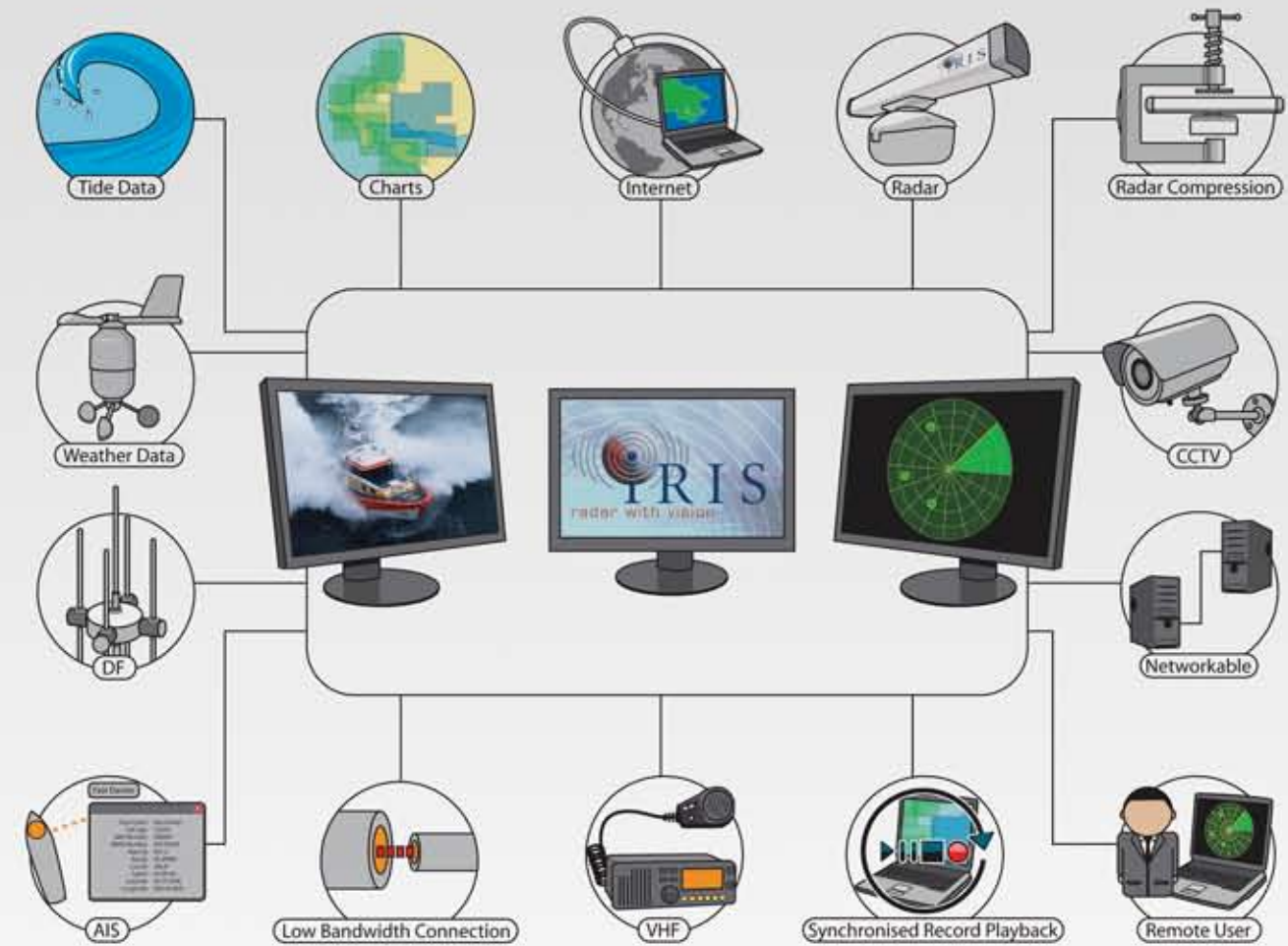


Marine and Port Technologies



Radar specifications with 2.4M antenna

Horizontal beamwidth at the 3dB point:	0.8°
Vertical beamwidth at the 3dB point:	25°
Range resolution on short pulse (up to 1NM):	7.5 metres
Range resolution on medium pulse (1 - 6NM):	30 metres
Range resolution on long pulse (12 - 72NM):	90 metres
Bearing resolution:	± 0.35°
Screen measurement accuracy:	7.5metres / ±0.35° or 1 screen pixel, whichever greater
Radar Extractor & Tracker	
Track course error after 3 min steady state:	<1 °
Speed Accuracy:	Max +/- 0.2 knots
Range Accuracy:	Better than 2 metres after 1 minute
Bearing accuracy:	Better than 0.3°
Position accuracy:	Better than 2 metres after 1 minute

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 BIRKENHEAD
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 +44 (0)151 647 3100

incorporating





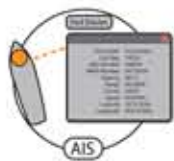
Iris offers all the functionality expected of a high performance radar including alarms, target information, target tracker, moving-target enhancer, zone handling, user-friendly interface on a Windows platform, range and compass ring, picture offset, pan and zoom, measurement tools and a vessel track database. A selection of radar scanners from manufacturers including Kelvin Hughes, GEM, Raytheon and Raymarine is available depending upon requirement.



Iris allows for the integration of multiple CCTV cameras and almost any camera control functionality is available. Supported types include Infrared, auto focus, manual focus, thermal camera, low light cameras etc. The CCTV data is stored as part of the same file as other sensor data and so in playback mode, all information is played back synchronously.



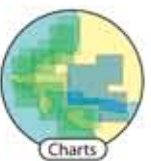
Iris records radar video, alarms, target information, CCTV, AIS information, VHF and landline voice and system information. All data is recorded in its raw form and can be replayed synchronously in its original form or by adjusting the presentation on screen.



AIS tracks are presented on the chart view, along with summary details in the track list with full tabulated details in the database view and full detailed popup information boxes on individual vessels. All views can be configured to present different subsets of the available data, which can be searched and sorted.



Fully integrated multi-channel recording for VHF, telephone and microphone voice audio is available. The data is stored as part of the common record file so is played back synchronously with all sensor data to give a complete record of the situation at the time. The User Rights management system allows selected channels to be locked to certain users.



