

## 一、 Display panel and key definition



**Menu key:** enter/return to the main menu.

**Up key:** menu function up selection/parameter increment.

**Down key:** menu function down selection/parameter decreasing.

**Enter key:** select the menu function, and confirm and save it when the menu function parameters are modified.

**Second, the menu function**

After the machine is powered on and reset, press the menu key to enter the main menu (exit after 30 seconds of no operation in the main menu interface). See the main menu menu (5 main menu options in total) for details. Press the Up or Down key to select the main menu, enter the Enter key to modify the function parameters of each menu, and then press the Enter key to save the current function parameters after modification (with power-off memory after saving).

| primary menu       | submenu              | Menu function description                                                                                                                                        |
|--------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. System Settings | 1. DMX address       | Modify the DMX address code up or down (the optional range of address code is 001-512), and press the Enter key to save. The default value is 001.               |
|                    | 2. Encoder           | Modify the encoder on/off up or down, save the confirmation key and turn it on by default.                                                                       |
|                    | 3. X inversion       | Modify the X-reversal on/off up or down, and confirm to save, which is closed by default.                                                                        |
|                    | 4. Y inversion       | Modify Y-turn on/off up or down, and confirm to save, which is closed by default.                                                                                |
|                    | 5. Advanced Settings |                                                                                                                                                                  |
| 2. Operation mode  | 1. Operation mode    | Select the running mode DMX/ Voice Control/Auto up or down, and press the Enter key to save. The default DMX is selected.                                        |
|                    | 2. Channel selection | Select channels CH22, CH23, CH25, CH36, CH78, CH92, CH97, CH99 and CH101 up or down, and confirm to save. The default is CH25.                                   |
| 3. Manual control  | 1、 X                 | Modify the operating parameter value of X motor up or down (adjustable range 000-255), and press the Enter key to save. The default value is 000.                |
|                    | 2, X fine tuning     | Modify the fine-tuning parameter value of X motor up or down (adjustable range 000-255), and press the Enter key to save. The default value is 000.              |
|                    | 3、 Y                 | Modify the operating parameter value of Y motor up or down (adjustable range: 000-255), and press the Enter key to save; the default value is 128.               |
|                    | 4, y fine-tuning     | Modify the fine-tuning parameter value of Y motor up or down (adjustable range: 000-255), and press the Enter key to save; the default value is 000.             |
|                    | 5, XY speed          | Modify the operating speed parameter value of XY motor up or down (adjustable range: 000-255), and press the Enter key to save; the default value is 000.        |
|                    | 6, focusing          | Modify the operation parameter value of the focusing motor up or down (adjustable range 000-255), and press the Enter key to save, and the default value is 000. |
|                    | 7. Turn the          | Modify the parameter value of the rotating mirror up or down (adjustable range 000-255),                                                                         |

|  |                                   |                                                                                                                                                                                                                                       |
|--|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | mirror                            | and press OK to save. The default value is 000.                                                                                                                                                                                       |
|  | 8. Dimming                        | Modify the dimming parameter value up or down (adjustable range: 000-255), and press the Enter key to save; the default value is 255.                                                                                                 |
|  | 9, stroboscopic                   | Modify the strobe parameter value up or down (adjustable range 000-255), and press the Enter key to save. The default value is 000.                                                                                                   |
|  | 10. The foreground is red         | Modify the red current value up or down (adjustable range: 000-255), and press the Enter key to save; the default value is 255.                                                                                                       |
|  | 11. The foreground is green       | Modify the green current value up or down (adjustable range: 000-255), and press the Enter key to save; the default value is 255.                                                                                                     |
|  | 12. The foreground is blue        | Modify the blue current value up or down (adjustable range: 000-255), and press the Enter key to save; the default value is 255.                                                                                                      |
|  | 13. The foreground is white       | Modify the white current value up or down (adjustable range: 000-255), and press the Enter key to save; the default value is 255.                                                                                                     |
|  | 14. Color temperature             | Modify the color temperature up or down (adjustable range 000-255), and press OK to save. The default value is 000.                                                                                                                   |
|  | 15. Dyeing                        | Modify the color dyeing value up or down (adjustable range: 000-255), and press the Enter key to save; the default value is 000.                                                                                                      |
|  | 16, desalination                  | Modify the color fade value up or down (adjustable range: 000-255), and press OK to save; the default value is 000.                                                                                                                   |
|  | 17. Translation                   | Modify the translation value up or down (adjustable range: 000-255), and press the Enter key to save; the default value is 000.                                                                                                       |
|  | 18. Patterns                      | Modify the color dyeing value up or down (adjustable range: 000-255), and press the Enter key to save; the default value is 000.                                                                                                      |
|  | 19. Moving pictures               | Modify the color animation up or down (adjustable range: 000-255), and press the Enter key to save; the default value is 000.                                                                                                         |
|  | 20. Speed                         | Modify the speed up or down (adjustable range 000-255), and press the Enter key to save. The default value is 000.                                                                                                                    |
|  | 21. The background color is red   | Modify the red current value up or down (adjustable range: 000-255), and press the Enter key to save; the default value is 000.                                                                                                       |
|  | 22. The background color is green | Modify the green current value up or down (adjustable range 000-255), and press the Enter key to save. The default value is 000.                                                                                                      |
|  | 23. The background color is blue  | Modify the blue current value up or down (adjustable range: 000-255), and press the Enter key to save; the default value is 000.                                                                                                      |
|  | 24, the background color is white | Modify the white current value up or down (adjustable range 000-255), and press the Enter key to save. The default value is 000.                                                                                                      |
|  | 25, reset                         | When the parameter value is 150-255, the whole machine is reset. The parameter value of the console must be pulled below 10 before it is pushed to 150-255. The parameter value is useless when it is 000-149, so it cannot be reset. |

