**I. Display panel and key definition**



**Menu key: Select Function**

**Up key: parameter recursion**

**Down key: parameter decrement**

**Enter key: confirm and save**

**II. Menu functions**

**Press the menu key after power on, the menu function table appears in turn; up or down key to modify the function parameters, enter key to save the current function and parameters (save with power down memory). Menu Function Table:**

|  |  |  |  |
| --- | --- | --- | --- |
| A001 |  | A512 | Up or down modify address code (A001~A512) , enter key to save, default A001. |
| C003 |  | C336 | Up or down Channel settings, Enter key to save ,default C011。 |
| I000 |  | I255 | Modify the effect of character 1 up or down, and display it vertically in the center (at the same time, use JXXX character 2 to display it to the left). There are 127 effects in total. |
| J000 |  | J255 | Modify the effect of character 2 up or down, and display it horizontally in the center (at the same time, IXXX character 1 is displayed to the right). There are 127 effects in total. |
| M000 |  | M255 | Built-in effect 127, up or down switching effect, enter key to save, default M000。 |
| S000 |  | S255 | Modify the speed of built-in effects up or down (S000~ S255), enter key to save, default S000。 |
| K000 |  | K255 | Modify the running direction of the built-in effect upward or downward (K000~ K255, value 0~127, 128~255, positive and negative directions), enter key to save, default K000。 |
| L000 |  | L255 | Modify the color of the built-in effect up or down, 32 values for one color, and the last 32 values for 7 color automatic change (dynamic mode effect), enter key to save, default L000。 |
| R255 |  | R000 | Up or down modify red light bead brightness (R000~R255), enter key to save, default R255。 |
| G255 |  | G000 | Up or down modify green light bead brightness (G000~G255), enter key to save, default G255。 |
| B255 |  | B000 | Up or down modify blue light bead brightness (B000~B255), enter key to save, default B255。 |
| T000 |  |  | Display temperature, such as T045 indicates current luminaire temperature is 45℃; not installed 10 K thermistor, display T000. |

**III. Master-slave control**

**Two or more of the same lamps are connected with DMX three-core signal lines, all lamps are set to A001~A512 any address code, any A is set to host, and other lamps are slave; when the host is gradient, pulse, jump, sound control, self-walking effect, slave synchronous gradient, pulse change, jump, sound control, self-walking effect.**

**Special note :1. a group of lamps can only set up A host, if there are more than A host, all lamps will flash and not synchronized.**

 **2. all lamps must be master-slave when the DMX512 console is closed.**

**IV.Factory setup**

 **A001~A512 any address code, press the menu key for 5 seconds to enter the factory settings. Factory setting is mainly the function of lamp output power, fan setting mode, setting temperature protection point, sending parameters, factory setting any mode press menu key 5 seconds exit.**

**Factory Setup Table:**

|  |  |  |  |
| --- | --- | --- | --- |
| R255 |  | R032 | Up or down modify the current of red lamp bead(R032-R255), Enter key to save, default R220。 |
| G255 |  | G032 | Up or down modify the current of green lamp bead(G032-G255), Enter key to save ,default G220。 |
| B255 |  | B032 | Up or down modify the current of blue lamp bead(B032-B255), Enter key to save ,default B220。 |
| FAN0 |  | FAN1 | Fan setting: Start the fan FAN0 light is on, FAN1 reach the set temperature protection point start the fan, Enter key to save. |
| T040 |  | T105 | Set the temperature protection point, modify the parameters up or down (40℃~105℃), Enter key to save. |
| Send |  | Send | Send up or down the local factory setting parameters to all other three-core signal lines connected in parallel lamps(The 5-second online display flashes once to indicate successful sending); confirm the sending parameters press menu key 5 seconds exit, deny the parameters press confirmation key to cancel the sending. |

**V. DMX512 console**

**After power on all lamps address code set, connect all lamps with three-core signal line in parallel to the DMX512 console, the address code will stop flashing, indicating that the DMX512 console signal has been sent to the lamp, according to the channel instructions with the DMX512 console control related functions.**

**CH03 Channel Description:**

|  |  |  |
| --- | --- | --- |
| **Channel** | **Channel values** |  **Basic function** |
| 1 | 000-255 | Red beads with linear dimming |
| 2 | 000-255 | Green beads with linear dimming |
| 3 | 000-255 | Blue beads with linear dimming |