Developed in-house, the chart system supports vector charts using the S57 chart database standard available from a great many Hydrographic offices throughout the world. The chart system enables full presentation control of the layers within the chart database presented using the S52 standard symbology. We also support chart data available in S63 format and the UKHO Admiralty Vector Chart Service (AVCS).



The system is fully networkable and expandable so that additional displays and scanners in other locations can easily be incorporated, either at the time of installation or at a later date if necessary. Any of the displays can then view any of the radars and any number of displays can view the same radar simultaneously. The network can be over the Internet, LAN or wireless.



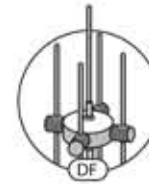
Ledwood Technology offer a range of training packages depending upon requirement. These range from basic user functionality training to full-blown VTS operator training offered by third-party providers. Training packages can be conducted on-site or at our offices in Birkenhead.



A full range of maintenance and support packages are available ranging from telephone and email support to remote access to the Iris system over the Internet or on-site repair and maintenance.



Iris can integrate tide gauges and a range of Weather Data systems. As is usual with the Iris system, all sensor data is recorded as one file and can be played back synchronously.



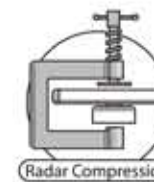
Direction Finding (DF) and triangulation DF can be incorporated into the system.



Using advanced radar compression systems, shore based radar pictures can be transmitted to interceptor vessels at sea allowing them to view a wider area than would be possible with on board radar. Combining command and control data with the radar data stream allows shore based controllers to covertly manage several interceptor vessels to provide improved security over a wide area of coastline.



Ledwood Technology are a Alvarion CASS Premium Partner ensuring a high degree of expertise in advising and installing wireless networks.



Ledwood Technology have developed a range of lossless and lossy radar video compression technologies together with techniques to send radar data over low bandwidth connections with very little loss in the quality of the display.