|                     |                                                                                                                                 |                                                                                                                                |                                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 4. Display settings | 1. Language choice                                                                                                              | Select Chinese /EN (English) up or down, and press the Enter key to save. The default is Chinese.                              |                                                                                                                         |
|                     | 2. Inverted display settings                                                                                                    | Select up or down to turn off/on the reverse display setting, and press the Enter key to save, which is turned off by default. |                                                                                                                         |
|                     | 3. screen saver settings,                                                                                                       | Select the close/open screen saver setting up or down, and confirm to save it, which is turned on by default.                  |                                                                                                                         |
|                     | 4. Software version                                                                                                             | 06MC                                                                                                                           |                                                                                                                         |
| 5. Information      | Encryption settings                                                                                                             | close                                                                                                                          |                                                                                                                         |
|                     | time                                                                                                                            | 9999:00                                                                                                                        |                                                                                                                         |
|                     | HALL                                                                                                                            | 0000110                                                                                                                        |                                                                                                                         |
| 6. Factory Settings | Please enter the password for display! Change it to 138 up or down, and then press the Enter key to enter the factory settings. | 1. X axis calibration                                                                                                          | Modify the parameter up or down (range 000-255), and confirm to save it. The default value is 128.                      |
|                     |                                                                                                                                 | 2, Y axis calibration                                                                                                          | Modify the parameter up or down (range 000-255), and confirm to save it. The default value is 128.                      |
|                     |                                                                                                                                 | 3, focusing calibration                                                                                                        | Modify the parameter up or down (range 000-255), and confirm to save it. The default value is 128.                      |
|                     |                                                                                                                                 | 4, focusing stroke                                                                                                             | Modify the parameter up or down (range 000-255), and press the Enter key to save. The default value is 128.             |
|                     |                                                                                                                                 | 5, rotary calibration                                                                                                          | Modify the parameter up or down (range 000-255), and confirm to save it. The default value is 128.                      |
|                     |                                                                                                                                 | 6. Red                                                                                                                         | Modify the red light bulb current (032-255) up or down, and press the Enter key to save. The default value is 252.      |
|                     |                                                                                                                                 | 7. Green                                                                                                                       | Modify the green light bulb current up or down (032-255), and press the Enter key to save. The default value is 252.    |
|                     |                                                                                                                                 | 8. Blue                                                                                                                        | Modify the blue light bulb current up or down (032-255), and press the Enter key to save. The default value is 252.     |
|                     |                                                                                                                                 | 9. White                                                                                                                       | Modify the white light bulb current up or down (032-255), and press the Enter key to save. The default value is 252.    |
|                     |                                                                                                                                 | 10. Current                                                                                                                    | Select 000 /007 up or down, and confirm to save. The default value is 004.                                              |
|                     |                                                                                                                                 | 11. Speed                                                                                                                      | Modify the speed parameter (range 001-007) up or down, and press OK to save. The default value is 000.                  |
|                     |                                                                                                                                 | 12、 Logo                                                                                                                       | Select 000 /001 up or down, and confirm to save. The default value is 000.                                              |
|                     |                                                                                                                                 | 13. Temperature                                                                                                                | Modify the temperature parameter (range 045-075) up or down, and confirm to save it. The default value is 065.          |
|                     |                                                                                                                                 | 14. Temperature-Fan                                                                                                            | Select up or down to turn off/on the fan control, and press the Enter key to save, which will be turned off by default. |
|                     |                                                                                                                                 | 15、 LED                                                                                                                        | LED-A/LED-B                                                                                                             |

## Third, master-slave control

There are two or more identical lamps connected by DMX three-core signal lines, all lamps are modified to any address code of 001~512, and any one is set as the master, while other lamps are slaves, and all slave displays do not flicker; When the master adjusts the effects of gradual change, pulse change, jump, voice control and self-walking, all slaves synchronize the effects of gradual

change, pulse change, jump, voice control and self-walking.

