| | | Blue/TM-30, Slow to Fast | 60 | 89 | 24% | 35% | 3Ch | 59h | | |
| | | TM-30/Purple, Slow to Fast | 90 | 119 | 35% | 47% | 5Ah | 77h | | |
| | | Purple/Orange, Slow to Fast | 120 | 149 | 47% | 58% | 78h | 95h | | |
| | | Orange/Dark Blue, Slow to Fast | 150 | 179 | 59% | 70% | 96h | B3h | | |
| | | Dark Blue/CTB | 180 | 209 | 71% | 82% | B4h | D1h | | |
| | | CTB/Open, Slow to Fast | 210 | 255 | 82% | 100% | D2h | FFh | | |
| | | Spin & Random | | | | | | | | |
| | | Stop | 0 | 0 | 0% | 0% | 00h | 00h | | |
| | | Slow to Fast | 1 | 255 | 0% | 100% | 01h | FFh | | |
| | | Continuous | | | | | | | | |
| | | Positioning from 0° to 359° | 0 | 255 | 0% | 100% | 00h | FFh | | |

ETC Reference Guide

Halcyon Gold DMX Channel Map

| Channel | Function | Description | Decimal Low | Decimal High | Percent Low | Percent High | Hex Low | Hex High | Controller Default | |
|---------|--|---|-------------|--------------|-------------|--------------|---------|----------|--------------------|---|
| 12 | Rotating Gobo Wheel 1 Mode | Full Speed Control | | | | | | | | |
| | | Indexed | 0 | 15 | 0% | 6% | 00h | 0Fh | 0 | |
| | | Forward Spin | 16 | 31 | 6% | 12% | 10h | 1Fh | | |
| | | Reverse Spin | 32 | 47 | 13% | 18% | 20h | 2Fh | | |
| | | Scan | 48 | 63 | 19% | 25% | 30h | 3Fh | | |
| | | Random | 64 | 79 | 25% | 31% | 40h | 4Fh | | |
| | | Reserved (see note 5 on page 11) | 80 | 127 | 31% | 50% | 50h | 7Fh | | |
| | | mSpeed Control | | | | | | | | |
| | | Indexed | 128 | 143 | 50% | 56% | 80h | 8Fh | | |
| | | Forward Spin | 144 | 159 | 56% | 62% | 90h | 9Fh | | |
| | | Reverse Spin | 160 | 175 | 63% | 69% | A0h | AFh | | |
| | | Scan | 176 | 191 | 69% | 75% | B0h | BFh | | |
| | | Random | 192 | 207 | 75% | 81% | C0h | CFh | | |
| | | Reserved (see note 5 on page 11) | 208 | 255 | 82% | 100% | D0h | FFh | | |
| 13 | Rotating Gobo Wheel 1 (see Halcyon Gold Gobos on page 14) | Indexed | | | | | | | | |
| | | Open | 0 | 15 | 0% | 6% | 00h | 0Fh | 0 | |
| | | Gobo 1 - Wiggle Lines | 16 | 31 | 6% | 12% | 10h | 1Fh | | |
| | | Gobo 2 - Mycelium | 32 | 47 | 13% | 18% | 20h | 2Fh | | |
| | | Gobo 3 - Bob's Brush | 48 | 63 | 19% | 25% | 30h | 3Fh | | |
| | | Gobo 4 - The Claw | 64 | 79 | 25% | 31% | 40h | 4Fh | | |
| | | Gobo 5 - Cut Cone | 80 | 95 | 31% | 37% | 50h | 5Fh | | |
| | | Gobo 6 - Split-S | 96 | 111 | 38% | 44% | 60h | 6Fh | | |
| | | Gobo 7 - Ice | 112 | 127 | 44% | 50% | 70h | 7Fh | | |
| | | Reserved (see note 5 on page 11) | 128 | 255 | 50% | 100% | 80h | FFh | | |
| | | Scan | | | | | | | | |
| | | Open/Wiggle Lines | 0 | 15 | 0% | 6% | 00h | 0Fh | | |
| | | Wiggle Lines/Mycelium | 16 | 31 | 6% | 12% | 10h | 1Fh | | |
| | | Mycelium/Bob's Brush | 32 | 47 | 13% | 18% | 20h | 2Fh | | |
| | | Bob's Brush/The Claw | 48 | 63 | 19% | 25% | 30h | 3Fh | | |
| | | The Claw/Cut Cone | 64 | 79 | 25% | 31% | 40h | 4Fh | | |
| | | Cut Cone/Split S | 80 | 95 | 31% | 37% | 50h | 5Fh | | |
| | | Split S/Ice | 96 | 111 | 38% | 44% | 60h | 6Fh | | |
| | | Ice/Open | 112 | 127 | 44% | 50% | 70h | 7Fh | | |
| | | Reserved (see note 5 on page 11) | 128 | 255 | 50% | 100% | 80h | FFh | | |
| | | Spin & Random | | | | | | | | |
| | | Stop | 0 | 3 | 0% | 1% | 00h | 03h | | |
| | | Slow to Fast | 4 | 255 | 2% | 100% | 04h | FFh | | |
| 14 | Rotating Gobo 1 Mode | Indexed | 0 | 15 | 0% | 6% | 00h | 0Fh | | 0 |
| | | Forward Spin | 16 | 31 | 6% | 12% | 10h | 1Fh | | |
| | | Reverse Spin | 32 | 47 | 13% | 18% | 20h | 2Fh | | |
| | | Forward Animate | 48 | 63 | 19% | 25% | 30h | 3Fh | | |
| | | Reverse Animate | 64 | 79 | 25% | 31% | 40h | 4Fh | | |
| | | Reserved (see note 5 on page 11) | 80 | 255 | 31% | 100% | 50h | FFh | | |

