

PT-ITRUST

USER MANUAL

Please read the manual carefully before you install PT-ITRUST

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Checking Parts

- 1×ILDADB-25 Connector(male)
- 1×ILDADB-25 Connector(female)
- 1×DMX512 Connector(male)
- 1×DMX512 Connector(female)
- 1×Main board
- 1×Address board
- 2×Cables Main board to ILDADB-25 Connector
- 1×Cables Main board to Address board
- 1×Cables Main board to DMX512 Connector
- 1×Cables Main board to Driver (±15V Power)
- 1×User manual

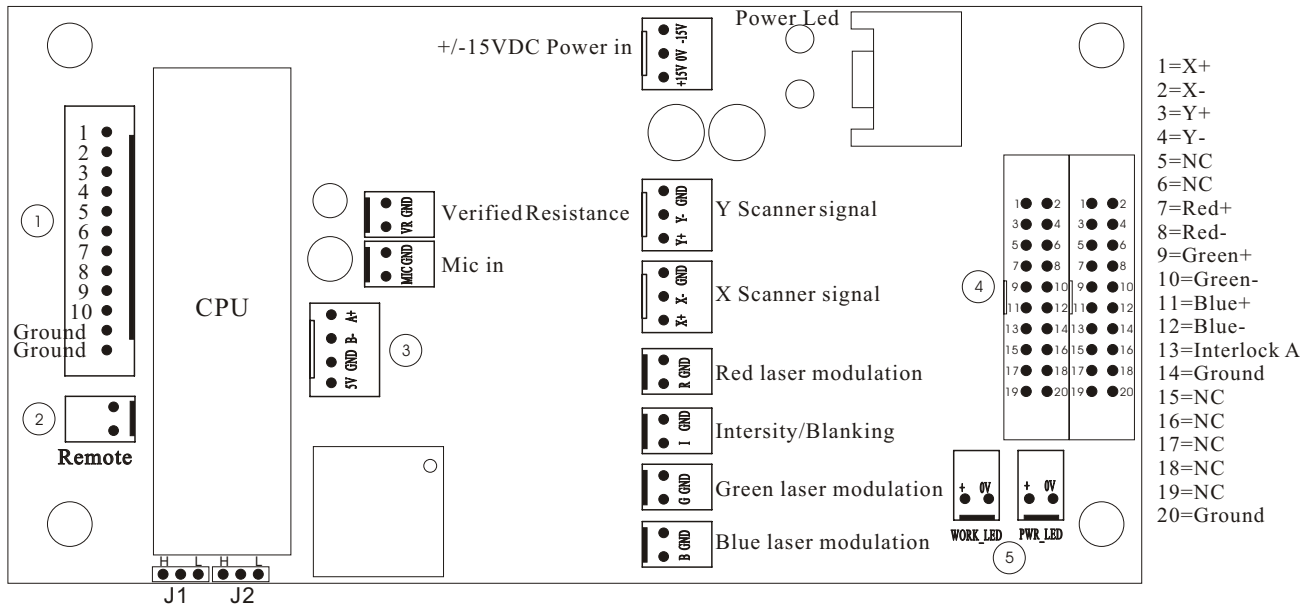
Effect:

128Gobos,Rotation,Position,Scale,Wave,Color Change etc.

Function:

