CPMON ENVIRONMENTAL MONITORING STATION







Cabin installed on a platform

Radio comm. between cabins and host PC

Detectors: ion chamber (gamma) and air particulate monitor (alpha-beta)

Photovoltaic panels

Data management software with graphical user interface







The **CPMON** monitoring stations are designed to be installed in reference positions of an area (i.e. territory portion) subject to environmental monitoring.

Each cabin hosts a NAUSICAA IC-T ion-chamber-based gamma monitoring unit and/or an alpha-beta air particulate monitor, as well as the power storage batteries connected to the photovoltaic panels installed on the top. **CPMON** communicates with a central host PC through a radio connection.

The cabins can be mounted on top of support structures, and they are properly insulated and ventilated to ensure the best thermal conditions and weather protection. Doors and stairs to access the instrumentation are designed to ensure high safety levels

The photovoltaic panels are connected to the instrumentation through a charge controller. The batteries are charged by the panels during the day, to guarantee overnight operation.

The **CPMON** stations are particularly suited to perform environmental monitoring, being designed to house several kind of detectors and instrumentation, all managed by a user-friendly remote software.

The stations can be linked together to form a monitoring network. The connection is established via radio directional antennas mounted on the cabins, and omni-directional antennas for reception-transmission from the host PC.

The 5700 sMON software installed on the host PC enables the management overview of the whole monitoring system, displaying in real time the values of dose rate, the alpha-beta activity concentration and the status of monitors.

The data are stored in history files on a daily basis and saved into the hard drive, and can be viewed and printed at any time. If an alarm is detected, the local unit immediately transmits the data, updated every second, without waiting for the query.

Detailed information about NAUSICAA IC-T and 5700 sMON employed in CPMON stations are available in dedicated data sheets.



Example of CPMON internal equipment