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P/N: 390712000141 Version: A


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Attached 1. Fixture exploded drawing
Attached 2. Wiring diagram

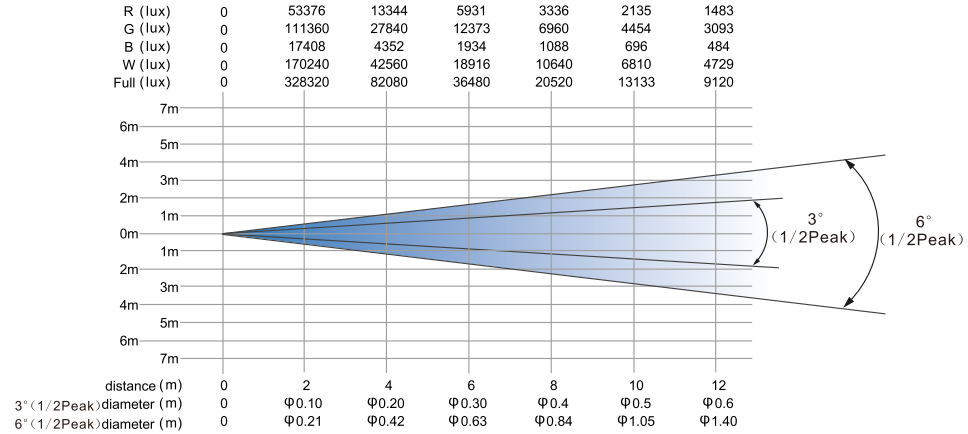
# 1/ Technical feature

| Technical feature | **FINE 6010 BATTEN IP** |
|---|---|
| Lamp source | 10X60W(RGBW 4items)+100*0.8W (RGB)+50*3W(CW)+50*3W(WW) |
| Input voltage | 100-240V~ 50/60Hz |
| Input current | 6.8A |
| Input power | 680W |
| Power factor | PF≥0. 98 |
| Zoom angle | 3°～45° |
| CRI | Ra＞90 |
| Max luminous flux | 8416 lm |
| DMX Model | Stand:25/Mode2:40/Mode3:91/Mode4:98/Mode5:148/ Mode6:8+140 |
| Tilt | Tilt =200°, Tilt=0.94°/step, Tilt fine=0.0037° |
| Safety protection | Over current, over voltage and overheating protection |
| Control mode | DMX512/RDM/Art-net/sACN/Wireless DMX512(optional) |
| Work environment | -10°C ～ 40°C |
| Fixture dimension | 1006x131x334mm |
| Package dimnsion | 1236x641x576mm |
| Weight | Net weight: 22.5kg, Gross weight: 140kg |
| Package | 4 pcs/flight case |
| IP rate | IP 66 |

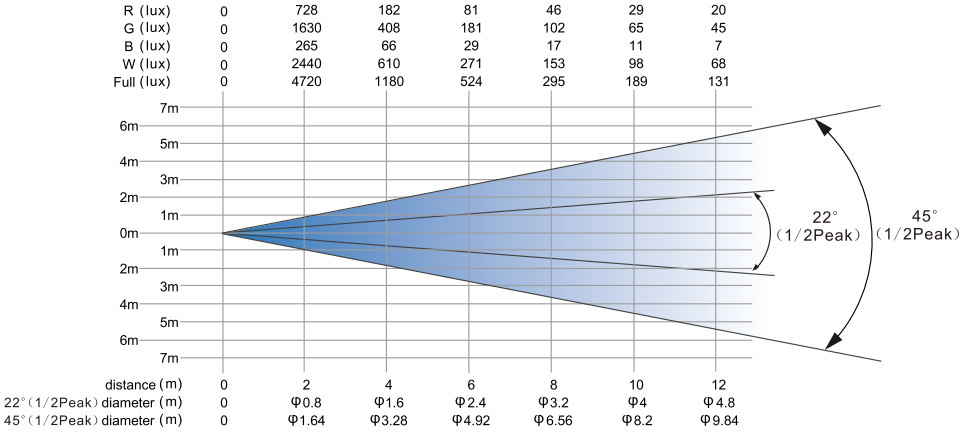
Note: The light source is not recommended to replaced by user . Ask qualified maintenance personnel to replace the light source if any damage or overheat deformation.

# 2/ Photometric diagram & angle range

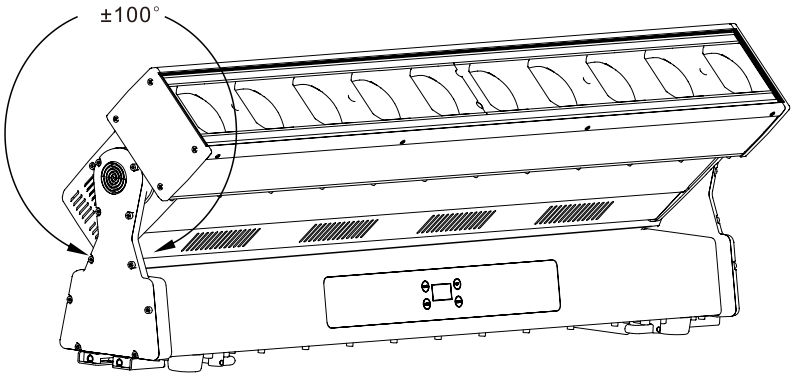
● PHOTOMETRIC(Min Angle)




● PHOTOMETRIC(Max Angle)



## Pan&Tilt scan



# 3/ Control channel

Stand mode :

| ID | Specific | Value | Description |
|---|---|---|---|
| 1 | Tilt | 0->255 Tilt Adjusting | Tilt |
| 2 | Tilt Fine | 0->255 Tilt Fine Adjusting | Tilt Fine |
| 3 | Dimmer | 0->255 | Dimmer |
| 4 | Dimmer Fine | 0->255 | Dimmer Fine |
| 5 | MainShutter | 0->4 OFF<br>5->9 Single flash each time value is changed within range 005->009<br>10->39 Pluse Slow->Fast<br>40->69 Opening pulse slow->fast<br>70->99 Closing pulse slow->fast<br>100->129 Double flash(0~10Hz)<br>130->159 Random pixel strobe slow->fast<br>160->199 Random all strobe slow->fast<br>200->250 strobe sync all pixels slow->fast<br>251->255 Open | Shutter |
| 6 | EdgeShutter | 0->4 OFF<br>5->9 Single flash each time value is changed within range 005->009<br>10->39 Pluse Slow->Fast<br>40->69 Opening pulse slow->fast<br>70->99 Closing pulse slow->fast<br>100->129 Double flash(0~10Hz)<br>130->159 Random pixel strobe slow->fast<br>160->199 Random all strobe slow->fast<br>200->250 strobe sync all pixels slow->fast<br>251->255 Open | |
| 7 | Zoom | 0->255 (narrow->wide) | |
| 8 | Ctrl | See "Control Settings channel" table | Control/Settings |
| 9 | MainDimmer | 0->255 | Main Dimmer |
| 10 | MainRed | 0->255 | Main Red |
| 11 | MainGre | 0->255 | Main Green |
| 12 | MainBlu | 0->255 | Main Blue |
| 13 | MainWhi | 0->255 | Main White |
| 14 | MainCTC | 0 No Function<br>1 CCT 8000K<br>2->83 CCT 7979K->6222K<br>84 CCT 6200K<br>85->111 CCT 6178K->5621K<br>112 CCT 5600K<br>113->175 CCT 5579K->4223K<br>176 CCT 4200K<br>177->222 CCT 4181K->3221K<br>223 CCT 3200K<br>224->254 CCT 3179K->2521K<br>255 CCT 2500K | |
| 15 | MainEffSel | 0->7 None<br>8->9 ColorEff1 10->11 ColorEff2 12->13 ColorEff3 14->15 ColorEff4<br>16->17 ColorEff5 18->19 ColorEff6 20->21 ColorEff7 22->23 ColorEff8<br>24->25 ColorEff9 26->27 ColorEff10 28->29 ColorEff11 30->31 ColorEff12<br>32->33 ColorEff13 34->35 ColorEff14 36->37 ColorEff15 38->39 ColorEff16<br>40->41 ColorEff17 42->43 ColorEff18 44->45 ColorEff19 46->47 ColorEff20<br>48->49 ColorEff21 50->51 ColorEff22 52->53 ColorEff23 54->55 ColorEff24<br>56->57 ColorEff25 58->59 ColorEff26 60->61 ColorEff27 62->63 ColorEff28<br>64->65 ColorEff29 66->67 ColorEff30 68->69 ColorEff31 70->71 ColorEff32<br>72->73 ColorEff33 74->75 ColorEff34 76->77 ColorEff35 78->79 ColorEff36<br>80->81 ColorEff37 82->83 ColorEff38 84->85 ColorEff39 86->87 ColorEff40<br>88->89 ColorEff41 90->235 ColorEff1 to ColorEff41 Loop<br>236->245 Color Random Point(Range:1-10)<br>246->255 Random Point(Range: 1-10) | |