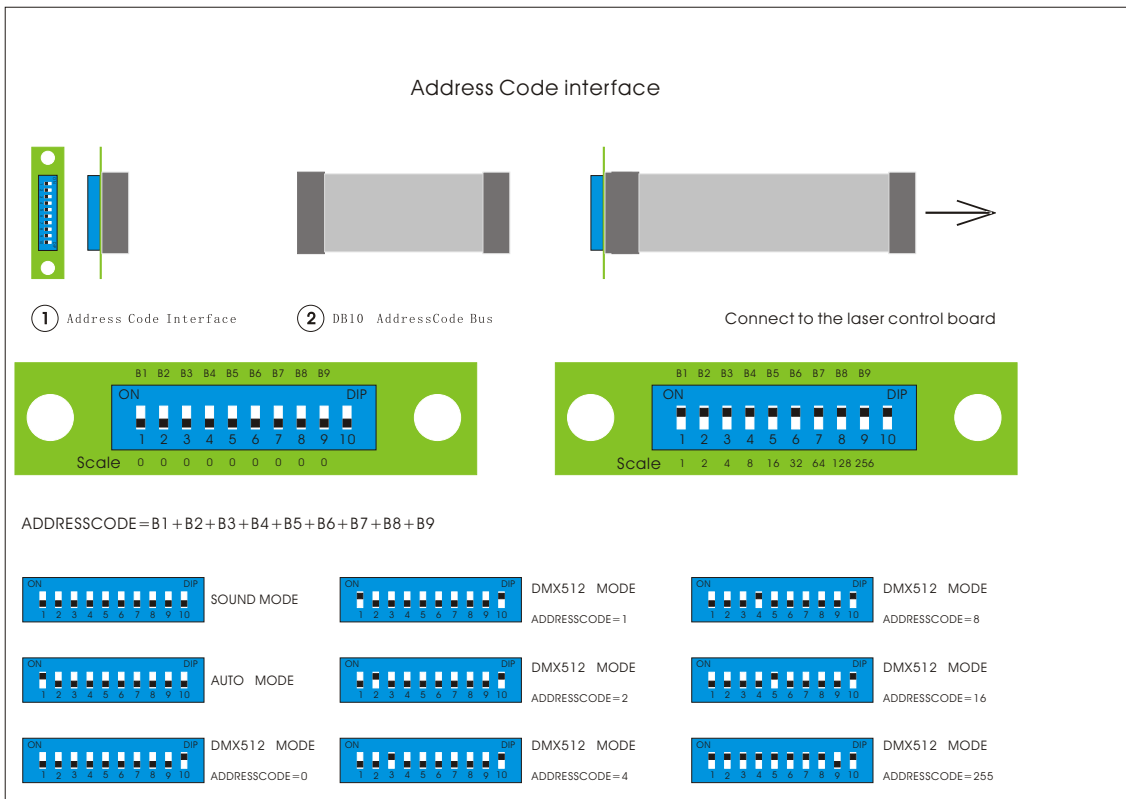
Music Active,Auto Active,DMX512,ILDADB-25 Connector

Technical detail

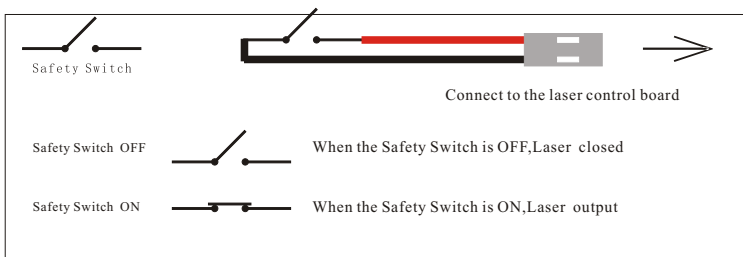


Instructions:

