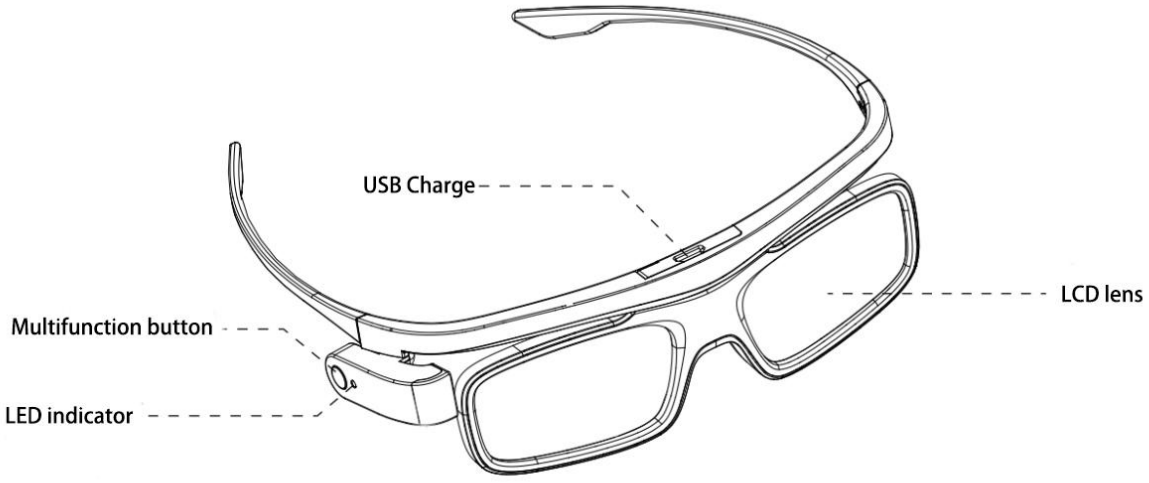
# Active Shutter 3D glasses

## YT-SG801RF

## Based on 2.4G RF



**YANTOK YT-SG801RF** is a professional 2.4GHz RF active shutter 3D glasses designed for large- scale commercial 3D display systems, engineering projects, and immersive experience environments. It adopts high- speed 2.4GHz wireless radio- frequency synchronization technology and must work with the dedicated YT-EMT100PRO 2.4GHz wireless sync signal emitter to form a complete, stable active stereo 3D solution. This professional RF system provides outstanding advantages including long communication distance, 360° omnidirectional signal reception, strong anti- interference capability, stable signal transmission, and no disconnection within the effective working range.

Compared with traditional IR infrared 3D glasses and DLP-Link 3D glasses, YANTOK YT- SG801RF 2.4GHz RF 3D glasses break through the limitations of signal direction, transmission distance, and easy interference. It can maintain stable synchronization even in large spaces, complex environments, and mobile viewing scenarios, making it the preferred 3D solution for LED large screens, multi- screen splicing & fusion, exhibition halls, science museums, conference rooms, 3D engineering projects, 3D education and training, car cinemas, stage shows, and other commercial or industrial applications.

The YT- SG801RF model supports multiple high refresh rates: 96Hz, 100Hz, 120Hz, and 144Hz, ensuring smooth, flicker- free, low- crosstalk 3D imaging for professional projection and large LED display systems. With high- standard optical parameters, ultra- low power consumption, long battery life, and lightweight comfortable design, this product meets the strict requirements of long- term operation in commercial projects and continuous use by audiences.

**!!Important Note**: YANTOK YT-SG801RF 3D glasses must be used with the matching YT-EMT100PRO 3D signal emitter and cannot work alone. It is specially designed for fixed engineering projects, large-scale 3D playback systems, and multi-user immersive experience scenarios.

# Applications

**YANTOK YT-SG801RF** 2.4G active shutter 3D glasses is the ideal solution for professional large-space 3D projects, widely used in:

◎LED large screens and high-end commercial 3D display projects

◎Multi-screen splicing & fusion projection systems

◎Science and technology museums, exhibition halls, immersive experience zones

◎Corporate conference rooms, command centers, and monitoring rooms

◎3D engineering simulation and industrial projection applications

◎3D education, training, and multimedia classrooms

◎Automotive cinemas and mobile 3D viewing scenarios

◎Stage events, theater shows, and themed immersive venues

# Key Features

✅ **Advanced 2.4GHz RF Wireless Sync Technology**

YANTOK YT-SG801RF uses stable 2.4GHz radio- frequency wireless communication for synchronization. It supports long- distance transmission, 360° omnidirectional signal reception without blind spots, strong anti- interference performance, and stable sync within a wide coverage area. Viewers can move freely, bow heads, or turn around without signal loss, making it ideal for large spaces and mobile experience zones.

