

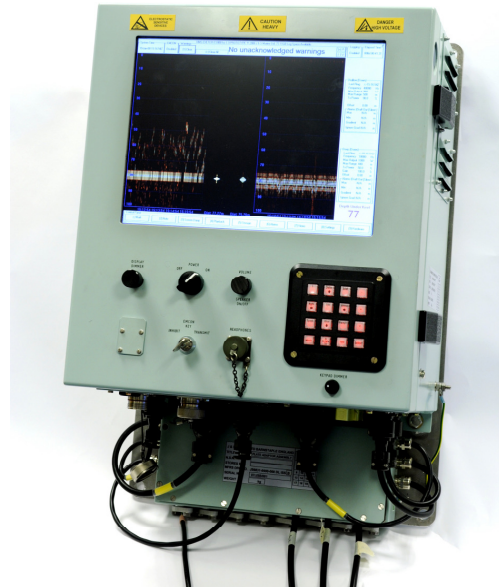
Echosounder 800 (ES800)

The Royal Navy's next generation Echosounder (ES800) has been designed and developed by J+S and will be installed fleet wide in 2011.

In addition to conventional depth measurement it also displays separation data between submarines and surface ice and calculates the thickness using pressure depth information. Information is displayed on local and remote displays and recorded to disk for archive and review.

ES800 is a dual channel system capable of interfacing to 10kHz and 30kHz or 48kHz transducers.

Its design incorporates COTS components and open architecture philosophies, thus reducing through life support costs and effort. Operation and maintenance are simple and future component obsolescence issues have been designed out.



- ES800 displays data on an integral flat screen and up to two remote displays.
- ES800 can record in excess of 90 days of data internally. Files can be written to DVD, for post mission analysis on a standalone PC.

SYSTEM DESCRIPTION

- ES800 Recorder Unit (two on submarine installations)
- ES800 Remote Display Unit
- ES800 Universal Switch Box - platform specific to interface to existing transducers
- ES800 Playback Software – for post mission data analysis using standalone PC

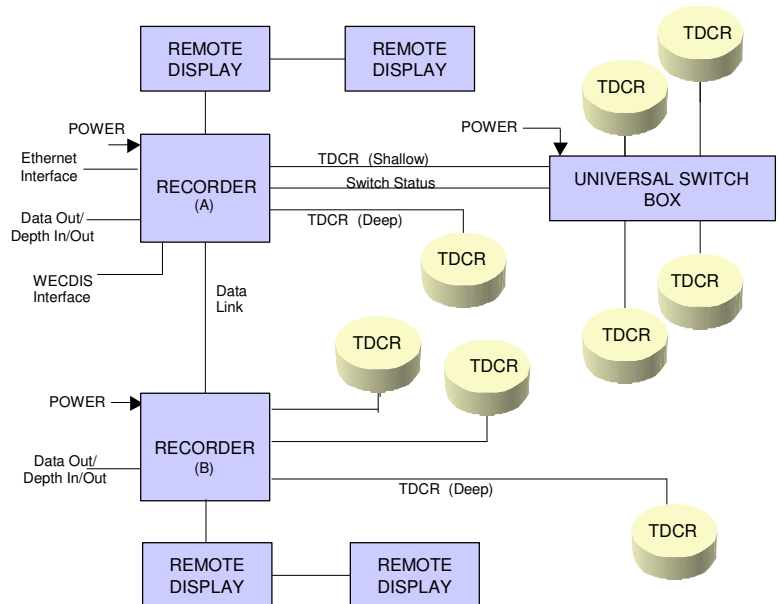
The ES800 system units are available in various configurations to meet different Platform fits.

Specifications

Echosounder 800 (ES800)

The figure below illustrates connectivity between the main components of ES800 for a dual recorder installation (submarines):

- Two ES800 Recorders can be connected to share data.
- Existing transducers are connected directly to the ES800 Recorder via the currently installed Tuning or Switch Boxes.
- Existing transducers and interconnecting cables are used to reduce installation complexity.
- ES800 outputs data in serial NMEA, Ethernet and WECDIS formats amongst others.



ES800 PLAYBACK SOFTWARE

- The ES800 log files can be played back on the ES800 and on any standard PC based computer running Windows XP.
- The software enables the user to load and view recorded data files, providing displays similar to that provided by the ES800 Recorder.
- The operator has the ability to navigate within the playback file.

System Specifications:

Size (Recorder):	470mm x 420mm x 285mm
Weight:	34kg
Power Requirements:	115VAC 60Hz or 230VAC 50Hz, <230W
Interfaces:	WECDIS, Depth Interface Unit (Submarines) JVH, NAUTIS 3 PIDS, OIS, NIC(TSSBN), DDMP, Ethernet DTS
Max Depth:	8800m
Frequency:	10kHz, 30kHz, 48kHz