| | | | |
|---|---|---|---|
| 16 | MainEffSpd | 0->7 Static<br>8->255 Speed Slow To Fast(3s->0s) | |
| 17 | EdgeDimmer | 0->255 | |
| 18 | EdgeRed | 0->255 | |
| 19 | EdgeGre | 0->255 | |
| 20 | EdgeBlu | 0->255 | |
| 21 | EdgeCW | 0->255 | |
| 22 | EdgeWW | 0->255 | |
| 23 | EdgeWW | 0 No Function<br>1 10000K<br>2 ->70 9971K->8044K<br>71->72 8000K<br>73->123 7959K->6541K<br>124->125 6500K<br>126->155 6485K->5634K<br>156->157 5600K<br>158->201 5549K->4330K<br>202->203 4300K<br>204->239 4274K->3225K<br>240->241 3200K<br>242->254 3168K->2828K<br>255 2800K | |
| 24 | EdgeEffSel | 0->7 None<br>8->9 ColorEff1 10->11 ColorEff2 12->13 ColorEff3<br>14->15 ColorEff4 16->17 ColorEff5 18->19 ColorEff6<br>20->21 ColorEff7 22->23 ColorEff8 24->25 ColorEff9<br>26->27 ColorEff10 28->29 ColorEff11 30->31 ColorEff12<br>32->33 ColorEff13 34->35 ColorEff14 36->37 ColorEff15<br>38->39 ColorEff16 40->41 ColorEff17 42->43 ColorEff18<br>44->45 ColorEff19 46->47 ColorEff20 48->49 ColorEff21<br>50->51 ColorEff22 52->53 ColorEff23 54->55 ColorEff24<br>56->57 ColorEff25 58->59 ColorEff26 60->61 ColorEff27<br>62->63 ColorEff28 64->65 ColorEff29 66->67 ColorEff30<br>68->69 ColorEff31 70->71 ColorEff32 72->73 ColorEff33<br>74->75 ColorEff34 76->77 ColorEff35 78->79 ColorEff36<br>80->81 ColorEff37 82->83 ColorEff38 84->85 ColorEff39<br>86->87 ColorEff40 88->89 ColorEff41 90->91 ColorEff42<br>92->93 ColorEff43 94->95 ColorEff44 96->97 ColorEff45<br>98->99 ColorEff46 100->215 ColorEff1 to ColorEff46 Loop<br>216->235 Color Random Point(Range:1-20)<br>236->255 Random Point(Range: 1-20) | |
| 25 | EdgeEffSpd | 0->7 Static<br>8->255 Speed Slow To Fast(3s->0s) | |

## Mode 2 :

| ID | Specific | Value | Description |
|---|---|---|---|
| 1 | Tilt | 0->255 Tilt Adjusting | Tilt |
| 2 | Tilt Fine | 0->255 Tilt Fine Adjusting | Tilt Fine |
| 3 | Dimmer | 0->255 | Dimmer |
| 4 | Dimmer Fine | 0->255 | Dimmer Fine |
| 5 | MainShutter | 0->4 OFF<br>5->9 Single flash each time value is changed within range 005->009<br>10->39 Pluse Slow->Fast<br>40->69 Opening pulse slow->fast<br>70->99 Closing pulse slow->fast<br>100->129 Double flash(0~10Hz)<br>130->159 Random pixel strobe slow->fast<br>160->199 Random all strobe slow->fast<br>200->250 strobe sync all pixels slow->fast<br>251->255 Open | Shutter |
| 6 | EdgeShutter | 0->4 OFF<br>5->9 Single flash each time value is changed within range 005->009<br>10->39 Pluse Slow->Fast<br>40->69 Opening pulse slow->fast<br>70->99 Closing pulse slow->fast<br>100->129 Double flash(0~10Hz)<br>130->159 Random pixel strobe slow->fast<br>160->199 Random all strobe slow->fast<br>200->250 strobe sync all pixels slow->fast<br>251->255 Open | |
| 7 | Zoom | 0->255 (narrow->wide) | |
| 8 | Ctrl | See "Control Settings channel" table | Control/Settings |
| 9 | MainDimmer | 0->255 | Main Dimmer |
| 10 | MainRed | 0->255 | Main Red |
| 11 | MainGre | 0->255 | Main Green |
| 12 | MainBlu | 0->255 | Main Blue |
| 13 | MainWhi | 0->255 | Main White |
| 14 | MainCTC | 0 No Function<br>1 CCT 8000K<br>2->83 CCT 7979K->6222K<br>84 CCT 6200K<br>85->111 CCT 6178K->5621K<br>112 CCT 5600K<br>113->175 CCT 5579K->4223K<br>176 CCT 4200K<br>177->222 CCT 4181K->3221K<br>223 CCT 3200K<br>224->254 CCT 3179K->2521K<br>255 CCT 2500K | |
| | | 0->7 None<br>8->9 ColorEff1 10->11 ColorEff2 12->13 ColorEff3 14->15 ColorEff4<br>16->17 ColorEff5 18->19 ColorEff6 20->21 ColorEff7 22->23 ColorEff8<br>24->25 ColorEff9 26->27 ColorEff10 28->29 ColorEff11 30->31 ColorEff12<br>32->33 ColorEff13 34->35 ColorEff14 36->37 ColorEff15 38->39 ColorEff16<br>40->41 ColorEff17 42->43 ColorEff18 44->45 ColorEff19 46->47 ColorEff20<br>48->49 ColorEff21 50->51 ColorEff22 52->53 ColorEff23 54->55 ColorEff24<br>56->57 ColorEff25 58->59 ColorEff26 60->61 ColorEff27 62->63 ColorEff28<br>64->65 ColorEff29 66->67 ColorEff30 68->69 ColorEff31 70->71 ColorEff32<br>72->73 ColorEff33 74->75 ColorEff34 76->77 ColorEff35 78->79 ColorEff36<br>80->81 ColorEff37 82->83 ColorEff38 84->85 ColorEff39 86->87 ColorEff40<br>88->89 ColorEff41 90->235 ColorEff1 to ColorEff41 Loop<br>236->245 Color Random Point ( Range:1-10 )<br>246->255 Random Point(Range: 1-10) | |
| 16 | MainEffSpd | 0->7 Static<br>8->255 Speed Slow To Fast(3s->0s) | Main Effect Speed Adjusting |
| 17 | MainEffOfst | 0->15 Shape Forward Moving<br>16->31 Shape Backward Moving<br>32->47 Shape Bounce Moving<br>48->159 Reserve<br>160->255 static sub Shape<br>(This Function will be effective when it has many sub Shape) | Main Effect Offset |

| | | | |
|---|---|---|---|
| 18 | MainEffTrans | 0->3 Fade In Fade Out<br>4->7 Fade In<br>8->11 Fade Out<br>12->15 None<br>16-255 Shadow(0s->8s) | Main Effect transition |
| 19 | MainBkg Dimmer | 0->255 | Main Effect Background Dimmer |
| 20 | MainBkgRed | 0->255 | |
| 21 | MainBkgGre | 0->255 | |
| 22 | MainBkgBlu | 0->255 | |
| 23 | MainBkgWhi | 0->255 | |
| 24 | EdgeDimmer | 0->255 | |
| 25 | EdgeRed | 0->255 | |
| 26 | EdgeGre | 0->255 | |
| 27 | EdgeBlu | 0->255 | |
| 28 | EdgeCW | 0->255 | |
| 29 | EdgeWW | 0->255 | |
| 30 | EdgeWW | 0 No Function<br>1 10000K<br>2 ->70 9971K->8044K<br>71->72 8000K<br>73->123 7959K->6541K<br>124->125 6500K<br>126->155 6485K->5634K<br>156->157 5600K<br>158->201 5549K->4330K<br>202->203 4300K<br>204->239 4274K->3225K<br>240->241 3200K<br>242->254 3168K->2828K<br>255 2800K | |
| 31 | EdgeEffSel | 0->7 None<br>8->9 ColorEff1 10->11 ColorEff2 12->13 ColorEff3 14->15 ColorEff4<br>16->17 ColorEff5 18->19 ColorEff6 20->21 ColorEff7 22->23 ColorEff8<br>24->25 ColorEff9 26->27 ColorEff10 28->29 ColorEff11 30->31 ColorEff12<br>32->33 ColorEff13 34->35 ColorEff14 36->37 ColorEff15 38->39 ColorEff16<br>40->41 ColorEff17 42->43 ColorEff18 44->45 ColorEff19 46->47 ColorEff20<br>48->49 ColorEff21 50->51 ColorEff22 52->53 ColorEff23 54->55 ColorEff24<br>56->57 ColorEff25 58->59 ColorEff26 60->61 ColorEff27 62->63 ColorEff28<br>64->65 ColorEff29 66->67 ColorEff30 68->69 ColorEff31 70->71 ColorEff32<br>72->73 ColorEff33 74->75 ColorEff34 76->77 ColorEff35 78->79 ColorEff36<br>80->81 ColorEff37 82->83 ColorEff38 84->85 ColorEff39 86->87 ColorEff40<br>88->89 ColorEff41 90->91 ColorEff42 92->93 ColorEff43 94->95 ColorEff44<br>96->97 ColorEff45 98->99 ColorEff46<br>100->215 ColorEff1 to ColorEff46 Loop<br>216->235 Color Random Point (Range:1-20)<br>236->255 Random Point (Range: 1-20) | Edge Effect Selection |
| 32 | EdgeEffSpd | 0->7 Static<br>8->255 Speed Slow To Fast(3s->0s) | Edge Effect Speed Adjusting |
| 33 | EdgeEffOfst | 0->15 Shape Forward Moving<br>16->31 Shape Backward Moving<br>32->47 Shape Bounce Moving<br>48->159 Reserve<br>160->255 static sub Shape<br>(This Function will be effective when it has many sub Shape) | Edge Effect Offset |
| 34 | EdgeEffTrans | 0->3 Fade In Fade Out<br>4->7 Fade In<br>8->11 Fade Out<br>12->15 None<br>16-255 Shadow(0s->8s) | Edge Effect transition |
| 35 | EdgeBkg Dimmer | 0->255 | Edge Effect Background Dimmer |

| | | | |
|---|---|---|---|
| 36 | EdgeBkgRed | 0->255 | Edge Effect Background Red |
| 37 | EdgeBkgGre | 0->255 | Edge Effect Background Green |
| 38 | EdgeBkgBlu | 0->255 | Edge Effect Background Blue |
| 39 | EdgeBkgCw | 0->255 | Edge Effect Background Cold White |
| 40 | EdgeBkgWw | 0->255 | Edge Effect Background Warm White |