① Address Code interface

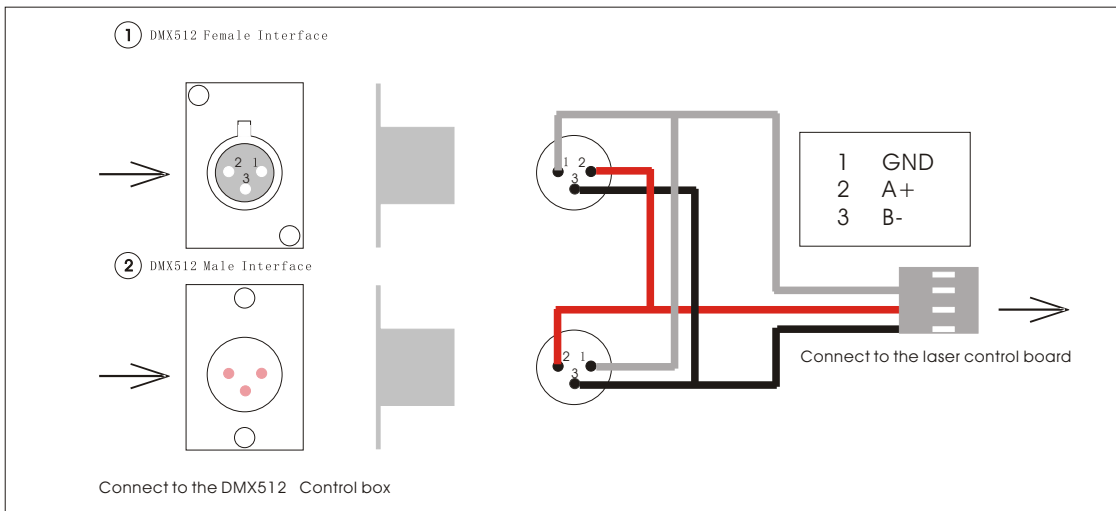


② Protective interface

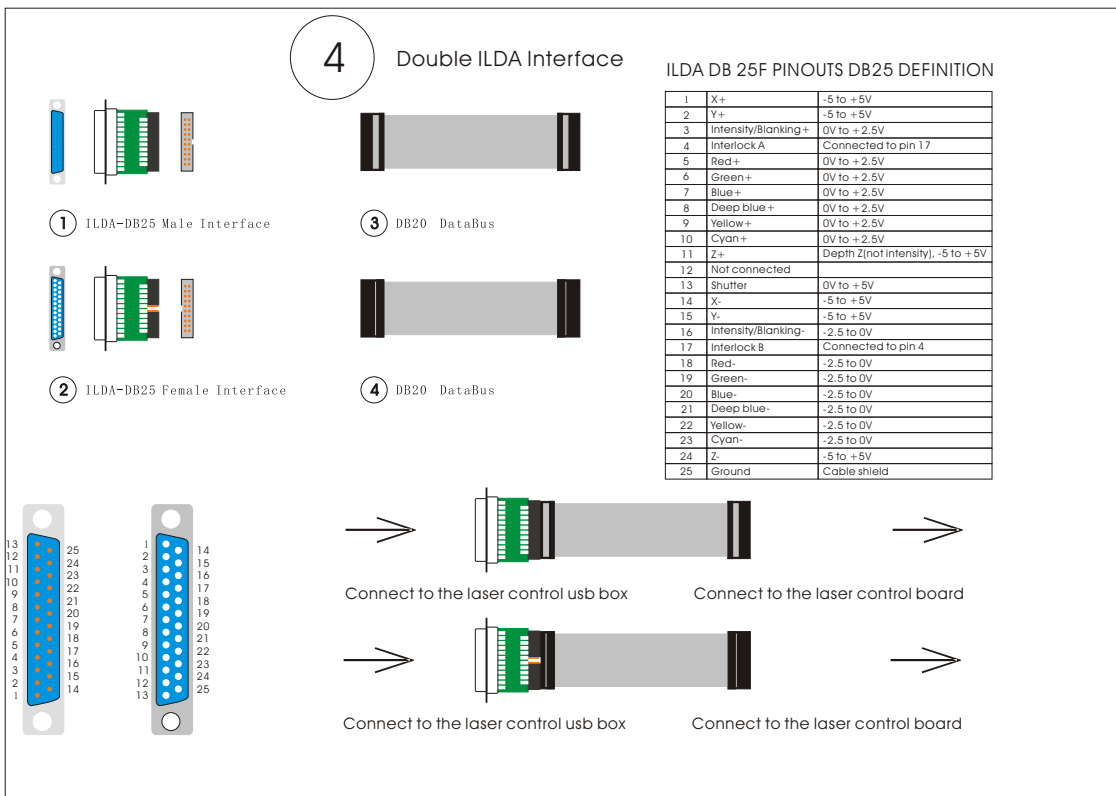


Technical detail

③ DMX512 Interface



④ Double ILDA Interface



⑤ Status LED

Power LED: Connect to a led, when Power input, the led will be light;
 Working status LED: Connect to a led, when radiating laser, the led is lighting;


- 5、 +/-15VDC Power in: +/-15VDC 0.4A
- 6、 X Scanner signal: Connect to the ScannerDriverBoard X Interface;
- 7、 Y Scanner signal: Connect to the ScannerDriverBoard Y Interface;
- 8、 Mic in: Connect to a microphone
- 9、 VerifiedResistance: adjust the sensitive for microphone, the value range of the Verified Resistance is 500Kohm to 2Mohm
- 10、 Red laser modulation: range of output voltage: 0V to 5V, Connect to Red Laser Diode;
- 11、 Green laser modulation: range of output voltage: 0V to 5V, Connect to Green Laser Diode;
- 12、 Blue laser modulation: range of output voltage: 0V to 5V, Connect to Blue Laser Diode;
- 13、 Intersity/Blanking: range of output voltage: 0V or 5V, no laser output I=0; laser output I=5V;
- 14、 J1: Address Code interface, LCD interface
- 15、 J2: blue modulation connect to green modulation, use for RGY laser, normal, use for RGB laser

