

# Moon Dione

Mass:  $1.1 \cdot 10^{21}$  kg

Orbital period: 2.7 days

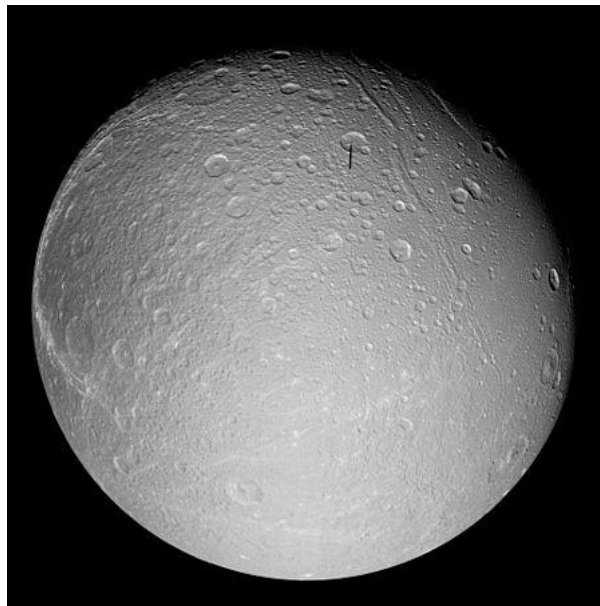
Distance: 377,420 km - here: 37.7 cm

Diameter: 1,123 km - here: 1.1 mm

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## Moon Dione



Picture (Dione):

Author: NASA

[https://de.wikipedia.org/wiki/Dione\\_\(Mond\)#/media/Datei:Dione-PIA07746.jpg](https://de.wikipedia.org/wiki/Dione_(Mond)#/media/Datei:Dione-PIA07746.jpg)

The name Dione comes from Greek mythology. Dione is a Titaness and the sister of Kronos (Roman: Saturn) and mother of Aphrodite (Roman: Venus). Dione is an icy moon, so it is covered by a continuous layer of ice. Dione has a bound rotation and always shows the same side to Saturn. The moons Helene and Polydeuces are in the same orbit. Each is in the L4 Lagrange point, 60° ahead, and in the L5 Lagrange point, 60° behind, respectively. Dione is also in a 2:1 orbital resonance with Saturn's moon Enceladus. Dione has a weak atmosphere of ionized oxygen atoms, about as thin as Earth's atmosphere at 480 km altitude.

**Important data of Dione:**

Semi-major axis:	377,420 km
Periapsis – Apoapsis:	376,580 km – 378,260 km
Eccentricity:	0.00223
Inclination (Saturn):	0.02°
Umlaufzeit:	2,74 d
Average orbital speed:	10.03 km/s
Mean diameter:	1,123.4 km
Mass:	about 0.0002 Earth masses ( $1.1 \times 10^{21}$ kg)
Mean density:	1.48 g/cm <sup>3</sup>
Sidereal rotation period:	2.74 d
Axis tilt:	0.006°
Surface gravity:	0.22 m/s <sup>2</sup>
Escape velocity:	512 m/s
Surface temperature:	- 186 °C (87 K)

**Link:** [https://en.wikipedia.org/wiki/Dione\\_\(moon\)](https://en.wikipedia.org/wiki/Dione_(moon))