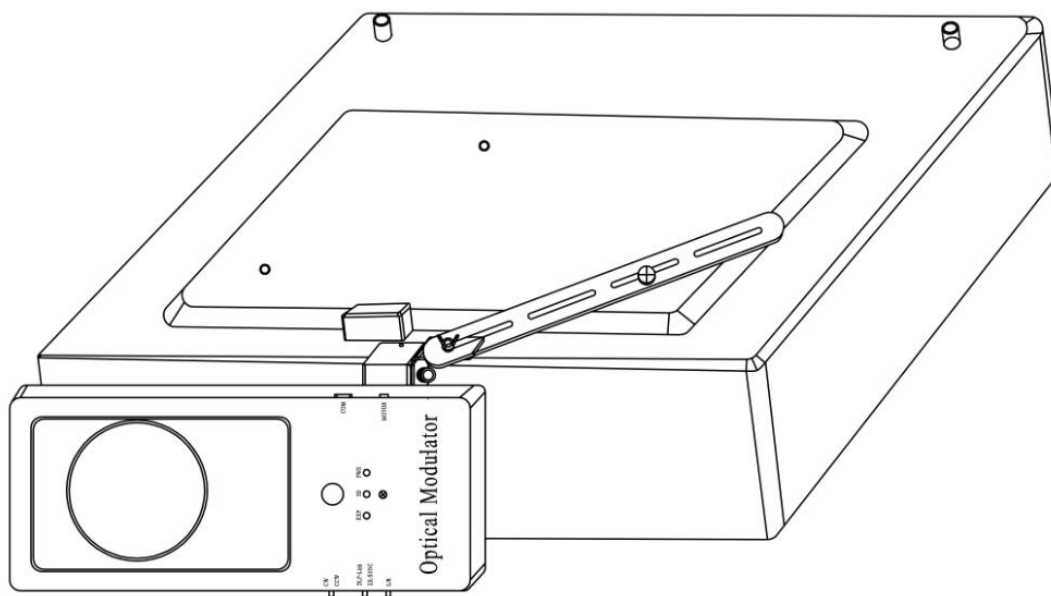




3D Polarization Modulator

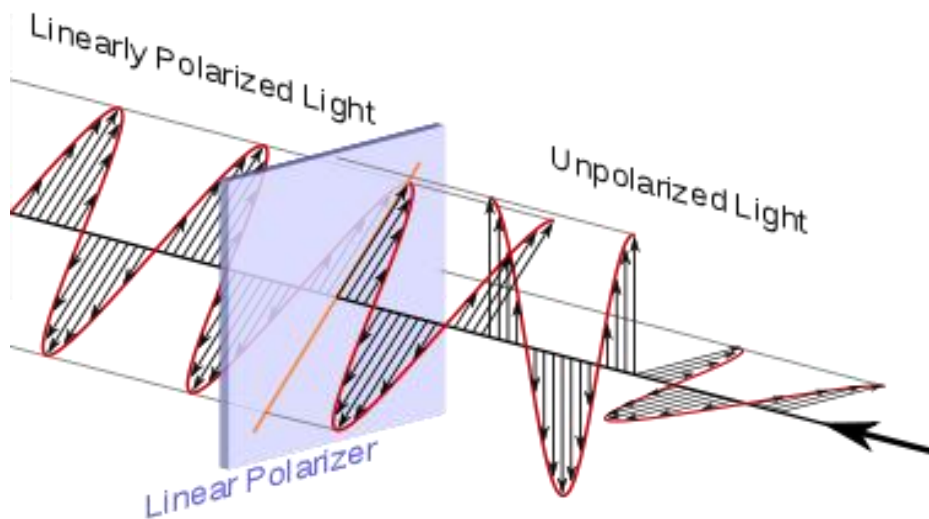
YT-PS600H

for projector

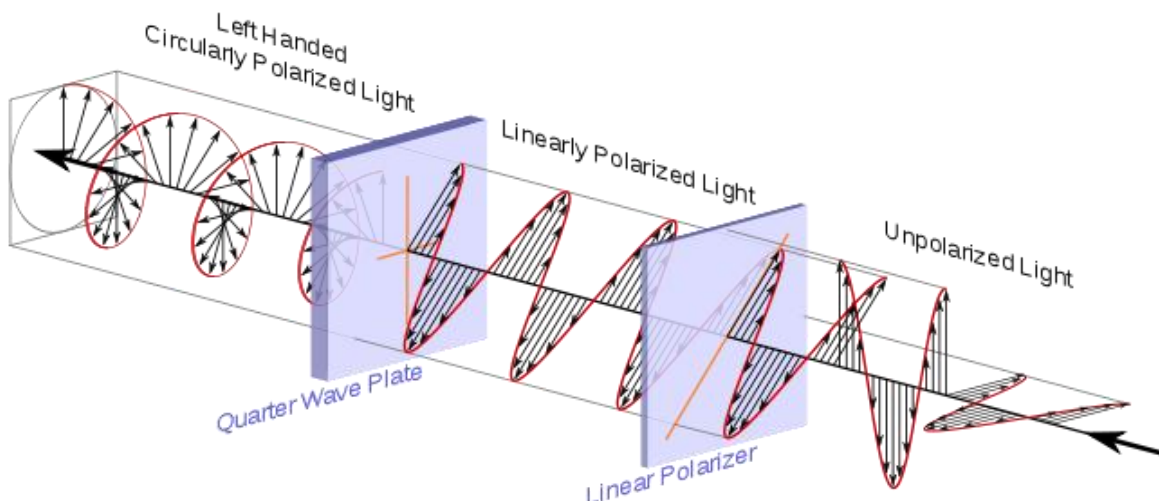


Basic principles

Illustrated linearly polarized light: Multiple directions of light (right). After pass through a linear polarizer, leaving only the light in the same direction as the polarizer polarities (left).



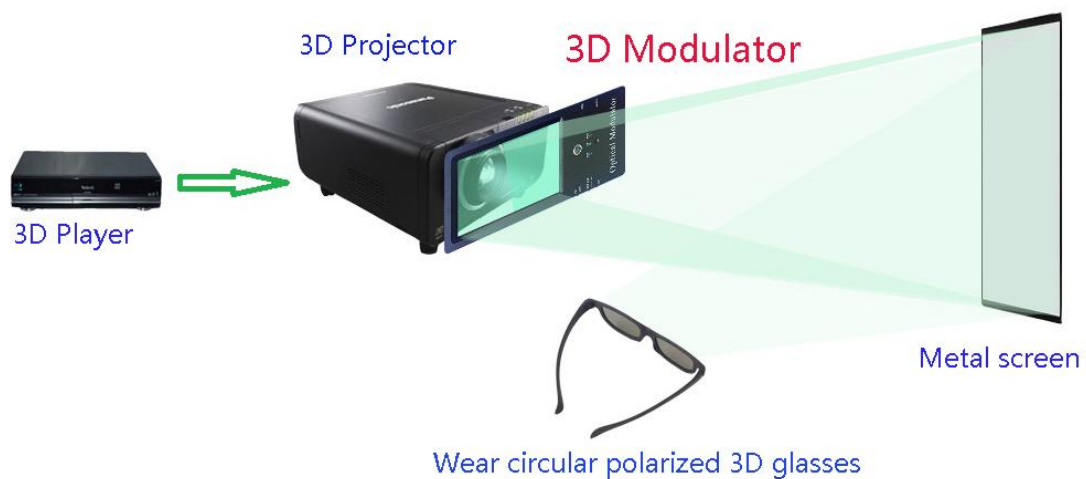
Illustrated circularly polarized light: Lights in multiple vibration directions (right) pass through a linear polarizer and become linearly polarized light (middle), and then pass through the waveplate to become circularly polarized light (left).



[Learn more\(video\).....](#)

3D Polarization Modulator is constructed from two specific Liquid Crystal panels that are accurately bonded to ensure effective polarization of the left and right image from the projector lens, 3D Polarization Modulator is perfectly matched to the high quality cheaply polarized 3D glasses produced by MASTERIMAGE 3D or RealD 3D.

