

IR 2083 - UK Interface Requirement 2083

**Hand-held Very High Frequency (VHF) radiotelephone
equipment for the maritime mobile service operating in the
VHF bands with integrated class D DSC (Digital
Selective Calling)**

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Section 1

References

- 1.1 Draft ETSI EN 302 885-1 V0.0.3 (2010-05 methods of measurement)-
Electromagnetic compatibility and Radio spectrum Matters (ERM); Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated handheld class D DSC; Part 1: Technical characteristics and methods of measurement
- 1.2 Draft ETSI EN 300 338-5 V1.1.1 (2010-05) - 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; Part 5: Handheld VHF Class D DSC
- 1.3 Recommendation ITU – R M. 493 – 13 Digital selective calling system for use in the maritime mobile service.
- 1.4 IEC 61108-1:2003 (second edition) Maritime navigation and Radio Communication equipment and systems – Global navigation Satellite Systems GNSS Part 1: Global Positioning system (GPS) – Receiver equipment – Performance standards, methods of testing and required test results

Section 2

Foreword

- 2.1 The Radio Equipment Directive (Directive 2014/53/EU) was implemented in the United Kingdom (UK) by the Radio Equipment Regulations 2017. In accordance with Articles 8 and 7 of Directive 2014/53/EU, this UK Interface Requirement contains the requirements for the licensing and use of Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated handheld class D DSC in the specified frequency band.
- 2.2 Nothing in this UK Radio Interface Requirement shall preclude the need for equipment to comply with Directive 2014/53/EU.
- 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, in order to be installed or used in the UK, the equipment must meet the minimum requirements specified in this UK Interface Requirement for the stated equipment types and for the stated frequency band. Nothing in this UK Interface Requirement shall preclude equipment from being placed on the market in the UK that complies with the 'essential requirements' specified in Directive 2014/53/EU.
- 2.4 The requirements given in the main body of this UK Radio Interface Requirement will apply to the licensing of Portable Very High Frequency (VHF) radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated handheld class D DSC in the UK.
- 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 hand-held VHF radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated class D DSC.
- 2.6 All UK Radio Interface Requirements notified under Directive 2015/1535/EU 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 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 hand-held VHF radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated class D DSC. It does not prescribe technical interpretation of the 'essential requirements' of Directive 2014/53/EU.
- 3.3 This UK Radio Interface Requirement therefore stipulates the necessary equipment parameters for the licensing of hand-held VHF radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated class D DSC in the UK. Tables 3.1 contain the relevant equipment parameters. These taken together with the 'essential requirements' detailed in Article 3.2 of Directive 2014/53/EU constitute the minimum requirements for hand-held VHF radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated class D DSC within the UK. Nothing in this UK Interface Requirement shall preclude equipment from being placed on the market in the UK that complies with the 'essential requirements' specified in Directive 2014/53/EU.
- 3.4 The technical parameters specified in the UK Radio Interface Requirement are applied to achieve the desired level of compatibility within the hand-held VHF radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated class D DSC 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 hand-held Very High Frequency VHF radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated class D DSC spectrum by making clear the assumptions that are made in planning the use of the hand-held VHF radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated class D DSC 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 2014/53/EU 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 requirements for the use of: - hand-held VHF radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated class D DSC operating in the 156 MHz-163 MHz band

Mandatory (1-10)		
1	Frequency band	156 MHz – 163 MHz
2	Radiocommunication Service	Maritime mobile service.
3	Application	Hand-held VHF radiotelephone equipment for the maritime mobile service operating in the VHF bands with integrated class D DSC.
4	Channelling	For ITU Radio Regulations Appendix 18 International channels: G3E, G2B (DSC Ch 70) with a 25 kHz channel spacing. For Non International channels: 6.25 kHz, 12.5 kHz and 25 kHz channel spacing is permitted subject to availability.
5	Modulation / Occupied bandwidth	16K0G3E, 16K0G2B (DSC)
6	Direction / Separation	N/A
7	Maximum transmitter power	6 W e.r.p.
8	Channel access and occupation rules	N/A
9	Authorisation regime	Licence
10	Additional essential requirements	Compliance with Decision 2004/71/EC
Informative (11-13)		
11	Frequency planning assumptions	N/A
12	Planned changes	(a) Extending authorisation beyond UK waters when international agreement has been reached. (b) Identification with a different MMSI consistent with international agreement (c) Where necessary, alignment with non-draft standards References 1.1 and 1.2 on page 3, when published.
13	Reference	Recommendation ITU R M.493-13. See page 3 reference 1.3. See also references 1.1, 1.2 and 1.4
14	Notification	2010/xxx/UK
15	Remarks	(a) This equipment may be used in the United Kingdom and UK territorial sea only. (b) The equipment must be identified with an MMSI commencing with the digits '2359' until further notice.

Section 4

Additional performance parameters

(informative)

Not Applicable

Section 5

Contact details

Ofcom Spectrum Licensing
PO Box 1285
Warrington. WA1 9GL

Tel: 020 7981 3131

Email: spectrum.licensing@ofcom.org.uk

Website: <https://www.ofcom.org.uk/>

Section 6

Document history

Version	Date	Changes
1.0	April 2011	Published
1.1	January 2018	Replaced R&TTE Directive 1999/5/EC and Directive 98/34/EC with Radio Equipment Directive 2014/53/EU and Directive (EU) 2015/1535 respectively. Minor editorials