Quick Track

Portable GPS Auto Tracking Receive Antenna

Applications

- Homeland Security
- Government and Law Enforcement
- High-Security Surveillance
- Broadcast ENG and OB

Key Features

- Continuous rotation
- Portable with Quick-connect features for easy setup and breakdown
- Available Bands:
  - 2/2.5 GHz
  - 2.3 to 2.7GHz
  - 4.4 to 5.0 GHz
  - 2/7 GHz
- Digital Ready 4/2 or 7/2 GHz Block Down Converter (Other frequencies available upon request)
- Optional Omni-directional/Uplook antennas for close-in operation
- Remote Control using Quick Track AccuScan Software
- Automatic longitude, latitude, and Elevation calibration for ease of system initialization
- Integrated high accuracy Global Positioning System (GPS) using Wide Area Augmented Surface (WAAS)

Compatibility

- CodeRunner 4 Central Receiver
- STRATA RX System
- RXL Digital Receiver
- AccuScan Remote Control System

Options

- Omni-Directional or Uplook Antennas

Overview

The MRC Quick Track is MRC's first portable rapid deployment receive antenna system. It can be set up and fully operational in minutes due to it's advanced automatic GPS Wide Area Augmented Surface (WAAS) calibration process.

The Quick Track provides a mobile receive system capability and is ideally suited for Homeland Security, First Responder Search and Rescue Operations, Tactical Military Operations, and Broadcast ENG and OB applications where ease of use and portability are paramount.

MICROWAVE RADIO COMMUNICATIONS

Quick Track GPS Auto Tracking Receive Antenna

The system features a high gain, off-set fed low profile antenna that scans in both azimuth (continuous rotation) and elevation using GPS data to align and automatically track its intended signal source. The system is typically used for tracking terrestrial mobile or airborne vehicles equipped with GPS data transmission capability.

Quick Track is available for 2, 5, and 7 GHz operation and can be configured for dual band receive applications at 2/5 GHz and 2/7 GHz.

The system also features an optional remotely selectable omni-directional or uplook antenna for extremely close-in tracking operations. A heavy-duty tripod is typically used as the Quick Tracks support structure, although the pan and tilt pedestal can easily be adapted in other mounting scenarios.

Remote control and monitoring of the system is provided by the AccuScan Quick Track software. The software is loaded onto a customer supplied PC and be either locally or remotely controlled by means of any RS-232 communications link in combination with an AccuScan Slave Control Unit.

SPECIFICATIONS

GENERAL SPECIFICATIONS

Gain:..... 20 dBi @ 2 GHz
21 dBi @ 2.44 GHz
28 dBi @ 4.4 to 5.0 GHz
30 dBi @ 7 GHz

Single or Dual Band
LNA Gain Reduction:..... 24/12 dB
Band Pass Filters
Azimuth –HPBW: ..... (nominal) 18.4 degree
Elevation – HPBW: ..... (nominal) 25.0 degree
F/B:..... –25dB min.
Side lob rejection:..... –20dB
Quad polarization: ..... H/V/RCP/LCP
Rotation: .....Continuous
Elevation: ..... +25 deg. to –15 degrees
Weight: ..... approximately 150 lbs.

Encoder/Decoder - GPS Data

DC slip ring
RF rotary joint
DC 115VAC input
Resolver with 1 deg. accuracy

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