**C011 Channel Description:**

|  |  |  |
| --- | --- | --- |
| **Channel** | **Channel values** |  **Basic function** |
| 1 | 000-255 | Tuned light |
| 2 | 000-255 | Stroboflash |
| 3 | 000-255 | Character 1, a total of 127 Numbers, letters and symbols, vertical center display (at the same time with 4 channel character 1 displayed on the left). |
| 4 | 000-255 | Character 2, a total of 127 Numbers, letters and symbols, horizontal center display (at the same time with 3 channel character 2 displayed to the right). |
| 5 | 000-255 | Mode, with priority higher than characters 1 and 2 (see: Effect of mode for details) |
| 6 | 000-255 | Speed |
| 7 | 000-255 | Direction bar, operation direction of mode effect (0~127, 128~255, both positive and negative directions) |
| 8 | 000-255 | The color bar, the color of the mode effect, 32 values for one color, the last 32 values for 7 color automatic change (dynamic mode effect is sometimes useful). |
| 9 | 000-255 | Red beads with linear dimming |
| 10 | 000-255 | Green beads with linear dimming |
| 11 | 000-255 | Blue beads with linear dimming |

**C336 Channel Description:**

|  |  |  |
| --- | --- | --- |
| **Channel** | **Channel values** |  **Basic function** |
| 1 | 000-255 | The first paragraph red light beads linear dimmed. |
| 2 | 000-255 | The first paragraph green light beads linear dimmed. |
| 3 | 000-255 | The first paragraph blue light beads linear dimmed. |
| 4 | 000-255 | The second paragraph red light beads linear dimmed. |
| 5 | 000-255 | The second paragraph green light beads linear dimmed. |
| 6 | 000-255 | The second paragraph blue light beads linear dimmed. |
| … | … | … … |
| 334 | 000-255 | The 112th paragraph red light beads linear dimmed. |
| 335 | 000-255 | The 112th paragraph green light beads linear dimmed. |
| 336 | 000-255 | The 112th paragraph blue light beads linear dimmed. |