**Special attention:** 1. Only one host can be set for a group of lamps. If there are multiple hosts, all lamps will flash without synchronization.

2. All lamps and lanterns must be used when the DMX512 console is closed.

## Fourth, DMX512 control

Address codes of all lamps and lanterns are set, and all lamps and lanterns are connected to the DMX512 console in parallel with DMX three-core signal lines. The address code stops flashing, indicating that the DMX512 console signal has been sent to the lamps and lanterns. According to the channel description, the DMX512 console is used to control related functions.

### CH22 channel description:

| pass age | Channel value | fundamental function                                                                                                                                                                                                                           |
|----------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| one      | 000-255       | red                                                                                                                                                                                                                                            |
| 2        | 000-255       | Red fine tuning                                                                                                                                                                                                                                |
| three    | 000-255       | green                                                                                                                                                                                                                                          |
| four     | 000-255       | Green fine tuning                                                                                                                                                                                                                              |
| five     | 000-255       | blue                                                                                                                                                                                                                                           |
| six      | 000-255       | Blue fine tuning                                                                                                                                                                                                                               |
| seven    | 000-255       | white                                                                                                                                                                                                                                          |
| eight    | 000-255       | White fine tuning                                                                                                                                                                                                                              |
| nine     | 000-255       | Linear color temperature                                                                                                                                                                                                                       |
| 10       | 000-255       | Macro function                                                                                                                                                                                                                                 |
| 11       | 000-255       | stroboscopic                                                                                                                                                                                                                                   |
| 12       | 000-255       | Total dimming                                                                                                                                                                                                                                  |
| 13       | 000-255       | Dimming and fine tuning                                                                                                                                                                                                                        |
| 14       | 000-255       | level                                                                                                                                                                                                                                          |
| 15       | 000-255       | Horizontal fine adjustment                                                                                                                                                                                                                     |
| 16       | 000-255       | perpendicular/vertical                                                                                                                                                                                                                         |
| 17       | 000-255       | Vertical fine tuning                                                                                                                                                                                                                           |
| 18       | 000-255       | function                                                                                                                                                                                                                                       |
| 19       | 000-255       | Reset: The whole machine is reset when the parameter value is between 250 and 255. The console parameter value must be pulled below 10 before it is pushed to 250-255. The parameter value between 000 and 249 is useless and cannot be reset. |
| 20       | 000-255       | focus                                                                                                                                                                                                                                          |
| 21       | 000-255       | rotate                                                                                                                                                                                                                                         |
| 22       | 000-255       | empty                                                                                                                                                                                                                                          |

### CH23 channel description:

| pass age | Channel value | fundamental function |
|----------|---------------|----------------------|
| one      | 000-255       | X axis               |

|       |         |                                                                                                                                                                                                                                                  |
|-------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2     | 000-255 | X-axis fine tuning                                                                                                                                                                                                                               |
| three | 000-255 | Y axis                                                                                                                                                                                                                                           |
| four  | 000-255 | Y axis fine tuning                                                                                                                                                                                                                               |
| five  | 000-255 | XY speed                                                                                                                                                                                                                                         |
| six   | 000-255 | focus                                                                                                                                                                                                                                            |
| seven | 000-255 | rotate                                                                                                                                                                                                                                           |
| eight | 000-255 | Total dimming                                                                                                                                                                                                                                    |
| nine  | 000-255 | stroboscopic                                                                                                                                                                                                                                     |
| 10    | 000-255 | glow                                                                                                                                                                                                                                             |
| 11    | 000-255 | green light                                                                                                                                                                                                                                      |
| 12    | 000-255 | blue light                                                                                                                                                                                                                                       |
| 13    | 000-255 | white light                                                                                                                                                                                                                                      |
| 14    | 000-255 | colour temperature                                                                                                                                                                                                                               |
| 15    | 000-255 | Dyeing/color macro function                                                                                                                                                                                                                      |
| 16    | 000-255 | Static effect                                                                                                                                                                                                                                    |
| 17    | 000-255 | Dynamic effect                                                                                                                                                                                                                                   |
| 18    | 000-255 | Dynamic effect speed                                                                                                                                                                                                                             |
| 19    | 000-255 | Red-background color                                                                                                                                                                                                                             |
| 20    | 000-255 | Green-background color                                                                                                                                                                                                                           |
| 21    | 000-255 | Blue light-background color                                                                                                                                                                                                                      |
| 22    | 000-255 | White light-background color                                                                                                                                                                                                                     |
| 23    | 000-255 | Reset: when the parameter value is 250-255, the whole machine is reset. The parameter value of the console must be pulled below 10 before it is pushed to 250-255, and it is useless when the parameter value is 000-249, so it cannot be reset. |