## Mode 3 :

| ID | Specific | Value | Description |
|---|---|---|---|
| 1 | Tilt | 0->255 Tilt Adjusting | Tilt |
| 2 | Tilt Fine | 0->255 Tilt Fine Adjusting | Tilt Fine |
| 3 | Dimmer | 0->255 | Dimmer |
| 4 | Dimmer Fine | 0->255 | Dimmer Fine |
| 5 | MainShutter | 0->4 OFF<br>5->9 Single flash each time value is changed within range 005->009<br>10->39 Pluse Slow->Fast<br>40->69 Opening pulse slow->fast<br>70->99 Closing pulse slow->fast<br>100->129 Double flash(0~10Hz)<br>130->159 Random pixel strobe slow->fast<br>160->199 Random all strobe slow->fast<br>200->250 strobe sync all pixels slow->fast<br>251->255 Open | Shutter |
| 6 | EdgeShutter | 0->4 OFF<br>5->9 Single flash each time value is changed within range 005->009<br>10->39 Pluse Slow->Fast<br>40->69 Opening pulse slow->fast<br>70->99 Closing pulse slow->fast<br>100->129 Double flash(0~10Hz)<br>130->159 Random pixel strobe slow->fast<br>160->199 Random all strobe slow->fast<br>200->250 strobe sync all pixels slow->fast<br>251->255 Open | |
| 7 | Zoom | 0->255 (narrow->wide) | |
| 8 | Ctrl | See "Control Settings channel" table | |
| 9 | MainClrP1 R | 0->255 | |
| 10 | MainClrP1 G | 0->255 | |
| 11 | MainClrP1 B | 0->255 | |
| 12 | MainClrP1 W | 0->255 | |
| 13 | MainClrP2 R | 0->255 | |
| 14 | MainClrP2 G | 0->255 | |
| 15 | MainClrP2 B | 0->255 | |
| 16 | MainClrP2 W | 0->255 | |
| 17 | MainClrP3 R | 0->255 | |
| 18 | MainClrP3 G | 0->255 | |
| 19 | MainClrP3 B | 0->255 | |
| 20 | MainClrP3 W | 0->255 | |
| 21 | MainClrP4 R | 0->255 | |
| 22 | MainClrP4 G | 0->255 | |
| 23 | MainClrP4 B | 0->255 | |
| 24 | MainClrP4 W | 0->255 | |
| 25 | MainClrP5 R | 0->255 | |
| 26 | MainClrP5 G | 0->255 | |
| 27 | MainClrP5 B | 0->255 | |
| 28 | MainClrP5 W | 0->255 | |
| 29 | MainClrP6 R | 0->255 | |
| 30 | MainClrP6 G | 0->255 | |
| 31 | MainClrP6 B | 0->255 | |
| 32 | MainClrP6 W | 0->255 | |
| 33 | MainClrP7 R | 0->255 | |
| 34 | MainClrP7 G | 0->255 | |
| 35 | MainClrP7 B | 0->255 | |

| | | | |
|---|---|---|---|
| 36 | MainClrP7 W | 0->255 | |
| 37 | MainClrP8 R | 0->255 | |
| 38 | MainClrP8 G | 0->255 | |
| 39 | MainClrP8 B | 0->255 | |
| 40 | MainClrP8 W | 0->255 | |
| 41 | MainClrP9 R | 0->255 | |
| 42 | MainClrP9 G | 0->255 | |
| 43 | MainClrP9 B | 0->255 | |
| 44 | MainClrP9 W | 0->255 | |
| 45 | MainClrP10 R | 0->255 | |
| 46 | MainClrP10 G | 0->255 | |
| 47 | MainClrP10 B | 0->255 | |
| 48 | MainClrP10 W | 0->255 | |
| 49 | Edge W1 CW | 0->255 | |
| 50 | Edge W1 WW | 0->255 | |
| 51 | Edge W2 CW | 0->255 | |
| 52 | Edge W2 WW | 0->255 | |
| 53 | Edge W3 CW | 0->255 | |
| 54 | Edge W3 WW | 0->255 | |
| 55 | Edge W4 CW | 0->255 | |
| 56 | Edge W4 WW | 0->255 | |
| 57 | Edge W5 CW | 0->255 | |
| 58 | Edge W5 WW | 0->255 | |
| 59 | Edge W6 CW | 0->255 | |
| 60 | Edge W6 WW | 0->255 | |
| 61 | Edge W7 CW | 0->255 | |
| 62 | Edge W7 WW | 0->255 | |
| 63 | Edge W8 CW | 0->255 | |
| 64 | Edge W8 WW | 0->255 | |
| 65 | Edge W9 CW | 0->255 | |
| 66 | Edge W9 WW | 0->255 | |
| 67 | Edge W10 CW | 0->255 | |
| 68 | Edge W10 WW | 0->255 | |
| 69 | Edge W11 CW | 0->255 | |
| 70 | Edge W11 WW | 0->255 | |
| 71 | Edge W12 CW | 0->255 | |
| 72 | Edge W12 WW | 0->255 | |
| 73 | Edge W13 CW | 0->255 | |
| 74 | Edge W13 WW | 0->255 | |
| 75 | Edge W14 CW | 0->255 | |
| 76 | Edge W14 WW | 0->255 | |
| 77 | Edge W15 CW | 0->255 | |
| 78 | Edge W15 WW | 0->255 | |
| 79 | Edge W16 CW | 0->255 | |
| 80 | Edge W16 WW | 0->255 | |
| 81 | Edge W17 CW | 0->255 | |
| 82 | Edge W17 WW | 0->255 | |
| 83 | Edge W18 CW | 0->255 | |
| 84 | Edge W18 WW | 0->255 | |
| 85 | Edge W19 CW | 0->255 | |
| 86 | Edge W19 WW | 0->255 | |
| 87 | Edge W20 CW | 0->255 | |
| 88 | Edge W20 WW | 0->255 | |
| 89 | EdgeRed | 0->255 | |
| 90 | EdgeGre | 0->255 | |
| 91 | EdgeBlu | 0->255 | |

Mode 4 :

| ID | Specific | Value | Description |
|---|---|---|---|
| 1 | Tilt | 0->255 Tilt Adjusting | Tilt |
| 2 | Tilt Fine | 0->255 Tilt Fine Adjusting | Tilt Fine |
| 3 | Dimmer | 0->255 | Dimmer |
| 4 | Dimmer Fine | 0->255 | Dimmer Fine |
| 5 | MainShutter | 0->4 OFF<br>5->9 Single flash each time value is changed within range 005->009<br>10->39 Pluse Slow->Fast<br>40->69 Opening pulse slow->fast<br>70->99 Closing pulse slow->fast<br>100->129 Double flash(0~10Hz)<br>130->159 Random pixel strobe slow->fast<br>160->199 Random all strobe slow->fast<br>200->250 strobe sync all pixels slow->fast<br>251->255 Open | MainShutter |
| 6 | EdgeShutter | 0->4 OFF<br>5->9 Single flash each time value is changed within range 005->009<br>10->39 Pluse Slow->Fast<br>40->69 Opening pulse slow->fast<br>70->99 Closing pulse slow->fast<br>100->129 Double flash(0~10Hz)<br>130->159 Random pixel strobe slow->fast<br>160->199 Random all strobe slow->fast<br>200->250 strobe sync all pixels slow->fast<br>251->255 Open | EdgeShutter |
| 7 | Zoom | 0->255 (narrow->wide) | |
| 8 | Ctrl | See "Control Settings channel" table | |
| 9 | MainClrP1 R | 0->255 | |
| 10 | MainClrP1 G | 0->255 | |
| 11 | MainClrP1 B | 0->255 | |
| 12 | MainClrP1 W | 0->255 | |
| 13 | MainClrP2 R | 0->255 | |
| 14 | MainClrP2 G | 0->255 | |
| 15 | MainClrP2 B | 0->255 | |
| 16 | MainClrP2 W | 0->255 | |
| 17 | MainClrP3 R | 0->255 | |
| 18 | MainClrP3 G | 0->255 | |
| 19 | MainClrP3 B | 0->255 | |
| 20 | MainClrP3 W | 0->255 | |
| 21 | MainClrP4 R | 0->255 | |
| 22 | MainClrP4 G | 0->255 | |
| 23 | MainClrP4 B | 0->255 | |
| 24 | MainClrP4 W | 0->255 | |
| 25 | MainClrP5 R | 0->255 | |
| 26 | MainClrP5 G | 0->255 | |
| 27 | MainClrP5 B | 0->255 | |
| 28 | MainClrP5 W | 0->255 | |
| 29 | MainClrP6 R | 0->255 | |
| 30 | MainClrP6 G | 0->255 | |
| 31 | MainClrP6 B | 0->255 | |
| 32 | MainClrP6 W | 0->255 | |
| 33 | MainClrP7 R | 0->255 | |
| 34 | MainClrP7 G | 0->255 | |
| 35 | MainClrP7 B | 0->255 | |
| 36 | MainClrP7 W | 0->255 | |
| 37 | MainClrP8 R | 0->255 | |

