

# MOVO BEAM Z100

UNLIMITED ROTATION BEAM MOVING HEAD  
WITH LED RING AND ZOOM  
DMX CONTROL TABLE



| 5 CH Mode                |   |   |                |
|--------------------------|---|---|----------------|
| Ch.                      | Function                                  | Values                                    | Sub-Group      |
| 1                        | Dimmer                                    | 000 - 255 0% to 100%                      | Dimmer         |
| 2                        | Strobe                                    | 000 - 005 Strobe open                     | Strobe         |
|                          |   | 006 - 255 Strobe slow -> fast <1Hz - 20Hz |                |
| 3                        | Zoom                                      | 000 - 255 0% to 100%                      | Zoom           |
| 4                        | Auto Program                              | 000 - 005 off                             | Auto Program   |
|                          |   | 006 - 036 Auto Program 1                  |                |
|                          |   | 037 - 067 Auto Program 2                  |                |
|                          |   | 068 - 098 Auto Program 3                  |                |
|                          |   | 099 - 129 Auto Program 4                  |                |
|                          |   | 130 - 160 Auto Program 5                  |                |
|                          |   | 161 - 191 Auto Program 6                  |                |
|                          |   | 192 - 222 Auto Program 7                  |                |
| 223 - 255 Auto Program 8 |   |   |                |
| 5                        | Pan/Tilt Speed (Set Speed Auto Programms) | 000 - 255 Pan/Tilt Fast -> Slow           | Pan/Tilt speed |

| 16 CH Mode            |                       |  |                        |
|-----------------------|-----------------------|--|------------------------|
| Ch.                   | Function              | Values   | Sub-Group              |
| 1                     | Pan                   | 000 - 255 0% to 100%   | Pan                    |
| 2                     | Pan fine              | 000 - 255 0% to 100%   |                        |
| 3                     | Endless Pan rotation  | 000 - 005 no function  | Endless Pan            |
|                       |                       | 006 - 126 clockwise pan rotation (fast to slow)                    |                        |
|                       |                       | 127 - 128 no movement  |                        |
|                       |                       | 129 - 255 counter clockwise pan rotation (slow to fast)            |                        |
| 4                     | Tilt                  | 000 - 255 0% to 100%   | Tilt                   |
| 5                     | Tilt fine             | 000 - 255 0% to 100%   |                        |
| 6                     | Endless Tilt rotation | 000 - 005 no function  | Endless Tilt           |
|                       |                       | 006 - 126 clockwise tilt rotation (fast to slow)                   |                        |
|                       |                       | 127 - 128 no movement  |                        |
|                       |                       | 129 - 255 counter clockwise tilt rotation (slow to fast)           |                        |
| 7                     | Dimmer                | 000 - 255 0% to 100%   | Dimmer                 |
| 8                     | Strobe functions      | 000 - 005 Strobe open  | multifunctional strobe |
|                       |                       | 006 - 010 Strobe closed  |                        |
|                       |                       | 011 - 033 Puls Random, slow -> fast                                |                        |
|                       |                       | 034 - 056 Ramp up Random, slow -> fast                             |                        |
|                       |                       | 057 - 079 Ramp down Random, slow -> fast                           |                        |
|                       |                       | 080 - 102 Random Strobe Effect, slow -> fast                       |                        |
|                       |                       | 103 - 127 Strobe Break Effekt, 5s. ....1s (Short burst with break) |                        |
|                       |                       | 128 - 250 Strobe slow -> fast <1Hz - 20Hz                          |                        |
| 251 - 255 Strobe open |                       |  |                        |
| 9                     | Red                   | 000 - 255 0% to 100%   | Red                    |
| 10                    | Green                 | 000 - 255 0% to 100%   | Green                  |

