

BORA (from Software V201)

DMX channel's functions and their values (52DMX channels):

| Mode/Channel | | | Value | Function |
|--------------|----------------------------|---------|-------------|--|
| St | Ba | Ex | | |
| 1 | 1 | 1 | | PAN Movement 8bit : |
| | | | 0-255 | Pan Movement |
| 2 | | 2 | | Pan Fine 16bit |
| | | | 0-255 | Fine control of Pan movement |
| 3 | 2 | 3 | | TILT Movement 8bit : |
| | | | 0-255 | Tilt Movement |
| 4 | | 4 | | Tilt Fine 16bit |
| | | | 0-255 | Fine control of Tilt movement |
| 5 | 3 | 5 | | Speed Pan/Tilt movement: |
| | | | 0-225 | max to min speed |
| | | | 226-235 | blackout by movement |
| | | | 236-245 | blackout by all wheel changing |
| | | 246-255 | no function | |
| 6 | 4 | 6 | | Shutter, strobe: |
| | | | 0-10 | Shutter closed |
| | | | 11-20 | No function (shutter open) |
| | | | 21-117 | Strobe effect slow to fast |
| | | | 118-126 | No function (shutter open) |
| | | | 127-180 | Pulse-effect in sequences |
| | | | 181-191 | No function (shutter open) |
| | | | 192-245 | Random strobe effect slow to fast |
| 246-255 | No function (shutter open) | | | |
| 7 | 5 | 7 | | Dimmer intensity: |
| | | | 0-255 | Intensity 0 to 100% |
| | | 8 | | Fine Dimmer intensity: |
| | | | 0-255 | Dimmer intensity fine |
| 8 | 6 | 9 | | Reserved |
| 9 | 7 | 10 | | Reserved |
| 10 | 8 | 11 | | Reserved |
| 11 | 9 | 12 | | Zoom : |
| | | | 0-255 | Zoom adjustment from small to big |
| | | 13 | | Zoom Fine: |
| | | | 0-255 | Zoom adjustment Fine |
| 12 | 10 | 14 | | Focus : |
| | | | 0-255 | Continuous adjustment from near to far |
| | | 15 | | Focus Fine: |
| | | | 0-255 | Continuous adjustment Fine |

| | | | | |
|---------|---|-------|---------|---|
| 13 | 11 | 16 | | <u>Color Wheel 1:</u> |
| | | | 0-3 | Open / white |
| | | | 4-7 | Color 1 |
| | | | 8-11 | Color 2 |
| | | | 12-15 | Color 3 |
| | | | 16-19 | Color 4 |
| | | | 20-23 | Color 5 |
| | | | 24-27 | Color 6 |
| | | | 28-127 | Color indexing |
| | | | 128-189 | Forwards rainbow effect from fast to slow |
| | | | 190-193 | No rotation |
| | | | 17 | <u>Color Wheel 1 Fine :</u> |
| | | | 0-255 | Color Wheel colour change to any position Fine |
| 14 | 12 | 18 | | <u>Color Wheel 2:</u> |
| | | | 0-3 | Open / white |
| | | | 4-7 | Color 1 |
| | | | 8-11 | Color 2 |
| | | | 12-15 | Color 3 |
| | | | 16-19 | Color 4 |
| | | | 20-23 | Color 5 |
| | | | 24-27 | Color 6 |
| | | | 28-127 | Color indexing |
| | | | 128-189 | Forwards rainbow effect from fast to slow |
| | | | 190-193 | No rotation |
| | | | 19 | <u>Color Wheel 2 Fine :</u> |
| | | | 0-255 | Color Wheel colour change to any position Fine |
| 15 | 13 | 20 | | <u>Cyan Color :</u> |
| | | | 0-255 | Cyan (0-white, 255-100% Cyan) |
| | | 21 | | <u>Cyan Color Fine :</u> |
| | | 0-255 | | Cyan Fine |
| 16 | 14 | 22 | | <u>Magenta Color :</u> |
| | | | 0-255 | Magenta (0-white, 255-100% magenta) |
| | | 23 | | <u>Magenta Color Fine :</u> |
| | | 0-255 | | Magenta Fine |
| 17 | 15 | 24 | | <u>Yellow Color :</u> |
| | | | 0-255 | Yellow (0-white, 255-100% Yellow) |
| | | 25 | | <u>Yellow Color Fine :</u> |
| | | 0-255 | | Yellow Fine |
| 18 | 16 | 26 | | <u>CTO Color :</u> |
| | | | 0-255 | CTO (0-white, 255-100% CTO) |
| | | 27 | | <u>CTO Color Fine :</u> |
| | | 0-255 | | CTO Fine |
| 19 | 17 | 28 | | <u>Rotating gobos, cont. rotation 1:</u> |
| | | | 0-9 | Open |
| | | | 10-23 | Rot. gobo 1 |
| | | | 24-37 | Rot. gobo 2 |
| | | | 38-51 | Rot. gobo 3 |
| | | | 52-65 | Rot. gobo 4 |
| | | | 66-79 | Rot. gobo 5 |
| | | | 80-93 | Rot. gobo 6 |
| | | | 94-109 | Gobo 1 shake slow to fast |
| | | | 110-125 | Gobo 2 shake slow to fast |
| | | | 126-141 | Gobo 3 shake slow to fast |
| | | | 142-157 | Gobo 4 shake slow to fast |
| | | | 158-173 | Gobo 5 shake slow to fast |
| | | | 174-189 | Gobo 6 shake slow to fast |
| | | | 190-221 | Gobo wheel rotation forwards from fast to slow |
| 222-223 | No rotation | | | |
| 224-255 | Gobo wheel rotation f backwards from slow to fast | | | |

