



中国船级社
CHINA CLASSIFICATION SOCIETY

EC 型式检验 (模式 B) 证书
EC TYPE EXAMINATION (MODULE B) CERTIFICATION

证书编号/Certificate No.: CCSG22MEDB003

兹证明:中国船级社(希腊)有限公司,作为希腊政府认定的指定机构(No.2676),对下述列明产品进行了型式认可工作,认为满足欧盟船用设备法令(2014/90/EU)及其修正案的要求。

This is to certify that: CCS (Greece) Ltd., specified as Notified Body No. 2676 by Government of Greece, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the requirement of the DIRECTIVE 2014/90/EU on Marine Equipment and its amendments.

制造厂和地址/ Manufacturer and Address

上海圆舟电子科技有限公司
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授权代表和地址/ Authorised Representative and Address (if applicable)

Mr. John Lagos
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依据指令/Directive Reference

MED Directive 2014/90/EU, Implementing Regulation (EU) 2021/1158

认可产品/Product Approved

船用雷达
Marine Radar

MED 条款号/MED Item No: No. 4.34, No. 4.35, No. 4.36 OF (EU)2021/1158

证书有效期至/ This Certificate is valid until

2027 年 6 月 28 日/ June 28, 2027

本地机构

中国船级社上海分社

Local Office

CCS Shanghai Branch



NB No. 2676

签发日期

2022 年 6 月 10 日

Date

June 10,2022

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。本认可证书不代表本社对个体产品质量的检验。

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. This approval certificate does not constitute the inspection of the Society about the quality of the unit/batch product.



Product certification
No of Certificate 978-3

中国船级社总部/CCS
headquarters:

指定机构/Notified Body

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认可标准/ Specified Standards

1. SOLAS 74 Reg. V/19. 《船载导航系统和设备的配备要求》
Carriage requirements for shipborne navigational systems and equipment
2. MSC.191(79)决议 《船载航行显示器有关航行信息的性能标准》
Performance standards for the presentation of navigation-related information on shipborne navigational displays
3. IMO A.694(17) 《作为全球海上遇险和安全系统（GMDSS）组成部分的船载无线电子设备和电子航海设备的一般要求》
General requirements for shipborne radio equipment forming part of the global maritime distress and safety system(GMDSS) and for electronic navigational aids
4. IMO A.278(VIII) 《航海雷达设备性能标准建议的补充》
Supplement to the recommendation on performance standards for navigational radar equipment
5. IMO MSC.302(87) 《驾驶台报警管理的性能标准》
Adoption of performance standards for Bridge Alert Management
6. MSC.192(79)决议 《经修改的雷达设备性能标准》
The revised Performance Standards for Radar Equipment
7. ITU-R M.1177-2011 《测量雷达系统无用发射的方法》
Techniques for measurement of unwanted emissions of radar systems
8. IEC 60945-2002 (incl. Corr.1-2008) 《海上导航和无线电通信设备及系统 -- 通用设备 -- 一般要求 -- 测试方法和要求的测试结果》
Maritime navigation and radiocommunication equipment and systems -- general equipments -- general requirements- methods of testing and required test results
9. IEC 61162 -1: 2016 《海上导航和无线电通信设备和系统 -数字接口》
Maritime navigation and radiocommunication equipment and systems -- digital interfaces
10. IEC61162-2: 1998 《海上导航和无线电通信设备和系统 -数字接口》
Maritime navigation and radiocommunication equipment and systems -- digital interfaces
11. IEC 62388-2013 《海上导航和无线电通信设备和系统 -- 船载雷达 -- 性能要求, 试验方法和要求的试验结果》
Maritime navigation and radiocommunication equipment and systems -- Shipborne radar -- Performance requirements, methods of testing and required test results
12. IEC 62288-2014 《海上导航和无线电通信设备和系统--船用导航显示器上导航相关信息的显示、通用要求、试验方法和要求的测试结果》
Maritime navigation and radiocommunication equipment and systems -- Presentation of navigation-related information on shipborne navigational displays -- General requirements, methods of testing and required test results
13. IEC 62923-1:2018 海上和无线电通信设备及系统-船桥警报管理
IEC 62923:1:2018 Maritime navigation and radiocommunication equipment and systems -- Bridge alert management-Part1:Operational and performance requirements,methods of testing and required test results
14. IEC 62923-2:2018 海上和无线电通信设备及系统-船桥警报管理
IEC 62923:2:2018 Maritime navigation and radiocommunication equipment and systems -- Bridge alert management-Part2:Alert and cluster identifiers and other additional features