| | | | |
|---|---|---|---|
| 38 | MainClrP8 G | 0->255 | |
| 39 | MainClrP8 B | 0->255 | |
| 40 | MainClrP8 W | 0->255 | |
| 41 | MainClrP9 R | 0->255 | |
| 42 | MainClrP9 G | 0->255 | |
| 43 | MainClrP9 B | 0->255 | |
| 44 | MainClrP9 W | 0->255 | |
| 45 | MainClrP10 R | 0->255 | |
| 46 | MainClrP10 G | 0->255 | |
| 47 | MainClrP10 B | 0->255 | |
| 48 | MainClrP10 W | 0->255 | |
| 49 | Edge W1 CW | 0->255 | |
| 50 | Edge W1 WW | 0->255 | |
| 51 | Edge W2 CW | 0->255 | |
| 52 | Edge W2 WW | 0->255 | |
| 53 | Edge W3 CW | 0->255 | |
| 54 | Edge W3 WW | 0->255 | |
| 55 | Edge W4 CW | 0->255 | |
| 56 | Edge W4 WW | 0->255 | |
| 57 | Edge W5 CW | 0->255 | |
| 58 | Edge W5 WW | 0->255 | |
| 59 | Edge W6 CW | 0->255 | |
| 60 | Edge W6 WW | 0->255 | |
| 61 | Edge W7 CW | 0->255 | |
| 62 | Edge W7 WW | 0->255 | |
| 63 | Edge W8 CW | 0->255 | |
| 64 | Edge W8 WW | 0->255 | |
| 65 | Edge W9 CW | 0->255 | |
| 66 | Edge W9 WW | 0->255 | |
| 67 | Edge W10 CW | 0->255 | |
| 68 | Edge W10 WW | 0->255 | |
| 69 | Edge C1 R | 0->255 | |
| 70 | Edge C1 G | 0->255 | |
| 71 | Edge C1 B | 0->255 | |
| 72 | Edge C2 R | 0->255 | |
| 73 | Edge C2 G | 0->255 | |
| 74 | Edge C2 B | 0->255 | |
| 75 | Edge C3 R | 0->255 | |
| 76 | Edge C3 G | 0->255 | |
| 77 | Edge C3 B | 0->255 | |
| 78 | Edge C4 R | 0->255 | |
| 79 | Edge C4 G | 0->255 | |
| 80 | Edge C4 B | 0->255 | |
| 81 | Edge C5 R | 0->255 | |
| 82 | Edge C5 G | 0->255 | |
| 83 | Edge C5 B | 0->255 | |
| 84 | Edge C6 R | 0->255 | |
| 85 | Edge C6 G | 0->255 | |
| 86 | Edge C6 B | 0->255 | |
| 87 | Edge C7 R | 0->255 | |
| 88 | Edge C7 G | 0->255 | |
| 89 | Edge C7 B | 0->255 | |
| 90 | Edge C8 R | 0->255 | |
| 91 | Edge C8 G | 0->255 | |
| 92 | Edge C8 B | 0->255 | |
| 93 | Edge C9 R | 0->255 | |
| 94 | Edge C9 G | 0->255 | |
| 95 | Edge C9 B | 0->255 | |
| 96 | Edge C10 R | 0->255 | |
| 97 | Edge C10 G | 0->255 | |
| 98 | Edge C10 B | 0->255 | |

Mode 5 :

| ID | Specific | Value | Description |
|---|---|---|---|
| 1 | Tilt | 0->255 Tilt Adjusting | Tilt |
| 2 | Tilt Fine | 0->255 Tilt Fine Adjusting | Tilt Fine |
| 3 | Dimmer | 0->255 | Dimmer |
| 4 | Dimmer Fine | 0->255 | Dimmer Fine |
| 5 | MainShutter | 0->4 OFF<br>5->9 Single flash each time value is changed within range 005->009<br>10->39 Pluse Slow->Fast<br>40->69 Opening pulse slow->fast<br>70->99 Closing pulse slow->fast<br>100->129 Double flash(0~10Hz)<br>130->159 Random pixel strobe slow->fast<br>160->199 Random all strobe slow->fast<br>200->250 strobe sync all pixels slow->fast<br>251->255 Open | Shutter |
| 6 | EdgeShutter | 0->4 OFF<br>5->9 Single flash each time value is changed within range 005->009<br>10->39 Pluse Slow->Fast<br>40->69 Opening pulse slow->fast<br>70->99 Closing pulse slow->fast<br>100->129 Double flash(0~10Hz)<br>130->159 Random pixel strobe slow->fast<br>160->199 Random all strobe slow->fast<br>200->250 strobe sync all pixels slow->fast<br>251->255 Open | |
| 7 | Zoom | 0->255 (narrow->wide) | |
| 8 | Ctrl | See "Control Settings channel" table | |
| 9 | MainClrP1 R | 0->255 | |
| 10 | MainClrP1 G | 0->255 | |
| 11 | MainClrP1 B | 0->255 | |
| 12 | MainClrP1 W | 0->255 | |
| 13 | MainClrP2 R | 0->255 | |
| 14 | MainClrP2 G | 0->255 | |
| 15 | MainClrP2 B | 0->255 | |
| 16 | MainClrP2 W | 0->255 | |
| 17 | MainClrP3 R | 0->255 | |
| 18 | MainClrP3 G | 0->255 | |
| 19 | MainClrP3 B | 0->255 | |
| 20 | MainClrP3 W | 0->255 | |
| 21 | MainClrP4 R | 0->255 | |
| 22 | MainClrP4 G | 0->255 | |
| 23 | MainClrP4 B | 0->255 | |
| 24 | MainClrP4 W | 0->255 | |
| 25 | MainClrP5 R | 0->255 | |
| 26 | MainClrP5 G | 0->255 | |
| 27 | MainClrP5 B | 0->255 | |
| 28 | MainClrP5 W | 0->255 | |
| 29 | MainClrP6 R | 0->255 | |
| 30 | MainClrP6 G | 0->255 | |
| 31 | MainClrP6 B | 0->255 | |
| 32 | MainClrP6 W | 0->255 | |
| 33 | MainClrP7 R | 0->255 | |
| 34 | MainClrP7 G | 0->255 | |
| 35 | MainClrP7 B | 0->255 | |
| 36 | MainClrP7 W | 0->255 | |
| 37 | MainClrP8 R | 0->255 | |
| 38 | MainClrP8 G | 0->255 | |
| 39 | MainClrP8 B | 0->255 | |
| 40 | MainClrP8 W | 0->255 | |

| | | | |
|---|---|---|---|
| 41 | MainClrP9 R | 0->255 | |
| 42 | MainClrP9 G | 0->255 | |
| 43 | MainClrP9 B | 0->255 | |
| 44 | MainClrP9 W | 0->255 | |
| 45 | MainClrP10 R | 0->255 | |
| 46 | MainClrP10 G | 0->255 | |
| 47 | MainClrP10 B | 0->255 | |
| 48 | MainClrP10 W | 0->255 | |
| 49 | Edge W1 CW | 0->255 | |
| 50 | Edge W1 WW | 0->255 | |
| 51 | Edge W2 CW | 0->255 | |
| 52 | Edge W2 WW | 0->255 | |
| 53 | Edge W3 CW | 0->255 | |
| 54 | Edge W3 WW | 0->255 | |
| 55 | Edge W4 CW | 0->255 | |
| 56 | Edge W4 WW | 0->255 | |
| 57 | Edge W5 CW | 0->255 | |
| 58 | Edge W5 WW | 0->255 | |
| 59 | Edge W6 CW | 0->255 | |
| 60 | Edge W6 WW | 0->255 | |
| 61 | Edge W7 CW | 0->255 | |
| 62 | Edge W7 WW | 0->255 | |
| 63 | Edge W8 CW | 0->255 | |
| 64 | Edge W8 WW | 0->255 | |
| 65 | Edge W9 CW | 0->255 | |
| 66 | Edge W9 WW | 0->255 | |
| 67 | Edge W10 CW | 0->255 | |
| 68 | Edge W10 WW | 0->255 | |
| 69 | Edge W11 CW | 0->255 | |
| 70 | Edge W11 WW | 0->255 | |
| 71 | Edge W12 CW | 0->255 | |
| 72 | Edge W12 WW | 0->255 | |
| 73 | Edge W13 CW | 0->255 | |
| 74 | Edge W13 WW | 0->255 | |
| 75 | Edge W14 CW | 0->255 | |
| 76 | Edge W14 WW | 0->255 | |
| 77 | Edge W15 CW | 0->255 | |
| 78 | Edge W15 WW | 0->255 | |
| 79 | Edge W16 CW | 0->255 | |
| 80 | Edge W16 WW | 0->255 | |
| 81 | Edge W17 CW | 0->255 | |
| 82 | Edge W17 WW | 0->255 | |
| 83 | Edge W18 CW | 0->255 | |
| 84 | Edge W18 WW | 0->255 | |
| 85 | Edge W19 CW | 0->255 | |
| 86 | Edge W19 WW | 0->255 | |
| 87 | Edge W20 CW | 0->255 | |
| 88 | Edge W20 WW | 0->255 | |
| 89 | Edge C1 R | 0->255 | |
| 90 | Edge C1 G | 0->255 | |
| 91 | Edge C1 B | 0->255 | |
| 92 | Edge C2 R | 0->255 | |
| 93 | Edge C2 G | 0->255 | |
| 94 | Edge C2 B | 0->255 | |
| 95 | Edge C3 R | 0->255 | |
| 96 | Edge C3 G | 0->255 | |
| 97 | Edge C3 B | 0->255 | |
| 98 | Edge C4 R | 0->255 | |
| 99 | Edge C4 G | 0->255 | |
| 100 | Edge C4 B | 0->255 | |