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|  |                         |   |                         |
|--|-------------------------|---|-------------------------|
| 11   | Blue                    | 000 - 255 0% to 100%                            | Blue                    |
| 12   | White                   | 000 - 255 0% to 100%                            | White                   |
| 13   | Zoom                    | 000 - 255 0% to 100%                            | Zoom                    |
| 14   | Device settings         | 000 - 005 no function                           | Device settings         |
|  |                         | 006 - 032 Blackout while Moving on (Hold 3s)    |                         |
|  |                         | 033 - 059 Blackout while Moving off (Hold 5s)   |                         |
|  |                         | 060 - 086 Invert Pan on (Hold 3s)               |                         |
|  |                         | 087 - 113 Invert Pan off (Hold 5s)              |                         |
|  |                         | 114 - 140 Invert Tilt on (Hold 3s)              |                         |
|  |                         | 141 - 167 Invert Tilt off (Hold 5s)             |                         |
|  |                         | 168 - 194 Silent Fan on (Hold 3s)               |                         |
|  |                         | 195 - 221 Silent Fan off (Hold 5s)              |                         |
| 222 - 255 Reset All Functions (Hold 3s)    |                         |   |                         |
| 15   | Colour Ring Macro       | 000 - 005 Colour off                            | Colour Ring Macro       |
|  |                         | 006 - 013 Colour Macro 1 (Colour Jump)          |                         |
|  |                         | 014 - 021 Colour Macro 2 (Red 1 Step)           |                         |
|  |                         | 022 - 029 Colour Macro 3 (Green 1 Step)         |                         |
|  |                         | 030 - 037 Colour Macro 4 (Blue 1 Step)          |                         |
|  |                         | 038 - 045 Colour Macro 5 (Yellow 1 Step)        |                         |
|  |                         | 046 - 053 Colour Macro 6 (Cyan 1 Step)          |                         |
|  |                         | 054 - 061 Colour Macro 7 (Magenta 1 Step)       |                         |
|  |                         | 062 - 069 Colour Macro 8 (2step Magenta Yellow) |                         |
|  |                         | 070 - 077 Colour Macro 9 (2step Red Green)      |                         |
|  |                         | 078 - 085 Colour Macro 10 (2step Red Blue)      |                         |
|  |                         | 086 - 093 Colour Macro 11 (2step Blue Yellow)   |                         |
|  |                         | 094 - 101 Colour Macro 12 (2step Green Blue)    |                         |
|  |                         | 102 - 109 Colour Macro 13 (2step Magenta Blue)  |                         |
|  |                         | 110 - 117 Colour Macro 14 (2step Green Yellow)  |                         |
|  |                         | 118 - 125 Colour Macro 15 (2step Cyan Magenta)  |                         |
| 126 - 133 Colour Macro 16 (2step Cyan Red) |                         |   |                         |
| 16   | Colour Ring Macro Speed | 000 - 255 slow > fast                           | Colour Ring Macro Speed |

| 21 CH Mode |                      |        |   |     |   |             |
|------------|----------------------|--------|---|-----|---|-------------|
| Ch.        | Function             | Values |   |     | Sub-Group                                     |             |
| 1          | Pan                  | 000    | - | 255 | 0% to 100%                                    | Pan         |
| 2          | Pan fine             | 000    | - | 255 | 0% to 100%                                    |             |
| 3          | Endless Pan rotation | 000    | - | 005 | no function                                   | Endless Pan |
|            |                      | 006    | - | 126 | clockwise pan rotation (fast to slow)         |             |
|            |                      | 127    | - | 128 | no movement                                   |             |
|            |                      | 129    | - | 255 | counter clockwise pan rotation (slow to fast) |             |
| 4          | Tilt                 | 000    | - | 255 | 0% to 100%                                    | Tilt        |
| 5          | Tilt fine            | 000    | - | 255 | 0% to 100%                                    |             |