## CH25 channel description:

| pass age | Chann el value | fundamental function |
|----------|----------------|----------------------|
| one      | 000-255        | X axis               |
| 2        | 000-255        | X-axis fine tuning   |
| three    | 000-255        | Y axis               |
| four     | 000-255        | Y axis fine tuning   |
| five     | 000-255        | XY speed             |
| six      | 000-255        | focus                |
| seven    | 000-255        | rotate               |
| eight    | 000-255        | Total dimming        |
| nine     | 000-255        | stroboscopic         |
| 10       | 000-255        | glow                 |
| 11       | 000-255        | green light          |
| 12       | 000-255        | blue light           |
| 13       | 000-255        | white light          |
| 14       | 000-255        | colour temperature   |
| 15       | 000-255        | dye                  |
| 16       | 000-255        | Pattern fading       |
| 17       | 000-255        | Pattern translation  |

|    |         |                                                                                                                                                                                                                                                  |
|----|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18 | 000-255 | Static effect                                                                                                                                                                                                                                    |
| 19 | 000-255 | Dynamic effect                                                                                                                                                                                                                                   |
| 20 | 000-255 | Dynamic effect speed                                                                                                                                                                                                                             |
| 21 | 000-255 | Red light-background color                                                                                                                                                                                                                       |
| 22 | 000-255 | Green-background color                                                                                                                                                                                                                           |
| 23 | 000-255 | Blue light-background color                                                                                                                                                                                                                      |
| 24 | 000-255 | White light-background color                                                                                                                                                                                                                     |
| 25 | 000-255 | Reset: when the parameter value is 250-255, the whole machine is reset. The parameter value of the console must be pulled below 10 before it is pushed to 250-255, and it is useless when the parameter value is 000-249, so it cannot be reset. |

## CH36 channel description:

| pass age | Chann el value | fundamental function                                                                                                                                                                                                                           |
|----------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| one      | 000-255        | red                                                                                                                                                                                                                                            |
| 2        | 000-255        | Red fine tuning                                                                                                                                                                                                                                |
| three    | 000-255        | green                                                                                                                                                                                                                                          |
| four     | 000-255        | Green fine tuning                                                                                                                                                                                                                              |
| five     | 000-255        | blue                                                                                                                                                                                                                                           |
| six      | 000-255        | Blue fine tuning                                                                                                                                                                                                                               |
| seven    | 000-255        | white                                                                                                                                                                                                                                          |
| eight    | 000-255        | White fine tuning                                                                                                                                                                                                                              |
| nine     | 000-255        | Linear color temperature                                                                                                                                                                                                                       |
| 10       | 000-255        | Macro function                                                                                                                                                                                                                                 |
| 11       | 000-255        | stroboscopic                                                                                                                                                                                                                                   |
| 12       | 000-255        | Total dimming                                                                                                                                                                                                                                  |
| 13       | 000-255        | Dimming and fine tuning                                                                                                                                                                                                                        |
| 14       | 000-255        | level                                                                                                                                                                                                                                          |
| 15       | 000-255        | Horizontal fine adjustment                                                                                                                                                                                                                     |
| 16       | 000-255        | perpendicular/vertical                                                                                                                                                                                                                         |
| 17       | 000-255        | Vertical fine tuning                                                                                                                                                                                                                           |
| 18       | 000-255        | function                                                                                                                                                                                                                                       |
| 19       | 000-255        | Reset: The whole machine is reset when the parameter value is between 250 and 255. The console parameter value must be pulled below 10 before it is pushed to 250-255. The parameter value between 000 and 249 is useless and cannot be reset. |
| 20       | 000-255        | focus                                                                                                                                                                                                                                          |
| 21       | 000-255        | rotate                                                                                                                                                                                                                                         |
| 22       | 000-255        | Pattern rotation                                                                                                                                                                                                                               |
| 23       | 000-255        | Pattern effect speed                                                                                                                                                                                                                           |
| 24       | 000-255        | Fading of pattern effect                                                                                                                                                                                                                       |
| 25       | 000-255        | Pattern Effect-Red                                                                                                                                                                                                                             |
| 26       | 000-255        | Pattern Effect-Green                                                                                                                                                                                                                           |
| 27       | 000-255        | Pattern Effect-Blue                                                                                                                                                                                                                            |

