



中国船级社  
CHINA CLASSIFICATION SOCIETY

证书格式号/Form: T01.02-  
HQ001666

型式认可证书  
CERTIFICATE OF TYPE APPROVAL

证书编号/Certificate No. GB14T00017

兹证明本证书所述制造厂生产的下列产品能够满足下面列明认可标准的要求。

This is to certify that the following products produced by the manufacturer stated in the certificate can meet the requirements of the approval standards listed below.

认可产品/ Product Approved

回声测深仪  
ECHO SOUNDER

制造厂/ Manufacturer

SKIPPER Electronics AS

SKIPPER Electronics AS  
Enebakkveien 150, Ryen Oslo  
Enebakkveien 150, Ryen Oslo

附加标志/ Notations

无/Nil.

认可标准/ Approval Standard

1. IMO Resolution A.694(17)  
IMO Resolution A.694(17)
2. IMO Resolution A.224(VII), as amended by IMO resolution MSC.74(69), Annex 4  
IMO Resolution A.224(VII), as amended by IMO resolution MSC.74(69), Annex 4
3. 中华人民共和国船舶检验局《国际航行海船法定检验技术规则》(1999)第4篇第五章  
Chapter 5 of Part Four the Technical Rules for Statutory Survey of Sea-going Ships Engaged in International Voyages of Register of Shipping of the People's Republic of China, 1999
4. IMO Resolution MSC.191(79) and 2000HSC Code 13  
IMO Resolution MSC.191(79) and 2000HSC Code 13

证书有效期至/ This Certificate is valid until

2018年1月25日 / Jan. 25, 2018

发证机构  
Issued by

中国船级社哥德堡办事处  
CCS Gothenburg Office

签发日期  
Date

2014年5月25日  
May. 25, 2014

本证书根据中国船级社《钢质海船入级规范》及有关程序规定签发。关于证书的有关规定见本证书背面的说明，当本证书包括多页纸张时，则所有证书页为一个整体，必须同时使用。每一页证书均须由本社盖章方为有效。证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。本认可证书不代表本社对个体产品质量的检验。有关各方对所持证书的真实性有疑问时，可以向本社检验机构咨询。  
This Certificate is issued pursuant to the Rules for Classification of Sea-going Steel Ships and related procedures of the Society. Refer to the back of the certificate for detailed requirements of the certificate. When the certificate consists of more than one page, all pages of the certificate are taken as a whole and are used simultaneously. No certificate page is valid without bearing the stamp of the Society and no copied form of the certificate is regarded as valid. Any part of the certificate is not to be extracted or abridged by any unit or individual in any form. This approval certificate does not constitute the inspection of the Society about the quality of the unit/batch product. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices.

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Nº 13141413

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**产品明细/ Product Description**

回声测深仪/ECHO SOUNDER	
产品型号/Model	: GDS 101
测量范围/Measure range	: 0-1600 m
主要部件/Main Components	: as listed under others field

**批准的图纸和设计计算书/ Approved Drawings and Design Calculations**

图纸批准号/ Drawings Approval No.	: GB05T00024
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**产品认可试验报告/ Approval Test Report**

试验报告编号/Test Report No.	: 50989
试验报告日期/Test Report Date	: 2005-09-08
试验单位/ Laboratory	: Nemko
试验单位地址/ Test Address	: Norway
试验报告编号/Test Report No.	: E08580.00
试验报告日期/Test Report Date	: 2008-11-21
试验单位/ Laboratory	: NEMKO
试验单位地址/ Test Address	: Norway
试验报告编号/Test Report No.	: Operational test report
试验报告日期/Test Report Date	: 2009-02-23
试验单位/ Laboratory	: Skipper Electronics AS
试验单位地址/ Test Address	: Norway

**产品适用范围/ Application of the Product**

The certificate is also valid for the echosounding equipment with type designations:  
 (1) Kongsberg Maritime EN 250  
 (2) Raytheon GDS 101  
 (3) Kelvin Hughes GDS101

