# Deep, Dive Long Range Submersible


National Oceanography Centre
NATURAL ENVIRONMENT RESEARCH COUNCIL

## Company National Oceanography Centre

The National Oceanography Centre (NOC) is a marine science research and technology institution, which studies the world's oceans from the Caribbean through to the Arctic Ocean.

## Product

Deep, long range, submarines

## Application

Compact camera controllers to photograph the life on the seabed.

## Background

NOC have built a range of autonomous underwater vehicles that are unmanned without a tether, their long range submarines use ARM processors and boards which consume less than 2W. Their submarines are used to photograph marine specimens, controlled with LP-170 boards. When discussing new technology with NOC, they were keen to keep the same system disk image and wanted to stay with it for future builds. Initially they wanted to build another two camera systems. Due to the work **BVM** had done within the marine industry previously, they looked to **BVM** to acquire the embedded LP-170 boards they needed.

## Challenges

The submarines have to be submersed to 6000 meters deep and work reliably, for up to six months.

## Solution

**BVM** presented NOC with the LP-170 boards.

## Outcomes

NOC inferred that there are other areas of the centre that will also be using embedded technology in the future, with regards to monitoring equipment at the bottom of vessels and **BVM** may be a supplier to count on for an embedded solution. **BVM** work well to provide embedded and technology solutions within the marine industry.

*We like to make life easier*