



3D SYNC Signal Emitter
YT-EMT100PRO
for Active 3D Glasses



YANTOK YT-EMT100PRO is a professional 2.4GHz RF 3D emitter(Also known as 3D system) designed for large- scale commercial 3D display systems and immersive projection projects. It uses 2.45GHz high- speed radio- frequency wireless technology to send stable 3D synchronization signals, delivering an ultra- long transmission distance, 360° omnidirectional coverage, and strong anti- interference performance. This emitter ensures reliable signal delivery without disconnection within its effective range, making it the ideal core component for LED large screens, multi- screen splicing & fusion systems, exhibition halls, conference rooms, 3D engineering projects, 3D educational training, automotive cinemas, stage events, and other professional immersive display applications.

Unlike traditional infrared sync systems that suffer from short transmission distance, directional limitations, and easy signal interference, the YT-EMT100PRO 2.4GHz RF emitter breaks through all these constraints. Its 360° omnidirectional signal emission allows compatible 3D glasses to receive stable synchronization from any position, even in large spaces, complex environments, or mobile viewing scenarios. With a coverage radius of up to approximately 100 meters, it supports a large number of 3D glasses working simultaneously, perfectly meeting the requirements of multi-user experience and large-scale commercial 3D projects.

This emitter supports multiple synchronization frequencies: 48Hz, 50Hz, 60Hz, and 72Hz, ensuring wide compatibility with different 3D servers, projectors, LED display control systems, and professional playback devices. It offers a variety of optional interfaces including VESA, BNC, DB15, and DB37, making installation and connection flexible and convenient for different engineering scenarios. Built with high- quality components and a wide operating temperature range from -10°C to 70°C, the YT-EMT100PRO maintains stable and reliable performance in long- term continuous operation, which is essential for commercial projects and fixed installation systems.

!Important Note: YT-EMT100PRO is a dedicated 3D emitter and must be used with compatible active shutter 3D glasses. It cannot work alone. For optimal performance, it is highly recommended to use it with [YANTOK YT-SG801RF](#) 2.4GHz RF active shutter 3D glasses to form a complete, stable, and high-performance 3D sync system.

Applications

YANTOK YT-EMT100PRO 3D emitter is the core component of professional large-space 3D systems, 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 2.45GHz RF Wireless Sync Technology

YANTOK YT-EMT100PRO adopts 2.45GHz \pm 50MHz high-speed radio-frequency communication with a data speed of 50Kbps and MSK modulation. This professional wireless solution provides stable, low-latency 3D synchronization signals for large-scale commercial and engineering 3D systems.

✔ 100 Meter Ultra-Long Transmission Distance

With a coverage radius of approximately 100 meters, this emitter supports signal transmission over long distances, suitable for large exhibition halls, auditoriums, outdoor projection, automotive cinemas, and other space-spreading applications.

✔ 360° Omnidirectional Signal Emission

Equipped with a 10dBi high-gain antenna, the emitter achieves 360° omnidirectional signal coverage without blind spots. Compatible 3D glasses can stably receive sync signals from any angle, supporting free movement and multi-position viewing.

✔ Strong Anti-Interference & Stable Performance

The emitter features a launch power of over 10dBm and professional RF modulation design, ensuring strong anti-interference ability and stable signal transmission. It maintains uninterrupted synchronization even in complex electromagnetic environments, making it ideal for industrial and commercial projects.

✔ Wide Synchronization Frequency Compatibility

Supports multiple synchronization frequencies: 48Hz, 50Hz, 60Hz, and 72Hz. It adapts to various 3D control systems, projectors, LED screens, and professional playback devices, ensuring high compatibility for global engineering projects.

✓ Multiple Optional Interfaces

Provides flexible interface options including VESA, BNC, DB15, and DB37, making it easy to connect different 3D signal sources and control equipment. This design meets the wiring and installation requirements of various 3D engineering scenarios.

✓ Ultra-Wide Operating Temperature Range

Works stably in an operating temperature range from -10°C to 70°C, with operating humidity from 10% to 90%. It can adapt to extreme environments such as high-temperature equipment rooms, semi-outdoor installations, and automotive interiors, ensuring 24/7 reliable operation.

✓ Low Power Consumption & Easy Deployment

Operating voltage: 4.5~5.5V; operating current: 10mA~30mA. The low-power design reduces energy consumption and heat generation, supporting long-term stable use. The compact structure and standard packaging make installation, deployment, and transportation convenient for contractors and integrators.

✓ Professional for Large-Scale 3D Projects

YT-EMT100PRO is specially designed for LED large screens, multi-screen splicing & fusion, exhibition halls, science museums, conference rooms, 3D engineering simulation, 3D education, automotive cinemas, and immersive experience venues. It solves the pain points of traditional sync systems and provides a stable foundation for high-end 3D solutions.



Technical Specifications

- 1.Model: YT- EMT100PRO
- 2.Product Type: 3D emitter(RF)
- 3.Working Frequency: 2.45GHz \pm 50MHz
- 4.Data Speed: 50Kbps
- 5.Transmission Distance: Coverage radius approx. 100 meters
- 6.Transmit Power: >10dBm
- 7.Modulation: MSK
- 8.Antenna Gain: 10dBi
- 9.Transmission Angle: 360° omnidirectional
- 10.Sync Frequency: 48Hz / 50Hz / 60Hz / 72Hz
- 11.Operating Temperature: -10°C ~ 70°C
- 12.Operating Humidity: 10% ~ 90%
- 13.Supported Interfaces: VESA / BNC / DB15 / DB37 (optional)
- 14.Operating Voltage: 4.5 ~ 5.5V
- 15.Operating Current: 10mA ~ 30mA
- 16.Gross Weight: 1Kg \pm 0.3Kg
- 17.Package Size: 40CM \times 28CM \times 7CM
- 18.Usage Notice: Must work with compatible 3D glasses (not used alone).

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.