**认可保持条件/ Maintenance Requirements of Approval**

1. 型式认可后, 如果产品及其重要零部件的设计、所用材料或制造方法有所改变, 且影响到产品的主要特性、特征; 或产品的性能指标有所更改, 且超过认可的范围, 则有关图纸和文件应经检验机构审批。并在检验机构认为必要时, 经本社检验人员见证有关试验和进行检查, 其结果应能证实仍符合认可条件。  
 After type approval, if there are changes to the design, materials used or manufacturing method of the product and important components and such changes affect major characteristics and properties of the product, or property indexes of the product are changed and exceed the scope of approval, related drawings and documents are to be examined and approved by the concerned survey office. Where deemed necessary by the survey office, the surveyor to the Society will go to witness relevant tests and conduct inspection and the results should be able to demonstrate compliance with the approval conditions.
2. 工厂的质量管理体系应保持有效运行, 并且与认可时一致。如果质量管理体系发生改变, 应经原体系认证机构审核并报告本社批准。  
 The quality management system of the factory shall be ensure effective operation, and shall be the same as the situation of approval. If there are any changes to the quality management system, auditing of the original certification organization for quality management system and the society's approval shall be obtained.
3. 认可证书有效期内, 如果出现可能导致本社取消认可的情况, 工厂应及时采取有效的纠正措施。  
 Within the validity of the approval certificate, if cases occur that may cause the Society to withdraw the approval, the manufacturer should take corrective actions in a prompt and effective manner.
4. 在认可证书有效期内, 本社检验人员可在未经事先通知的情况下对工厂的产品制造过程进行审核, 以验证产品的生产是否符合业经本社批准的图纸和文件。工厂应予以配合。  
 Within the validity of the approval certificate, the surveyor to the Society may pay unannounced audit to the manufacturing process of the product in order to confirm whether it is in compliance with the drawings and documents approved by the Society. The factory should provide an active cooperation and necessary for the surveyor.

**认可后的产品检验方式/ Method of Product Inspection after Approval**

按照规范逐件检验的产品/The product inspected one by one in term of the rules:

认可后的产品检验应由本社验船师根据本社规范规定逐件按批准的产品检验计划进行检验, 经检验合格后由本社颁发产品证书。

After approval, product inspection should be carried out one by one by the Surveyor of the Society in accordance with the approved product inspection scheme, and the Product Certificate will be issued by the Society upon satisfactory inspection.



**对于原材料和零部件的检验要求/ Inspection Requirements for Materials and Components**

产品如下原材料和零部件应由本社认可的制造厂生产/The following materials and components of the product should be manufactured by the factory approved by the Society:无/Nil.

产品如下原材料和零部件应经本社检验,持有本社产品证书/The following materials and components of the product should be inspected and certificated by the Society:无/Nil.

产品如下原材料和零部件的制造厂清单,经本社批准方可变更/The list of manufacturer for the following materials and components of the product should not be changed without the Society's approval:无/Nil.

**免责声明/Statement of Responsibility**

本社的认可不影响、替代与本社授权或检验无关的各方对上述工厂的认可和发证,并且不对与本社授权或检验无关的各方负责,不承担其未经应允而承认、接受本社认可所导致的法律和经济责任。

The approval of the Society does not affect and replace any approval and certification of the manufacturer by any parties that bear no relation with this Society's authorization or survey and therefore takes no responsibility for these parties. The Society does not undertake any legal and economic liabilities arising from accepting this Society's certificate without prior permission from this Society.

**其他/Others**

本证书由原型式认可证书(No. GB10T00002)换新并替代原证书。  
This certificate is renewed from and supersedes the previous Type Approval Certificate No. GB10T00002.

1, Product description

Hardware Modules:

- (1) Echo sounder operator unit GDS101
- (2) Transducer 50 kHz; TGM60-50-xxL
- (3) Transducer 200kHz; NGM100-200-xxL and TGM50-200-xxL

Note: xx is numerical value for the cable length in meters

Software Modules: SW version 5. xx

2, Transducer and Junction Box: IP66

Operator Unit Cabinet: IP23

3, Optional Equipments includes:

- 1) Remote dimming control: IR30DIM
- 2) Transducer selector switch fore/aft : ENS518 SW version 2. xx
- 3) Digital depth repeater: Skipper IR301

本社已审核了产品厂无石棉声明,但本社的审核不免除产品厂按照合同关系向订货方保证产品无石棉的责任。  
The declaration of asbestos-free submitted by manufacturer has been reviewed by the Society. However, liability of the manufacturer to guarantee the products are asbestos-free to purchaser under contract will not be exempted.

中国船级社哥德堡办事处

CCS Gothenburg Office

\*\*\*\*\*本证书正文完/ End of Text\*\*\*\*\*