| | | | | |
|----|----|----|---------|---|
| 20 | 18 | 29 | | <u>Rotating gobo index,rotating gobo rotation 1:</u> |
| | | | 0-127 | Gobo indexing |
| | | | 128-189 | Forwards gobo rotation from fast to slow |
| | | | 190-193 | No rotation |
| | | | 194-255 | Backwards gobo rotation from slow to fast |
| | | 30 | | <u>Rotating gobo indexing Fine 1:</u> |
| | | | 0-255 | Fine indexing |
| 21 | 19 | 31 | | <u>Iris:</u> |
| | | | 0-191 | Max. diameter to Min.diameter |
| | | | 192-223 | Pulse closing fast to slow |
| | | | 224-255 | Pulse opening slow to fast |
| | | 32 | | <u>Iris Fine:</u> |
| | | | 0-255 | Iris Fine |
| 22 | 20 | 33 | | <u>Frost:</u> |
| | | | 0-255 | 0-100% |
| 23 | 21 | 34 | | <u>Blade 1A :</u> |
| | | | 0-255 | Open to Close |
| | | 35 | | <u>Blade 1A Fine :</u> |
| | | | 0-255 | Open to Close Fine |
| 24 | 22 | 36 | | <u>Blade 1B :</u> |
| | | | 0-255 | Open to Close |
| | | 37 | | <u>Blade 1B Fine :</u> |
| | | | 0-255 | Open to Close Fine |
| 25 | 23 | 38 | | <u>Blade 2A :</u> |
| | | | 0-255 | Open to Close |
| | | 39 | | <u>Blade 2A Fine :</u> |
| | | | 0-255 | Open to Close Fine |
| 26 | 24 | 40 | | <u>Blade 2B :</u> |
| | | | 0-255 | Open to Close |
| | | 41 | | <u>Blade 2B Fine :</u> |
| | | | 0-255 | Open to Close Fine |
| 27 | 25 | 42 | | <u>Blade 3A :</u> |
| | | | 0-255 | Open to Close |
| | | 43 | | <u>Blade 3A Fine :</u> |
| | | | 0-255 | Open to Close Fine |
| 28 | 26 | 44 | | <u>Blade 3B :</u> |
| | | | 0-255 | Open to Close |
| | | 45 | | <u>Blade 3B Fine :</u> |
| | | | 0-255 | Open to Close Fine |
| 29 | 27 | 46 | | <u>Blade 4A :</u> |
| | | | 0-255 | Open to Close |
| | | 47 | | <u>Blade 4A Fine :</u> |
| | | | 0-255 | Open to Close Fine |
| 30 | 28 | 48 | | <u>Blade 4B :</u> |
| | | | 0-255 | Open to Close |
| | | 49 | | <u>Blade 4B Fine :</u> |
| | | | 0-255 | Open to Close Fine |
| 31 | 29 | 50 | | <u>All Blade Rotation :</u> |
| | | | 0-255 | All Blade Rotation |
| | | 51 | | <u>All Blade Rotation Fine :</u> |
| | | | 0-255 | All Blade Rotation Fine |

| | | | | |
|---------|---|----|---------|---|
| 32 | 30 | 52 | | Control, reset, internal programs: |
| | | | 0-9 | unused |
| | | | 10-14 | Display Off |
| | | | 15-19 | Display On |
| | | | 20-24 | Display Invert Off |
| | | | 25-29 | Display Invert On |
| | | | 30-31 | Auto fan control mode |
| | | | 32-33 | Stage fan control mode |
| | | | 34-35 | Silence fan control mode |
| | | | 36-37 | Super Silence fan control mode |
| | | | 38-39 | Constant Fans Off |
| | | | 40-41 | Constant Fans On |
| | | | 42-49 | unused |
| | | | 50-54 | Square Law |
| | | | 55-59 | Linear |
| | | | 60-63 | 1.2K |
| | | | 64-67 | 2.4K |
| | | | 68-71 | 16K |
| | | | 72-74 | 25K |
| | | | 75-79 | unused |
| | | | 80-84 | All motor reset |
| | | | 85-87 | Scan motor reset |
| | | | 88-90 | Colors motor reset |
| | | | 91-93 | Gobo motor reset |
| | | | 94-96 | unused |
| | | | 97-99 | Other motor reset |
| | | | 100-119 | Internal program 1 (scene1~8 of EEPROM) |
| | | | 120-139 | Internal program 2 (scene9~16 of EEPROM) |
| | | | 140-159 | Internal program 3 (scene17~24 of EEPROM) |
| | | | 160-179 | Internal program 4 (scene25~32 of EEPROM) |
| | | | 180-199 | Internal program 5 (scene33~40 of EEPROM) |
| | | | 200-219 | Internal program 6 (scene41~48 of EEPROM) |
| 220-239 | Internal program 7 (scene49~56 of EEPROM) | | | |
| 240-255 | Internal program 8 (scene49~56 of EEPROM) | | | |