



DIGITAL CHARTS AND PUBLICATIONS



DATEMA
NAUTICAL SAFETY

Digital charts & publications

Part of the Nautical Safety Group, Datema was founded in 1955 and since developed from a small supplier of charts and nautical publications into a modern multidisciplinary company, prominent in the field of nautical Safety and navigational Data. Our main focus areas are paper and digital Charts & Publications, Safety & Rescue and Service Solutions. The company and its employees are currently based in Delfzijl and Rotterdam, supplying our products to shipping companies, ship owners, shipyards, as well as ship dealers and agents throughout the world.

With the mandation of ECDIS from July 2012 onward many vessels within the SOLAS fleet will have to make the transfer from paper to digital Navigation in the coming years. The use of officially approved ENC's is the standard. Finding the right balance between the digital chart management tools, ECDIS hardware and communication systems will proof to be the biggest challenge in the coming years. Datema has always been a front runner in respect to developments in ENC supply solutions, ECDIS systems, Ship to Shore communication and data traffic. Especially in the area of developing innovative management

tools for navigational data, we are at the helm and set the course for others. Already back in 2007 we introduced our digital chart catalogue Chartplanner, which still sets the standard today by allowing vessels to automatically have 24/7 access to ENC/ARCS permits and updates and all digital NTM's by a click of a button. In 2009 we were the first to introduce the innovation award winning ENCTrack pay-as-you-sail concept. This rare and valuable combination of traditional craftsmanship and high-tech nautical solutions sets Datema apart and provides us with a solid base for a new and challenging digital era...

OUR DIGITAL PRODUCTS

ENC
ENC's or S-63 encrypted electronic charts, provided from an official source, can be used to replace or reduce paper charts onboard SOLAS vessels. Datema can provide worldwide ENC data from Primar, IC-ENC and the UKHO (AVCS). All our ENC services only contain ENC data that meets Safety of Life at Sea (SOLAS) Carriage Requirements for use within Electronic Chart Display and Information Systems (ECDIS).

ARCS
ARCS charts are the UKHO's paper chart portfolio presented in a digital format. Over 3000 charts provide extensive, official coverage of international commercial shipping routes, main ports and harbors at a comprehensive range of scales. ARCS charts are licensed on a chart by chart basis to give you maximum flexibility. All ARCS charts have the same familiar image and use the same internationally recognized symbology as Admiralty paper charts - making them the easy first step from chart table to electronic navigation.

ADP
Admiralty Digital Publications (ADP) are a collection of digital versions of the UKHO's industry Admiralty Nautical Publications, used by mariners around the world. ADP has been designed to meet SOLAS carriage requirements and, where approved by

the vessel's Flag State, can replace the requirement for carriage of traditional Admiralty paper publications. ADP currently includes; Admiralty TotalTide (ATT), Admiralty Digital List of Lights (ADLL) and Admiralty Digital Radio Signals Volume 6 (ADRS6).

ECDIS
The Maris ECDIS900 series has been developed based on extensive experience of a world-class innovative engineering team with several 'world firsts' in maritime electronics with radar data processing, radar data extraction, display presentation and electronic cartography. The Maris ECDIS 900 MK10 is second to none in user friendliness and functionality. The unique hardware design of the ECDIS900 MK10 integrates the CPU and display along with all interfaces into one compact single unit. This single unit design offers many advantages for servicing and installation. This makes the Maris ECDIS900 MK10 the ideal ECDIS for retrofit installations.



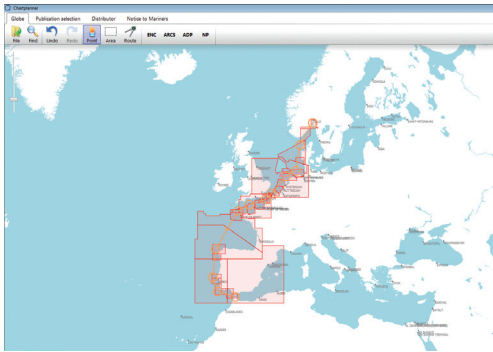
Satellite Communication
Datema VSAT is the fastest, most compact maritime VSAT broadband system in Europe. Developed through a partnership with ASTRA and KNS, Datema now offers a dedicated superfast and LOW cost package, ideal for commercial vessels, yachts and small boats in European waters. Datema VSAT uses the Global Technology Package, the complete communications solution for maritime users.