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|     |                       |     |                               |     |   |                        |
|-----|-----------------------|-----|-------------------------------|-----|---|------------------------|
| 6   | Endless Tilt rotation | 000 | -                             | 005 | no function   | Endless Tilt           |
|     |                       | 006 | -                             | 126 | clockwise tilt rotation (fast to slow)                  |                        |
|     |                       | 127 | -                             | 128 | no movement   |                        |
|     |                       | 129 | -                             | 255 | counter clockwise tilt rotation (slow to fast)          |                        |
| 7   | Dimmer                | 000 | -                             | 255 | 0% to 100%  | Dimmer                 |
| 8   | Strobe Functions      | 000 | -                             | 005 | Strobe open   | Multifunctional Strobe |
|     |                       | 006 | -                             | 010 | Strobe closed   |                        |
|     |                       | 011 | -                             | 033 | Pulse Random, slow -> fast                              |                        |
|     |                       | 034 | -                             | 056 | Ramp up Random, slow -> fast                            |                        |
|     |                       | 057 | -                             | 079 | Ramp down Random, slow -> fast                          |                        |
|     |                       | 080 | -                             | 102 | Random Strobe Effect, slow -> fast                      |                        |
|     |                       | 103 | -                             | 127 | Strobe Break Effect, 5s.....1s (Short burst with break) |                        |
|     |                       | 128 | -                             | 250 | Strobe slow -> fast <1Hz - 20Hz                         |                        |
| 251 | -                     | 255 | Strobe open                   |     |   |                        |
| 9   | Red                   | 000 | -                             | 255 | 0% to 100%  | Red                    |
| 10  | Green                 | 000 | -                             | 255 | 0% to 100%  | Green                  |
| 11  | Blue                  | 000 | -                             | 255 | 0% to 100%  | Blue                   |
| 12  | White                 | 000 | -                             | 255 | 0% to 100%  | White                  |
| 13  | Zoom                  | 000 | -                             | 255 | 0% to 100%  | Zoom                   |
| 14  | Device settings       | 000 | -                             | 005 | no function   | Device settings        |
|     |                       | 006 | -                             | 032 | Blackout while Moving on (Hold 3s)                      |                        |
|     |                       | 033 | -                             | 059 | Blackout while Moving off (Hold 5s)                     |                        |
|     |                       | 060 | -                             | 086 | Invert Pan on (Hold 3s)                                 |                        |
|     |                       | 087 | -                             | 113 | Invert Pan off (Hold 5s)                                |                        |
|     |                       | 114 | -                             | 140 | Invert Tilt on (Hold 3s)                                |                        |
|     |                       | 141 | -                             | 167 | Invert Tilt off (Hold 5s)                               |                        |
|     |                       | 168 | -                             | 194 | Silent Fan on (Hold 3s)                                 |                        |
|     |                       | 195 | -                             | 221 | Silent Fan off (Hold 5s)                                |                        |
| 222 | -                     | 255 | Reset All Functions (Hold 3s) |     |   |                        |
| 15  | Dimmer Colour Ring    | 000 | -                             | 255 | 0% to 100%  | Dimmer                 |
| 16  | Strobe Colour Ring    | 000 | -                             | 005 | Strobe open   | Strobe                 |
|     |                       | 006 | -                             | 255 | Strobe slow -> fast <1Hz - 20Hz                         |                        |
| 17  | Colour Red            | 000 | -                             | 255 | 0% to 100%  | Colour Ring            |
| 18  | Colour Green          | 000 | -                             | 255 | 0% to 100%  |                        |
| 19  | Colour Blue           | 000 | -                             | 255 | 0% to 100%  |                        |

