

Astro Viewer - User Manual

Welcome to Astro Viewer – Cosmos Explorer

Astro Viewer is your pocket gateway to the universe. Powered by NASA's vast image archives and curated astronomical catalogs, this app allows you to discover galaxies, nebulae, stars, and planets with ease. Whether you are an astronomy enthusiast or a curious explorer, the universe is now at your fingertips.

1. Getting Started

Search the Universe

1. **Launch the App:** Open Astro Viewer to see the main search screen.
2. **Enter a Keyword:** Tap the search bar at the top.
3. **Type in Any Language:** You can type in your native language (e.g., Korean, Japanese, French) or English. (Supports 100+ languages via auto-translation) The app automatically translates your query to English to fetch the best results from NASA's database.
 - *Example: Try searching for "Andromeda", "Black Hole", or "Mars".*
4. **View Results:** The app displays a list of search results, categorized into:
 - **Catalog Objects:** Curated data for famous celestial bodies.
 - **NASA Archive:** Real images and data from NASA's extensive library.

2. Viewing Images & Details

Tap on any item in the search list to open the **Image Viewer**.

Interactive Image Viewer

- **Zoom & Pan:** Pinch the screen with two fingers to zoom in on details. Drag to move around the image.
- **Immersive Mode:** Tap the image once to hide the text and buttons for a full-screen view. Tap again to bring them back.

Automatic Translation & Language Toggle

Our unique feature breaks down language barriers.

- **Auto-Translation:** Descriptions are automatically translated into your device's system language.
- **Language Switch:** Located at the bottom right of the text area.

- **Toggle OFF:** View the description in your **Local Language**.
- **Toggle ON:** View the original **English** description from NASA.
- *Note: The "Translated" or "English" label will highlight in yellow to indicate the current mode.*

Detailed Metadata

Want to know more technical details?

- Tap the **Info (i)** button at the top right.
- A sheet will appear displaying detailed metadata such as:
 - **Keywords** (e.g., Galaxy, Spiral, Hubble)
 - **Date Created**
 - **NASA ID**
 - **Photographer / Center** (e.g., JPL, GSFC)

3. Saving & Sharing

Download to Gallery

- Tap the **Download (↓)** icon at the top right.
- The high-resolution image will be saved directly to your device's photo gallery.

Share with Friends

- Tap the **Share** icon.
- You can share the image along with its title and description via social media, messaging apps, or email.
- *Smart Sharing:* If you are viewing the text in English, the shared message will be in English. If you are viewing the translation, the shared message will be translated.

4. Frequently Asked Questions (FAQ)

Q: Why do some items have no image? A: Some entries from the "Catalog Objects" are text-based astronomical data references. In these cases, a "No Image Available" icon will be displayed, but you can still read the scientific description.

Q: Does the app require an internet connection? A: Yes. While the Local Catalog works offline, searching the NASA Archive and using the translation features require an active internet connection.

Q: I searched in my language, but the results look different. A: The app translates your query to English to search NASA's database. Sometimes, specific local terms might be translated broadly, but we strive to provide the most relevant astronomical results.

Cosmos Explorer *Explore. Discover. Inspire.*