| | | | |
|---|---|---|---|
| 101 | Edge C5 R | 0->255 | |
| 102 | Edge C5 G | 0->255 | |
| 103 | Edge C5 B | 0->255 | |
| 104 | Edge C6 R | 0->255 | |
| 105 | Edge C6 G | 0->255 | |
| 106 | Edge C6 B | 0->255 | |
| 107 | Edge C7 R | 0->255 | |
| 108 | Edge C7 G | 0->255 | |
| 109 | Edge C7 B | 0->255 | |
| 110 | Edge C8 R | 0->255 | |
| 111 | Edge C8 G | 0->255 | |
| 112 | Edge C8 B | 0->255 | |
| 113 | Edge C9 R | 0->255 | |
| 114 | Edge C9 G | 0->255 | |
| 115 | Edge C9 B | 0->255 | |
| 116 | Edge C10 R | 0->255 | |
| 117 | Edge C10 G | 0->255 | |
| 118 | Edge C10 B | 0->255 | |
| 119 | Edge C11 R | 0->255 | |
| 120 | Edge C11 G | 0->255 | |
| 121 | Edge C11 B | 0->255 | |
| 122 | Edge C12 R | 0->255 | |
| 123 | Edge C12 G | 0->255 | |
| 124 | Edge C12 B | 0->255 | |
| 125 | Edge C13 R | 0->255 | |
| 126 | Edge C13 G | 0->255 | |
| 127 | Edge C13 B | 0->255 | |
| 128 | Edge C14 R | 0->255 | |
| 129 | Edge C14 G | 0->255 | |
| 130 | Edge C14 B | 0->255 | |
| 131 | Edge C15 R | 0->255 | |
| 132 | Edge C15 G | 0->255 | |
| 133 | Edge C15 B | 0->255 | |
| 134 | Edge C16 R | 0->255 | |
| 135 | Edge C16 G | 0->255 | |
| 136 | Edge C16 B | 0->255 | |
| 137 | Edge C17 R | 0->255 | |
| 138 | Edge C17 G | 0->255 | |
| 139 | Edge C17 B | 0->255 | |
| 140 | Edge C18 R | 0->255 | |
| 141 | Edge C18 G | 0->255 | |
| 142 | Edge C18 B | 0->255 | |
| 143 | Edge C19 R | 0->255 | |
| 144 | Edge C19 G | 0->255 | |
| 145 | Edge C19 B | 0->255 | |
| 146 | Edge C20 R | 0->255 | |
| 147 | Edge C20 G | 0->255 | |
| 148 | Edge C20 B | 0->255 | |

Mode 6 :

| ID | Specific | Value | Description |
|---|---|---|---|
| 1 | Tilt | 0->255 Tilt Adjusting | Tilt |
| 2 | Tilt Fine | 0->255 Tilt Fine Adjusting | Tilt Fine |
| 3 | Dimmer | 0->255 | Dimmer |
| 4 | Dimmer Fine | 0->255 | Dimmer Fine |
| 5 | MainShutter | 0->4 OFF<br>5->9 Single flash each time value is changed within range 005->009<br>10->39 Pluse Slow->Fast<br>40->69 Opening pulse slow->fast<br>70->99 Closing pulse slow->fast<br>100->129 Double flash(0~10Hz)<br>130->159 Random pixel strobe slow->fast<br>160->199 Random all strobe slow->fast<br>200->250 strobe sync all pixels slow->fast<br>251->255 Open | Shutter |
| 6 | EdgeShutter | 0->4 OFF<br>5->9 Single flash each time value is changed within range 005->009<br>10->39 Pluse Slow->Fast<br>40->69 Opening pulse slow->fast<br>70->99 Closing pulse slow->fast<br>100->129 Double flash(0~10Hz)<br>130->159 Random pixel strobe slow->fast<br>160->199 Random all strobe slow->fast<br>200->250 strobe sync all pixels slow->fast<br>251->255 Open | |
| 7 | Zoom | 0->255 (narrow->wide) | |
| 8 | Ctrl | See "Control Settings channel" table | |
| 9 | MainClrP1 R | 0->255 | |
| 10 | MainClrP1 G | 0->255 | |
| 11 | MainClrP1 B | 0->255 | |
| 12 | MainClrP1 W | 0->255 | |
| 13 | MainClrP2 R | 0->255 | |
| 14 | MainClrP2 G | 0->255 | |
| 15 | MainClrP2 B | 0->255 | |
| 16 | MainClrP2 W | 0->255 | |
| 17 | MainClrP3 R | 0->255 | |
| 18 | MainClrP3 G | 0->255 | |
| 19 | MainClrP3 B | 0->255 | |
| 20 | MainClrP3 W | 0->255 | |
| 21 | MainClrP4 R | 0->255 | |
| 22 | MainClrP4 G | 0->255 | |
| 23 | MainClrP4 B | 0->255 | |
| 24 | MainClrP4 W | 0->255 | |
| 25 | MainClrP5 R | 0->255 | |
| 26 | MainClrP5 G | 0->255 | |
| 27 | MainClrP5 B | 0->255 | |
| 28 | MainClrP5 W | 0->255 | |
| 29 | MainClrP6 R | 0->255 | |
| 30 | MainClrP6 G | 0->255 | |
| 31 | MainClrP6 B | 0->255 | |
| 32 | MainClrP6 W | 0->255 | |
| 33 | MainClrP7 R | 0->255 | |
| 34 | MainClrP7 G | 0->255 | |
| 35 | MainClrP7 B | 0->255 | |
| 36 | MainClrP7 W | 0->255 | |
| 37 | MainClrP8 R | 0->255 | |
| 38 | MainClrP8 G | 0->255 | |
| 39 | MainClrP8 B | 0->255 | |

| | | | |
|---|---|---|---|
| 40 | MainClrP8 W | 0->255 | |
| 41 | MainClrP9 R | 0->255 | |
| 42 | MainClrP9 G | 0->255 | |
| 43 | MainClrP9 B | 0->255 | |
| 44 | MainClrP9 W | 0->255 | |
| 45 | MainClrP10 R | 0->255 | |
| 46 | MainClrP10 G | 0->255 | |
| 47 | MainClrP10 B | 0->255 | |
| 48 | MainClrP10 W | 0->255 | |
| 49 | Edge W1 CW | 0->255 | |
| 50 | Edge W1 WW | 0->255 | |
| 51 | Edge W2 CW | 0->255 | |
| 52 | Edge W2 WW | 0->255 | |
| 53 | Edge W3 CW | 0->255 | |
| 54 | Edge W3 WW | 0->255 | |
| 55 | Edge W4 CW | 0->255 | |
| 56 | Edge W4 WW | 0->255 | |
| 57 | Edge W5 CW | 0->255 | |
| 58 | Edge W5 WW | 0->255 | |
| 59 | Edge W6 CW | 0->255 | |
| 60 | Edge W6 WW | 0->255 | |
| 61 | Edge W7 CW | 0->255 | |
| 62 | Edge W7 WW | 0->255 | |
| 63 | Edge W8 CW | 0->255 | |
| 64 | Edge W8 WW | 0->255 | |
| 65 | Edge W9 CW | 0->255 | |
| 66 | Edge W9 WW | 0->255 | |
| 67 | Edge W10 CW | 0->255 | |
| 68 | Edge W10 WW | 0->255 | |
| 69 | Edge W11 CW | 0->255 | |
| 70 | Edge W11 WW | 0->255 | |
| 71 | Edge W12 CW | 0->255 | |
| 72 | Edge W12 WW | 0->255 | |
| 73 | Edge W13 CW | 0->255 | |
| 74 | Edge W13 WW | 0->255 | |
| 75 | Edge W14 CW | 0->255 | |
| 76 | Edge W14 WW | 0->255 | |
| 77 | Edge W15 CW | 0->255 | |
| 78 | Edge W15 WW | 0->255 | |
| 79 | Edge W16 CW | 0->255 | |
| 80 | Edge W16 WW | 0->255 | |
| 81 | Edge W17 CW | 0->255 | |
| 82 | Edge W17 WW | 0->255 | |
| 83 | Edge W18 CW | 0->255 | |
| 84 | Edge W18 WW | 0->255 | |
| 85 | Edge W19 CW | 0->255 | |
| 86 | Edge W19 WW | 0->255 | |
| 87 | Edge W20 CW | 0->255 | |
| 88 | Edge W20 WW | 0->255 | |
| 89 | Edge C1 R | 0->255 | |
| 90 | Edge C1 G | 0->255 | |
| 91 | Edge C1 B | 0->255 | |
| 92 | Edge C2 R | 0->255 | |
| 93 | Edge C2 G | 0->255 | |
| 94 | Edge C2 B | 0->255 | |
| 95 | Edge C3 R | 0->255 | |
| 96 | Edge C3 G | 0->255 | |
| 97 | Edge C3 B | 0->255 | |
| 98 | Edge C4 R | 0->255 | |