✅ **Professional for Large- Scale 3D Engineering Projects**

This 2.4G active shutter 3D glasses is specially developed for LED large screens, splicing fusion walls, exhibition halls, command centers, conference rooms, 3D engineering, 3D education, car cinemas, and immersive experience venues. It solves the pain points of traditional IR 3D glasses such as short distance, directional limitation, easy signal interruption, and unstable performance in large- scale applications.

✅ **Must Match YT- EMT100PRO Emitter**

YT-SG801RF is fully compatible and paired with YT-EMT100PRO 2.4GHz wireless sync signal emitter. The complete system features plug- and- play, high compatibility, stable synchronization, and strong scalability, supporting a large number of 3D glasses to work at the same time for group viewing and large- scale experience projects.

✅ **Wide Compatibility with Multiple Refresh Rates**

The product supports four mainstream 3D refresh rates: 96Hz, 100Hz, 120Hz, and 144Hz. It adapts to various 3D players, engineering projectors, LED display control systems, and professional 3D servers, ensuring stable, smooth, high- definition 3D images for commercial and engineering applications.

✅ **High- Performance Optical Parameters**

With light transmittance of 38%±2%, high contrast ratio of 1000:1±200, and 30° viewing angle, YT- SG801RF restores clear, layered, bright, and natural 3D visuals. It maintains excellent image performance even in large- screen, long- distance, and high- ambient- light environments.

✅ **Ultra-Low Power & 40 Hours Long Working Time**

Powered by 3.7V 60mAh rechargeable lithium- polymer battery, the glasses feature ultra- low power consumption design: standby current <2μA, working current <1.2mA. One full charge supports about 40 hours of continuous use, greatly reducing charging frequency and maintenance workload in long- term exhibition or project operation.

✅ **Lightweight & Comfortable Wearing Design**

Net weight is only 35g±3g (including battery), lightweight and pressure- free. The ergonomic frame structure ensures comfortable wearing during long meetings, training, exhibitions, or movie experiences, suitable for all- day use in commercial and engineering scenarios.

✅ **Stable Performance in Wide Environmental Range**

Operating temperature: 0°C ~ 60°C; operating humidity: 10% ~ 90%; storage temperature: -20°C ~ 80°C. It adapts to indoor exhibition halls, conference centers, automotive interiors, and semi- indoor engineering environments with stable and reliable performance.

✅ **Standard Packaging & Easy Transportation**

Compact package size: 17CM×7CM×5.5CM; gross weight: about 90g (with package). The standardized packaging design is convenient for storage, transportation, and bulk procurement by global distributors and engineering contractors.

# Technical Specifications

1. Transmission rate: 38% +/- 2%;
2. Contrast: 1000:1 +/-200;
3. Support frame rate: 96 Hz/100 Hz/120 Hz/144Hz;
4. Angle of view: 30 degrees;
5. Synchronization mode: 2.4GHz RF;
6. Power supply mode: rechargeable lithium polymer battery;
7. Battery capacity: 3.7V 60Mah;
8. Standby current: <2uA;
9. Working hours: about 40 hours;
10. Working current: <1.2mA;
11. Working temperature: 0°C ~ 60°C;
12. Working humidity: 10%~90%;
13. Storage temperature: -20°C～80°C.
14. Net Weight: 35g +/-3g (including battery);
15. Gross weight: 90g +/-3g(including packaging);
16. Packing size: 17CM*7CM*5.5CM.

# Quick Start Guide

※When the glasses are turned off, press the 3D glasses button once, the blue indicator light will light up once, and the 3D glasses will turn on;

※In the power on state, press button and hold for 3 seconds to shut down;

※ In the power on state, quickly press twice to enter the pairing mode of the glasses. The blue light is always on, and the glasses are close to the working emitter (the green LED 3D indicator light of the emitter is on). After successful pairing, the blue light goes out.

※If the signal received by the 3D glasses is lost, the blue light flashes once every three seconds and there is no signal for a long time (about one minute), it will automatically shut down;

※When charging, the red LED indicator light will turn on and turn off when fully charged.

# 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.