**Manual of 100W pattern moving head lamp**



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l  **Display menu description**

**Dmxsetting (address setting)**

**1. DMX address**

 This option is used to set the communication address of the DMX. There are address codes from 001 to 512 that can be selected. Press enter to enter the setting, press the up key to increase the address number. On the contrary, the down key can decrease the address number. After selecting the address, press enter to save and exit and return to the main menu.

**2. Channel mode**

This option is used to set the lamp channel mode. Press the "enter" key to enter the setting, press the "up" key or "down" key to select the channel mode. The channel mode includes "11ch mode" and "16CH mode". After selecting the channel mode, press "enter" to save and exit the main menu.

**Basic setting**

**1. Running mode**

 This option is used to set the operation mode of the lamp. Press the "enter" key to enter the setting, press the "up" key or "down" key to select the operation mode. The operation modes include "DMX (console mode)", "sound" (voice control mode), "Auto (self walking mode)" and "manual" (manual mode). After selecting the operation mode, press "enter" to save and exit the main menu.

**2. Lost signal**

 This option is used to set the selection of keeping or clearing the original data after the lamp is separated from the signal of the DMX console. Press the "enter" key to enter the setting, press the "up" key or "down" key to select, and there are "hold" and "clear". After selection, press "enter" to save and exit the main menu.

**3. Language**

 This option is used to set the display language of the lamp menu. Press the "enter" key to enter the setting, press the "up" key or "down" key to select the language. The language setting is "Ch. (Chinese)" and "en. (English)". After selection, press "enter" to save and exit the main menu.

**4. Display reverse**

 This option is used to set the reverse display of the lamp color screen. Press the "enter" key to enter the setting, press the "up" key or "down" key to select. The reverse setting is "no" and "yes". After selecting, press "enter" to save and exit the main menu.

**5. Sound sense**

 This option is to set the voice control sensitivity. Press "enter" to enter the setting; press "up" or "down" to set the voice control sensitivity, ranging from 0 to 100. After selection, press "enter" to save and exit the main menu.

**6. Pan reverse (x-axis)**

This option is to reverse the x-axis direction. Press "enter" to enter the setting, press "up" or "down" to select whether the x-axis is reversed or not. Selecting "no" means that the x-axis does not reverse, and selecting "yes" means that the x-axis is reversed. After selecting, press "enter" to save and exit the main menu.

**7. Tilt reverse (Y-axis)**

 This option is to reverse the y-axis direction. Press the "enter" key to enter the setting, press the "up" key or "down" key to select whether the X / Y axis is reversed or not. Selecting "no" means that the x-axis is not reversed, selecting "yes" means that the x-axis is reverse. After selecting, press "enter" to save and exit the main menu.

**8. Back lighting**

This option is to set the LCD backlight. Press the "enter" key to enter the setting. Press the "up" key or "down" key for LCD backlight to switch on and off. Selecting "on" means that the LCD backlight is always on and will not be turned off. Selecting "off" means that there is no key operation, it will be turned off after 60 seconds, until it is turned on again when there is a key operation.After selecting the settings, press "enter" to save and exit the main menu.

**9. Set fan**

 This option is to set the starting temperature of the fan. Press the "enter" key to enter the setting, and press the "up" or "down" key to set the starting temperature of the fan, ranging from 0 to 100. After selecting, press "enter" to save and exit the main menu.

**10. Auto test**

This option is the automatic test selection of lamps and lanterns. Press "enter" to enter the setting, press "up" or "down" to select whether to carry out automatic test operation, select "no" to indicate no automatic test, select "yes" to indicate automatic test, press "enter" to save and exit the main menu.

**11. Factory defaults**

This option is to select whether to restore the factory settings of the lamps. Press the "enter" key to enter the setting, press the "up" key or "down" key to select whether to restore the factory settings. All parameters are restored to the factory settings. Selecting "no" means not to restore the factory settings, "yes" means to restore the factory settings, and press "enter" to save and exit the main menu.