|    |         |                                 |
|----|---------|---------------------------------|
| 28 | 000-255 | Pattern effect-white            |
| 29 | 000-255 | Pattern dimming                 |
| 30 | 000-255 | Background dimming              |
| 31 | 000-255 | Pattern change                  |
| 32 | 000-255 | Pattern translation             |
| 33 | 000-255 | Foreground flicker (inversion)  |
| 34 | 000-255 | Background strobe (inversion)   |
| 35 | 000-255 | Background Selection (Inverted) |
| 36 | 000-255 | empty                           |

## CH78 channel description:

| pass<br>age | Chann<br>el<br>value | fundamental function                                                                                                                                                                                                                           |
|-------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| one         | 000-255              | Useless                                                                                                                                                                                                                                        |
| 2           | 000-255              | Useless                                                                                                                                                                                                                                        |
| three       | 000-255              | Useless                                                                                                                                                                                                                                        |
| four        | 000-255              | Useless                                                                                                                                                                                                                                        |
| five        | 000-255              | Useless                                                                                                                                                                                                                                        |
| six         | 000-255              | Useless                                                                                                                                                                                                                                        |
| seven       | 000-255              | Useless                                                                                                                                                                                                                                        |
| eight       | 000-255              | Useless                                                                                                                                                                                                                                        |
| nine        | 000-255              | Linear color temperature                                                                                                                                                                                                                       |
| 10          | 000-255              | Macro function                                                                                                                                                                                                                                 |
| 11          | 000-255              | stroboscopic                                                                                                                                                                                                                                   |
| 12          | 000-255              | Total dimming                                                                                                                                                                                                                                  |
| 13          | 000-255              | Dimming and fine tuning                                                                                                                                                                                                                        |
| 14          | 000-255              | level                                                                                                                                                                                                                                          |
| 15          | 000-255              | Horizontal fine adjustment                                                                                                                                                                                                                     |
| 16          | 000-255              | perpendicular/vertical                                                                                                                                                                                                                         |
| 17          | 000-255              | Vertical fine tuning                                                                                                                                                                                                                           |
| 18          | 000-255              | function                                                                                                                                                                                                                                       |
| 19          | 000-255              | Reset: The whole machine is reset when the parameter value is between 250 and 255. The console parameter value must be pulled below 10 before it is pushed to 250-255. The parameter value between 000 and 249 is useless and cannot be reset. |
| 20          | 000-255              | focus                                                                                                                                                                                                                                          |
| 21          | 000-255              | rotate                                                                                                                                                                                                                                         |
| 22          | 000-255              | Dimming of the first red lamp bead                                                                                                                                                                                                             |
| 23          | 000-255              | Dimming of the first green lamp bead                                                                                                                                                                                                           |
| 24          | 000-255              | Dimming of the first blue lamp bead                                                                                                                                                                                                            |
| 25          | 000-255              | Dimming the second red lamp bead                                                                                                                                                                                                               |
| 26          | 000-255              | Dimming the second green lamp bead                                                                                                                                                                                                             |
| 27          | 000-255              | Dimming of the second blue lamp bead                                                                                                                                                                                                           |

|               |         |                                           |
|---------------|---------|-------------------------------------------|
| ...           | ...     | ...                                       |
| 76            | 000-255 | The 19th Red Lamp Bead Dimming            |
| 77            | 000-255 | The 19th green light bulb dims the light. |
| seventy-eight | 000-255 | The 19th Blue Lamp Bead Dimming           |