**Ⅵ.Mode effect**

|  |  |  |
| --- | --- | --- |
| **Channel values** | **Model code** | **Mode effect** |
| **0-1** | **0** | No effect |
| **2-3** | **1** | The number 0~9 is displayed in the vertical center. The direction bar or color bar can be pushed to change the direction and color. RGB can be pushed to change the background color. |
| **4-5** | **2** | Vertical center display capital letters A~Z, can push the direction bar or color bar to change the direction and color, can push RGB to change the background color. |
| **6-7** | **3** | The horizontal center displays the Numbers 0~9 and capital letters A~Z. The direction bar or color bar can be pushed to change the direction and color, and RGB can be pushed to change the background color. |
| **8-9** | **4** | Select color. Push the color bar to select color |
| **10-11** | **5** | gradual change |
| **12-13** | **6** | Pulse variable |
| **14-15** | **7** | jumping change |
| **16-17** | **8** | A column of monochrome from left to right, you can push the direction bar or color bar to change the direction and color, you can push RGB to change the background color. |
| **18-19** | **9** | A column of monochrome refresh from left to right, you can push the direction bar or color bar to change the direction and color, you can push RGB to change the background color. |
| **20-21** | **10** | A column of monochrome piled from left to right, can push the direction bar or color bar to change the direction and color, can push the RGB to change the background color. |
| **22-23** | **11** | Monochrome starting from the top left, around the middle of the snake filling, you can push the direction bar or color bar to change the direction and color, you can push RGB to change the background color. |
| **24-25** | **12** | The two monochrome V-shapes can be moved from side to side. The direction bar or color bar can be pushed to change the direction and color. The RGB can be pushed to change the background color. |
| **26-27** | **13** | Two monochrome diamond moves left and right. The direction bar or color bar can be pushed to change direction and color. The RGB can be pushed to change the background color. |
| **28-29** | **14** | A monochrome key pattern from left to right, a monochrome heart pattern from right to left, you can push the direction lever or color lever to change direction and color, you can push the RGB to change the background color. |
| **30-31** | **15** | One part of monochrome Chinese font from left to right, the other part of monochrome Chinese font from right to left, the composition of "China" two characters display, you can push the direction bar or color bar to change the direction and color, you can push RGB to change the background color. |
| **32-33** | **16** | One monochrome bar moves from top to bottom, and the other red bar moves from right to left. You can push the direction bar or color bar to change direction and color. You can push RGB to change the background color. |
| **34-35** | **17** | The double monochrome track moves from left to right. The direction bar or color bar can be pushed to change the direction and color. The RGB can be pushed to change the background color. |
| **36-37** | **18** | The double monochrome track moves from left to right. The direction bar or color bar can be pushed to change the direction and color. The RGB can be pushed to change the background color. |
| **38-39** | **19** | The monochrome arrow moves from left to right. You can push the direction bar or color bar to change direction and color. You can push RGB to change the background color. |
| **40-41** | **20** | The monochrome pulse moves from left to right. The direction bar or color bar can be pushed to change direction and color. The RGB can be pushed to change the background color. |
| **42-43** | **21** | A monochrome tail starts at the top left and moves around to the middle snakelike. A directional or colour lever can be pushed to change direction and colour. An RGB can be pushed to change the background colour. |
| **44-45** | **22** | Four colors four sine waves move from left to right, can push the direction bar to change direction, can push the RGB to change the background color. |
| **46-47** | **23** | From the top left to the bottom right, one color refreshes the other, you can push the direction bar to change the direction. |
| **48-49** | **24** | A monochrome column moves back and forth from side to side, with deformation during movement. The direction bar or color bar can be pushed to change the direction and color, and RGB can be pushed to change the background color. |
| **50-51** | **25** | Multi - color gradient bar from left to right water, you can push the direction bar to change direction, you can push RGB to change the background color. |
| **52-53** | **26** | Multi - color gradient strip from the bottom to the water, you can push the direction bar to change the direction, you can push RGB to change the background color. |
| **54-55** | **27** | Multi - color gradient colorful water, you can push the direction of the bar to change the direction. |
| **56-57** | **28** | Multi-color gradient from the bottom left to the top right water, you can push the direction of the bar to change the direction. |
| **58-59** | **29** | The multicolor gradient shrinks to the middle, pushing RGB to change the background color. |
| **60-61** | **30** | The multicolor gradient diffuses to the right. |
| **62-63** | **31** | Fill the multi-color gradient from top to bottom and push RGB to change the background color. |
| **64-65** | **32** | Color sinusoidal wave from right to left, can push the direction bar to change direction, can push THE RGB to change the background color. |
| **66-67** | **33** | Monochrome sinusoidal wave from right to left, can push the direction bar or color bar to change the direction and color, can push the RGB to change the background color. |
| **68-69** | **34** | Seven colors up and down sine, can push the direction lever to change direction, can push RGB to change the background color. |
| **70-71** | **35** | Seven colors around sine, can push the direction lever to change the direction, can push the RGB to change the background color. |
| **72-73** | **36** | Colorful gradual swing tail, can push the direction of the rod to change the direction, can push the RGB to change the background color. |