ETC Reference Guide

Halcyon Gold DMX Channel Map

| Channel | Function | Description | Decimal Low | Decimal High | Percent Low | Percent High | Hex Low | Hex High | Controller Default |
|---------|----------------------------------|---|-------------|--------------|-------------|--------------|---------|----------|--------------------|
| 15/16 | Rotating Gobo 1 (Coarse/Fine) | Indexed | | | | | | | 32767 |
| | | 0° to 359° | 0 | 65535 | 0% | 100% | 0000h | FFFFh | |
| | | Spin & Animate | | | | | | | |
| | | Stop | 0 | 1023 | 0% | 2% | 0000h | 03FFh | |
| | | Slow to Fast | 1024 | 65535 | 2% | 100% | 0400h | FFFFh | |
| 17 | Fixed Gobo Wheel 2 Mode | Full Speed Control | | | | | | | 0 |
| | | Indexed | 0 | 15 | 0% | 6% | 00h | 0Fh | |
| | | Forward Spin | 16 | 31 | 6% | 12% | 10h | 1Fh | |
| | | Reverse Spin | 32 | 47 | 13% | 18% | 20h | 2Fh | |
| | | Scan | 48 | 63 | 19% | 25% | 30h | 3Fh | |
| | | Random | 64 | 79 | 25% | 31% | 40h | 4Fh | |
| | | Reserved (see note 5 on page 11) | 80 | 127 | 31% | 50% | 50h | 7Fh | |
| | | mSpeed Control | | | | | | | |
| | | Indexed | 128 | 143 | 50% | 56% | 80h | 8Fh | |
| | | Forward Spin | 144 | 159 | 56% | 62% | 90h | 9Fh | |
| | | Reverse Spin | 160 | 175 | 63% | 69% | A0h | AFh | |
| | | Scan | 176 | 191 | 69% | 75% | B0h | BFh | |
| | | Random | 192 | 207 | 75% | 81% | C0h | CFh | |
| | | Reserved (see note 5 on page 11) | 208 | 255 | 82% | 100% | D0h | FFh | |