A full set of packages from stand alone to large networks onboard. Everything from crew mailmessaging, web browsing, SMS, tracking and antivirus, available in one compact piece of on-board hardware. Offering total control for office staff, customer-scan activate and deactivate services remotely meaning the very latest communications solutions are available without additional hardware, installation or administration.

OUR DIGITAL SERVICES & SOLUTIONS

ENC Online / Chartplanner

Datema first introduced the ENC-Online service in 2007. Our free digital chart catalogue Chartplanner is the core of this service and the first multivendor digital chart catalogue able to show geographical coverage for standard Admiralty ARCS charts, Admiralty publications, and ENCs from multiple sources. What really sets our pre-paid ENC-Online service apart from other digital chart management systems in the market is that we have fully integrated our Chartplanner and back office activities via a B2B link to Primar and IC-ENC, allowing us to fully automate the entire planning and ordering process.



There is no physical handling of any kind. The result; Chartplanner allows you to access permits to up to date ENCs and ARCS navigational charts, digital updates and NTM's at the click of a button, making it the first truly automatic 24/7 Online ENC service in the world!

ENCTrack

Datema was the first to set the new standard in digital marine navigation by introducing the revolutionary ENCTrack pay-as-you-sail service. With ENCTrack securing all the appropriate ENC permits up front and conducting license management - as with commonly known pre-paid services - will become a thing of the past. Through the ENCTrack service the vessel will have the possibility to pre-install all available scale

charts directly into the ECDIS when subscribing to the service, allowing you complete flexibility in voyage planning. You never have to think about license management again. The system is safe, very user friendly and efficient. ENCTrack will track your vessel in real time, immediately registering which ENCs are being used and when, and charge you only for those ENC's that are actually used. The ultimate pay-as-you-sail solution!



OUR DIGITAL SERVICES & SOLUTIONS

UPDATING SERVICES

With the move towards paperless navigation, digital updating becomes more and more important. One of the major improvements of our ENCTrack service is the fact that you no longer need to conduct any ENC license management since all PAYS approved permits are pre-installed on the ECDIS. The only thing you need to do is to update your ENCs weekly. For pre-paid services such our ENC-Online service you need updates weekly and

every time you install new permits. Datema is able to offer 3 different updating services:

- As a standard service we supply a customized Update CD
- Digital ENC updates are available via our Chartplanner platform and will be send by email.
- For vessels with V-SAT we have a smart updating service called ENC4SAT.

DIGITAL NTM / T&P SOLUTION

The weekly edition of the Admiralty Notices to Mariners contains information which allows the mariner to keep his Admiralty published Charts and Publications up-to-date. The full NTM booklet in digital format is available and can be retrieved via our

Chartplanner platform and will be send by email. For historical reference an NTM plugin needs to be installed. This Chartplanner NTM plugin is available via our Digital back office in Delfzijl as a download, or can be send to you via CD-ROM.

T&P SOLUTION

Retrieving the relevant T&P notices for the upcoming voyages is a very time consuming task. Datema has developed a simple and effective T&P solution within our Chartplanner

platform, whereby all in force T&P notices are displayed graphically within the Chartplanner software. The full notice text is also available as HML file within the same solution.

Datema Nautical Safety

We facilitate a safe and carefree navigation. In a world in which navigational safety is becoming increasingly important, it's our mission as your reliable partner to really take care of all your safety & navigational needs. Our committed team of specialists work from a long nautical tradition and focus on original and innovative solutions.



YOUR PILOT IN NAUTICAL SAFETY

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