**Advanced (password: 888)**

**12. Pan offset (x-axis)**

This option is to fine tune and set the initial position of X axis. Press enter to enter the setting, press up or down to adjust the initial position. There is a value range from - 127 to 127. After confirming the initial position, press "enter" to save and exit the main menu.

**13. Tilt offset (Y-axis)**

This option is to fine tune and set the initial position of Y axis. Press enter to enter the setting, press up or down to adjust the initial position. There is a value range from - 127 to 127. After confirming the initial position, press "enter" to save and exit the main menu.

**14. Color offset**

This option is to fine tune the initial position of the color disk. Press enter to enter the setting, press up or down to adjust the initial position. There is a value range from - 127 to 127. After confirming the initial position, press enter to save and exit the main menu.

**15.S\_Gobo offset (fixed pattern disk correction)**

This option is to fine tune the initial position of the pattern disk. Press the "enter" key to enter the setting, press the "up" key or "down" key to adjust the initial position. There is a value range of - 127 to 127 to select. After confirming the initial position, press "enter" to save and exit the main menu.

**16.R\_Gobo offset**

This option is to fine tune the initial position of the rotating pattern disk. Press enter to enter the setting, press up or down to adjust the initial position. There is a value range from - 127 to 127. After confirming the initial position, press enter to save and exit to the main menu.

**17.Gobo\_R offset (pattern rotation correction)**

This option is to fine tune the initial position of the pattern rotation. Press enter to enter the setting, press up or down to adjust the initial position. There is a value range from - 127 to 127. After confirming the initial position, press enter to save and exit the main menu.

**18. Focus offset**

This option is to fine tune the initial position of the focusing motor. Press the "enter" key to enter the setting, press the "up" key or "down" key to adjust the initial position. There is a value range from - 127 to 127 to be selected. After confirming the initial position, press "enter" to save and exit the main menu.

**19. Prism offset (prism motor correction)**

This option is to fine tune the initial position of prism motor. Press the "enter" key to enter the setting, press the "up" key or "down" key to adjust the initial position. There is a value range of - 127 to 127 to select. After confirming the initial position, press "enter" to save and exit the main menu.

**20. Roll offset**

This option is to fine tune the initial position of the pattern rotation. Press enter to enter the setting, press up or down to adjust the initial position. There is a value range from - 127 to 127. After confirming the initial position, press enter to save and exit the main menu.

**21. LED power**

This option is the LED lamp bead power adjustment setting. Press the "enter" key to enter the setting, press the "up" key or "down" key to adjust the white brightness, ranging from 0 to 255. After confirming the color brightness, press "enter" to save and exit the main menu.

**Manual program**

**1. Pan (horizontal motor) (x-axis)**

This option is to program the x-axis travel. Press the "enter" key to enter the setting, press the "up" key or "down" key to adjust the travel. There is a value range of 0-255 that can be selected. After confirmation, press "enter" to save and exit the main menu.

**2. Tilt (vertical motor) (Y-axis)**

This option is to program the y-axis travel. Press "enter" to enter the setting, press "up" or "down" to adjust the travel. There is a value range of 0-255 to select. After confirmation, press "enter" to save and exit the main menu.

**3. P / t speed**

This option is to program the speed of X / Y axis motor. Press "enter" key to enter the setting, press "up" key or "down" key to adjust the stroke. There is a value range from 0 to 255 to be selected. After confirmation, press "enter" to save and exit the main menu.

**4. Dimmer (dimmer)**

This option is to program the brightness of the lamp bead. Press the "enter" key to enter the setting, press the "up" key or "down" key to adjust the stroke. There is a value range of 0-255 to be selected. After confirmation, press "enter" to save and exit the main menu.

**5. Strobe**

This option is to program the strobe of the lamp bead. Press the "enter" key to enter the setting, press the "up" key or "down" key to adjust the stroke. There is a value range of 0-255 to be selected. After confirmation, press "enter" to save and exit the main menu.