ETC Reference Guide

Halcyon Gold DMX Channel Map

| Channel | Function | Description | Decimal Low | Decimal High | Percent Low | Percent High | Hex Low | Hex High | Controller Default | |
|---|--|---|-------------|--------------|-------------|--------------|---------|----------|--------------------|--|
| 18 | Fixed Gobo Wheel 2 (see Halcyon Gold Gobos on page 14) | Indexed | | | | | | | | |
| | | Open | 0 | 15 | 0% | 6% | 00h | 0Fh | 0 | |
| | | Gobo 1 - Texture Drops | 16 | 31 | 6% | 12% | 10h | 1Fh | | |
| | | Gobo 2 - Lovely Bubbly | 32 | 47 | 13% | 18% | 20h | 2Fh | | |
| | | Gobo 3 - Art Ducko | 48 | 63 | 19% | 25% | 30h | 3Fh | | |
| | | Gobo 4 - Window Matrix | 64 | 79 | 25% | 31% | 40h | 4Fh | | |
| | | Gobo 5 - Swirly Gig | 80 | 95 | 31% | 37% | 50h | 5Fh | | |
| | | Gobo 6 - Fenced In | 96 | 111 | 38% | 44% | 60h | 6Fh | | |
| | | Gobo 7 - The Only Way Is Up | 112 | 127 | 44% | 50% | 70h | 7Fh | | |
| | | Gobo 8 - Repeater | 128 | 143 | 50% | 56% | 80h | 8Fh | | |
| | | Reserved (see note 5 on page 11) | 144 | 255 | 56% | 100% | 90h | FFh | | |
| | | Scan | | | | | | | | |
| | | Open/Texture Drops | 0 | 15 | 0% | 6% | 00h | 0Fh | | |
| | | Texture Drops/Lovely Bubbly | 16 | 31 | 6% | 12% | 10h | 1Fh | | |
| | | Lovely Bubbly/Art Ducko | 32 | 47 | 13% | 18% | 20h | 2Fh | | |
| | | Art Ducko/Window Matrix | 48 | 63 | 19% | 25% | 30h | 3Fh | | |
| | | Window Matrix/Swirly Gig | 64 | 79 | 25% | 31% | 40h | 4Fh | | |
| | | Swirly Gig/Fenced In | 80 | 95 | 31% | 37% | 50h | 5Fh | | |
| | | Fenced In/The Only Way Is Up | 96 | 111 | 38% | 44% | 60h | 6Fh | | |
| | | The Only Way Is Up/Repeater | 112 | 127 | 44% | 50% | 70h | 7Fh | | |
| Repeater/Open | 128 | 143 | 50% | 56% | 80h | 8Fh | | | | |
| Reserved (see note 5 on page 11) | 144 | 255 | 56% | 100% | 90h | FFh | | | | |
| Spin & Random | | | | | | | | | | |
| Stop | 0 | 3 | 0% | 1% | 00h | 03h | | | | |
| Slow to Fast | 4 | 255 | 2% | 100% | 04h | FFh | | | | |
| 19 | Blade 1 Angle A (see note 7 on page 12) | Removed to Inserted | 0 | 255 | 0% | 100% | 00h | FFh | 0 | |
| 20 | Blade 1 Angle B (see note 7 on page 12) | Removed to Inserted | 0 | 255 | 0% | 100% | 00h | FFh | 0 | |
| 21 | Blade 2 Angle A (see note 7 on page 12) | Removed to Inserted | 0 | 255 | 0% | 100% | 00h | FFh | 0 | |
| 22 | Blade 2 Angle B (see note 7 on page 12) | Removed to Inserted | 0 | 255 | 0% | 100% | 00h | FFh | 0 | |
| 23 | Blade 3 Angle A (see note 7 on page 12) | Removed to Inserted | 0 | 255 | 0% | 100% | 00h | FFh | 0 | |
| 24 | Blade 3 Angle B (see note 7 on page 12) | Removed to Inserted | 0 | 255 | 0% | 100% | 00h | FFh | 0 | |
| 25 | Blade 4 Angle A (see note 7 on page 12) | Removed to Inserted | 0 | 255 | 0% | 100% | 00h | FFh | 0 | |
| 26 | Blade 4 Angle B (see note 7 on page 12) | Removed to Inserted | 0 | 255 | 0% | 100% | 00h | FFh | 0 | |
| 27/28 | Frame Rotate (Coarse/Fine) | -90° to 90° | 0 | 65535 | 0% | 100% | 0000h | FFFFh | 32767 | |