产品明细/Product Description

序号/Number	产品属性/Product Description
1	型号/Type: YAR27 系列/ YAR27 series
2	系统组成/System configuration: 天线/Antenna, 收发机/RF Scanner, 性能监测器/PM, 主处理机 Processor, 显示器/Display, 鼠键操控台/Trackball & Keyboard
3	额定电压/Rated voltage: 110、220VAC, 24VDC/ 110、220VAC, 24VDC
4	软件版本号/Software revision: 收发机: 2701010-01.11、主机: 2722101-10.11/ Tranceiver:2701010-01.11, Processor:2722101-10.11
5	是否具有自动捕获目标功能/Whether includes auto acquisition of targets function: 是/YES
6	最少被捕获的雷达目标数/Minimum acquired radar targets capacity: 40/ 40
7	最少被激活的 AIS 目标数/ Minimum acquired AIS targets capacity: 40/ 40
8	最少休眠 AIS 目标数/ Minimum sleeping AIS targets capacity: 200/ 200
9	是否具有试操船功能/Whether includes trial manoeuvre function: 是/YES
10	罗经安全距离/Compass safe distance: 收发机: 1.8 米 (标准罗经)、1.4 米 (操舵罗经); 主机、显示: 0.8 米 (标准罗经)、0.5 米 (操舵罗经) / Tranceiver: 1.8m(STD), 1.4m(STEER), Processor and Display: 0.8m(STD), 0.5m(STEER)
11	性能监测器型号/Performance monitor TYPE: RPM-X/ RPM-X
12	是否集成电子标绘 (EPA) 功能/Whether Electric Plotting Aid function be integrated into the radar equipment: 是/YES
13	是否集成自动目标跟踪 (ATA) 功能/Whether Automatic Tracking Aid function be integrated into the radar equipment: 是/YES
14	是否集成自动雷达标绘 (ARPA) 功能/Whether Automatic Radar Plotting Aid function be integrated into the radar equipment: 是/YES

显示器/Display

型号/Type	最小操作显示区直径/ Minimum operation display area diameter (mm)	最小显示区域 /Minimum display area (mm × mm)	SOLAS 适用 /Apply
RD19	290	376x301	CAT3&CAT2
RD20	295	408x306	CAT3&CAT2
RD23	340	470x353	CAT1



天线/Antenna

型号/Type	波段/Band	长度/Lengths
RAX12	X	4ft(1.2m)
RAX20	X	6.5ft(2.0m)
RAX24	X	8ft(2.4m)

收发机/ RF Scanner

型号/Type	峰值功率/Peak of output power(kW)	工作频率 /Frequency(MHz)	标识/Identifying
RTR12	12.5	9410±30	X-Band
RTR25	25.0	9410±30	X-Band

主处理机/Processor

型号/Type	电源/Power
RPA001	AC 110V,220V/DC 24V

图纸批准号/Approved drawings No.

CCSG22MEDB003

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

1	YAR27 系列 ARPA 雷达描述/ General Description of The Product Type
2	雷达机械图纸/ Technical Plan
3	雷达 BOM 机械清单/List of spare parts and components
4	雷达 BOM 电子清单/List of spare parts and components
5	电路板组装图/ Assembly and electric circuit plan
6	电路原理图纸/ Assembly and electric circuit plan
7	型式试验大纲/Type test program

使用限定 (如有) /Limitations of use (if any)

Nil.

产品认可试验报告和日期/Approval Test Report and Date

1 报告编号/Report No.: JECZ S20151127

报告日期/Report date : 2015-11-27



报告单位/Laboratory: 中国电子科技集团公司第三十六所计量测试中心/Measure and Test center of No.36 Research Institute of China Electronic Technology Group Corporation

2 报告编号/Report No.: JECZ S20151127-2

报告日期/Report date: 2015-11-27

报告单位/Laboratory: 中国电子科技集团公司第三十六所计量测试中心/Measure and Test center of No.36 Research Institute of China Electronic Technology Group Corporation

3 报告编号/Report No.: YZ20151116001

报告日期/Report date: 2015-11-26

报告单位/Laboratory: 上海圆舟电子科技有限公司/Shanghai YonZoe Electronics and Technology Co., Ltd.

4 报告编号/Report No.: JECZ S202009002

报告日期/Report date: 2020-09-29

报告单位/Laboratory: 中国电子科技集团公司第三十六所计量测试中心/Measure and Test center of No.36 Research Institute of China Electronic Technology Group Corporation

认可保持条件/Maintenance Requirements of Approval

1 本证书针对符合批准型式的产品是有效。制造厂应将已批准设备的任何更改和改变告知作为认证机构的中国船级社。

This certificate is valid for equipment, which conform to the approved type. The manufacturer shall inform CCS, as the Notified Body, of any modifications or changes to the approved equipment.

2 在证书的有效期内如相关的公约或标准发生修订, 产品在安装上船(公约和标准的修正案适用时)前应重新认可。

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

标志/Mark

在本证书的基础上, 如申请方能完全遵守与认证机构签署的书面检验协议和按照 MED 附录 II 中的生产监督模式(D, E 或 F)实施有效控制, 符合性标志(舵轮标志)可贴在批准型式的设备上以及发布一份制造厂的符合性声明。

This certificate does not allow to issue the Declaration of Conformity and to affix the mark of



conformity (wheel mark) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.

其他/Others

本地机构：中国船级社上海分社

Local Office: CCS Shanghai Branch

****本证书正文完/ End of Text****