## CH92 channel description:

| pass age | Channel value | fundamental function                                                                                                                                                                                                                           |
|----------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| one      | 000-255       | Useless                                                                                                                                                                                                                                        |
| 2        | 000-255       | Useless                                                                                                                                                                                                                                        |
| three    | 000-255       | Useless                                                                                                                                                                                                                                        |
| four     | 000-255       | Useless                                                                                                                                                                                                                                        |
| five     | 000-255       | Useless                                                                                                                                                                                                                                        |
| six      | 000-255       | Useless                                                                                                                                                                                                                                        |
| seven    | 000-255       | Useless                                                                                                                                                                                                                                        |
| eight    | 000-255       | Useless                                                                                                                                                                                                                                        |
| nine     | 000-255       | Linear color temperature                                                                                                                                                                                                                       |
| 10       | 000-255       | Macro function                                                                                                                                                                                                                                 |
| 11       | 000-255       | stroboscopic                                                                                                                                                                                                                                   |
| 12       | 000-255       | Total dimming                                                                                                                                                                                                                                  |
| 13       | 000-255       | Dimming and fine tuning                                                                                                                                                                                                                        |
| 14       | 000-255       | level                                                                                                                                                                                                                                          |
| 15       | 000-255       | Horizontal fine adjustment                                                                                                                                                                                                                     |
| 16       | 000-255       | perpendicular/vertical                                                                                                                                                                                                                         |
| 17       | 000-255       | Vertical fine tuning                                                                                                                                                                                                                           |
| 18       | 000-255       | function                                                                                                                                                                                                                                       |
| 19       | 000-255       | Reset: The whole machine is reset when the parameter value is between 250 and 255. The console parameter value must be pulled below 10 before it is pushed to 250-255. The parameter value between 000 and 249 is useless and cannot be reset. |
| 20       | 000-255       | focus                                                                                                                                                                                                                                          |
| 21       | 000-255       | rotate                                                                                                                                                                                                                                         |
| 22       | 000-255       | Pattern rotation                                                                                                                                                                                                                               |
| 23       | 000-255       | Pattern effect speed                                                                                                                                                                                                                           |
| 24       | 000-255       | Fading of pattern effect                                                                                                                                                                                                                       |
| 25       | 000-255       | Pattern Effect-Red                                                                                                                                                                                                                             |
| 26       | 000-255       | Pattern Effect-Green                                                                                                                                                                                                                           |
| 27       | 000-255       | Pattern Effect-Blue                                                                                                                                                                                                                            |
| 28       | 000-255       | Pattern effect-white                                                                                                                                                                                                                           |
| 29       | 000-255       | Pattern dimming                                                                                                                                                                                                                                |
| 30       | 000-255       | Background dimming                                                                                                                                                                                                                             |



|     |         |                                           |
|-----|---------|-------------------------------------------|
| 31  | 000-255 | Pattern change                            |
| 32  | 000-255 | Pattern translation                       |
| 33  | 000-255 | Foreground flicker (inversion)            |
| 34  | 000-255 | Background strobe (inversion)             |
| 35  | 000-255 | Background Selection (Inverted)           |
| 36  | 000-255 | Dimming of the first red lamp bead        |
| 37  | 000-255 | Dimming of the first green lamp bead      |
| 38  | 000-255 | Dimming of the first blue lamp bead       |
| ... | ...     | ...                                       |
| 90  | 000-255 | The 19th Red Lamp Bead Dimming            |
| 91  | 000-255 | The 19th green light bulb dims the light. |
| 92  | 000-255 | The 19th Blue Lamp Bead Dimming           |

## CH97 channel description:

| pass<br>age | Chann<br>el<br>value | fundamental function                                                                                                                                                                                                                           |
|-------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| one         | 000-255              | Useless                                                                                                                                                                                                                                        |
| 2           | 000-255              | Useless                                                                                                                                                                                                                                        |
| three       | 000-255              | Useless                                                                                                                                                                                                                                        |
| four        | 000-255              | Useless                                                                                                                                                                                                                                        |
| five        | 000-255              | Useless                                                                                                                                                                                                                                        |
| six         | 000-255              | Useless                                                                                                                                                                                                                                        |
| seven       | 000-255              | Useless                                                                                                                                                                                                                                        |
| eight       | 000-255              | Useless                                                                                                                                                                                                                                        |
| nine        | 000-255              | Linear color temperature                                                                                                                                                                                                                       |
| 10          | 000-255              | Macro function                                                                                                                                                                                                                                 |
| 11          | 000-255              | stroboscopic                                                                                                                                                                                                                                   |
| 12          | 000-255              | Total dimming                                                                                                                                                                                                                                  |
| 13          | 000-255              | Dimming and fine tuning                                                                                                                                                                                                                        |
| 14          | 000-255              | level                                                                                                                                                                                                                                          |
| 15          | 000-255              | Horizontal fine adjustment                                                                                                                                                                                                                     |
| 16          | 000-255              | perpendicular/vertical                                                                                                                                                                                                                         |
| 17          | 000-255              | Vertical fine tuning                                                                                                                                                                                                                           |
| 18          | 000-255              | function                                                                                                                                                                                                                                       |
| 19          | 000-255              | Reset: The whole machine is reset when the parameter value is between 250 and 255. The console parameter value must be pulled below 10 before it is pushed to 250-255. The parameter value between 000 and 249 is useless and cannot be reset. |
| 20          | 000-255              | focus                                                                                                                                                                                                                                          |
| 21          | 000-255              | rotate                                                                                                                                                                                                                                         |
| 22          | 000-255              | Dimming of the first red lamp bead                                                                                                                                                                                                             |
| 23          | 000-255              | Dimming of the first green lamp bead                                                                                                                                                                                                           |
| 24          | 000-255              | Dimming of the first blue lamp bead                                                                                                                                                                                                            |