| | | | |
|---|---|---|---|
| 99 | Edge C4 G | 0->255 | |
| 100 | Edge C4 B | 0->255 | |
| 101 | Edge C5 R | 0->255 | |
| 102 | Edge C5 G | 0->255 | |
| 103 | Edge C5 B | 0->255 | |
| 104 | Edge C6 R | 0->255 | |
| 105 | Edge C6 G | 0->255 | |
| 106 | Edge C6 B | 0->255 | |
| 107 | Edge C7 R | 0->255 | |
| 108 | Edge C7 G | 0->255 | |
| 109 | Edge C7 B | 0->255 | |
| 110 | Edge C8 R | 0->255 | |
| 111 | Edge C8 G | 0->255 | |
| 112 | Edge C8 B | 0->255 | |
| 113 | Edge C9 R | 0->255 | |
| 114 | Edge C9 G | 0->255 | |
| 115 | Edge C9 B | 0->255 | |
| 116 | Edge C10 R | 0->255 | |
| 117 | Edge C10 G | 0->255 | |
| 118 | Edge C10 B | 0->255 | |
| 119 | Edge C11 R | 0->255 | |
| 120 | Edge C11 G | 0->255 | |
| 121 | Edge C11 B | 0->255 | |
| 122 | Edge C12 R | 0->255 | |
| 123 | Edge C12 G | 0->255 | |
| 124 | Edge C12 B | 0->255 | |
| 125 | Edge C13 R | 0->255 | |
| 126 | Edge C13 G | 0->255 | |
| 127 | Edge C13 B | 0->255 | |
| 128 | Edge C14 R | 0->255 | |
| 129 | Edge C14 G | 0->255 | |
| 130 | Edge C14 B | 0->255 | |
| 131 | Edge C15 R | 0->255 | |
| 132 | Edge C15 G | 0->255 | |
| 133 | Edge C15 B | 0->255 | |
| 134 | Edge C16 R | 0->255 | |
| 135 | Edge C16 G | 0->255 | |
| 136 | Edge C16 B | 0->255 | |
| 137 | Edge C17 R | 0->255 | |
| 138 | Edge C17 G | 0->255 | |
| 139 | Edge C17 B | 0->255 | |
| 140 | Edge C18 R | 0->255 | |
| 141 | Edge C18 G | 0->255 | |
| 142 | Edge C18 B | 0->255 | |
| 143 | Edge C19 R | 0->255 | |
| 144 | Edge C19 G | 0->255 | |
| 145 | Edge C19 B | 0->255 | |
| 146 | Edge C20 R | 0->255 | |
| 147 | Edge C20 G | 0->255 | |
| 148 | Edge C20 B | 0->255 | |

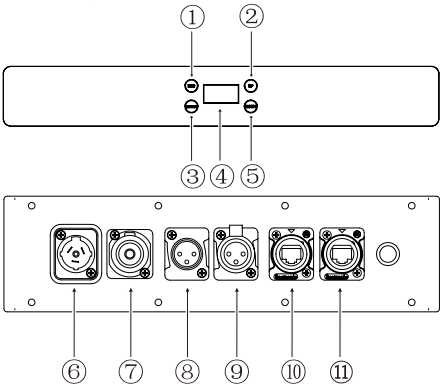
# 4/ Operation chart for the display panel function

| FirstLevel | SecondLevel | ThirdLevel | Option/Value | Default | Description |
|---|---|---|---|---|---|
| Address | DMX Addr | | 1-512 | 1 | DMX Address |
| | Ch Mode | | Stand 25/Mode2 40/Mode3 91/Mode4 98/Mode5 148/Mode6 8+140 | Stand 23 | Channel Mode |
| | RecvMode | | Auto/DMX/ArtNet | Auto | 1.Auto: The device selects signal source automatically;<br>2.DMX: The device only receive DMX Signal;<br>3.ArtNet:The device only receive ArtNet Signal; |
| | Net Setting | | | | |
| | | Net2Dmx | OFF/ON | OFF | ON:The device only receive ArtNet Signal which convert to the DMX signal. |
| | | Net | 0-127 | 0 | ArtNet4 Net |
| | | Sub-Net | 0-15 | 0 | ArtNet4 Sub-Net |
| | | Universe | 0-15 | 0 | ArtNet4 Universe |
| | | ArtNetAddr | 1-512 | 1 | ArtNet Address |
| | | IPAddrA | 0-255 | 2 | IPAddress A |
| | | IPAddrB | 0-255 | 168 | IPAddress B |
| | | IPAddrC | 0-255 | 0 | IPAddress C |
| | | IPAddrD | 0-255 | 2 | IPAddress D |
| | | MaskA | 0-255 | 255 | MaskA |
| | | MaskB | 0-255 | 0 | MaskB |
| | | MaskC | 0-255 | 0 | MaskC |
| | | MaskD | 0-255 | 0 | MaskD |
| Option | Ch Mode | | Stand 25/Mode2 40/Mode3 91/Mode4 98/Mode5 148/Mode6 8+140 | Stand 23 | Channel Mode |
| | PowerMode | | Power/Stand/Theater | Stand | It is maximum power and noise when the value is Power;<br>It is 85% power and lower noise when the value is Stand;<br>It is 70% power and lowest noise when the value is Theater; |
| | DimmCurve | | Default/Power2/Power3/S/Linear | Default | |
| | DimmFreq | | 1.2K/6K/12K/24K | 1.2K | Dimmer freqency |
| | TiltReverse | | OFF/ON | OFF | Tilt Reverse |
| | PixelReverse | | OFF/ON | OFF | LED Pixel Reverse |
| | SpdLevel | | High/Mid/Low | High | Speed Level.The function TBD. |
| | SmoothLev | | Lev0/Lev1/Lev2 | Lev0 | SmoothLevel.The function TBD. |
| | PosFeedback | | ON/OFF | ON | Position Feedback |
| Advance | CheckCode | | | 0 | |
| | | Code1 | 0-255 | 0 | |
| | | Code2 | 0-255 | 0 | |
| | | Code3 | 0-255 | 0 | |
| | | Code4 | 0-255 | | |
| | OffsetAdj | Tilt | -999~999 | 0 | |
| | KeyLock | | ON/OFF | ON | KeyBoard Lock On/Off |
| | Config1 | | Load/Save | Load | User Config1 Load/Save |
| | Config2 | | Load/Save | Load | User Config2 Load/Save |

| | | | | | |
|---|---|---|---|---|---|
| Manual | ChannCtrl | | Channel Function Manual Ctrl | | |
| | DispRev | | Action | Action | Display Screen Reverse |
| | Reset | | | | Reset |
| Info | Fixture | | | | Device short name |
| | DispB Ver | | Version of display board | | |
| | DispB Temp | | Temperation of display board | | |
| | MainB1 Ver | | Version of main board1 | | |
| | MainB2 Ver | | Version of main board2 | | |
| | MainB3 Ver | | Version of main board3 | | |
| | MainB4 Ver | | Version of main board4 | | |
| | MainB Temp | | The most Temperation of main boards | | |
| | ManuID | | 05EF | | Manufactory ID |
| | DeviceID | | 05EFxxxxxx | | Device ID |
| | Clr_Ver | | ColorCorrection Version | | |
| | CCT_Min | | CCT Min | | |
| | CCT_Max | | CCT Max | | |
| | Duv_Min | | Duv Min | | |
| | Duv_Max | | Duv Max | | |
| | SUPPORT_CRI | NoSupport/Support | Cri optimize Support | | |
| | ErrorInfo | | Error Information | | |
| | DMX VAL | | DMX Channel Values | | |

# 5/ The control panel

## 5.1 Control panel introduction




1.Esc
2.Up
3.Enter
4.LCD display
5.Down
6.Power in
7.Power out
8.DMX in
9.DMX out
10.Ethernet in
11.Ethernet out

Fig.(5.1-1)

## 5.2 Control panel Operation introduction

1. Password is required to enter the menu:UP DOWM UP DOWM;When the menu does not operate for 10 seconds, the control interface automatically enters the lock screen interface, requiring a new password to enter the menu.
2. Exit button (ESC): Exit the modification status or return to the previous menu.
3. Confirm button (Enter): enter the menu / save revised value, long press to return to the upper menu.
4. Up button (UP): Scroll up the menu to select the cursor / increase the modified parameter value.
5. Down button (DOWN): Scroll down the menu to select the cursor / reduce the modified parameter value.
6. Menu parameter setting: When the lamp is not connected to the power supply, the menu parameter setting can also be performed. Press and hold the “Exit button” and “OK knob” to start the battery working mode, then you can enter the main menu interface. For details, see the figure ( 5.2-1)

Main Menu Interface

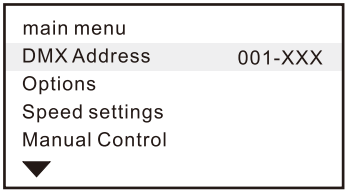



Fig.(5.2-1)

Notice: After entering the menu, the chosen menu is in grey color. Press relative function button to confirm (or by clicking “confirmation” button), then the user can enter in the next menu to edit the value. The user can scroll the function button to the next page (or by choosing up /down).

