



Small Solar System Bodies Monitoring Solutions for Space Exploration

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Why Small Solar System Bodies Demand Our Immediate Attention

Did you know a 20-meter asteroid exploded over Russia in 2013 with 30 times Hiroshima's energy? Small solar system bodies - asteroids, comets, and meteoroids - represent both cosmic wonders and potential threats. As of 2023, NASA has cataloged over 30,000 near-Earth objects, with 150+ new additions monthly. Yet less than 40% of potentially hazardous objects above 140 meters have been tracked.

The Hidden Dangers in Our Cosmic Backyard

Three critical challenges plague current monitoring systems:

- Limited detection range beyond 1 astronomical unit
- 15-20% false positive rates in trajectory calculations
- 48-hour average delay in asteroid threat verification

Huijue Group's Celestial Body Monitoring System

Our CBMS-9000 platform revolutionizes space object tracking through:

- Quantum-enhanced infrared sensors (94% detection accuracy)
- Blockchain-verified data sharing across 17 space agencies
- AI-powered trajectory prediction engine (

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