ETC Reference Guide

Halcyon Gold DMX Channel Map

| Channel | Function | Description | Decimal Low | Decimal High | Percent Low | Percent High | Hex Low | Hex High | Controller Default |
|---|-----------------------|---|-------------|--------------|-------------|--------------|---------|----------|--------------------|
| 29 | Animation Insertion | Animation Out | 0 | 1 | 0% | 0% | 00h | 01h | 0 |
| | | Gradual Insertion | 2 | 110 | 1% | 43% | 02h | 6Eh | |
| | | Full Insert | 111 | 111 | 44% | 44% | 6Fh | 6Fh | |
| | | Adjust Incline | 112 | 255 | 44% | 100% | 70h | FFh | |
| 30 | Animation | Forward Spin, Stop to Fast | 0 | 63 | 0% | 25% | 00h | 3Fh | 0 |
| | | Reverse Spin, Stop to Fast | 64 | 127 | 25% | 50% | 40h | 7Fh | |
| | | Forward Animate, Stop to Fast | 128 | 191 | 50% | 75% | 80h | BFh | |
| | | Reverse Animate, Stop to Fast | 192 | 255 | 75% | 100% | C0h | FFh | |
| 31 | Prism 1 Mode | Removed | 0 | 15 | 0% | 6% | 00h | 0Fh | 0 |
| | | Continuous | 16 | 31 | 6% | 12% | 10h | 1Fh | |
| | | Forward Spin | 32 | 47 | 13% | 18% | 20h | 2Fh | |
| | | Reverse Spin | 48 | 63 | 19% | 25% | 30h | 3Fh | |
| | | Forward Animate | 64 | 79 | 25% | 31% | 40h | 4Fh | |
| | | Reverse Animate | 80 | 95 | 31% | 37% | 50h | 5Fh | |
| | | Reserved (see note 5 on page 11) | 96 | 255 | 38% | 100% | 60h | FFh | |
| 32/33 | Prism 1 (Coarse/Fine) | Continuous 0° to 359° | 0 | 65535 | 0% | 100% | 0000h | FFFFh | 32767 |
| | | Spin & Animate Stop | 0 | 102 | 0% | 0% | 0000h | 0066h | 0 |
| | | Slow to Fast | 1024 | 65535 | 2% | 100% | 0400h | FFFFh | |
| | | Removed | 0 | 15 | 0% | 6% | 00h | 0Fh | 0 |
| Continuous | 16 | 31 | 6% | 12% | 10h | 1Fh | | | |
| Forward Spin | 32 | 47 | 13% | 18% | 20h | 2Fh | | | |
| Reverse Spin | 48 | 63 | 19% | 25% | 30h | 3Fh | | | |
| Forward Animate | 64 | 79 | 25% | 31% | 40h | 4Fh | | | |
| Reverse Animate | 80 | 95 | 31% | 37% | 50h | 5Fh | | | |
| Reserved (see note 5 on page 11) | 96 | 255 | 38% | 100% | 60h | FFh | | | |
| 35/36 | Prism 2 (Coarse/Fine) | Continuous 0° to 359° | 0 | 65535 | 0% | 100% | 0000h | FFFFh | 32767 |
| | | Spin & Animate Stop | 0 | 1023 | 0% | 2% | 0000h | 03FFh | 0 |
| | | Slow to Fast | 1024 | 65535 | 2% | 100% | 0400h | FFFFh | |
| | | Hard to Soft Edge | 0 | 255 | 0% | 100% | 00h | FFh | 0 |
| 37 | Trifusion | Hard to Soft Edge | 0 | 255 | 0% | 100% | 00h | FFh | 0 |
| 38 | Diffusion 1 | Trifusion Channel = 0 Removed | 0 | 0 | 0% | 0% | 00h | 00h | 0 |
| | | Hard to Soft Edge | 1 | 255 | 0% | 100% | 01h | FFh | |
| | | Trifusion Channel ≥ 1 Not Enabled | – | – | – | – | – | – | – |