7. Display Turned: When the lamp is connected to the power supply. First press and hold the “Exit button”,then press the “Enter butter” , then you can turned the main menu reverse 180°.

# 6/ Routine maintenance

This fixture requires routine cleaning. The service life depends on the operating environment heavily. Please kindly contact GUANGZHOU CHAIYI LIGHT CO., LTD for more maintenance information not included in this user's manual.

**Notice:** Excessive dust, smoke fluid and particulate buildup will degrade performance and cause over heating or damage to the fixture that is not covered by the warranty.
**Warning:** Please unplug the fixture before you open any covers.

**Cleaning**
Optical components should be cleaned carefully and lightly. Coating face is easily damaged, do not use harmful solvent so as to avoid damage to plastic parts or coating parts.

**Cleaning optical components**
1. Switch off the fixture and keep it cool completely, then open the cover.
2. Clean the floats by dust collector or compressed.
3. Use cotton paper without smell or cotton cloth soaked with the water, distilled water to wipe the granular thing, don't wipe the surface, float things should be blown away by the pressure gas.
4. Use the cotton cloth or cotton paper without smell soaked with isopropyl alcohol to remove the smoke and other residues. A commercial glass cleaner may be used, but residues must be removed with distilled water. Clean with a slow circular motion from center to edge. Dry with a clean, soft and lint-free cloth or compressed air.

**Cleaning fan and air vents**
Remove dust from the fans and air vents with a soft brush, cotton paper, vacuum, or compressed air.

# 7/ Safety information

The following symbols are used to identify important safety information on the product and in this manual:

**DANGER**!
Safety hazard. Risk of severe injury or death.

**DANGER**!
Refer to manual before installing, powering or servicing.

**DANGER**!
Hazardous voltage. Risk of severe or lethal electric shock.

**Warning**!
Fire hazard.

**Warning**!
Burn hazard. Hot surface. Do not touch.

**Warning**!
Risk of eye injury. Safety glasses must be worn.

**Warning**!
Do not stare at the bulb which is still on.

**Warning**!
Risk of hand injury. Safety gloves must be wore.

Replace any cracked protective shield.


Minimum distance from lighted objects is 0.5m.

Do not direct lens to sun ray or strong light!

Do not actuate during operating.

Luminaries not suitable for direct mounting on normally flammable surfaces (suitable only for mounting on non-combusible surfaces)


The surface's temperature is 64℃.


Rated maximum ambient temperature is 40˚C.

## Protection against explosion

Protection screen must be replaced if they have become visible damaged to such an extent that their effectiveness is impaired.

## Protection against burning or fire

Keep flammable materials far away from the fixture. Minimum distance from the flammable materials is 0.5m.

# 8/ Product Connection

## 8.1 Included items

The fixture is packed with flight case.One single standard flightcase carries 4 fixtures, Included items listed below (shown as table 8.1-1):

| Accessories | QTY | UNIT |
|---|---|---|
| User manual | 1 | PCS |
| Suspension fasteners | 2 | SET |
| Safety wire | 1 | PCS |
| Signal cable | 1 | PCS |
| Power cable | 1 | PCS |

Table(8.1-1)

## 8.2 Power Connection

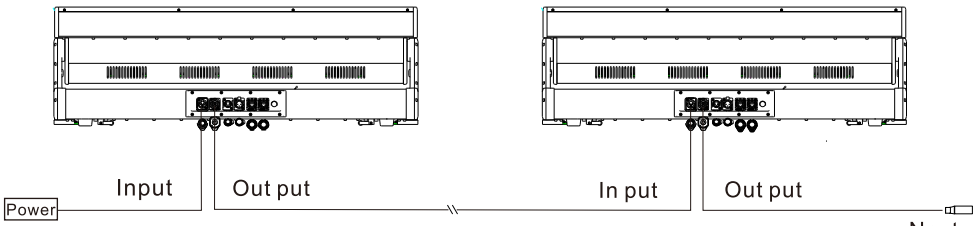
**Notice:** Type X attachment for power supply connection. Method of attachment of the cable or cord such that any replacement can only be made by the manufacturer, his service agent or similarly qualified person.

The person must have the relevant qualification to connect the power supply. The AC power voltage shall be suitable to the lamp provided with over-loading or creepage protection.

1. Connecting the equipment to the power supply, do not connect to silicon box system, or else, it will destroy the equipment.
   The fixture is provided with standard 3-pin socket. Please according to table 8.2-2 connect to power supply, Yellow/green line must be earthed. If you still have any question to the installation, please consultant with the experienced electrician.

| Color | Wire | Mark |
|---|---|---|
| Brown | Live | L |
| Blue | Neutral | N |
| Yellow/Green | Earth | ⏚ |

Table(8.2-1)




Table(8.2-2)

**Notice:** One power cable can only connect up to 2 fixture in series (including the first one)

## 8.3 Signal Connection

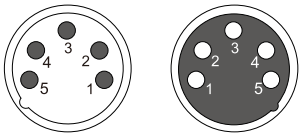
Data linkage for the fixture may be provided by DMX512 connection and wireless linkage (optional).

**DMX connection**

**Note:** The signal cable was type X connection.

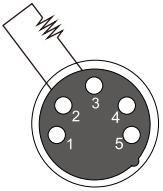
Type X connection—if the external flexible cable or cord of this fixture is damaged, it shall be replaced by a special cord or cord exclusively available from the manufacturer or his service agent.

3-pin or 5pin XLR connecters are provided for fixture DMX input and output. Pin 1 is for earthing, pin 2 is for minus signals, and pin 3 is for plus signals. To prevent and absorb the reflection and interference of the signals, each data link must be ended by a respective terminator.




5-pin XLR connector

Pin1: GND
Pin2: Signal(-)
Pin3: Signal(+)
Pin4:Enpty
Pin5:Enpty




Terminator

Terminator specification: a 120Ω plug-in resistor with rated power of 0.25W, soldered between pin 2 and pin 3 at the end of respective data link.

Fig.(8.3-1)

Connect the fixtures with Max.3 pieces. Make sure to insert the “signal in” terminal in the last connecting fixture. shown in Fig.8.3-2.

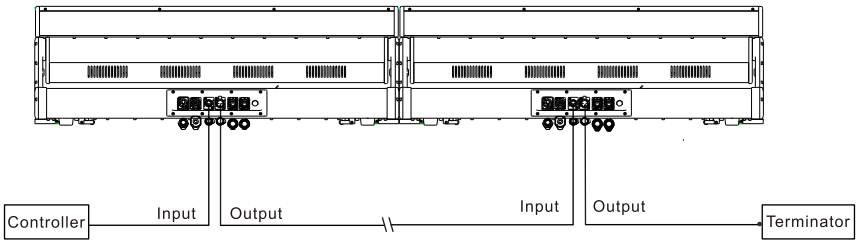



Fig.(8.3-2)

If long-distance data transfer occurs, a DMX512 signal amplifier is necessary. The added amplifier is inserted between the lighting controller and the first fixture on the basis of a normal data link.

**Notice!**

1. No more than one signal input or output can occur in one fixture.
2. Don’t split a data link via output ports on the fixture, use a DMX512 signal amplifier instead, if necessary.
3. Use only shielded-pair cables, and standard microphone cable is not reliable for long-distance data transfer.

**Ethernet connection**

1. The data communication is provided with ART-NET protocol, thus the controlling utilities used in the lighting controller or PC must support such protocol. Art-Net is a kind of 10 base T Ethernet protocol derived from TCP/IP. It allows transmission of enormous DMX512 data over normative network. The maximum transferring speed can reach 10Mb/s.

2. The fixture is provided with 8-pin RJ-45 connector for internet input. Please use class 5 cables and standard RJ-45 connector for internet connection, Shown as Fig.4.3-3.

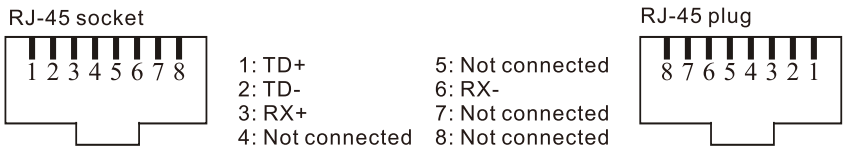



Fig.8.3-3

3. Ethernet setting
   (a) Ethernet receiving mode setup:
   "Personality"→"Receive Mode"→"ENET"
   (b) IP address setup:
   "Personality"→"IP Address A"→"002, 010"
   →"IP Address B"→"xxx (000-255)"
   →"IP Address C"→"xxx (000-255)"
   →"IP Address D"→"xxx (000-255)"
   Type A IP address is configured as default addresses.
   (c) Ethernet node (universe) setup:
   "Personality"→"Universe"→"xxx(000 - 255)"

4. Ethernet connection layout, shown as Fig.8.3-4.

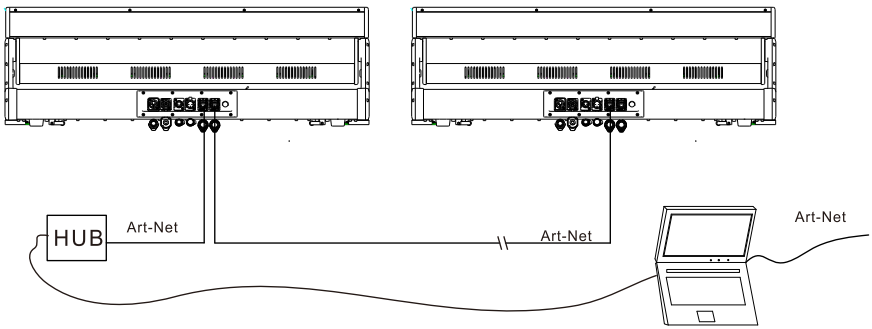



Fig.8.3-4

**Ethernet/DMX512 connection**

The first fixture in the serial link, which is directly connected to the Ethernet network, should be such that the “fixture receiving mode” is set as “ENET→DMX”. The rest fixtures in the link should be set as “DMX” receiving mode. Then connect the output of the said first fixture to the input of a next fixture. Similarly, repeat the above connection till the DMX data link is completed. Shown as Fig. 4.3-5.