| **74-75** | **37** | Multicolor gradient two ellipse outer expansion, can push RGB to change the background color. |
| **76-77** | **38** | Multi-color gradient single ellipse outward expansion, can push RGB to change the background color. |
| **78-79** | **39** | Multi-color gradient single ellipse indenting, can push RGB to change the background color. |
| **80-81** | **40** | Multi - color gradient left and right of the circle to expand, RGB can be pushed to change the background color. |
| **82-83** | **41** | Multi - color full - color gradient square burst. |
| **84-85** | **42** | The multicolor gradient diamond ring expands outward. |
| **86-87** | **43** | The multi-color gradual change square expands outward, may push RGB to change the background color. |
| **88-89** | **44** | Multi - color gradient flash up and down to the center of the reverse, you can push the direction bar to change the direction, you can push THE RGB to change the background color. |
| **90-91** | **45** | Multi - color gradient a light and shadow, you can push the direction bar to change the direction, you can push RGB to change the background color. |
| **92-93** | **46** | Multi - color gradient explosion, push RGB to change the background color. |
| **94-95** | **47** | Multicolor gradient tri-color rotation, square indented. |
| **96-97** | **48** | The gradient multi-color left and right positive and negative direction rotation at the same time, can push the direction bar to change the direction, can push RGB to change the background color. |
| **98-99** | **49** | Multi-color gradient left open and right closed, you can push the direction lever to change the direction, you can push RGB to change the background color. |
| **100-101** | **50** | Multi-color gradient multiple square edge diffusion, can push RGB to change the background color. |
| **102-103** | **51** | The multi-color gradient is indented up and down to push RGB to change the background color. |
| **104-105** | **52** | Multicolor gradient three ellipses outward expansion. |
| **106-107** | **53** | The monochromatic gradual diamond wave moves outward. The color bar can be pushed to change the color. The RGB can be pushed to change the background color. |
| **108-109** | **54** | The two-color gradual diamond wave moves inward, pushing RGB to change the background color. |
| **110-111** | **55** | The two-color gradual diamond wave moves outward to push RGB to change the background color. |
| **112-113** | **56** | Multicolor gradual diamond indentation. |
| **114-115** | **57** | Multi - colored gradual diamond burst. |
| **116-117** | **58** | Multicolored gradient three square diffusion, can push RGB to change the background color. |
| **118-119** | **59** | Monochromatic gradient square indenting, can push the color bar to change the color, can push the RGB to change the background color. |
| **120-121** | **60** | Monochromatic gradient square blasting, can push the color bar to change the color, can push the RGB to change the background color. |
| **122-123** | **61** | The three-color gradient square is indented to push RGB to change the background color. |
| **124-125** | **62** | The three-color gradient square blasting outwards, can push RGB to change the background color. |
| **126-127** | **63** | The three-color gradient block is indented. RGB can be pushed to change the background color. |
| **128-129** | **64** | The three-color gradient block blasting outward, can push RGB to change the background color. |
| **130-131** | **65** | Three - color gradient inside the box to push RGB to change the background color. |
| **132-133** | **66** | Three - color gradient box burst, can push RGB to change the background color. |
| **134-135** | **67** | Multi - color gradient square blasting, can push RGB to change the background color. |
| **136-137** | **68** | Multi-color gradient square indented, push RGB to change the background color. |
| **138-139** | **69** | Multi-color gradient rectangle indented, push RGB to change the background color. |
| **140-141** | **70** | Multi - color gradient rectangle burst, can push RGB to change the background color. |
| **142-143** | **71** | Multi - color gradient rectangle expansion, can be pushed RGB to change the background color. |
| **144-145** | **72** | Multicolor full color gradient square indented. |
| **146-147** | **73** | Multicolor full-color gradient indented from the top left. |
| **148-149** | **74** | Multi - color full - color gradient from the top left burst. |
| **150-151** | **75** | Monochrome a square bounce, can push the direction bar or color bar to change direction and color, can push the RGB to change the background color. |
| **152-153** | **76** | Monochrome a cruciform bounce, can push the direction bar or color bar to change the direction and color, can push the RGB to change the background color. |
| **154-155** | **77** | Monochrome two cross collision, can push the color bar to change the color, can push the RGB to change the background color. |
| **156-157** | **78** | Monochromatic two squares collide, can push the color bar to change the color, can push the RGB to change the background color. |
| **158-159** | **79** | Two color diamond bounce, can push the direction bar to change direction, can push the RGB to change the background color. |
| **160-161** | **80** | Two - color cross - shaped rebound, can be pushed to change the direction of the rod, RGB can be pushed to change the background color. |
| **162-163** | **81** | Two colors two squares bounce, can push the direction lever to change direction, can push the RGB to change the background color. |
| **164-165** | **82** | Three color diamond bounce, can push the direction of the bar to change direction, can push the RGB to change the background color. |
| **166-167** | **83** | Three - color cross - shaped rebound, can be pushed to change the direction of the rod, RGB can be pushed to change the background color. |
| **168-169** | **84** | Three colors three square bounce, can push the direction lever to change direction, can push the RGB to change the background color. |
| **170-171** | **85** | Monochromatic flame, can push the direction bar or color bar to change the direction and color, can push the RGB to change the background color. |
