

Automatic Tracking and Beam Module



Overview

A compact and innovative auto-tracking antenna system using a stepper motor, Arduino, and the Griffin PowerMate USB knob. TUALCOM Ground Terminal that was designed to be used along with TUALCOM Data Links ensures long range communication for airborne platforms and UAVs. The system can be used on both mobile and fixed platforms. User friendly interface and quickly deployable structure provide practical usage especially. Valeo and Infineon are collaborating on a ground projection module to enhance V2X communication and road safety. They showcase their first product at AutoBeijing, integrating Infineon's MEMS technology into Valeo's short distance HD and bi-color projection module. Designed to control antenna bearing in real-time, this system is ideal for telemetry, ADS-B tracking, and IoT experiments. Location, history, status, always one scan away.



Article Content

Computer vision-based laser communication system for

The proposed computer vision-based tracking system is designed to detect and track the laser beam in real-time, ensuring continuous alignment for

Laser Tracker

A laser tracker is a measuring device that works by projecting a laser beam onto an optical target in contact with an object being measured. The device then determines the three-dimensional position of

Angle Tracking Automatic Beamforming for Microwave Power Transfer ...

Through experiments, it has been confirmed that additional gain can be secured by using multiple antenna modules, and the RDA function can be effectively operated to effectively make a

Beam IoT Bridge | Make Fixed RFID Scanners Cloud-Connected

Beam IoT Bridge Connect the Beam IoT Bridge to your local network via Ethernet or WiFi. It automatically discovers fixed RFID scanning equipment, makes them cloud-connected and

Auto Tracking Antena System

Together with TUALCOM Data Links, system provides full duplex / half duplex bidirectional communication over a distance of 200 km with GPS auto-tracking

Beam Eye Tracker

Immersive Camera #1 Webcam Eye Tracker Glance at mirrors, peek around corners, look into a turn. The camera follows your eyes. Leading AI-powered

Drone AI Intelligent Tracking Module: Precise Target

Overview The Drone AI Intelligent Tracking Module is a cutting-edge solution for advanced drone missions. Designed to excel in complex

Android + TBeam GPS Tracker

Required Hardware At a minimum you need a "Home" radio module, which you connect to an Android handset or tablet (either via USB-OTG cable, or over

Millimeter Wave Beam Training and Tracking

Beam tracking is the adjustment procedure that the transmitter and/or the receiver adjusts its beams to guarantee the link stability for time-varying propagation environment. Beam training and

A Retrodirective Array Enabled by CMOS Chips for Two-Way Wireless ...

This article proposes and demonstrates a retrodirective array (RDA) for two-way wireless communication with automatic beam tracking. The proposed RDA is enabled by specifically designed

Angle Tracking Automatic Beamforming for Microwave Power Transfer ...

This paper proposes an automatic beamforming scheme using angle tracking to adjust beam direction of phased array transmitter for a microwave wireless power tra

Infineon provides MEMS technology for Valeo's ground | Infineon ...

Infineon provides MEMS technology for Valeo's ground projection module based on laser beam scanning presented at 2026 Auto Beijing

RFID Readers | Beam Hardware

Browse Beam's RFID reader collection. Handheld readers, fixed readers, overhead scanners, portals and more. All seamlessly integrated with the Beam platform.

8K ETS2 BEAM EYE TRACKER and My NEW/SMOOTH Hyper

To begin, download the Beam Eye Tracker application and install it on your system. The installation process is straightforward. Once installed, launch the program and follow the calibration procedure.

Acquisition, Aiming, and Tracking Technology

Microwave antenna does not need precise antenna alignment owing to its high transmitting power and large divergence angle. In contrast, wireless laser communication requires good beam

Auto-Tracking Wireless Power Transfer System With Focused-Beam

Abstract: This article used image recognition and beam forming technology to build a phased array with target tracking and transmitting the microwaves with a focused beam. The coordinate position of the

A Retrodirective Array Enabled by CMOS Chips for Two-Way Wireless ...

A retrodirective array (RDA) enabled by specifically designed CMOS chips for two-way wireless communication demonstration, featuring automatic beam tracking and reduced beam

Solar tracker

The tracking aims to minimize the angle between the beam light and the normal of the panel at any instant. Horizontal single-axis tracker with tilted modules (HTSAT)

TTGO T-BEAM V1.2 Meshtastic LoRa 433 MHz

TTGO T-BEAM Tracker LoRa GPS 433 MHz Bluetooth WIFI from TTGO by LilyGO, available in France, price and purchase at Passion Radio, dispatched within 24

Intelligent Beam Prediction and Tracking | part of Artificial ...

Beam prediction and tracking (BPT), as one of the most important techniques in high-frequency communications, e.g., the millimeter wave and Terahertz communications, play a key role in realizing

Auto-Tracking Wireless Power Transfer System With Focused-Beam

The transfer efficiency of the focused beam was improved higher than that of uniform phase beam within a distance of 50 cm. The automatic tracking power transmission system has a

A Retrodirective Array Enabled by CMOS Chips for Two-Way Wireless ...

The demonstration also showed that the proposed RDA offers a promising solution for mobile communication, with improved performance in real-time automatic tracking and beam steering.

Dynamic expansion of viewing zones in light field displays using an ...

We propose an advanced light field display system that dynamically expands the effective viewing zone by integrating an angular-aligned lens array (AALA), a compact electro-dynamic micro

RFID Inventory Management Platform | Beam

Track every item in real time with RFID and barcode. Warehouse, retail, rental and agriculture inventory management on one platform. Start in days.

Contact Us

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