Illustration for passive 3D solution



[Learn more\(Demo video\).....](#)

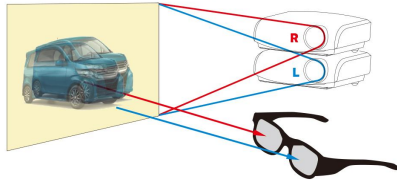
Features

Easy to install and user friendly

- 3D images can be viewed with one projector.
- Only one included dedicated cable is required for connection with a projector and power supply.

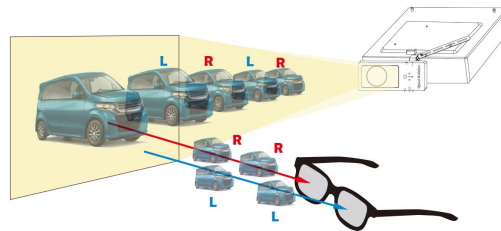
In the case of conventional two-unit type

Time and effort are required for installation positioning and fine adjustment since images from two projectors are superimposed.



In the case of this equipment

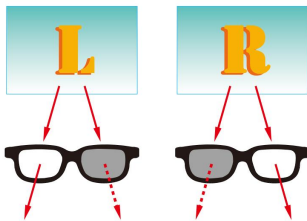
One projector is sufficient. Only easy positioning is required for installation.



High quality 3D images

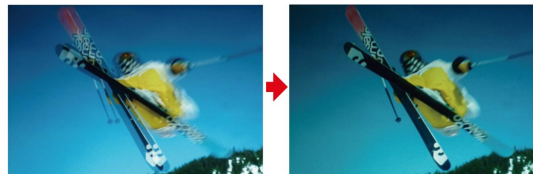
- By adopting an optical device compatible with RealD cinema system, high-speed response and high 3D contrast are realized.

Left eye image Right eye image



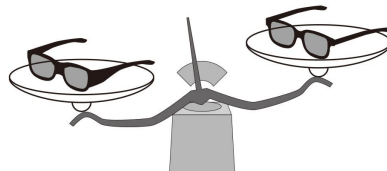
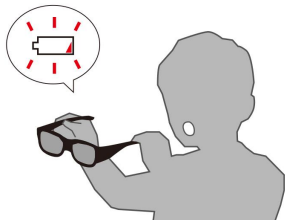
Less image protrusion from the opposite side

Achieves sharply defined images never mixing left and right eye images.



Passive type 3D glasses

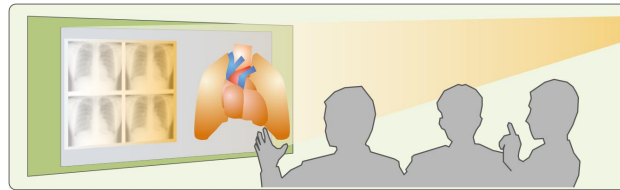
- Never worry about batteries running out when viewing 3D images. Also, lightweight and less likely to make you tired.



Applications

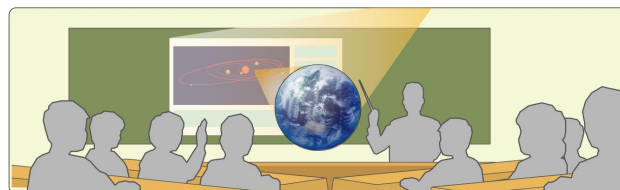
Medical related

- Simulations with 3D imagery.



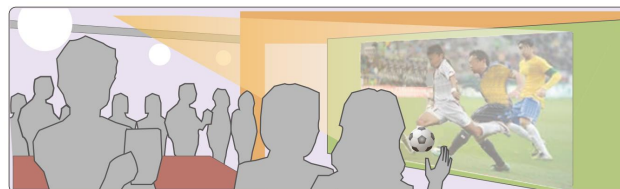
Education related

- More practical approach to learning with 3D imagery.



Entertainment related

- 3D images can be viewed with a large audience in mind.





✓ National Patent Technology

YT-PS600H uses patented optical and control technology with independent intellectual property rights, ensuring stable performance and professional 3D modulation effects.

