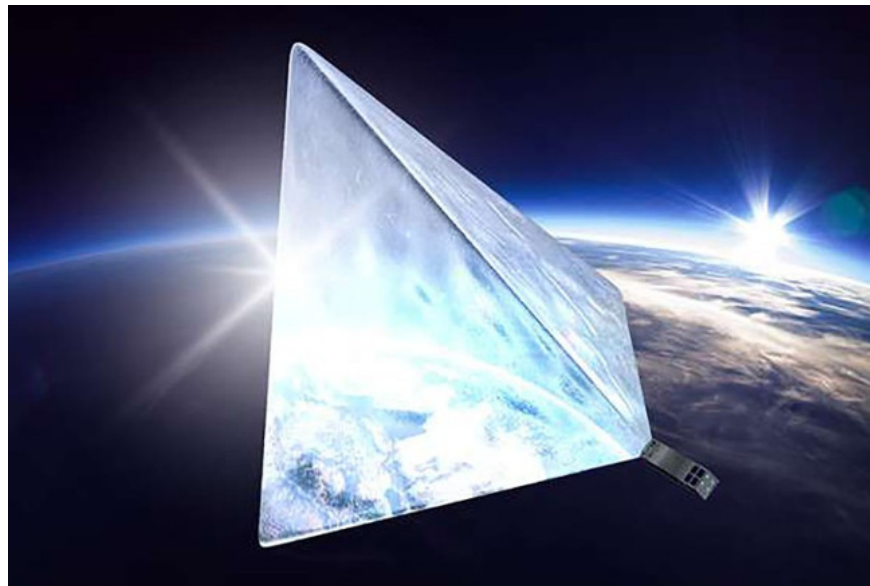


The brightest man-made star in the night is about to enter the universe in July

Satellite research on the universe Mayak - Russia's lighthouse will replace Thien Lang to become the most luminous object in the night sky when launched into space in July.

Satellite research on the universe Mayak - Russia's lighthouse will replace Thien Lang to become the most luminous object in the night sky when launched into space in July.

1. The star about to explode is 100,000 times brighter than the Sun, the light emitted can be observed from the Earth
2. 3D print missiles will be used to bring satellites to space in the future



Graphic of Mayak satellite when launched on Earth's orbit.(Photo: Mayak.)

On July 14, the space research satellite Mayak of Moscow Polytechnic University, Russia will be launched by Soyuz-2 boosters to orbit Earth.

Thanks to the sunlight reflection system being opened in orbit, the Mayak satellite will have an apparent brightness of -10. At that time, it would become the brightest "artificial star" in the sky of the Earth, so the light of familiar stars could be overshadowed.

Visible brightness or apparent star level is the scale of brightness of celestial bodies. The lower the apparent brightness, the brighter the celestial body. The sun has a visible brightness of -27, a full moon is -13. Currently the brightest artificial object is the International Space Station with an apparent brightness of -6, which is brighter than Venus with an apparent brightness of about -5.

With an apparent brightness of -10, Mayak is brighter than any other star in the sky, it is only slightly behind the Moon. Researchers can use the brightness of Mayak to study how best to calculate the apparent brightness of small satellites.

Light on Earth's atmosphere is recorded from satellites.(Video: U2Seek Truth.)

Mayak, which is very small in size, only 340.5x100x100 mm, weighs about 3.6 kg, contains power, control systems and most importantly, sunlight reflectors. When entering the orbit 600km from the Earth, these panels can be released in orbit to create a triangular sail with an area of 16m² and reflect light.

When the Mayak satellite completes its journey, the aerodynamic brake will be activated, which will help scientists test the new motion stop system to remove satellites.

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