| | | Trifusion Channel = 0 Removed | 0 | 0 | 0% | 0% | 00h | 00h | 0 |
| 39 | Diffusion 2 | Hard to Soft Edge | 1 | 255 | 0% | 100% | 01h | FFh | |
| | | Trifusion Channel ≥ 1 Not Enabled | – | – | – | – | – | – | – |

ETC Reference Guide

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| Channel | Function | Description | Decimal Low | Decimal High | Percent Low | Percent High | Hex Low | Hex High | Controller Default |
|---|---|---|-------------|--------------|-------------|--------------|---------|----------|--------------------|
| 40 | Diffusion 3 | Trifusion Channel = 0 | | | | | | | 0 |
| | | Removed | 0 | 0 | 0% | 0% | 00h | 00h | |
| | | Hard to Soft Edge | 1 | 255 | 0% | 100% | 01h | FFh | |
| | | Trifusion Channel ≥ 1 | | | | | | | - |
| Not Enabled | - | - | - | - | - | - | | | |
| 41/42 | Focus (Coarse/Fine) | Focus | 0 | 65535 | 0% | 100% | 0000h | FFFFh | 32767 |
| 43/44 | Zoom (Coarse/Fine) | 6° to 57° | 0 | 65535 | 0% | 100% | 0000h | FFFFh | 32767 |
| 45/46 | Auto Focus (Coarse/Fine) | Auto Focus Off | 0 | 1023 | 0% | 2% | 0000h | 03FFh | 0 |
| | | Auto Focus On (Focus In to Out) | 1024 | 65535 | 2% | 100% | 0400h | FFFFh | |
| 47 | Iris | Closed to Open | 0 | 255 | 0% | 100% | 00h | FFh | 255 |
| 48 | Strobe Mode | Normal | 0 | 15 | 0% | 6% | 00h | 0Fh | 0 |
| | | Random | 16 | 31 | 6% | 12% | 10h | 1Fh | |
| | | Synchronous Random (see note 3 on page 11) | 32 | 47 | 13% | 18% | 20h | 2Fh | |
| | | Reserved (see note 5 on page 11) | 48 | 255 | 19% | 100% | 30h | FFh | |
| 49 | Strobe | Closed | 0 | 0 | 0% | 0% | 00h | 00h | 0 |
| | | Slow to Fast | 1 | 254 | 0% | 100% | 01h | FEh | |
| | | Open | 255 | 255 | 100% | 100% | FFh | FFh | |
| 50/51 | Dimmer (Coarse/Fine) | Off to Full | 0 | 65535 | 0% | 100% | 0000h | FFFFh | 0 |
| 52 | LED Animation (see note 2 on page 11 and Halcyon Gold LED Macros on page 13) | Macro Off | 0 | 3 | 0% | 1% | 00h | 03h | 0 |
| | | Macro 1: L to R | 4 | 7 | 2% | 3% | 04h | 07h | |
| | | Macro 2: R to L | 8 | 11 | 3% | 4% | 08h | 0Bh | |
| | | Macro 3: Alternate | 12 | 15 | 5% | 6% | 0Ch | 0Fh | |
| | | Macro 4: In | 16 | 19 | 6% | 7% | 10h | 13h | |
| | | Macro 5: Out | 20 | 23 | 8% | 9% | 14h | 17h | |
| | | ... | | | | | | | |
| Reserved (see note 5 on page 11) | 24 | 255 | 9% | 100% | 18h | FFh | | | |
| 53 | LED Animation Speed | Stop to Fast | 0 | 255 | 0% | 100% | 00h | FFh | 128 |
| 54 | LED Animation Crossfade | Stop to Fast | 0 | 255 | 0% | 100% | 00h | FFh | 128 |
| 55 | mSpeed | Not Enabled | 0 | 3 | 0% | 1% | 00h | 03h | 0 |
| | | Longest to Shortest | 4 | 255 | 2% | 100% | 04h | FFh | |