✓ Industrial-Grade Aluminum Alloy Shell

The shell adopts CNC laser engraving technology, with high strength, good heat dissipation, stylish appearance, and long service life for both commercial and home use.

✓ Imported High-End Optical Components

Equipped with imported high-transmittance and ultra-fast-response polarization filters and high-stability electronic modules, ensuring ultra-low ghosting and high-quality 3D imaging.

✓ Dual Synchronization Modes & Auto 2D/3D Switching

Supports DLP-Link wireless and wired synchronization. It automatically senses 3D signals and switches between 2D and 3D without manual operation or remote control.

✓ Full Compatibility with DLP & D-ILA 3D Projectors

Works with all DLP 3D projectors and D-ILA 3D projectors. (A 1/2 waveplate is required for D-ILA

projector applications.)

☑ Fan-Free & Fully Sealed Dust-Proof Design

No fan, no noise, fully sealed optical system to avoid dust contamination, brightness loss, and failure, ensuring stable long-term operation.

☑ 3-Minute Quick Installation & Projector-Powered

Super easy installation in 3 minutes. Powered directly by the projector, no external power supply or complicated wiring needed.

☑ Single Projector RealD Circular Polarized 3D

Only one projector can achieve professional passive RealD circular polarized 3D effect, greatly reducing equipment cost.

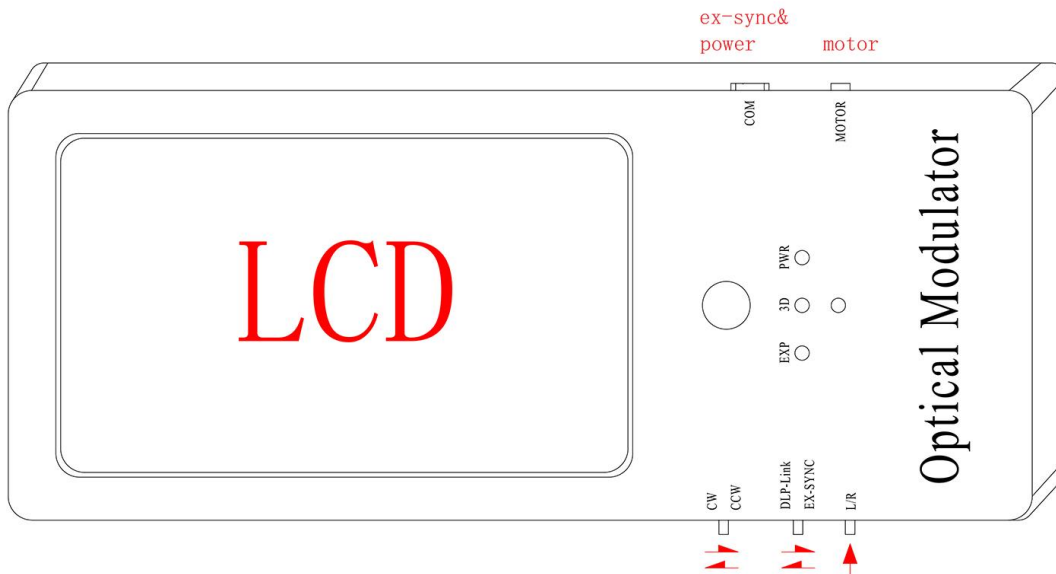
☑ Ultra-Low 3D Glasses Cost

Uses low-cost universal passive circular polarized 3D glasses. Damaged glasses can be replaced directly at minimal cost.

