

# The “Bright Star” for Satellite Communications



## RIGEL

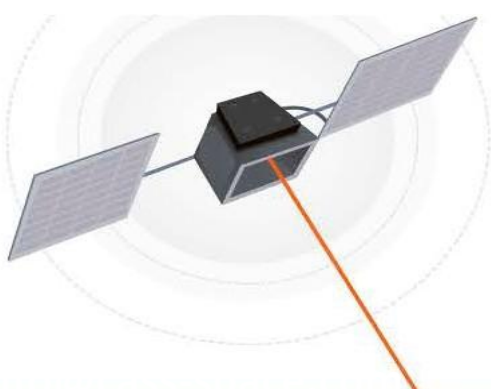
### MULTI-ORBIT SATCOM TERMINAL

Leveraging years of experience, the Cassiopeia Space Systems team developed a unique and innovative Multi-Orbit Satcom Terminal. The **RIGEL** terminal is replacing the traditional parabolic reflector with advanced Luneburg Lens Technology, purpose-built to deliver a “GAME CHANGING” terminal for the end user.

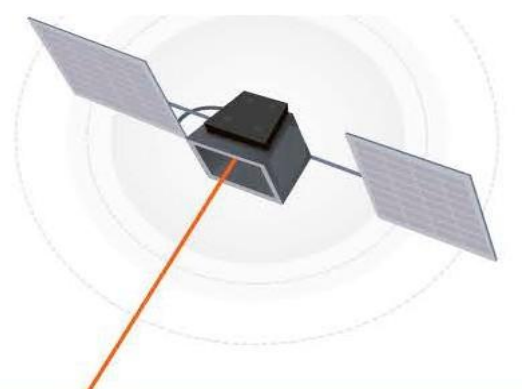
**RIGEL** Multi-Orbit Satcom Terminal is a new advanced user terminal with superior performance, low SwaP, and no scan-loss for LEO/GEO satellite network constellations within the global Satcom market (Maritime, Airborne, COTM, and Ground Stations).

As LEO satellites orbit faster than the earth’s rotation, the end user antenna must be capable of switching from one satellite to another without dropping the link.

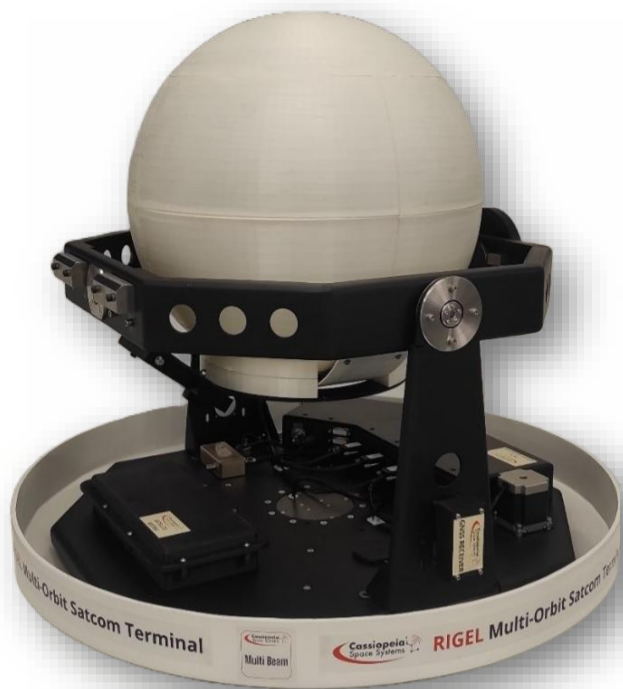
We have, therefore, designed the **RIGEL** to track two satellites simultaneously.



**RIGEL** tracks two satellites simultaneously  
Supporting “Make-Before-Break”



## RIGEL 18" (45cm)



## RIGEL 12" (30cm)



### RIGEL Main Components

- 1 Luneburg Lens with two Electronic Steered Elevation Beams
- 2 Two BUC & LNB Units
- 3 Antenna Control Unit (ACU) including IMU
- 4 Satellite Modem Unit
- 5 X/Y/Azimuth Stabilizer/Tracker
- 6 GNSS (Global Navigation Satellite System)
- 7 Radome Assembly



Cassiopeia Space Systems is headquartered in the United States. Ownership of the company includes Over-Sat Ltd. (Israel) and MIL-SAT (USA), with each party bringing to the partnership their extensive Satcom world experience and unique relative strengths.

### Cassiopeia Services:

Development and Production of Satcom Terminals

Installation and Commissioning

Satellite Airtime Capacity

