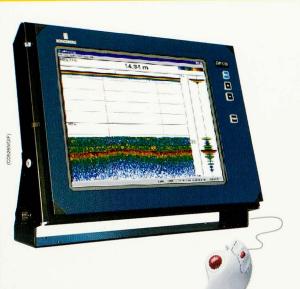


EA 600

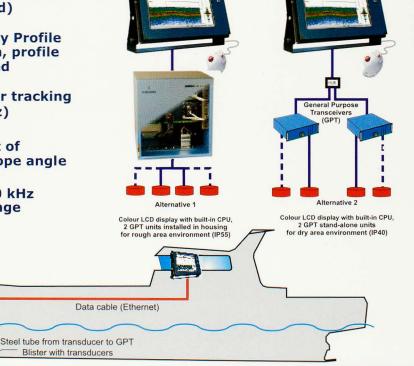
New Generation Hydrographic Single-beam Echo Sounder



- Flexible configuration saves installation costs on new-build or retrofit
- Quick & easy Microsoft Windows user interface
- Local storage on HDD
- Export of data to writeable CD or Ethernet
- Up to four frequencies simultaneously controlled independently

EA 600 Alternative Configurations

- 15 or 18 inch color LCD display (19 inch rack or table mounted)
- Sound Velocity Profile compensation, profile editor included
- Passive pinger tracking mode (12 kHz)
- Continuous measurement of alongtrack slope angle
- 12 kHz to 710 kHz frequency range





Colour LCD display with built-CPU & 2 GPTs

KONGSBERG SIMRAD

Tel.: 47 33 02 38 00 Fax: 47 33 04 47 53

UK Tel.: 44 1 224 226 500 Fax: 44 1 224 226 501 USA Tel.: 1 713 934 8885 Fax: 1 713 934 8886

Singapore Tel.: 65 899 5800

Fax: 65 899 1225

Dartmouth, Nova Scotia Tel.: 1 902 468 2268 Fax: 1 902 468 2217

Tel.: 39 6 65 57 579 Fax: 39 6 65 57 859 WEB:

www.kongsberg-simrad.com

EMAIL:

horten.sales@kongsberg-simrad.com

June 2001

THE INTERNATIONAL HYDROGRAPHIC REVIEW

SPONSORED BY THE INTERNATIONAL HYDROGRAPHIC ORGANISATION

Published by:

GITC bv, Nieuwedijk 43, 8531 HK Lemmer Tel.: 0514-561854, Fax: 0514-563898 E-mail: mailbox@gitc.nl, Website: www.gitc.nl

CONTENTS		
Editorial Adam J. Kerr	5	
■ Articles		
Matthew Flinders: Pathway to Fame foe Doyle	6	
Implementation of WGS84 and GPS for Marine Navigation Terry Moore, Vidal Ashkenazi and Mark Dumville	19	
A Standardised Algorithm of the Determination of Position Errors by the Example of GPS with and without 'Selective Availability'	20	
Ingo Harre	29	
On the Relative Effects of Using Sector or Median Lines for Partitioning the Juridical Continental Shelf beyond 2000 Nautical Miles in the Arctic Ocean Paul Neto and Rob van de Poll	37	
Setting Nautical Charting Priorities A Regional Approach for Managing Limited Resources Steve Barnum	45	
Impact of Radar Integration with Electronic Charting Helmut H. Lanziner	53	
Hydrographic Surveying without a Tide Gauge Reha Metin Alkan	68	
Notes		
A Note on Emerging Hydrographic Technology & Applications Michael J. Casey	80	
ECDIS Regulations in the Real World Joost van Aalst	88	
The Leeuwin Class Hydrographic Ships Enhancing the Royal Australian Navy's Knowledge of Its Operating Environment		
Bruce Kafer	90	
ECDIS Type-Approval - A Brief Primer Lee Alexander	96	
■ Book Reviews		
Continental Shelf Limits: The Scientific and Legal Interface P.J. Book and C.M. Carleton	98	
To Go upon Discovery The review has been prepared by Tony O'Connor	101	
Secrets & Lies: Digital Security in a Networked World	103	

