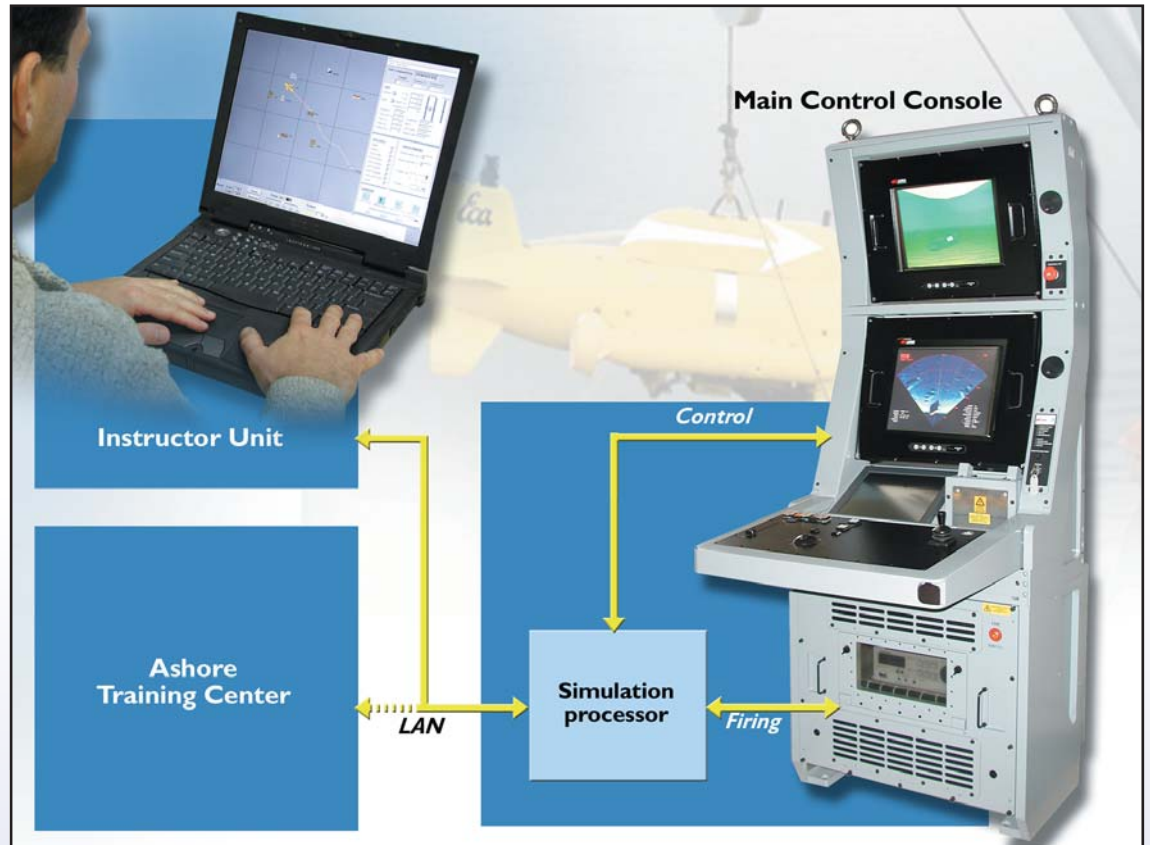


UUV Simulator

Simulator



TYPICAL USE

UUV Simulator has been designed to fulfil the training needs of Navies for instruction at mine-warfare school and/or increasing the efficiency in using the MDV(*).

Regular (on board or ashore) training of MDV operators leads to:

- drastically reduce the run time in particular in severe current conditions
- decrease significantly the number of FO link failure due to unskilled operator
- minimise fibre optic bobbin consumption resulting in important cost savings (depending on the exact system configuration)

MAIN CHARACTERISTICS

UUV Simulator is applicable to the whole range of ECA's MDVs. Different versions exist for PAP, OLISTER and K-ster.

There are two main configurations:

- shore based system with laptop, computer rack and MDV MCC,
- onboard version integrated with MDV MCC.

The monitor PC allows to select navigational, environmental and target parameters to adapt each simulation to the current level of operators and to debrief all exercises.

The system provides the operator with the necessary qualification to achieve a successful run.

(***MDV**: Mine Disposal Vehicle)

UUV Simulator

Simulator

Hardware

As a stand alone cabinet or as a standard 19" single drawer to be integrated in a console, it includes:

- . a modem (F.O. or coaxial)
- . transcoder for F.O. version
- . simulation processor.

The simulation processor, using real time software, provides:

- . simulation of MDV hardware and hydrodynamic behaviour
- . simulation of MDV video camera images (in 3D) and MDV sonar data
- . communication with the Main Control Console (MCC) and scenario control links.

The onboard version comprises a laptop PC Instructor Unit.

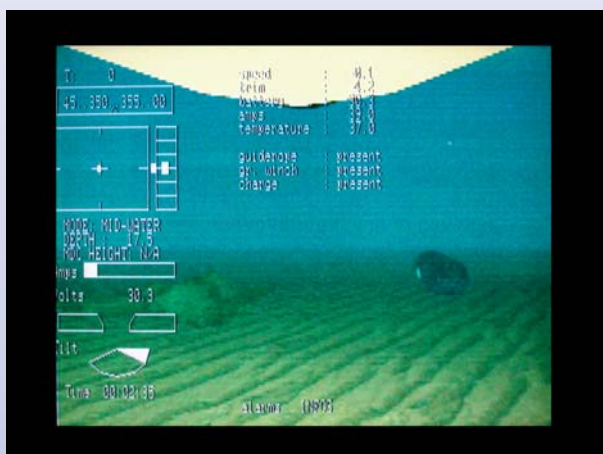
Simulation

Includes pre-run checks, launching, midwater and seabed navigation, mine detection and classification, identification, with different sea bed type, depth, current, visibility conditions, payload release, return, recovery and safety procedures.

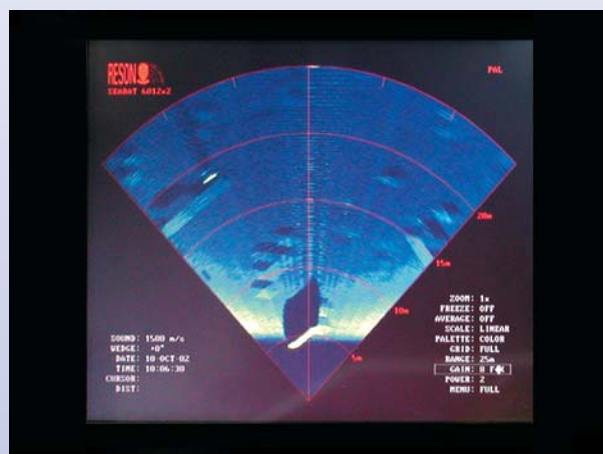
The exercise starts after the instructor has entered the run conditions.

It also exists at all times the possibility to simulate failures such as water ingress or cable severage.

When the trainee has completed his exercise, a debriefing can be given by the instructor thanks to a recording system included in the simulator.



Video camera image simulation



Sonar image simulation