

Euclid Space Telescope

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Euclid Space Telescope Latest News

Recently, the Euclid space telescope has delivered one of the most detailed views ever captured of the Milky way galaxy's crowded heart and revealed more than 60 million stars in a single extraordinary image.

About Euclid Space Telescope

- It is a 1.2-metre telescope launched in 2023 by the **European Space Agency**.
- **Objectives**
 - It is designed to **map large spatial structures, like galaxies**, in our universe and help reconstruct how the universe expanded and how galaxy structures are shaped the way they appear today.
 - It is designed to explore the composition and **evolution of the dark Universe**.
 - The space telescope will create a great map of the large-scale structure of the Universe across space and time by observing billions of galaxies out to 10 billion light-years.
 - It explores how the Universe has expanded and how structure has formed over cosmic history, revealing more about the role of gravity and the nature of dark energy and dark matter.

Payloads of Euclid Space Telescope

- It has two scientific payloads: Near-Infrared Spectrometer and Photometer (NISP) and Visible Imager (VIS).
- **Visible-Wavelength Camera (VISible Instrument - VIS)**
 - It captures **high-resolution images of galaxies**.
 - Helps detect tiny distortions in galaxy shapes caused by gravitational lensing—a method used to study dark matter.
- **Near-Infrared Spectrometer and Photometer (NISP)**
 - It measures **how fast galaxies are moving apart**, providing insight into the influence of dark energy over time.
 - Developed with NASA's contribution, including sensor-chip electronics and detectors

Source: IT

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