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|    |                         |     |   |     |                                       |                         |
|----|-------------------------|-----|---|-----|---------------------------------------|-------------------------|
| 20 | Colour Ring Macro       | 000 | - | 005 | Colour off                            | Colour Ring Macro       |
|    |                         | 006 | - | 013 | Colour Macro 1 (Colour Jump)          |                         |
|    |                         | 014 | - | 021 | Colour Macro 2 (Red 1 Step)           |                         |
|    |                         | 022 | - | 029 | Colour Macro 3 (Green 1 Step)         |                         |
|    |                         | 030 | - | 037 | Colour Macro 4 (Blue 1 Step)          |                         |
|    |                         | 038 | - | 045 | Colour Macro 5 (Yellow 1 Step)        |                         |
|    |                         | 046 | - | 053 | Colour Macro 6 (Cyan 1 Step)          |                         |
|    |                         | 054 | - | 061 | Colour Macro 7 (Magenta 1 Step)       |                         |
|    |                         | 062 | - | 069 | Colour Macro 8 (2step Magenta Yellow) |                         |
|    |                         | 070 | - | 077 | Colour Macro 9 (2step Red Green)      |                         |
|    |                         | 078 | - | 085 | Colour Macro 10 (2step Red Blue)      |                         |
|    |                         | 086 | - | 093 | Colour Macro 11 (2step Blue Yellow)   |                         |
|    |                         | 094 | - | 101 | Colour Macro 12 (2step Green Blue)    |                         |
|    |                         | 102 | - | 109 | Colour Macro 13 (2step Magenta Blue)  |                         |
|    |                         | 110 | - | 117 | Colour Macro 14 (2step Green Yellow)  |                         |
|    |                         | 118 | - | 125 | Colour Macro 15 (2step Cyan Magenta)  |                         |
|    |                         | 126 | - | 133 | Colour Macro 16 (2step Cyan Red)      |                         |
| 21 | Colour Ring Macro Speed | 000 | - | 255 | slow > fast                           | Colour Ring Macro Speed |

| 36 CH Mode            |                       |   |  |  |                        |  |
|-----------------------|-----------------------|---|--|--|------------------------|--|
| Ch.                   | Function              | Values  |  |  | Sub-Group              |  |
| 1                     | Pan                   | 000 - 255 0% to 100%  |  |  | Pan                    |  |
| 2                     | Pan fine              | 000 - 255 0% to 100%  |  |  |                        |  |
| 3                     | Endless Pan rotation  | 000 - 005 no function   |  |  | Endless Pan            |  |
|                       |                       | 006 - 126 clockwise pan rotation (fast to slow)                   |  |  |                        |  |
|                       |                       | 127 - 128 no movement   |  |  |                        |  |
|                       |                       | 129 - 255 counter clockwise pan rotation (slow to fast)           |  |  |                        |  |
| 4                     | Tilt                  | 000 - 255 0% to 100%  |  |  | Tilt                   |  |
| 5                     | Tilt fine             | 000 - 255 0% to 100%  |  |  |                        |  |
| 6                     | Endless Tilt rotation | 000 - 005 no function   |  |  | Endless Tilt           |  |
|                       |                       | 006 - 126 clockwise tilt rotation (fast to slow)                  |  |  |                        |  |
|                       |                       | 127 - 128 no movement   |  |  |                        |  |
|                       |                       | 129 - 255 counter clockwise tilt rotation (slow to fast)          |  |  |                        |  |
| 7                     | Dimmer                | 000 - 255 0% to 100%  |  |  | Dimmer                 |  |
| 8                     | Dimmer fine           | 000 - 255 0% to 100%  |  |  |                        |  |
| 9                     | Strobe functions      | 000 - 005 Strobe open   |  |  | multifunctional strobe |  |
|                       |                       | 006 - 010 Strobe closed   |  |  |                        |  |
|                       |                       | 011 - 033 Puls Random, slow -> fast                               |  |  |                        |  |
|                       |                       | 034 - 056 Ramp up Random, slow -> fast                            |  |  |                        |  |
|                       |                       | 057 - 079 Ramp down Random, slow -> fast                          |  |  |                        |  |
|                       |                       | 080 - 102 Random Strobe Effect, slow -> fast                      |  |  |                        |  |
|                       |                       | 103 - 127 Strobe Break Effekt, 5s.....1s (Short burst with break) |  |  |                        |  |
|                       |                       | 128 - 250 Strobe slow -> fast <1Hz - 20Hz                         |  |  |                        |  |
| 251 - 255 Strobe open |                       |   |  |  |                        |  |