|     |         |                                           |
|-----|---------|-------------------------------------------|
| 25  | 000-255 | Dimming of the first white lamp bead      |
| ... | ...     | ...                                       |
| 94  | 000-255 | The 19th Red Lamp Bead Dimming            |
| 95  | 000-255 | The 19th green light bulb dims the light. |
| 96  | 000-255 | The 19th Blue Lamp Bead Dimming           |
| 97  | 000-255 | The 19th White Lamp Bead Dimming          |

## CH99 channel description:

| pass age | Chann el value | fundamental function                                                                                                                                                                                                                             |
|----------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| one      | 000-255        | X axis                                                                                                                                                                                                                                           |
| 2        | 000-255        | X-axis fine tuning                                                                                                                                                                                                                               |
| three    | 000-255        | Y axis                                                                                                                                                                                                                                           |
| four     | 000-255        | Y axis fine tuning                                                                                                                                                                                                                               |
| five     | 000-255        | XY speed                                                                                                                                                                                                                                         |
| six      | 000-255        | focus                                                                                                                                                                                                                                            |
| seven    | 000-255        | rotate                                                                                                                                                                                                                                           |
| eight    | 000-255        | Total dimming                                                                                                                                                                                                                                    |
| nine     | 000-255        | stroboscopic                                                                                                                                                                                                                                     |
| 10       | 000-255        | Useless                                                                                                                                                                                                                                          |
| 11       | 000-255        | Useless                                                                                                                                                                                                                                          |
| 12       | 000-255        | Useless                                                                                                                                                                                                                                          |
| 13       | 000-255        | Useless                                                                                                                                                                                                                                          |
| 14       | 000-255        | colour temperature                                                                                                                                                                                                                               |
| 15       | 000-255        | dye                                                                                                                                                                                                                                              |
| 16       | 000-255        | Static effect                                                                                                                                                                                                                                    |
| 17       | 000-255        | Dynamic effect                                                                                                                                                                                                                                   |
| 18       | 000-255        | Dynamic effect speed                                                                                                                                                                                                                             |
| 19       | 000-255        | Red light-background color                                                                                                                                                                                                                       |
| 20       | 000-255        | Green-background color                                                                                                                                                                                                                           |
| 21       | 000-255        | Blue light-background color                                                                                                                                                                                                                      |
| 22       | 000-255        | White light-background color                                                                                                                                                                                                                     |
| 23       | 000-255        | Reset: when the parameter value is 250-255, the whole machine is reset. The parameter value of the console must be pulled below 10 before it is pushed to 250-255, and it is useless when the parameter value is 000-249, so it cannot be reset. |
| 24       | 000-255        | Dimming of the first red lamp bead                                                                                                                                                                                                               |
| 25       | 000-255        | Dimming of the first green lamp bead                                                                                                                                                                                                             |
| 26       | 000-255        | Dimming of the first blue lamp bead                                                                                                                                                                                                              |
| 27       | 000-255        | Dimming of the first white lamp bead                                                                                                                                                                                                             |
| ...      | ...            | ...                                                                                                                                                                                                                                              |
| 96       | 000-255        | The 19th Red Lamp Bead Dimming                                                                                                                                                                                                                   |
| 97       | 000-255        | The 19th green light bulb dims the light.                                                                                                                                                                                                        |
| 98       | 000-255        | The 19th Blue Lamp Bead Dimming                                                                                                                                                                                                                  |

|    |         |                                  |
|----|---------|----------------------------------|
| 99 | 000-255 | The 19th White Lamp Bead Dimming |
|----|---------|----------------------------------|

