Mirion Missions in the Milky Way

CUSTOMER TESTIMONY:

> “I was extremely happy working with this team. In our initial design we frequently met by phone and worked through different options. They provided excellent suggestions, and together we came up with the best solution. They were available to meet with very little notice, had excellent technical expertise, and kept the effort moving on or ahead of schedule.”

ACE | 1997
Rectangular segmented PIPS detector on the SEPICA instrument. Mission to sample low-energy solar particles and high-energy galactic particles.

BEPICOLOMBO | 2018
Telescope of 5 circular PIPS detectors of different sizes on the BERM probe. Europe’s first mission to Mercury.

MESSENGER | 2015
Square pixelated PIPS detector. Mission to understand Mercury, least-explored of the terrestrial planets.

EQUATOR-S | 1997
Circular PIPS detectors. Mission designed to study Earth’s magnetic environment above the equator.

CHANG’E-4 | 2019
Rectangular segmented PIPS detectors. First lander on the far side of the moon.

MARS ODYSSEY | 2001
On board spacecraft, Gamma-ray Spectrometer (1.2 kg) HPGe detector. Mission to study elemental composition and radiation on Mars.

JUICE | 2023
Sixteen-sided PIPS detector used on mission to study Jupiter’s icy moons.

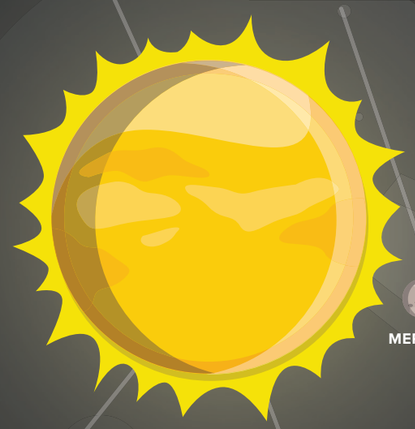
DOUBLE STAR | 2004
Rectangular PIPS detectors. Double satellite mission to study the effects of the Sun on Earth’s environment.

ARTEMIS | 2022
ATOM® dosimetric phantoms used on space flight beyond the moon to assist in measuring potential radiation exposure to astronauts. Crew Active Dosimeters (CAD) to study radiation exposure levels and keep crews safe.

MARS EXPRESS | 2003
Several circular, square and rectangular PIPS detectors on the Aspera instrument. Mission to characterise, photograph, and map the surface of Mars.

JUNO | 2016
Rectangular pixel PIPS detector. Mission to reveal the origin and evolution of Jupiter.

NEW HORIZONS | 2015
Rectangular pixel PIPS detector on the PEPSSI instrument. Mission to take precise measurements on Pluto.



MERCURY

VENUS

EARTH

MOON

MARS

PSYCHE

JUPITER

SATURN

URANUS

NEPTUNE

PLUTO

ULTIMA THULE

SOLAR ORBITER | 2020
EPT & HET – circular pixel PIPS detectors on the EPD probe. Segmented PIPS detector (annular segment) on the SWA instrument. Mission to explore the inner heliosphere and the effects of solar activity on it.

STEREO | 2008
Trapezoidal segmented PIPS detector on plastic instrument. Mission to study the Sun and the nature of its coronal mass ejections (CMEs).

SOHO | 1995
Several circular, square and rectangular PIPS detectors on the ERNE instrument. Space-based observatory for viewing and investigating the Sun from its core, through its atmosphere, out to a distance ten times beyond the Earth’s orbit.

PAMELA | 2016
Square segmented PIPS detector. First satellite-based experiment dedicated to the detection of cosmic rays.

VAN ALLEN PROBES | 2012
Rectangular pixel PIPS detector. Mission to explore the Van Allen Radiation Belts.

MMS SPACECRAFT | 2015
Rectangular pixel PIPS detector. Investigates how the Sun’s and Earth’s magnetic fields connect and disconnect.

PROBA-V SATELLITE | 2013
Segmented PIPS telescope detector on the EPT instrument. Mission to survey space radiation levels.

PSYCHE | 2023
HPGe detector used on mission to metal asteroid to uncover the mysteries of planet formation.

CASSINI | 2017
Several circular, square and rectangular PIPS detectors on the MIMI instrument. Mission to explore the wonders of Saturn and its family of icy moons.

MARS CURIOSITY | 2012
Pixel PIPS detector coupled to scintillators on the RAD instrument. Mission to explore and quantitatively assess the surface of Mars.

NEW HORIZONS | 2019
Rectangular pixel PIPS detector on the PEPSSI instrument. Most distant object ever explored.

MIRION
TECHNOLOGIES