**6. Color**

This option is to program the color disk. Press "enter" to enter the setting, press "up" or "down" to adjust the stroke. There is a value range of 0-255 to select. After confirmation, press "enter" to save and exit the main menu.

**7. Static gobo**

This option is to program the fixed pattern disk. Press "enter" to enter the setting, press "up" or "down" to adjust the stroke. There is a value range of 0-255 to select. After confirmation, press "enter" to save and exit the main menu.

**8. Rotating gobo**

This option is to program the rotating pattern disk. Press "enter" to enter the setting, press "up" or "down" to adjust the stroke. There is a value range of 0-255 to select. After confirmation, press "enter" to save and exit the main menu.

**9. Gobo rotate**

This option is to program the pattern rotation. Press "enter" to enter the setting, press "up" or "down" to adjust the stroke. There is a value range of 0-255 to select. After confirmation, press "enter" to save and exit the main menu.

**10. Focus**

This option is to program the focusing. Press "enter" to enter the setting, press "up" or "down" to adjust the stroke. There is a value range of 0-255 to be selected. After confirmation, press "enter" to save and exit the main menu.

**11. Prism (PRISM)**

This option is to program the prism. Press the "enter" key to enter the setting, press the "up" key or "down" key to adjust the stroke. There is a value range of 0-255 to be selected. After confirmation, press "enter" to save and exit the main menu.

**Sys information**

**1. Ver (version)**

This option is the software version information display of the lamp.

**2. Used time**

This option is to display the accumulated service time information of lamps.

**3. Temperature**

This option is to display the accumulated service time information of lamps.

**4. Encode-x (horizontal optocoupler)**

This option is the x-axis optocoupler information display of the lamp, "err" is the error display, and "nor" is the correct display.

**5. Encode-y (vertical optocoupler)**

This option is the y-axis optocoupler information display of the lamp, "err" is the error display, and "nor" is the correct display.

**6. Sensor color**

This option is the display of hall information on the color plate of the lamp, "err" is an error display, and "nor" is a correct display.

**7. Sensor focus**

This option is the focusing hall information display of the lamp, "err" is the error display, and "nor" is the correct display.

**8. Sensor-S\_Gobo (fixed pattern Hall)**

This option is the fixed pattern hall information display of the lamp, "err" is the error display, and "nor" is the correct display.

**9. Sensor-R\_Gobo (rotating Hall)**

This option is the hall information display of the rotating pattern of the lamp, "err" is the error display, and "nor" is the correct display.

**10. RS485 (serial communication)**

This option is the serial port communication information display of the lamp, "err" is the error display, and "nor" is the correct display.