## CH101 channel description:

| pass age                                                                                   | Channel value                                                                              | fundamental function                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| one                                                                                        | 000-255                                                                                    | X axis                                                                                                                                                                                                                                           |
| 2                                                                                          | 000-255                                                                                    | X-axis fine tuning                                                                                                                                                                                                                               |
| three                                                                                      | 000-255                                                                                    | Y axis                                                                                                                                                                                                                                           |
| four                                                                                       | 000-255                                                                                    | Y axis fine tuning                                                                                                                                                                                                                               |
| five                                                                                       | 000-255                                                                                    | XY speed                                                                                                                                                                                                                                         |
| six                                                                                        | 000-255                                                                                    | focus                                                                                                                                                                                                                                            |
| seven                                                                                      | 000-255                                                                                    | rotate                                                                                                                                                                                                                                           |
| eight                                                                                      | 000-255                                                                                    | Total dimming                                                                                                                                                                                                                                    |
| nine                                                                                       | 000-255                                                                                    | stroboscopic                                                                                                                                                                                                                                     |
| 10                                                                                         | 000-255                                                                                    | Useless                                                                                                                                                                                                                                          |
| 11                                                                                         | 000-255                                                                                    | Useless                                                                                                                                                                                                                                          |
| 12                                                                                         | 000-255                                                                                    | Useless                                                                                                                                                                                                                                          |
| 13                                                                                         | 000-255                                                                                    | Useless                                                                                                                                                                                                                                          |
| 14                                                                                         | 000-255                                                                                    | colour temperature                                                                                                                                                                                                                               |
| 15                                                                                         | 000-255                                                                                    | dye                                                                                                                                                                                                                                              |
| 16                                                                                         | 000-255                                                                                    | Pattern fading                                                                                                                                                                                                                                   |
| 17                                                                                         | 000-255                                                                                    | Pattern translation                                                                                                                                                                                                                              |
| 18                                                                                         | 000-255                                                                                    | Static effect                                                                                                                                                                                                                                    |
| 19                                                                                         | 000-255                                                                                    | Dynamic effect                                                                                                                                                                                                                                   |
| 20                                                                                         | 000-255                                                                                    | Dynamic effect speed                                                                                                                                                                                                                             |
| 21                                                                                         | 000-255                                                                                    | Red light-background color                                                                                                                                                                                                                       |
| 22                                                                                         | 000-255                                                                                    | Green-background color                                                                                                                                                                                                                           |
| 23                                                                                         | 000-255                                                                                    | Blue light-background color                                                                                                                                                                                                                      |
| 24                                                                                         | 000-255                                                                                    | White light-background color                                                                                                                                                                                                                     |
| 25                                                                                         | 000-255                                                                                    | Reset: when the parameter value is 250-255, the whole machine is reset. The parameter value of the console must be pulled below 10 before it is pushed to 250-255, and it is useless when the parameter value is 000-249, so it cannot be reset. |
| 26                                                                                         | 000-255                                                                                    | Dimming of the first red lamp bead                                                                                                                                                                                                               |
| 27                                                                                         | 000-255                                                                                    | Dimming of the first green lamp bead                                                                                                                                                                                                             |
| 28                                                                                         | 000-255                                                                                    | Dimming of the first blue lamp bead                                                                                                                                                                                                              |
| 29                                                                                         | 000-255                                                                                    | Dimming of the first white lamp bead                                                                                                                                                                                                             |
| ...<br> | ...<br> | ...<br>                                                                                                                                                       |
| 98                                                                                         | 000-255                                                                                    | The 19th Red Lamp Bead Dimming                                                                                                                                                                                                                   |
| 99                                                                                         | 000-255                                                                                    | The 19th green light bulb dims the light.                                                                                                                                                                                                        |
| 100                                                                                        | 000-255                                                                                    | The 19th Blue Lamp Bead Dimming                                                                                                                                                                                                                  |
| 101                                                                                        | 000-255                                                                                    | The 19th White Lamp Bead Dimming                                                                                                                                                                                                                 |

## V. Technical parameters:



## TARBOC RH-FY19A

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Voltage: AC100~240V 50/60HZ

Lamp beads: 19 four-in-one LED lamp beads

Control mode: DMX512, self-propelled, master-slave, voice control and RDM function.

Channels: CH22, CH23, CH25, CH36, CH78, CH92, CH97, CH99 and CH101.

Dimming: 32bit 0~100% linear dimming

Features: shaking head+dyeing+focusing+pattern+rotation

Working temperature: -30 ~50°C

Strobe frequency: 1~30HZ

Appearance: metal, black

Connection mode: DMX512 input/output/power input/output.

IP grade: IP20

Size: weight: