

Customized Product Solutions

Nucare offers "design engineering" solutions which provide a customized product by innovative system design and engineering skills needed to satisfy required performance from client debrief to end product





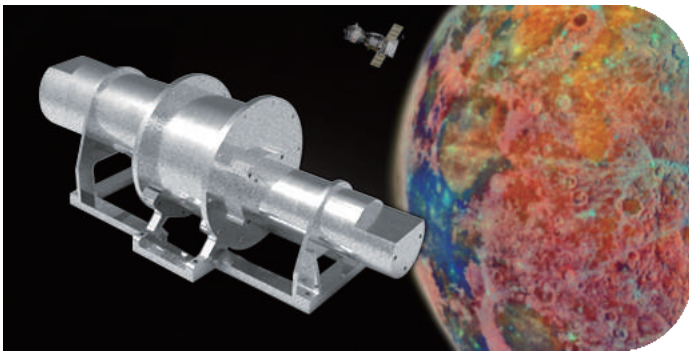
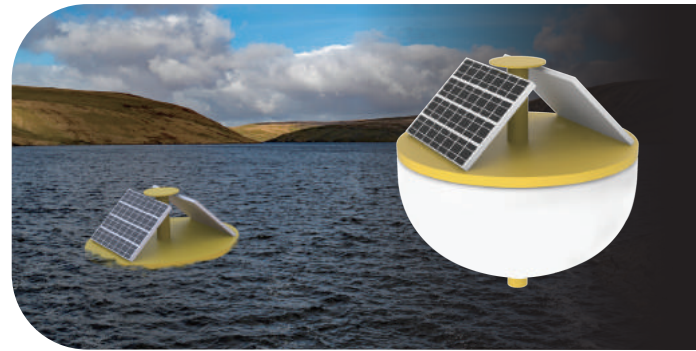
Uranium Measurement System

These portable devices are designed for analyzing enrichment of uranium. The system consists of four CZT (CdZnTe) solid-state detectors packaged within shielding housing made by heavy metals. Nuclear fuel pallet and UF-6 container can be measured by simple change of its configuration and detachable accessories.



Underwater Radiation Monitoring System

Underwater radiation monitoring is important task in protecting the drinking water source and for immediate alarm to public. Self-powered by solar panel, the unit can self operate without power in open water. Multiple units can be operated as a group via wireless communication each other. The unit can be equipped in a boat for area survey of open water.



KGRS (Korea Gamma Radiation Spectrometer)

KGRS is the gamma spectrometer for KPLO(the Korea Pathfinder Lunar Orbiter) which is being developed to launch in 2018. The purpose of the KGRS is to measure the gamma ray of the lunar surface and make a mineral map. The equipment consists of LaBr3 for a main detector and a plastic scintillator for a shield detector.

Mössbauer Spectrometer

Mössbauer Spectrometer is one of non-destructive analyzing technique of examining samples using low energy x-ray. The detector consists of Si PIN diode and electronics for signal application and processing. Easy sample load/unload and adjustable distance control are key features of the system.

