



**UK Radio Interface Requirement 2020
for Radar 9 GHz (non-SOLAS) in the maritime
radionavigation service**

(Version 1.0)

98/34/EC Notification Number: 2000/246/UK

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References

IEC 60936 Maritime navigation and radio communications equipment and systems (Radar).

1. Foreword

- 1.1 The Radio Equipment and Telecommunications Terminal Equipment Directive 99/5/EC (R&TTE Directive) was implemented in the United Kingdom (UK) on the 8 April 2000 by The Radio Equipment and Telecommunications Terminal Equipment Regulations 2000, Statutory Instrument 2000 No. 730. In accordance with Articles 4.1 and 7.2 of Directive 1999/5/EC, this UK Radio Interface Requirement contains the requirements for the licensing and use of Radar 9 GHz (non-SOLAS) in the maritime radionavigation service. (SOLAS is The International Convention for the Safety of Life at Sea 1974 as amended)
- 1.2 Nothing in this UK Radio Interface Requirement shall preclude the need for equipment to comply with the requirements of Directive 1999/5/EC.
- 1.3 It is required by the Wireless Telegraphy Act 1949 that no radio equipment is installed or used in the UK except under the authority of a licence granted by or otherwise exempted by regulations made by the Secretary of State. It is a condition of such a licence or exemption regulations as appropriate that the equipment must meet the minimum requirements specified in this UK Radio Interface Requirement for the stated equipment types and for the stated frequency bands.
- 1.4 The requirements given in the main body of this UK Radio Interface Requirement will apply to the licensing of Radar 9 GHz (non-SOLAS) in the maritime radionavigation service in the UK.
- 1.5 This UK Radio Interface Requirement will be revised as necessary, for example to follow:
 - i) current technology developments for reasons related to the effective and appropriate use of the spectrum in particular maximising spectrum utilisation; and
 - ii) changes to the available spectrum allocated for Radar (9 GHz non-SOLAS) in the maritime radionavigation service in the UK.
- 1.6 All UK Radio Interface Requirements notified under Directive 98/34/EC will be published and will be made available free of charge from the RA Information and Library Service and/or the RA web-site. The addresses for both the Library and the web-site are given on the back cover of this document.
- 1.7 Further information on this UK Radio Interface Requirement can be obtained from the technical enquiry contact given on the back of this document.

2. **Minimum Equipment Requirements for Operation within the UK**

- 2.1 The minimum radio requirements in this document are made for reasons related to the effective and appropriate use of the radio spectrum, in particular maximising spectrum utilisation.
- 2.2 This UK Radio Interface Requirement gives a high level description of how the spectrum in the UK is used for Radar 9 GHz (non-SOLAS) equipment in the radionavigation service. It does not prescribe a technical interpretation of the ‘essential requirements’ of Directive 1999/5/EC.
- 2.3 This UK Radio Interface Requirement therefore stipulates the necessary equipment parameters for the licensing of Radar 9 GHz (non-SOLAS) equipment in the radionavigation service in the UK. Table 2.1 contains the relevant equipment parameters. These together with the ‘essential requirement’ detailed in Article 3.2 of the Directive 1999/5/EC constitute the minimum equipment requirements for Radar 9 GHz (non-SOLAS) equipment within the UK.
- 2.4 The technical parameters specified in the UK Radio Interface Requirement are applied to achieve the desired level of compatibility within the Radar 9 GHz (non-SOLAS) Service and with other radiocommunications services whilst promoting enterprise, innovation and competition.
- 2.5 This UK Radio Interface Requirement provides the necessary technical information which facilitates access to the Radar 9 GHz (non-SOLAS) Service spectrum by making clear the assumptions that are made in planning the use of the Radar 9 GHz (non-SOLAS) Service spectrum in the UK. It is not the intention of this UK Radio Interface Requirement to duplicate or impose any additional ‘essential requirements’ of the Directive 1999/5/EC on products. Any specified parameters within this document are for the purpose of identifying product options and not as a national product requirement.

Table 2.1: Minimum Equipment Requirements

Frequency range	Licence Class & Radio Service	Additional requirements
9 320 – 9 500 MHz	Ship Radio Licence / Navigational Aid* licence Maritime radionavigation service *In the case of a Navigational Aid licence, licensing is subject to successful frequency co-ordination.	Licensed use of this equipment is dependent on the operator holding the relevant operator's certificate and Authority to Operate or being under the personal supervision of a holder of the relevant operator's certificate and Authority to Operate.

Maximum eirp (peak)	Class of emission	Frequency tolerance	Additional requirements
10 MW (70 dBW)	PON	1250 in 1E6	The bandwidth occupied by the emissions shall be maintained wholly within the band allocated to the service

Annex A Additional Performance Parameters (Informative)

- A.1 Reference specification IEC 60936 contains additional performance parameters and limits that the Radiocommunications Agency assume are fulfilled for Radar 9 GHz (non-SOLAS) in the maritime radionavigation service when planning and managing the radio spectrum in the UK.

Document history

Draft	Date	Changes

Radiocommunications Agency

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