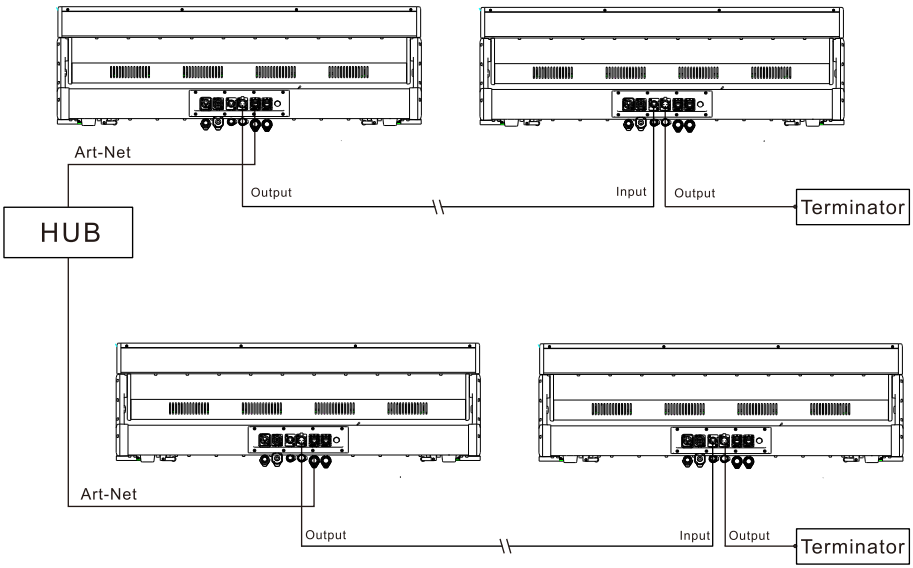



Fig 8.3-5

**Notice:** apply a plug-in terminator to end the DMX data link.

**Wireless transmission (optional)**

1. Customer might choose wireless edition fixture which supports wireless data transmission. Wireless signal control is pretty reliable within a 225m radius empty space, thus no need for physical connection for data transmission. All has to be done is to set up corresponding addresses.
2. 2.4GHz worldwide free frequency band available in wireless control. Such huge frequency band favors users with variable band options.
   (a) Wireless receiving mode setup:
   "Personality"→"Receive Mode"→"WDMX"
   (b) Press emitter button to search preset address within a fixture. When it's done, remotely control a fixture through a controller, Shown as Fig.9.3-3.

**Notice:**

1. Emitter location: Distribute the antenna higher than any barrier on floor as possible.
2. Antenna direction: Emitting antenna points to receiving antenna.
3. Antenna location: far away from the distractions, such as the WLAN antenna.

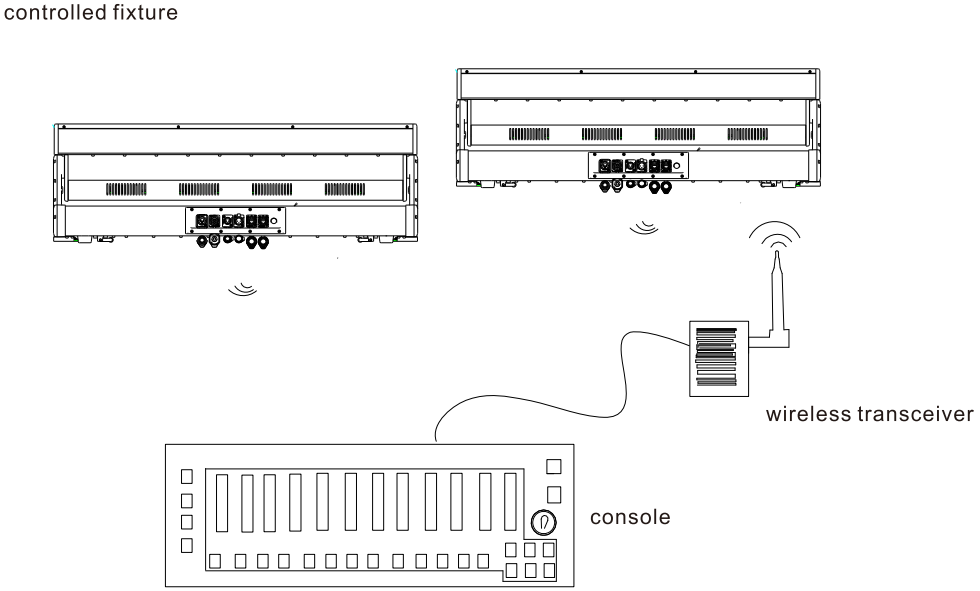
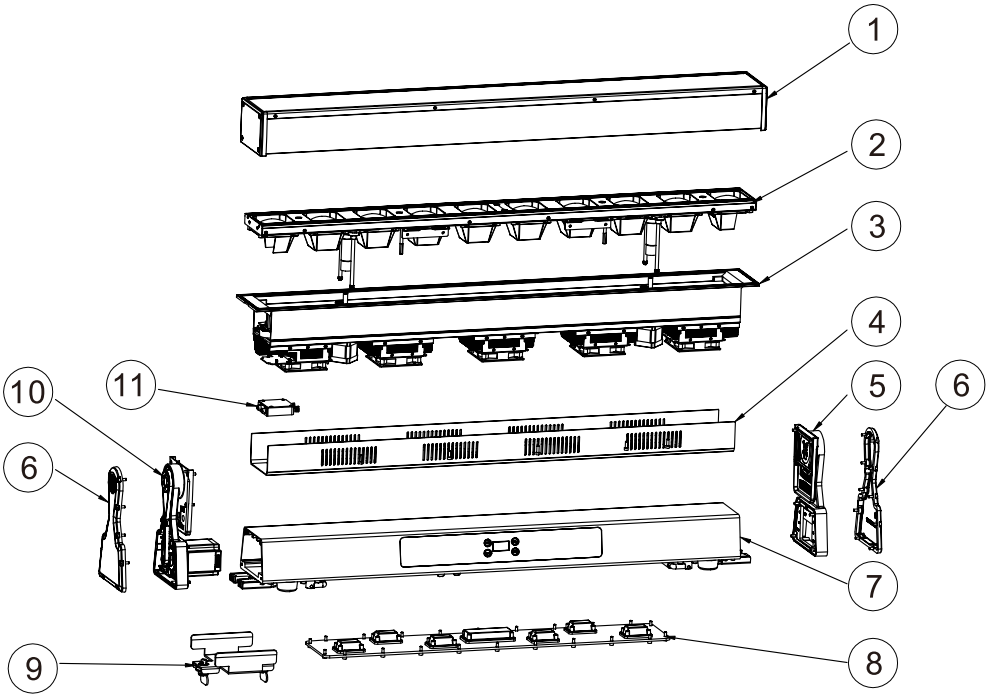



Fig.(9.3-3)

# 9/ Parts Code

| NO. | Item | Specification | Ording index |
|---|---|---|---|
| 1 | LED Left Board | - | 330712100244 |
| 2 | LED Right Board | - | 330712100245 |
| 3 | LED Strip Board | - | 330712100240 |
| 4 | LED Left Control Board | - | 330712100242 |
| 5 | LED Right Control Board | - | 330712100243 |
| 6 | LED Strip Driver Board | - | 330712100241 |
| 7 | Y-axis Optocoupler Board | - | 330712100042 |
| 8 | Y-axis Hall Boar | - | 330711100046 |
| 9 | Display Board | - | 330712100238 |
| 10 | Touchpad | - | 330712100239 |
| 11 | Switch Controlle Board | - | 330712100099 |
| 12 | Power Supply | 800W | 330001200156 |
| 13 | Y-axis Motor | 24HED8005-30B01 | 140103000031 |
| 14 | Zoom Motor | 17HDC5209-87N | 140102000400 |
| 15 | Y-axis Belt | - | 350201000961 |
| 16 | Base Cooling Fan | MF50152V1-1000C-A99 | 150101000111 |
| 17 | LED Board Cooling Fan | YDM8015C12F | 150101000237 |
| 18 | Light Guide Rod | - | 200712000111 |
| 19 | Lens | - | 200712000021 |
| 20 | Outer Glass | - | 200712000113 |
| 21 | Connecting Lock Block Latch | - | 230712000363 |

Attached 1: Fixture exploded drawing




1. Optical glass module
2.Lens assembly
3.Lamp base module
4.The rear cover plate
5. Left arm module
6. Arm cover
7. Base module
8. Bottom cover module
9. Splicing quick lock module
10. Right arm module
11. Y-xis lock module