The International Hydrographic Review

Publishing Company :GITC by

President :Ing. Johan Boesjes
Publication Director :Drs. Ing. Floris Siteur
Editor-in-Chief :Adam J. Kerr

Editorial Board :Michael Casey :Joe Doyle :Horst Hecht

:Rear Admiral Giuseppe Angrisano (International Hydrographic Organisation)

Editorial Manager :Nynke van den Berg :Wilmiene Bakker

Instructions for Contributors

The International Hydrographic Review is an international journal publishing original works on all aspects of hydrography and associated subjects, ranging from the latest technical developments to history. It also provides a medium for discussions in the form of shorter articles

and notes. Submissions should be send to:

Mr. Adam Kerr Flagstaff Cottage Lamorna

Penzance Cornwall TR19 6XQ UNITED KINGDOM

Tel./Fax.: +44 (0)1736 - 731 976

E-mail: kerr@cwcom.net

8530 AC Lemmer THE NETHERLANDS Tel.: +31 (0)514 - 56 18 54 Fax: +31 (0)514 - 56 38 98

Nynke van den Berg

Fax: +31 (0)514 - 56 38 98 E-mail: nynke.vandenberg@gitc.nl

Submissions should be either as attached e-mail files or as two hard copies.

ARTICLES should be 4.000-6.000 words long, although longer articles may be considered. Authors are responsible for ensuring that all manuscripts are typed accurately before final submission. Contributions are normally received with the understanding that they comprise original, unpublished material and are not being submitted for publication elsewhere. Most articles will be refereed to ensure both accuracy and relevance and amendments to the script may be required before final acceptance. On acceptance, contributions are subject to editorial amendment. When time permits, authors will receive a copy of the final article before publication.

NOTES of approximately 1,500-2,000 words may be accepted if the subject does not lend itself to a full article. These will not be refereed but will be subject to editorial comment and amendments.

MEETING REPORTS. When appropriate, the Review may contain reports of relevant meetings. **BOOK REVIEWS** are welcome. These should normally be approximately 1,000 words in length.

LETTERS TO THE EDITOR are welcome.

Layout of Articles

- Short title (up to 40 characters including spaces), subtitle (if desired), author(s) name(s) and affiliation(s)
- Abstract of approximately 100 words, outlining in a single paragraph the aims, scope and conclusions of the paper
- Main body of text, with sub-titles to emphasise changes of topic. Ideally in blocks of approximately 500 words
- References
- Appendices as required
- Illustrations in original form with captions, provided separately from the text. The use of coloured illustrations should be discussed prior to submission of the articles

References

GITC by

Box 112

Bibliographical references should be listed at the end of the articles in the standard Harvard form. Footnotes should be kept to a minimum and the metric system used throughout.

Delivery of Material

Typescript: Deliver the manuscript on disc or by e-mail, preferably on Microsoft Word or RTF. Send an identical hard copy by mail or fax. Illustrations: We prefer to receive hard copy illustrations (e.g. photographs, slides or negatives). If you decide to deliver digital illustration material, please note that the minimum resolution of the illustrations should be 367 dpi at reproduction size and conform to one of the following formats: TIFF, JPEG, BMP, GIF or TIF.

Reprints

Reprints of all articles (including articles published in earlier issues) can be ordered. For more information, please contact Nynke van den Berg at GITC.

Copyright

Any permission needed to incorporate material published elsewhere is the responsibility of the authors and it will be assumed that such permission has been maintained.

The publisher is not responsible for statements made in the articles or advertisements nor is responsible for typing or converting errors.

No material may be reproduced in whole or in part without written permission of GITC by

Subscription Information

The Journal is published twice a year by GITC bv. Subscription rates are available upon request from the publisher. The Journal can be ordered only by subscription. Subscription orders should be sent to the publisher.

Copyright © 2001 GITC bv. The Netherlands All rights reserved ISSN 0020-6946