DMX 512 channel list for RGB laser


The fixture can display two different patterns at the same time---24 channels version. And the 2nd pattern can move with the main pattern ---11 channels version. Also you can display one pattern only---13channels version. The function of each channel as following .

| Channel | Function | DMX512 | Specification |
|---------|-----------|---------|------------------------------------|
| 1 | Play mode | 0~0 | Off |
| | | 1~63 | Music mode(music active) |
| | | 64~127 | Auto mode(Auto active) |
| | | 128~191 | Double pattern mode(manual active) |
| | | 192~255 | Wave effect mode(manual active) |






Auto mode(music active)

| Channel | Function | DMX512 | Specification |
|---------|---------------|---------|---|
| 1 | Running | 1~63 | Running music mode |
| 2 | Speed | 0~255 | 16 Class speed(from slow to fast)  |
| 3 | Shows | 0~15 | Re run all |
| | | 16~31 | Re run show1 |
| | | 32~47 | Re run show2 |
| | | 48~63 | Re run show3 |
| | | 64~79 | Re run show4 |
| | | 80~95 | Re run show5 |
| | | 96~111 | Re run show6 |
| | | 112~127 | Re run show7 |
| | | 128~143 | Re run show8 |
| | | 144~159 | Re run show9 |
| | | 160~175 | Re run show10 |
| | | 176~191 | Re run show11 |
| | | 192~207 | Re run show12 |
| | | 208~223 | Re run show13 |
| | | 224~239 | Re run show14 |
| 240~255 | Re run show15 | | |
| 4 | No use | | No use |
| | | | |
| 24 | No use | | No use |






Auto mode(Auto active)

| Channel | Function | DMX512 | Specification |
|---------|---------------|---------|---|
| 1 | Running | 64~127 | Running Auto mode |
| 2 | Speed | 0~255 | 16 Class speed(from slow to fast)  |
| 3 | Shows | 0~15 | Re run all |
| | | 16~31 | Re run show1 |
| | | 32~47 | Re run show2 |
| | | 48~63 | Re run show3 |
| | | 64~79 | Re run show4 |
| | | 80~95 | Re run show5 |
| | | 96~111 | Re run show6 |
| | | 112~127 | Re run show7 |
| | | 128~143 | Re run show8 |
| | | 144~159 | Re run show9 |
| | | 160~175 | Re run show10 |
| | | 176~191 | Re run show11 |
| | | 192~207 | Re run show12 |
| | | 208~223 | Re run show13 |
| | | 224~239 | Re run show14 |
| 240~255 | Re run show15 | | |
| 4 | No use | | No use |
| | | | |
| 24 | No use | | No use |






Double pattern mode (manual active)

| Channel | Function | DMX512 | Specification |
|---------|---------------------------|---------|---|
| 1 | Running | 128~191 | Double pattern mode |
| 2 | Laser On/Off | 0~127 | Laser Off |
| | | 128~255 | Laser On |
| 3 | Main Gobo team selection | 0~255 | 8 gobo teams(255/32=0~7) |
| 4 | Main Gobo selection | 0~255 | 16 gobo teams(255/16=0~15) |
| 5 | Main colour | 0~31 | Original color |
| | | 32~63 | Red |
| | | 64~95 | Yellow |
| | | 96~127 | Green |
| | | 128~159 | Cyan |
| | | 160~191 | Blue |
| | | 192~223 | Purple |
| 6 | Main Color gradual change | 0~1 | Original |
| | | 2~255 | Color gradual change  |
| 7 | Main drawing | 0~127 | Manual drawing |
| | | 128~255 | Gradual drawing speed  |
| 8 | Main Gobo zoom | 0~127 | Gobo size from big to small(manual)  |
| | | 128~191 | Gobo size from big to small(auto)  |
| | | 192~255 | Gobo size from small to big(auto)  |
| 9 | Main Horizontal rotation | 0~127 | Stationary Pan rotate angle(0~360 degree) |
| | | 128~191 | Pan clockwise rotate speed |
| | | 192~255 | Pan anti-clockwise rotate speed |
| 10 | Main Vertical rotation | 0~127 | Stationary Tilt rotate angle(0~360 degree) |
| | | 128~191 | Tilt clockwise rotate speed |
| | | 192~255 | Tilt anti-clockwise rotate speed |
| 11 | Main Centre rotation | 0~127 | Stationary centre rotate angle(0~360 degree) |
| | | 128~191 | Centre clockwise rotate speed |
| | | 192~255 | Centre anti-clockwise rotate speed |
| 12 | Main Horizontal move | 0~127 | Stationary Pan move |
| | | 128~191 | Pan right move |
| | | 192~255 | Pan left move |
| 13 | Main Vertical move | 0~127 | Stationary Tilt move |
| | | 128~191 | Tilt right move |
| | | 192~255 | Tilt left move |