ETC Reference Guide

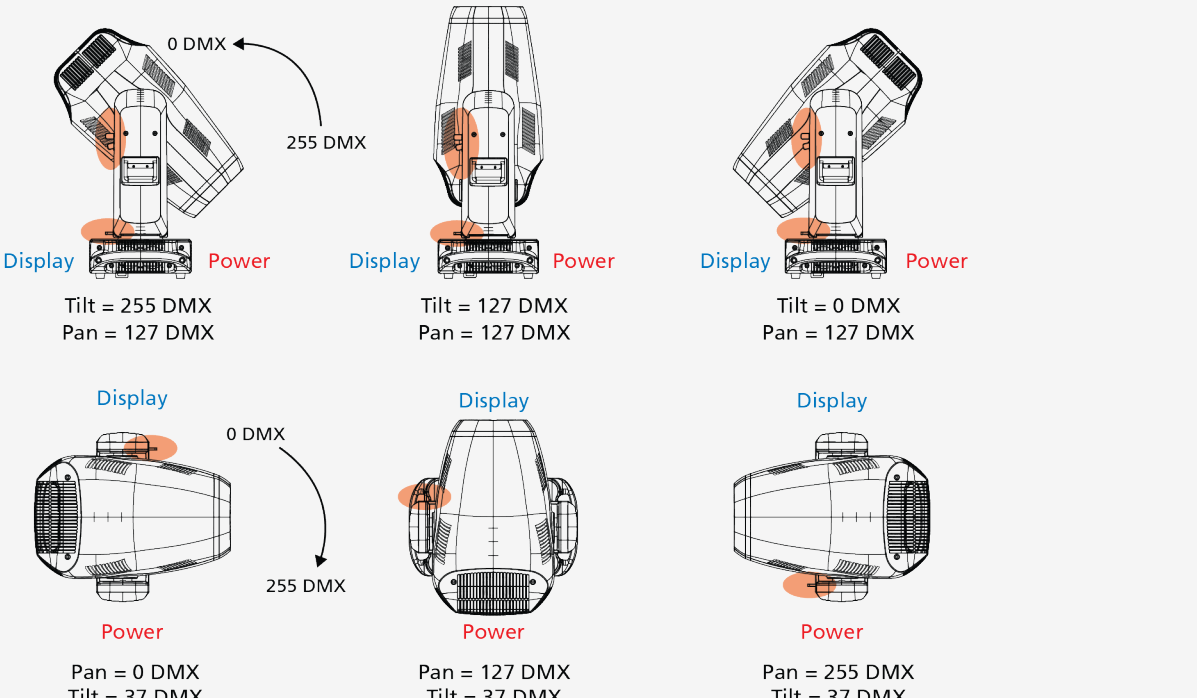
Halcyon Gold DMX Channel Map

| Channel | Function | Description | Decimal Low | Decimal High | Percent Low | Percent High | Hex Low | Hex High | Controller Default | |
|----------------------------------|-----------------------------|--|-------------|--------------|-------------|--------------|---------|----------|--------------------|---|
| 56 | Control | No hold time requirement for the following functions (see note 8 on page 12): | | | | | | | | 0 |
| | | Idle | 0 | 15 | 0% | 6% | 00h | 0Fh | | |
| | | Pan and Tilt mSpeed Off | 16 | 19 | 6% | 7% | 10h | 13h | | |
| | | Reserved (see note 5 on page 11) | 20 | 31 | 8% | 12% | 14h | 1Fh | | |
| | | Hold time requirement for the following functions: | | | | | | | | |
| | | Display Off (3 s) | 32 | 47 | 13% | 18% | 20h | 2Fh | | |
| | | Display On (3 s) | 48 | 63 | 19% | 25% | 30h | 3Fh | | |
| | | Reserved (see note 5 on page 11) | 64 | 79 | 25% | 31% | 40h | 4Fh | | |
| | | Home All (3 s) | 80 | 95 | 31% | 37% | 50h | 5Fh | | |
| | | Shutdown (9 s) | 96 | 111 | 38% | 44% | 60h | 6Fh | | |
| | | Disable Pan/Tilt Motors (3 s) (see note 9 on page 12) | 112 | 127 | 44% | 50% | 70h | 7Fh | | |
| | | Dimming Mode - 2.4 kHz (3 s) | 128 | 143 | 50% | 56% | 80h | 8Fh | | |
| | | Dimming Mode - 16 kHz (3 s) | 144 | 159 | 56% | 62% | 90h | 9Fh | | |
| | | Reserved (see note 5 on page 11) | 160 | 167 | 63% | 65% | A0h | A7h | | |
| | | Gobo Color Correction On (3 s) | 168 | 175 | 66% | 69% | A8h | AFh | | |
| Gobo Color Correction Off (3 s) | 176 | 191 | 69% | 75% | B0h | BFh | | | | |
| Reserved (see note 5 on page 11) | 192 | 255 | 75% | 100% | C0h | FFh | | | | |
| 57 | Fan (see note 4 on page 11) | Idle | 0 | 15 | 0% | 6% | 00h | 0Fh | 0 | |
| | | Slow to Fast | 16 | 207 | 6% | 81% | 10h | CFh | | |
| | | Auto | 208 | 223 | 82% | 87% | D0h | DFh | | |
| | | Studio | 224 | 239 | 88% | 94% | E0h | EFh | | |
| | | Reserved (see note 5 on page 11) | 240 | 255 | 94% | 100% | F0h | FFh | | |

