

AEROSPACE

Application: *PRISMA Environmental Satellite*



PRISMA is an Earth observation satellite with innovative electro-optical instrumentation, which combines a hyperspectral sensor with a medium-resolution panchromatic camera. The advantages of this combination are that in addition to the classical capability of observation based on the recognition of the geometrical characteristics of the scene, there is the one offered by hyperspectral sensors, which can determine the chemical-physical composition of objects present on the scene. This offers the scientific community and users many applications in the field of environmental monitoring, resource management, crop classification, pollution control, etc. Further applications are possible in the field of National Security.

PRISMA is a program completely funded by the Italian ASI and is a follow on of HypSEO mission

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Project: Solar Port Shutter

One of the experiments onboard PRISMA observes the spectrum and light intensity of the sun and space around it. When the satellite turns and causes this

equipment to view the sun directly, the level of radiation would damage the observation sensors. The shutter is needed to reduce the amount of light energy received and to protect against this source of damage.

MACCON contribution:

For this project MACCON designed, manufactured and supplied a special rotary actuator for the control of the Solar Port Shutter.

MACCON also provided the actuators for the "Main Port Shutter" and "Small Shutter" for the same satellite.