Technical Specifications

- 1.Model:YT-PS600H;
- 2.Host material:Aluminium alloy;
- 3.Size of 3D filter:130mm x 80mm (opening area);
- 4.Light transmittance:40%±1.5% for DLP, 90%±2% for D-ILA;
- 5.Optical efficiency:16%±1% for DLP, 35%±1.5% for D-ILA ;
- 6.Ghost rate: <1% ;
- 7.Principles of Optics:Circular polarizer;
- 8.Response speed of 3D filter: <150us;
- 9.Frame rate: Up to 480Hz ;
- 10.Maximum Screen Size:10m width;
- 11.Screen gain coefficient:2.0-3.0 (recommended 2.4);
- 12.Screen polarization contrast:150:1;
- 13.Exchange between 2D and 3D: Automatic((without remote control));
14. Support the largest brightness:<10000Lm;
- 15.Support projector:All DLP 3D projector,D-ILA 3D projector(with 1/2 waveplate);
- 16.Sync port of projector: VESA/DLP-Link;
- 17.Weight:1.5KG;
- 18.Outline Dimension:39CMX28CMX7CM;
- 19.Operating Temperature: 0-60 degree C.

Host interface and key description



Key function description:

A. CW/CCW is a toggle switch, which determines the 3D position relative direction of the host (Horizontal). When the English letter side faces you and the 3D indicator is bright (3D state), when the switch dials to CCW, the LCD will turn to your left hand side (Figure 1); when the switch dials to CW, the LCD will turn to your right hand side (Figure 2).

B. DLP-LINK/EX-SYNC is a toggle switch, which determines path selection for obtaining 3D signal source of the host. When the switch dials to DLP-LINK, the 3D signal comes from the wireless receiving mode (The projector needs a DLP-LINK function); when the switch dials to EX-SYNC, the 3D signal comes from the COM interface on the host.

C. L/R is a multi-function button. This key is short to switch the left and right eye signals; quickly press button for the three times to switch the host's 2D position relative direction. When the English letter side faces you and the 3D indicates is not bright (2D state), If the LCD is above the host (Figure 3), the LCD will turn below the host (Figure 4) after quickly press button for the three times. whenever you press three buttons quickly, the host will reverse between up and down for one time.

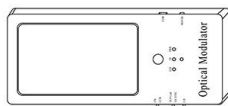


Figure1

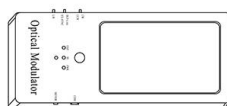


Figure2



Figure3

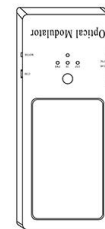


Figure4

Initialize the host rotation direction and position

Please strictly follow the steps below:

step1. Remove the main unit from the motor and place it on a **level** table. Make sure the side with “Optical Modulator” faces the ceiling.

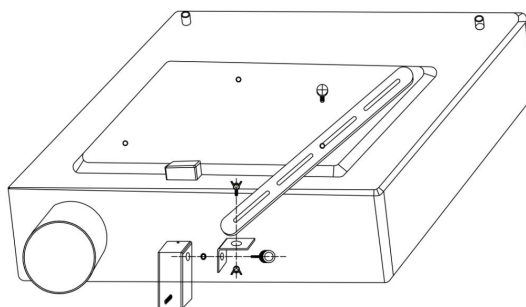
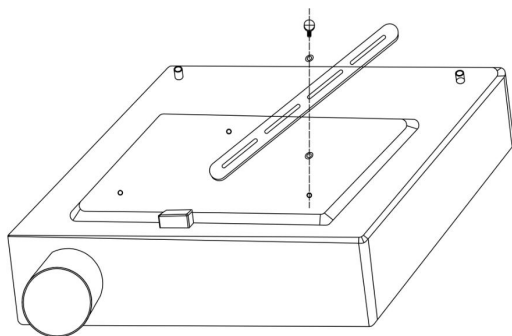
Step2. Power the host, the red power indicator light is on (See Figure below).

Step3. Press and hold the L/R button and wait until about 8 seconds, and immediately release the button (In this operation process, please ensure that the host does not move!!!), the blue and green LED indicators will flash one time, it will prove the host It has been configured. If the blue and green LEDs are not flashing, please wait for about 3 to 5 seconds, and then follow the third step again.

