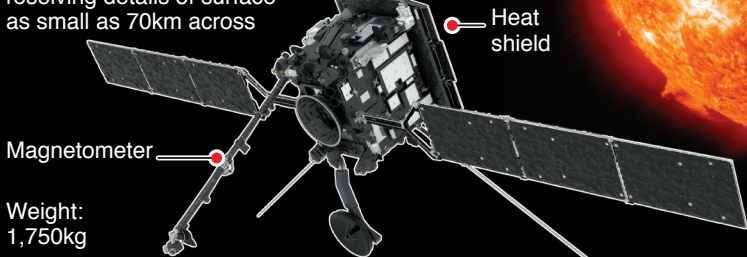


Solar Orbiter to peek at sun's secrets

A European mission aims to make unprecedented observations of the solar surface, including the first-ever views of the sun's poles

SoIo will venture to within 42m km of sun – about one quarter of its distance from Earth – resolving details of surface as small as 70km across



Instruments: Suite of 10 sensors will observe solar plasma and magnetic fields to better understand what drives sun's activity

Spectral Imaging of Coronal Environment

Heliospheric Imager

Energetic Particle Detector

X-ray Spectrometer/Telescope

Solar Wind Plasma Analyser

Extreme Ultraviolet Imager

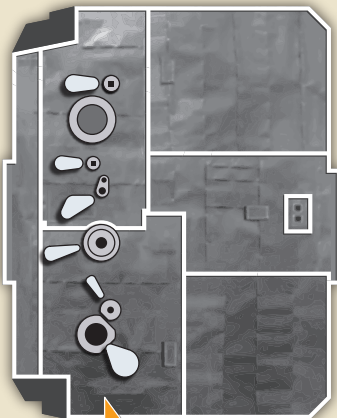
Coronagraph

Radio and Plasma Waves

Polarimetric and Helioseismic Imager

FRONT VIEW

Heat shield: Several layers of titanium, outermost covered in **Solar Black** coating able to withstand more than 500 degrees Celsius



Sliding doors for camera and telescopes will open just enough to let in sunlight needed to take pictures