ETC Reference Guide

Halcyon Gold DMX Channel Map

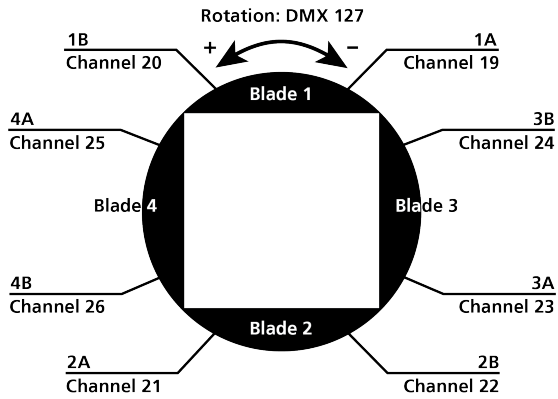
Notes

| 1 | <p>Continuous, Indexed, and Pure Mix modes should take the quickest path from 255-0 and 0-255. Continuous mode color wheel aperture centers are as follows:</p> <table border="1" data-bbox="252 363 836 680"> <thead> <tr> <th>Color</th> <th>Center of Color DMX Value</th> </tr> </thead> <tbody> <tr> <td>Open</td> <td>0</td> </tr> <tr> <td>Red</td> <td>32</td> </tr> <tr> <td>Blue</td> <td>64</td> </tr> <tr> <td>TM-30</td> <td>93</td> </tr> <tr> <td>Purple</td> <td>127</td> </tr> <tr> <td>Orange</td> <td>159</td> </tr> <tr> <td>Dark Blue</td> <td>191</td> </tr> <tr> <td>CTB</td> <td>223</td> </tr> </tbody> </table> | Color | Center of Color DMX Value | Open | 0 | Red | 32 | Blue | 64 | TM-30 | 93 | Purple | 127 | Orange | 159 | Dark Blue | 191 | CTB | 223 | | | |
|-----------|---|-----------|---------------------------|-----------|------------------------------|-------|--|------|--|---------|--|--------|-----|--------|-----|-----------|-----|-----|-----|-----|----|-----|
| Color | Center of Color DMX Value | | | | | | | | | | | | | | | | | | | | | |
| Open | 0 | | | | | | | | | | | | | | | | | | | | | |
| Red | 32 | | | | | | | | | | | | | | | | | | | | | |
| Blue | 64 | | | | | | | | | | | | | | | | | | | | | |
| TM-30 | 93 | | | | | | | | | | | | | | | | | | | | | |
| Purple | 127 | | | | | | | | | | | | | | | | | | | | | |
| Orange | 159 | | | | | | | | | | | | | | | | | | | | | |
| Dark Blue | 191 | | | | | | | | | | | | | | | | | | | | | |
| CTB | 223 | | | | | | | | | | | | | | | | | | | | | |
| 2 | <p>Macros operate independently. The Xfade and speed channels act as multipliers of the programmed speed in the discrete macro steps.</p> <p>Speed/Xfade Channel Operation</p> <table border="1" data-bbox="231 772 1436 953"> <thead> <tr> <th>Channel</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Stops playback or cross fade</td> </tr> <tr> <td>1-127</td> <td>Decreases playback speed/cross fade time (*<1)</td> </tr> <tr> <td>128</td> <td>Playback or cross fade speed is as programmed (*1)</td> </tr> <tr> <td>129-255</td> <td>Increases playback speed/cross fade time (*>1)</td> </tr> </tbody> </table> | Channel | Description | 0 | Stops playback or cross fade | 1-127 | Decreases playback speed/cross fade time (*<1) | 128 | Playback or cross fade speed is as programmed (*1) | 129-255 | Increases playback speed/cross fade time (*>1) | | | | | | | | | | | |
| Channel | Description | | | | | | | | | | | | | | | | | | | | | |
| 0 | Stops playback or cross fade | | | | | | | | | | | | | | | | | | | | | |
| 1-127 | Decreases playback speed/cross fade time (*<1) | | | | | | | | | | | | | | | | | | | | | |
| 128 | Playback or cross fade speed is as programmed (*1) | | | | | | | | | | | | | | | | | | | | | |
| 129-255 | Increases playback speed/cross fade time (*>1) | | | | | | | | | | | | | | | | | | | | | |
| 3 | <p>Synchronous random strobes are synchronized across fixtures.</p> | | | | | | | | | | | | | | | | | | | | | |
| 4 | <p>Upon loss of DMX, the fixture retains the fan mode setting but does not retain the linear fan speed setting. To retain the linear fan speed setting, park the DMX values to ensure the correct speed is always present when DMX is present.</p> | | | | | | | | | | | | | | | | | | | | | |
| 5 | <p>Reserved ranges should function according to the controller default value.</p> | | | | | | | | | | | | | | | | | | | | | |
| 6 | <p>DMX Fixture Orientation (Tilt Movement Range: 259°; Pan Movement Range: 540°) (Pan and tilt lock locations are highlighted in orange.)</p>  <p>The diagrams illustrate the fixture's orientation for specific DMX values. The top row shows the fixture from a side perspective, with arrows indicating the pan range from 0 DMX to 255 DMX. The bottom row shows the fixture from a front perspective, with arrows indicating the tilt range from 0 DMX to 255 DMX. Lock locations are highlighted in orange.</p> <table border="1" data-bbox="231 1428 1436 1898"> <thead> <tr> <th>DMX Value</th> <th>Tilt (DMX)</th> <th>Pan (DMX)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>255</td> <td>127</td> </tr> <tr> <td>127</td> <td>127</td> <td>127</td> </tr> <tr> <td>255</td> <td>0</td> <td>127</td> </tr> <tr> <td>0</td> <td>37</td> <td>0</td> </tr> <tr> <td>127</td> <td>37</td> <td>127</td> </tr> <tr> <td>255</td> <td>37</td> <td>255</td> </tr> </tbody> </table> | DMX Value | Tilt (DMX) | Pan (DMX) | 0 | 255 | 127 | 127 | 127 | 127 | 255 | 0 | 127 | 0 | 37 | 0 | 127 | 37 | 127 | 255 | 37 | 255 |
| DMX Value | Tilt (DMX) | Pan (DMX) | | | | | | | | | | | | | | | | | | | | |
| 0 | 255 | 127 | | | | | | | | | | | | | | | | | | | | |
| 127 | 127 | 127 | | | | | | | | | | | | | | | | | | | | |
| 255 | 0 | 127 | | | | | | | | | | | | | | | | | | | | |
| 0 | 37 | 0 | | | | | | | | | | | | | | | | | | | | |
| 127 | 37 | 127 | | | | | | | | | | | | | | | | | | | | |
| 255 | 37 | 255 | | | | | | | | | | | | | | | | | | | | |

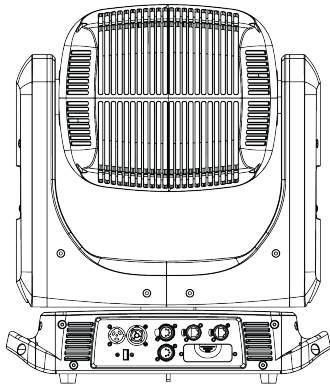
ETC Reference Guide

Halcyon Gold DMX Channel Map

Framing blades are arranged according to the graphic below.
 For full-curtain framing, set blades 2A and 2B (channels 21 and 22) at or near 100%.



