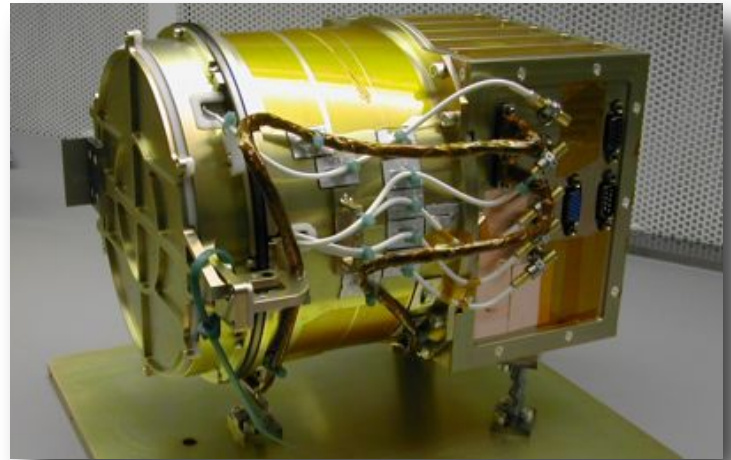




## Lunar Dust Experiment (LDEX)

The Lunar Dust Experiment (LDEX) is an impact ionization dust detector. It measures the mass of individual dust grains with  $m \geq 1.7 \times 10^{-16}$  kg (radius,  $r_g \geq 0.3 \mu\text{m}$ ) for impact speeds  $\approx 1.7$  km/s and also measures the collective current due to grains below the threshold for individual detection, enabling the search for dust grains with  $r_g \approx 0.1 \mu\text{m}$  over the terminators (see [Document](#)). LDEX is either **ON** or **OFF** - No other operational modes.



### Useful Mission Documents *(also found in [Document](#))*

- [Software Interface Specification \(SIS\)](#) — Description of the instrument and data structures
- [Calibration Document](#) — Description of the calibration methods
- [As-Flown Index](#) — List of intended observations in order of acquisition

### Archive Bundle Contents

- [Document](#) — Directory containing the document collection, which includes references to refereed journals using this instrument, and information about calibration and explanation of data structures.
- [Raw Data](#) — Directory containing the raw data files.
  - [Header](#) information
  - [Sample](#) product
- [Reduced Data](#) — Directory containing processed data files.
  - [Header](#) information
  - [Sample](#) product

### Other Useful Products for Interpreting the Data

- [References](#) — Publications by team members *(also found in [Document](#))*
- [Other Potential Relevant Data](#) — Data that may be relevant from missions other than LADEE
- [SPICE](#) — Archived LADEE SPICE ancillary data providing observation geometry (positions, orientations, instrument pointing, time conversions, etc.) are available from the [PDS NAIF Node](#).