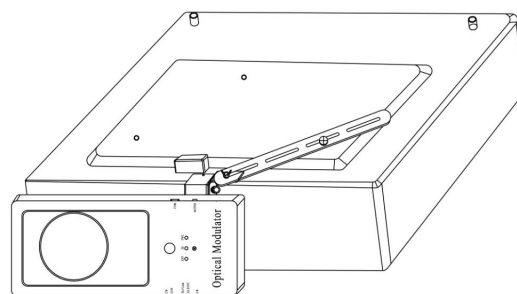
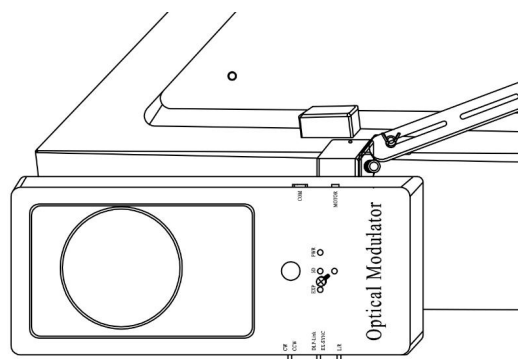


Host placement Figure

YT-PS600H installation example



1. The multi-function iron frame lock 2. Lock the parts according to the into the projector installation hole. diagram.

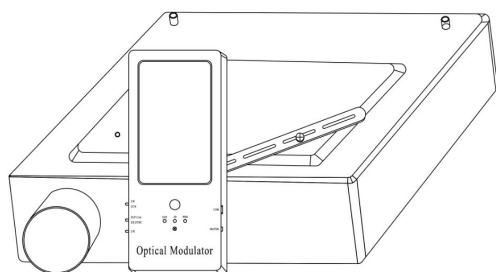


3. Lock the host with M3 screw into the shaft of the motor.

4. After the installation of the whole effect.

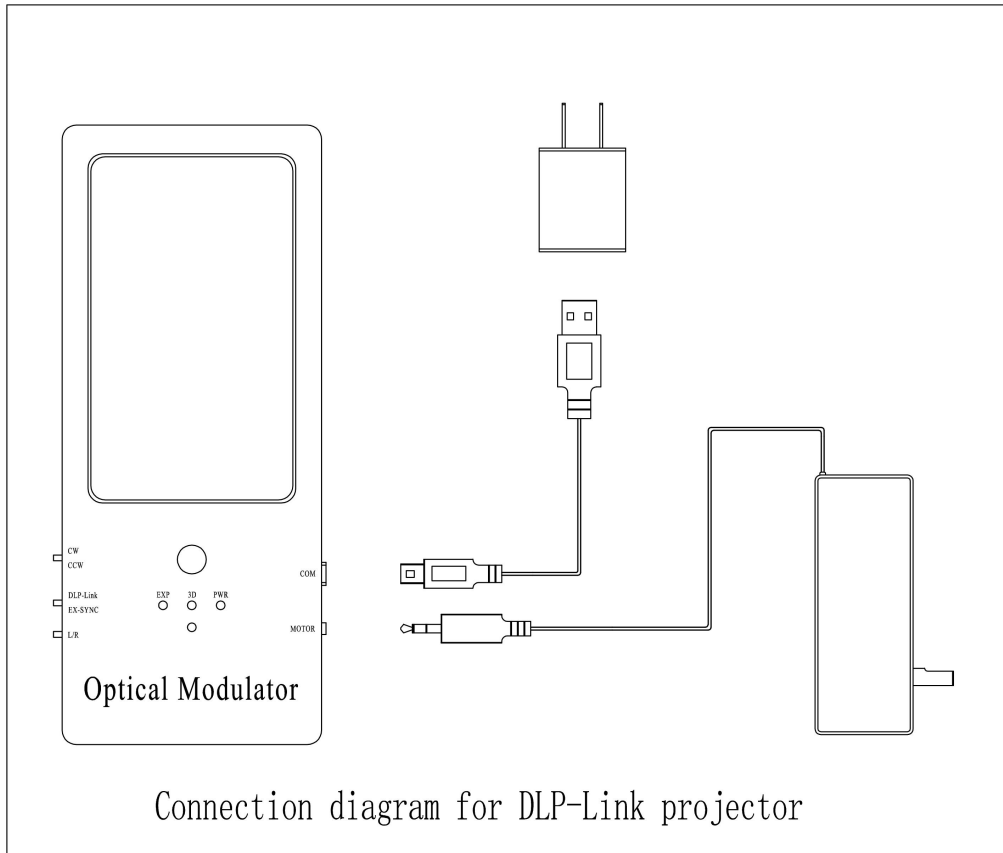
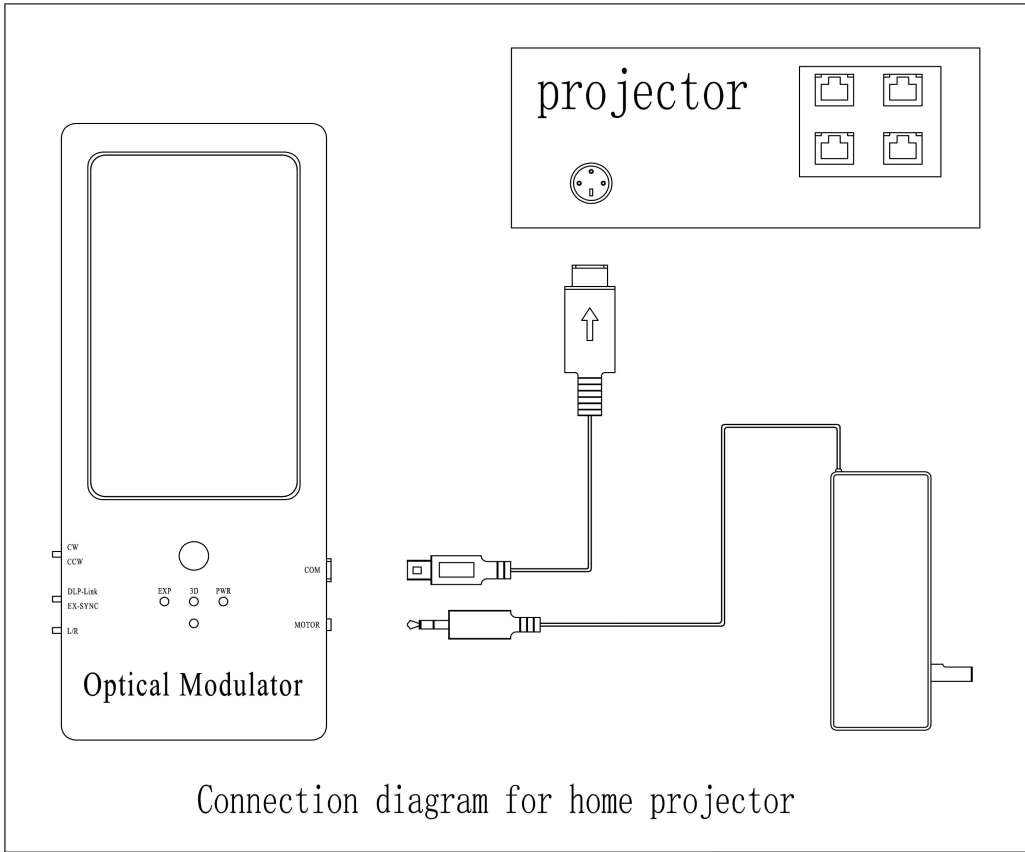
【Notice!】

In the 3rd step, when the shaft of the motor is inserted into the corresponding hole position of the host, be sure to gently insert the corresponding gap on the host. Do not use too much power (insert depth is only 8 millimeters, do not be inserted through the host box!) In order to avoid damage to the host!



5. 2D status effect.

Product connection diagram



Learn more.....

Please contact us!!



Shenzhen Yantuo Electronics Co., Ltd

Facebook: <https://www.facebook.com/Entty.Zou>;

Instagram: https://www.instagram.com/yantok_entty;

Youtube: <https://www.youtube.com/@enttyzeng1972>;

X: <https://x.com/EnttyZeng>;

Whatsapp: <https://wa.me/+8618902843662>;

Email: <mailto:info@yantok.com> ;

Website: <https://en.yantok.com> , <http://www.yantok.com> ;

Addr: Building A, Zhongliantongtai Industrial Zone, No. 271
Liangbai Road, Pinghu Street, Longgang District, Shenzhen,
China.