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|  |                                 |   |               |
|--|---------------------------------|---|---------------|
| 10   | Red                             | 000 - 255 0% to 100%                        | Red           |
| 11   | Green                           | 000 - 255 0% to 100%                        | Green         |
| 12   | Blue                            | 000 - 255 0% to 100%                        | Blue          |
| 13   | White                           | 000 - 255 0% to 100%                        | White         |
| 14   | Colour Macro<br>(override RGBW) | 000 - 005 Colour off                        | Colour Macro  |
|  |                                 | 006 - 013 Red                               |               |
|  |                                 | 014 - 021 Amber                             |               |
|  |                                 | 022 - 029 Yellow warm                       |               |
|  |                                 | 030 - 037 Yellow                            |               |
|  |                                 | 038 - 045 Green                             |               |
|  |                                 | 046 - 053 Turquoise                         |               |
|  |                                 | 054 - 061 Cyan                              |               |
|  |                                 | 062 - 069 Blue                              |               |
|  |                                 | 070 - 077 Lavender                          |               |
|  |                                 | 078 - 085 Mauve                             |               |
|  |                                 | 086 - 093 Magenta                           |               |
|  |                                 | 094 - 101 Pink                              |               |
|  |                                 | 102 - 109 Warm White                        |               |
|  |                                 | 110 - 117 White                             |               |
| 118 - 125 Cold White   |                                 |   |               |
| 126 - 127 Colour Jumping Stop                                |                                 |   |               |
| 128 - 191 Colour Jumping Speed slow -> fast / Colour 1 -> 12 |                                 |   |               |
| 192 - 255 Colour Fading Speed slow -> fast / Colour 1 -> 12  |                                 |   |               |
| 15   | Zoom                            | 000 - 255 0% to 100%                        | Zoom          |
| 16   | Auto Program                    | 000 - 005 off                               | Auto Program  |
|  |                                 | 006 - 036 Auto Program 1                    |               |
|  |                                 | 037 - 067 Auto Program 2                    |               |
|  |                                 | 068 - 098 Auto Program 3                    |               |
|  |                                 | 099 - 129 Auto Program 4                    |               |
|  |                                 | 130 - 160 Auto Program 5                    |               |
|  |                                 | 161 - 191 Auto Program 6                    |               |
|  |                                 | 192 - 222 Auto Program 7                    |               |
|  |                                 | 223 - 255 Auto Program 8                    |               |
| 17   | Pan/Tilt Macro                  | 000 - 005 off                               | Auto Movement |
|  |                                 | 006 - 040 PAN „small > big“                 |               |
|  |                                 | 041 - 075 TILT „small > big“                |               |
|  |                                 | 076 - 110 PAN / TILT „small > big“          |               |
|  |                                 | 111 - 145 PAN / TILT (invers) „small > big“ |               |
|  |                                 | 146 - 180 Circle „small > big“              |               |
|  |                                 | 181 - 215 Circle (invers) „small > big“     |               |
| 216 - 255 Random „small > big“                               |                                 |   |               |