| **172-173** | **86** | Multi-color gradient flame one, can push the direction of the rod to change the direction, can push the RGB to change the background color. |
| **174-175** | **87** | Multi-color gradient flame 2, can push the direction of the rod to change the direction, can push the RGB to change the background color. |
| **176-177** | **88** | Business flourishing, can push the direction lever to change direction, can push the RGB to change the background color. |
| **178-179** | **89** | When the two blades of monochromatic gradient are rotated in reverse, the color bar can be pushed to change the color, and the RGB can be pushed to change the background color. |
| **180-181** | **90** | The two blades of monochrome gradient rotate as time goes by. The color bar can be pushed to change the color, and the RGB can be pushed to change the background color. |
| **182-183** | **91** | When the monochromatic gradient is reversed, rotate. Push the color bar to change the color. Push the RGB to change the background color. |
| **184-185** | **92** | Four blades with monochrome gradient rotate when necessary. Push the color bar to change the color. Push RGB to change the background color. |
| **186-187** | **93** | When the two-color gradient is rotated in reverse, RGB can be pushed to change the background color. |
| **188-189** | **94** | Two - color gradient four - leaf rotation, push RGB to change the background color. |
| **190-191** | **95** | The tri-color gradual change of the RGB can be pushed inward to change the background color. |
| **192-193** | **96** | Tri-color gradient of the diamond to burst outward, RGB can be pushed to change the background color. |
| **194-195** | **97** | Three - color gradient diamond blasting inward, can push RGB to change the background color. |
| **196-197** | **98** | Three - color gradient diamond blasting outward, can push RGB to change the background color. |
| **198-199** | **99** | Multi - color gradient ellipse blasting, can push RGB to change the background color. |
| **200-201** | **100** | Multi - color gradient oval indented, push RGB to change the background color. |
| **202-203** | **101** | Multi - color gradient half diamond to expand, can push RGB to change the background color. |
| **204-205** | **102** | Multi - color gradient half diamond indented to push RGB to change the background color. |
| **206-207** | **103** | Multi-color gradient single diamond outward expansion, can push RGB to change the background color. |
| **208-209** | **104** | Multi - color gradient single diamond inward, push RGB to change the background color. |
| **210-211** | **105** | Multi - color gradient half diamond head collision, can push RGB to change the background color. |
| **212-213** | **106** | Monochromatic scatters fills, may push the direction lever or the color lever to change the direction and the color, may push the RGB to change the ground color. |
| **214-215** | **107** | Seven colors are scattered and filled. The direction lever can be pushed to change direction, and the RGB can be pushed to change the background color. |
| **216-217** | **108** | Stars twinkle with colorful gradient. RGB can be pushed to change the background color. |
| **218-219** | **109** | Colorful gradient scattering, can be pushed to change the direction of the rod, can be pushed to change the RGB background color. |
| **220-221** | **110** | Monochrome scattering, can push the direction bar or color bar to change the direction and color, can push RGB to change the background color. |
| **222-223** | **111** | The gradient of six colors from top left to bottom right, at the same time from top right to left color filling, you can push the direction bar to change direction. |
| **224-225** | **112** | The gradient of six colors from the bottom left to the top right, at the same time from the bottom right to the top left color fill, you can push the direction bar to change direction. |
| **226-227** | **113** | The gradient of three colors from the top left to the bottom right, while filling from the top right to the bottom left, you can push the direction bar to change direction. |
| **228-229** | **114** | Gradient three colors from the bottom left to the top right, while filling from the bottom right to the top left, you can push the direction bar to change direction. |
| **230-231** | **115** | Fly with a polychromatic gradient. |
| **232-233** | **116** | Multi - colored gradient to fly and dive. |
| **234-235** | **117** | The multicolor gradient arrow diffuses from bottom to top. |
| **236-237** | **118** | When the spiral of three-color gradient is reversed, rotate inward. Push RGB to change the background color. |
| **238-239** | **119** | The three-color gradient spiral rotates inward as appropriate to push RGB to change the background color. |
| **240-241** | **120** | Rotate the three-color spiral waveform outwardly in gradual change, push the direction lever to change the direction, push RGB to change the background color. |
| **242-243** | **121** | Multi - color gradient to the inner spiral, can push RGB to change the background color. |
| **244-245** | **122** | Two color gradient left and right two screw, can push the direction lever to change the direction, can push the RGB to change the background color. |
| **246-247** | **123** | Music spectrum one, can push the direction lever to change the direction, can push the RGB to change the background color. |
| **248-249** | **124** | Music spectrum two, can push the direction lever to change the direction, can push the RGB to change the background color. |
| **250-251** | **125** | Multi - color gradient multi - effect collection. |
| **252-253** | **126** | Sound mode. |
| **254-255** | **127** | Mode code 5~125 cycles. |

**VII. Technical parameters**

Voltage: AC100~240 V 50/60HZ

Power: 220W

Lamp bead: 1008 5050 tri-color LED beads

Control mode:DMX512,self-walking, master-slave, voice control, RDM.

Channels: Channels Selection C003,C011,C336

Dimming :32 bit 0~100% linear dimming

Features: 112 racer + dye + flash

Working temperature :-30 degrees ~50 degrees

Stroboscopic frequency :1~30 HZ

Appearance: Metal, Black

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

IP grade: IP20

Size: Weight: