

UK Interface Requirement 2021

**VHF Transmitters and Receivers for use at Coast
Stations in the Maritime Mobile Service**

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Section 1

References

- 1.1 EN 301 929 - Electromagnetic compatibility and Radio spectrum matters (ERM); VHF transmitters and receivers as Coast Stations for GMDSS and other applications in the maritime mobile service.
- 1.2 EN 300 338 - ETSI Telecommunications Standard – Electromagnetic compatibility and Radio spectrum Matters (ERM); Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service.
- 1.3 EN 300 086 - Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech.
- 1.4 Of 18 Ofcom Coastal Station Radio information booklet.

Section 2

Foreword

- 2.1 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 Interface Requirement contains the requirements for the licensing and use of VHF transmitters and receivers for use at coast stations in the Maritime Mobile Service in the specified frequency bands.
- 2.2 Nothing in this UK Radio Interface Requirement shall preclude the need for equipment to comply with Directive 1999/5/EC.
- 2.3 It is required by the Wireless Telegraphy Act 2006 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 Ofcom. 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 Interface Requirement for the stated equipment types and for the stated frequency bands.
- 2.4 The requirements given in the main body of this UK Radio Interface Requirement will apply to the licensing of VHF transmitters and receivers for use at coast stations in the Maritime Mobile Service.
- 2.5 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 VHF transmitters and receivers for use at coast stations in the Maritime Mobile Service.
- 2.6 All UK Radio Interface Requirements notified under Directive 1998/34/EC will be published and will be made available free of charge from the Ofcom web-site at <http://www.ofcom.org.uk>
- 2.7 Further information on this UK Radio Interface Requirement can be obtained from the technical enquiry contact given at the back of this document.

Section 3

Minimum equipment requirements for operation within the UK

- 3.1 The minimum requirements in this document are made for reasons related to the effective and appropriate use of the radio spectrum, in particular maximising spectrum utilisation.
- 3.2 This UK Radio Interface Requirement gives a high level description of how the spectrum in the UK is used for VHF transmitters and receivers for use at coast stations in the Maritime Mobile Service. It does not prescribe technical interpretation of the 'essential requirements' of Directive 1999/5/EC.
- 3.3 This UK Radio Interface Requirement therefore stipulates the necessary equipment parameters for the licensing of VHF transmitters and receivers for use at coast stations in the Maritime Mobile Service in the UK. Table 3.1 contains the relevant equipment parameters. These together with the 'essential requirements' detailed in Article 3.2 of Directive 1999/5/EC constitute the minimum equipment requirements for VHF transmitters and receivers for use at coast stations in the Maritime Mobile Service within the UK.
- 3.4 The technical parameters specified in the UK Radio Interface Requirement are applied to achieve the desired level of compatibility within the VHF transmitters and receivers for use at coast stations in the Maritime Mobile Service and with other radiocommunications services, whilst promoting enterprise, innovation and competition.
- 3.5 This UK Radio Interface requirement provides the necessary technical information which facilitates access to the VHF transmitters and receivers for use at coast stations in the Maritime Mobile Service spectrum by making clear the assumptions that are made in planning the use of the VHF transmitters and receivers for use at coast stations in the Maritime Mobile 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 de facto product requirement.

Table 3.1: Minimum equipment requirements for CSR (Coastal Station Radio)

1	Frequency band (or bands)	156 MHz to 163 MHz in accordance with Of 18
2	Radio service	Maritime Mobile Service
3	Application	Coastal Station Radio
4	Channelling modulation	G3E, G2B (DSC), 25 or 12.5 kHz* *Although 12.5 kHz channel spacing is not permitted at present, it is intended that this will be permitted in the future. Initially, assignments will be on frequencies as published in the relevant section of the tables in Of 18. Subsequently, it is intended that 12.5 kHz interleaved assignments will also be permitted. G2B (DSC) will not be permitted on 12.5kHz channel spacing
5	Maximum transmit power limit	Maximum Carrier Power will be decided on a site by site basis but shall not exceed 25W.
6	Channel occupation rules	N/A
7	Duplex type/separation	N/A
8	Licensing Regime	Coastal Station Radio
9	Additional essential requirements	<p>Channels shall be in accordance with the relevant section of the tables in Of 18. Channels not Licensed shall be disabled. It shall not be possible for the operator to unblock disabled channels. The (international) channels parameters and operation shall be in accordance with the relevant sections of the ITU Radio Regulations Articles 5, 19, 30-33, 50-54, 57-58, Appendices 13 and 18 Licensed use of this equipment on the ITU Radio Regulations Appendix 18 channel 80 is dependent on the operator holding the relevant operator's certificate and Authority to Operate or the operator being under the direct personal supervision of a holder of the relevant operator's certificate and Authority to Operate.</p> <p>Reference standards EN 301 929, EN 300 338 contain additional performance parameters and limits that Ofcom assumes are fulfilled for coast stations operating in the maritime mobile service operating in the VHF bands, when planning and managing the radio spectrum in the UK.</p> <p>In the case of duplex operation and transmitter intermodulation, EN 300 086 contains additional performance parameters and limits for such operation, which Ofcom assumes are fulfilled, when planning and managing the radio spectrum in the UK.</p>
10	Frequency planning assumptions	N/A
11	Reference	EN 301 929, EN 300 338, EN 300 086 and Of 18
12	Remarks	N/A
13	Notification Number	2000/247/UK

Section 4

Additional performance parameters

(informative)

None specified

Section 5

Contact details

Ofcom, Riverside House, 2a Southwark Bridge Road, London, SE1 9HA

- Technical enquiries to:-
- Tel: 020 7981 3087
- Fax: 020 7981 3061
- Email: maat@ofcom.org.uk
- Website: <http://www.ofcom.org.uk/radiocomms/>

Section 6

Document history

Version	Date	Changes
1.0	04 Jan 2001	Published
2.0	21 Jul 2005	Rebranded to Ofcom format