7



Pan: DMX 127
 Tilt: DMX 37

| | |
|----|---|
| 8 | Control channel functions with no hold time requirement must apply upon receipt. |
| 9 | Upon loss of power, the fixture does not retain the disable pan/tilt motors setting. |
| 10 | RDM Manufacturer ID: 0x4c52 |
| 11 | RDM Device IDs <ul style="list-style-type: none"> • Halcyon Gold Ultra-Bright: 0x2F03 • Halcyon Gold High CRI: 0x2F04 |

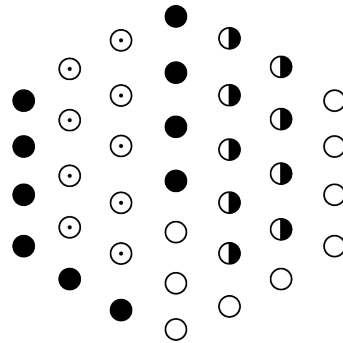
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Halcyon Gold DMX Channel Map

Halcyon Gold LED Macros

All macros are defined from left to right assuming the fixture is sitting on a table with the pan lock facing you.

| LED | Symbol |
|------|--------|
| LED1 | |
| LED2 | |
| LED3 | |
| LED4 | |



| Macro 1: L to R | | | | |
|-----------------|------|------|------|------|
| Step | LED1 | LED2 | LED3 | LED4 |
| 1 | 0 | 0 | 255 | 0 |
| 2 | 0 | 0 | 0 | 255 |
| 3 | 255 | 0 | 0 | 0 |
| 4 | 0 | 255 | 0 | 0 |

| Macro 2: R to L | | | | |
|-----------------|------|------|------|------|
| Step | LED1 | LED2 | LED3 | LED4 |
| 1 | 0 | 255 | 0 | 0 |
| 2 | 255 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 255 |
| 4 | 0 | 0 | 255 | 0 |

| Macro 3: Alternate | | | | |
|--------------------|------|------|------|------|
| Step | LED1 | LED2 | LED3 | LED4 |
| 1 | 255 | 255 | 0 | 0 |
| 2 | 0 | 0 | 255 | 255 |

| Macro 4: In | | | | |
|-------------|------|------|------|------|
| Step | LED1 | LED2 | LED3 | LED4 |
| 1 | 255 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 255 |

| Macro 5: Out | | | | |
|--------------|------|------|------|------|
| Step | LED1 | LED2 | LED3 | LED4 |
| 1 | 0 | 255 | 0 | 0 |
| 2 | 0 | 0 | 255 | 0 |

ETC Reference Guide

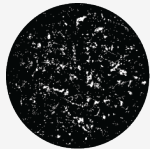
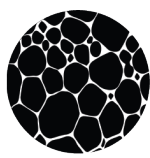




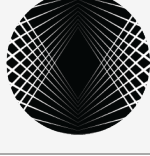

Halcyon Gold DMX Channel Map

Halcyon Gold Gobos

Rotating Gobo Wheel 1

| Position | Name | Image |
|----------|--------------|---|
| 0 | Open | N/A |
| 1 | Wiggle Lines |  |
| 2 | Mycelium |  |
| 3 | Bob's Brush |  |
| 4 | The Claw |  |
| 5 | Cut Cone |  |
| 6 | Split-S |  |
| 7 | Ice |  |

Fixed Gobo Wheel 2

| Position | Name | Image |
|----------|--------------------|---|
| 0 | Open | N/A |
| 1 | Texture Drops |  |
| 2 | Lovely Bubbly |  |
| 3 | Art Ducko |  |
| 4 | Window Matrix |  |
| 5 | Swirly Gig |  |
| 6 | Fenced In |  |
| 7 | The Only Way Is Up |  |
| 8 | Repeater |  |

ETC Reference Guide

Halcyon Gold DMX Channel Map

Revision History

| Revision | Change | Release Date |
|----------|---|---------------|
| D | Added note 9. | August 2023 |
| C | Corrected Controller Default values for Pan (channels 1 and 2) and Tilt (channels 3 and 4). Added mSpeed Control to Color Mode (channel 5), Color Wheel Mode (channel 10), Rotating Gobo Wheel 1 Mode (channel 12), and Fixed Gobo Wheel 2 Mode (channel 17). Added fast modes to Color Mode (channel 5). Updated the Controller Default value for Color Wheel Mode (channel 10). Updated the Decimal Low and Decimal High values for mSpeed (channel 55). Added Pan and Tilt mSpeed Off to Control (channel 56), and identified the hold time requirements for the Control channel functions. Added notes 2 and 8 to the Notes section. Added Pure Mix to the list of modes in note 1. Split the Indexed Mode and Scan Mode into two sections in Rotating Gobo Wheel 1 (channel 13) and Fixed Gobo Wheel 2 (channel 18). | June 2023 |
| B | Expanded the Animation Insertion Function to include "Animation Out" and "Gradual Insertion." Updated the Auto Focus channels with 16-bit function data. Corrected the Decimal High, Hex High , and Controller Default values for the Focus and Zoom channels. | May 2023 |
| A | Initial release. | November 2022 |