**11ch DMX512 channel table:**

|  |  |  |  |
| --- | --- | --- | --- |
| **11 channels** | **function** | **DMX value** | **describe** |
| 1 | X axis | 0-255 | Horizontal motor stroke |
| 2 | Y axis | 0-255 | Vertical motor travel |
| 3 | XY speed | 0-255 | Horizontal / vertical motor speed |
| 4 | Dimming | 0-255 | 0---100% |
| 5 | Stroboscopic | 0-15 | No function |
| 16-255 | Speed from fast to slow |
| 6 | Color plate | 0-9 | Color1 (color 1) |
| 10-19 | Color1 + color2 (color 1 + color 2) |
| 20-29 | Color2 (color 2) |
| 30-39 | Color2 + color3 (color 2 + color 3) |
| 40-49 | Color3 (color 3) |
| 50-59 | Color3 + color4 (color 3 + Color 4) |
| 60-69 | Color4 (color 4) |
| 70-79 | Color4 + color5 (color 4 + color 5) |
| 80-89 | Color5 (color 5) |
| 90-99 | Color5 + color6 (color 5 + Color 6) |
| 100-109 | Color6 (color 6) |
| 110-119 | Color6 + color7 (color 6 + color 7) |
| 120-129 | Color7 (color 7) |
| 130-139 | Color7 + color8 (color 7 + color 8) |
| 140-149 | Color8 (color 8) |
| 150-159 | Color8 + Color1 (color 8 + color 1) |
| 160-207 | Clock wise color from fast to slow |
| 208-255 | Counter clock wise color from slow to fast |
| 7 | Fixed pattern plate | 0-9 | Gobo1 (pattern 1) |
| 10-19 | Gobo2 (pattern 2) |
| 20-29 | Gobo3 (pattern 3) |
| 30-39 | Gobo4 (pattern 4) |
| 40-49 | Gobo5 (pattern 5) |
| 50-59 | Gobo6 (pattern 6) |
| 60-69 | Gobo7 (pattern 7) |
| 70-79 | Gobo8 (pattern 8) |
| 80-89 | Gobo8 shaking |
| 90-99 | Gobo7 shaking |
| 100-109 | Gobo6 shaking |
| 110-119 | Gobo5 shaking |
| 120-129 | Gobo4 shaking |
| 130-139 | Gobo3 shaking |
| 140-149 | Gobo2 shaking |
| 150-159 | Gobo1 shaking |
| 160-207 | Clockwise STATIC\_Gobo from fast to slow |
| 208-255 | CounterClockwise STATIC\_Gobo from slow to fast |
| 8 | Rotating pattern plate | 0-9 | Gobo1 (pattern 1) |
| 10-19 | Gobo2 (pattern 2) |
| 20-29 | Gobo3 (pattern 3) |
| 30-39 | Gobo4 (pattern 4) |
| 40-49 | Gobo5 (pattern 5) |
| 50-59 | Gobo6 (pattern 6) |
| 60-69 | Gobo7 (pattern 7) |
| 70-79 | Gobo7 shaking |
| 80-89 | Gobo6 shaking |
| 90-99 | Gobo5 shaking |
| 100-109 | Gobo4 shaking |
| 110-119 | Gobo3 shaking |
| 120-129 | Gobo2 shaking |
| 130-139 | Gobo1 shaking |
| 140-197 | Clockwise ROTATING\_Gobo from fast to slow |
| 198-255 | CounterClockwise ROTATING\_Gobo from slow to fast |
| 9 | Gobo Rotation  | 0-127 | Goborotate position |
| 128-191 | Clockwise GOBO\_Rate from fast to slow |
| 192-255 | CounterClockwise GOBO\_Rate from slow to fast |
| 10 | Focusing motor | 0-255 | Focus position |
| 11 | Prism motor | 0-255 | Prism position |