DMX 512 channel list for RGB laser

| | | | |
|---------|------------------------------|---------|---|
| 14 | The 2nd Gobo team selection | 0~255 | 8 gobo teams(255/32=0~7) |
| 15 | The 2nd Gobo selection | 0~255 | 16 gobo teams(255/16=0~15) |
| 16 | The 2nd colour | 0~31 | Original color |
| | | 32~63 | Red |
| | | 64~95 | Yellow |
| | | 96~127 | Green |
| | | 128~159 | Cyan |
| | | 160~191 | Blue |
| | | 192~223 | Purple |
| 224~255 | White | | |
| 17 | The 2nd Color gradual change | 0~1 | Original |
| | | 2~255 | Color gradual change  |
| 18 | The 2nd drawing | 0~127 | Manual drawing |
| | | 128~255 | Gradual drawing speed  |
| 19 | The 2nd Gobo zoom | 0~127 | Gobo size from big to small(manual)  |
| | | 128~191 | Gobo size from big to small(auto)  |
| | | 192~255 | Gobo size fromsmall to big(auto)  |
| 20 | The 2nd Horizontal rotation | 0~127 | Stationary Pan rotate angle(0~360 degree) |
| | | 128~191 | Pan clockwise rotate speed |
| | | 192~255 | Pan anti-clockwise rotate speed |
| 21 | The 2nd Vertical rotation | 0~127 | Stationary Tilt rotate angle(0~360 degree) |
| | | 128~191 | Tilt clockwise rotate speed |
| | | 192~255 | Tilt anti-clockwise rotate speed |
| 22 | The 2nd Centre rotation | 0~127 | Stationary centre rotate angle(0~360 degree) |
| | | 128~191 | Centre clockwise rotate speed |
| | | 192~255 | Centre anti-clockwise rotate speed |
| 23 | Main pattern Horizontal move | 0~127 | Stationary Pan move |
| | | 128~191 | Pan right move |
| | | 192~255 | Pan left move |
| 24 | The 2nd Vertical move | 0~127 | Stationary Tilt move |
| | | 128~191 | Tilt right move |
| | | 192~255 | Tilt left move |

Wave effect mode(manual active)

| Channel | Function | DMX512 | Specification |
|---------|----------------------|---------|--|
| 1 | Running | 192~255 | Wave effect mode |
| 2 | Laser On/Off | 0~127 | Laser Off |
| | | 128~255 | Laser On |
| 3 | Wave Scope | 0~255 | From small to big  |
| 4 | Wave Frequency | 0~255 | From low to high  |
| 5 | colour | 0~31 | Original color |
| | | 32~63 | Red |
| | | 64~95 | Yellow |
| | | 96~127 | Green |
| | | 128~159 | Cyan |
| | | 160~191 | Blue |
| | | 192~223 | Purple |
| 6 | Color gradual change | 0~1 | Original |
| | | 2~255 | Color gradual change  |
| 7 | drawing | 0~1 | Original |
| | | 2~255 | Manual drawing  |
| 8 | Gobo | 0~255 | 16 Gobos (255/16) |
| 9 | Wave mode | 0~63 | From right to left |
| | | 64~127 | From left to right |
| | | 128~191 | From inside to outside |
| | | 192~255 | From outside to inside |
| 10 | Wave flow speed | 0~127 | Wave stationary degree |
| | | 128~255 | Wave flow speed  |
| 11 | No use | | No use |
| | | | |
| 24 | No use | | No use |