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|   |   |   |                  |
|---|---|---|------------------|
| 18                                      | Set dimmer curve  | 000 - 005 no function                         | Set dimmer curve |
|   |   | 006 - 063 Linear Dimmer Curve                 |                  |
|   |   | 064 - 127 Exponential Dimmer Curve            |                  |
|   |   | 128 - 191 Logarithmic Dimmer Curve            |                  |
|   |   | 192 - 255 S-Curve Dimmer Curve                |                  |
| 19                                      | Pan/Tilt Speed (Set Speed of Pan&Tilt / Auto Programms / Pan&Tilt Macros) | 000 - 255 Pan/Tilt Fast -> Slow               | Pan/Tilt speed   |
| 20                                      | Device settings   | 000 - 005 no function                         | Device settings  |
|   |   | 006 - 032 Blackout while Moving on (Hold 3s)  |                  |
|   |   | 033 - 059 Blackout while Moving off (Hold 5s) |                  |
|   |   | 060 - 086 Invert Pan on (Hold 3s)             |                  |
|   |   | 087 - 113 Invert Pan off (Hold 5s)            |                  |
|   |   | 114 - 140 Invert Tilt on (Hold 3s)            |                  |
|   |   | 141 - 167 Invert Tilt off (Hold 5s)           |                  |
|   |   | 168 - 194 Silent Fan on (Hold 3s)             |                  |
|   |   | 195 - 221 Silent Fan off (Hold 5s)            |                  |
| 222 - 255 Reset All Functions (Hold 3s) |   |   |                  |
| 21                                      | Dimmer Colour Ring  | 000 - 255 0% to 100%                          | Dimmer           |
| 22                                      | Strobe Colour Ring  | 000 - 005 Strobe open                         | Strobe           |
|   |   | 006 - 255 Strobe slow -> fast <1Hz - 20Hz     |                  |
| 23                                      | Red1  | 000 - 255 0% to 100%                          | Colour Ring      |
| 24                                      | Green1  | 000 - 255 0% to 100%                          |                  |
| 25                                      | Blue1   | 000 - 255 0% to 100%                          |                  |
| 26                                      | Red2  | 000 - 255 0% to 100%                          |                  |
| 27                                      | Green2  | 000 - 255 0% to 100%                          |                  |
| 28                                      | Blue2   | 000 - 255 0% to 100%                          |                  |
| 29                                      | Red3  | 000 - 255 0% to 100%                          |                  |
| 30                                      | Green3  | 000 - 255 0% to 100%                          |                  |
| 31                                      | Blue3   | 000 - 255 0% to 100%                          |                  |
| 32                                      | Red4  | 000 - 255 0% to 100%                          |                  |
| 33                                      | Green4  | 000 - 255 0% to 100%                          |                  |
| 34                                      | Blue4   | 000 - 255 0% to 100%                          |                  |

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|  |                                     |   |                            |
|--|-------------------------------------|---|----------------------------|
| 35   | Colour Ring Macro<br>(override RGB) | 000 - 005 Colour off                            | Colour Ring Macro          |
|  |                                     | 006 - 013 Colour Macro 1 (Colour Jump)          |                            |
|  |                                     | 014 - 021 Colour Macro 2 (Red 1 Step)           |                            |
|  |                                     | 022 - 029 Colour Macro 3 (Green 1 Step)         |                            |
|  |                                     | 030 - 037 Colour Macro 4 (Blue 1 Step)          |                            |
|  |                                     | 038 - 045 Colour Macro 5 (Yellow 1 Step)        |                            |
|  |                                     | 046 - 053 Colour Macro 6 (Cyan 1 Step)          |                            |
|  |                                     | 054 - 061 Colour Macro 7 (Magenta 1 Step)       |                            |
|  |                                     | 062 - 069 Colour Macro 8 (2step Magenta Yellow) |                            |
|  |                                     | 070 - 077 Colour Macro 9 (2step Red Green)      |                            |
|  |                                     | 078 - 085 Colour Macro 10 (2step Red Blue)      |                            |
|  |                                     | 086 - 093 Colour Macro 11 (2step Blue Yellow)   |                            |
|  |                                     | 094 - 101 Colour Macro 12 (2step Green Blue)    |                            |
|  |                                     | 102 - 109 Colour Macro 13 (2step Magenta Blue)  |                            |
|  |                                     | 110 - 117 Colour Macro 14 (2step Green Yellow)  |                            |
|  |                                     | 118 - 125 Colour Macro 15 (2step Cyan Magenta)  |                            |
| 126 - 133 Colour Macro 16 (2step Cyan Red) |                                     |   |                            |
| 36   | Colour Ring Macro Speed             | 000 - 255 slow > fast                           | Colour Ring Macro<br>Speed |