**16CH DMX512 channel table:**

|  |  |  |  |
| --- | --- | --- | --- |
| **16 channels** | **function** | **DMX value** | **describe** |
| 1 | X axis | 0-255 | Horizontal motor stroke |
| 2 | X-axis fine tuning | 0-255 | Pan fine [16 bit] |
| 3 | Y axis | 0-255 | Vertical motor travel |
| 4 | Y-axis fine tuning | 0-255 | Tilt fine [16 bit] |
| 5 | XY speed | 0-255 | Pan / tilt speed |
| 6 | Dimming | 0-255 | 0-100 |
| 7 | Stroboscopic | 0-15 | Open |
| 16-131 | Strobe from slow to fast |
| 132-139 | Open |
| 140-181 | Fast close slow open |
| 182-189 | Open |
| 190-231 | Slow close fast open |
| 232-239 | Open |
| 240-247 | Random strobe |
| 248-255 | Open |
| 8 | Color plate | 0-9 | Color1 (color 1) |
| 10-19 | Color1 + color2 (color 1 + color 2) |
| 20-29 | Color2 (color 2) |
| 30-39 | Color2 + color3 (color 2 + color 3) |
| 40-49 | Color3 (color 3) |
| 50-59 | Color3 + color4 (color 3 + Color 4) |
| 60-69 | Color4 (color 4) |
| 70-79 | Color4 + color5 (color 4 + color 5) |
| 80-89 | Color5 (color 5) |
| 90-99 | Color5 + color6 (color 5 + Color 6) |
| 100-109 | Color6 (color 6) |
| 110-119 | Color6 + color7 (color 6 + color 7) |
| 120-129 | Color7 (color 7) |
| 130-139 | Color7 + color8 (color 7 + color 8) |
| 140-149 | Color8 (color 8) |
| 150-159 | Color8 + Color1 (color 8 + color 1) |
| 160-207 | Clock wise color from fast to slow |
| 208-255 | Counter clock wise color from slow to fast |
| 9 | Fixed pattern plate | 0-9 | Gobo1 (pattern 1) |
| 10-19 | Gobo2 (pattern 2) |
| 20-29 | Gobo3 (pattern 3) |
| 30-39 | Gobo4 (pattern 4) |
| 40-49 | Gobo5 (pattern 5) |
| 50-59 | Gobo6 (pattern 6) |
| 60-69 | Gobo7 (pattern 7) |
| 70-79 | Gobo8 (pattern 8) |
| 80-89 | Gobo8 shaking |
| 90-99 | Gobo7 shaking |
| 100-109 | Gobo6 shaking |
| 110-119 | Gobo5 shaking |
| 120-129 | Gobo4 shaking |
| 130-139 | Gobo3 shaking |
| 140-149 | Gobo2 shaking |
| 150-159 | Gobo1 shaking |
| 160-207 | Clockwise STATIC\_Gobo from fast to slow |
| 208-255 | CounterClockwise STATIC\_Gobo from slow to fast |
| 10 | Rotating pattern plate | 0-9 | Gobo1 (pattern 1) |
| 10-19 | Gobo2 (pattern 2) |
| 20-29 | Gobo3 (pattern 3) |
| 30-39 | Gobo4 (pattern 4) |
| 40-49 | Gobo5 (pattern 5) |
| 50-59 | Gobo6 (pattern 6) |
| 60-69 | Gobo7 (pattern 7) |
| 70-79 | Gobo7 shaking |
| 80-89 | Gobo6 shaking |
| 90-99 | Gobo5 shaking |
| 100-109 | Gobo4 shaking |
| 110-119 | Gobo3 shaking |
| 120-129 | Gobo2 shaking |
| 130-139 | Gobo1 shaking |
| 140-197 | Clockwise ROTATING\_Gobo from fast to slow |
| 198-255 | CounterClockwise ROTATING\_Gobo from slow to fast |
| 11 | Gobo Rotation  | 0-127 | Goborotate position |
| 128-191 | Clockwise GOBO\_Rate from fast to slow |
| 192-255 | CounterClockwise GOBO\_Rate from slow to fast |
| 12 | Focusing motor | 0-255 | Focus position |
| 13 | Prism motor | 0-255 | Prism position |
| 14 | Horizontal and vertical motor effect | 0-15 | No effect |
| 16-35 | Macro 1 (effect 1) |
| 36-55 | Macro 2 (effect 2) |
| 56-75 | Macro 3 (effect 3) |
| 76-95 | Macro 4 (effect 4) |
| 96-115 | Macro 5 (effect 5) |
| 116-135 | Macro 6 (effect 6) |
| 136-155 | Macro 7 (effect 7) |
| 156-175 | Macro 8 (effect 8) |
| 176-195 | Macro 9 (effect 9) |
| 196-215 | Macro 10 (effect 10) |
| 216-235 | Macro 11 (effect 11) |
| 236-255 | Macro 12 (effect 12) |
| 15 | Effect speed | 0-255 | Fast to slow |
| 16 | Macro function | 0-69 | No function |
| 70-89 | Enable blackout while pan / tilt movement |
| 90-109 | Disable blackout while pan / tilt movement |
| 110-129 | Enable blackout while color change |
| 130-149 | Disable blackout while color change |
| 150-169 | Enable blackout while static gobo change |
| 170-189 | Disable blackout while static gobo change |
| 190-209 | Enable blackout while rotating gobo change |
| 210-229 | Disable blackout while rotating gobo change |
| 230-239 | System reset |
| 240-255 | Sound alone |