

RO-IR SRD-13

TECHNICAL REGULATION

for the radio interface

concerning assistive listening devices (ALD)

(previous coding RO-IR 18)

1. Basic Considerations

Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonization of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC was implemented in national legislation by Government Decision No 740/2016 on making available on the market of radio equipment, with subsequent amendments and completions.

This technical regulation contains the requirements for license-exempt use of radio spectrum by assistive listening devices in the specified frequency bands and considers compliance, especially, with the provisions of Article 3 Paragraph 2 and Articles 6-8 of Directive 2014/53/EU.

Nothing in this technical regulation shall preclude the obligation for radio equipment placed on the market or made available on the market in Romania to comply with Directive 2014/53/EU.

The obligations arising from Directive (EU) 2015/1535 of the European Parliament and of the Council of 9 September 2015 laying down a procedure for the provision of information in the field of technical regulations and of rules on Information Society services are met in this regulation (OJ L 241, 17.9.2015, p. 1-15).

All the Romanian technical regulations for the radio interfaces notified under Directive (EU) 2015/1535 shall be published and made available on National Authority for Management and Regulation in Communications (ANCOM) website at: https://www.ancom.ro/en/romanian-regulation_2719.

2. Radio Interface Specifications

Assistive Listening Devices (ALD)

Frequency band	Annex
100 Hz – 9 kHz	RO-IR SRD-13-01
169.4 – 169.475 MHz	RO-IR SRD-13-02
169.4875 – 169.5875 MHz	RO-IR SRD-13-03
169.4 – 174 MHz	RO-IR SRD-13-04
173.965 – 216 MHz	RO-IR SRD-13-05

For the purpose of this technical regulation, *a proximity radio device (short-range device - SRD)* means a radio device which provides either unidirectional or bidirectional communication and which receives and/or transmits signals over a short distance and at a low power.

The assistive listening devices (ALD) category includes radio communications systems that allow the improvement of listening capability for the persons suffering from hearing disability. Typical systems include one or more radio transmitters and one or more radio receivers.

For the purpose of this technical regulation, *non-interference and non-protected basis* means that no harmful interference may be caused to any radio communications services and that no claim may be made for protection of these devices against harmful interferences originating from radio communications services.

The use of radio spectrum by proximity radio devices (short-range devices) is allowed on a non-interference and non-protected basis provided that such devices meet the conditions set out in the Annexes below.

3. Document History:

Edition	Changes
Edition 1/2014	Notification number according to Directive 98/34/EC: 2014/609/RO.
Edition 2/2018 (06.08.2018)	<p>Update according to Commission Implementing Decision (EU) 2017/1483 amending Decision 2006/771/EC on harmonizing the radio spectrum for the use of short-range devices and repealing Decision 2006/804/EC:</p> <ul style="list-style-type: none"> • RO-IR 18-01b and RO-IR 18-02b were abandoned (there is no longer any distinction made between individual and public concerning the hearing disability systems); • The 173.965–174.015 MHz frequency band changed and becomes 173.965-216 MHz frequency band. Thus, RO-IR 18-04 was updated accordingly. <p>Update of the legal framework according to Point 1 – „Basic considerations” and reference documents (line 13). Formal changes according to TCAM-RSC model of November 2017.</p>
Edition 3/2020 (23.12.2020)	<p>Update of the legal framework according to Point 1 – „Basic considerations” and definitions to Point 2 - “Radio Interface Specifications”;</p> <p>Update according to Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions for the use of radio spectrum for short-range devices;</p> <p>Update according to the list of Class 1 radio equipment subclasses (version of January 2020) published according to Article 1 Paragraph (3) of Commission Decision 2000/299/EC (https://ec.europa.eu/docsroom/documents/40361).</p>
Edition 4/2021 (04.10.2021)	<p>Update according to ERC/REC 70-03 (version of 12 February 2021):</p> <ul style="list-style-type: none"> • The 100 Hz – 9 kHz frequency band was introduced (RO-IR SRD-13-01); • The rest of the technical specifications have been renumbered. <p>Change of the title according to Decision no 248/2021 amending and completing the Decision of the President of the National Authority for Management and Regulation in Communications of Romania no 311/2016 on license exempt radio frequencies or radio frequency bands.</p> <p>Notification number according to Directive (EU) 2015/1535: 2021/349/RO.</p>
Edition 5/2022 (11.10.2022)	<p>Update according to Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices:</p> <ul style="list-style-type: none"> • Update of reference documents (line 13) and definitions Point 2.

ROMANIA	Radio Interface Specification	SRD / Assistive listening devices	RO-IR SRD-13-01	Edition 5/2022
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	No	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range devices) / Assistive listening devices (ALD)	<i>Inductive systems in the loop, intended to assist the persons suffering from hearing disability.</i>
	3	Frequency band	100 Hz – 9 kHz	
	4	Channelling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	120 dBμA/m at 10 m. Antenna size < 1/20 λ.	<i>Antenna size is defined as the distance between the two farthest points on the antenna (for example, the largest diagonal for a rectangular antenna or the diameter for a circular antenna).</i>
	8	Channel occupation and access rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 303 348; EN 300 422; ERC/REC 70-03	
	14	Notification number	2021/349/RO	
	15	Remarks	-	

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ROMANIA	Radio Interface Specification	SRD / Assistive listening devices	RO-IR SRD-13-02	Edition 5/2022
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	No	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range devices) / Assistive listening devices (ALD)	
	3	Frequency band	169.4 – 169.475 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	4	Channelling (channel distribution)	Max 50 kHz	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	500 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 422-4; ECC/DEC/(05)02; ERC/REC 70-03; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices.	
	14	Notification number	-	
	15	Remarks	-	

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ROMANIA	Radio Interface Specification	SRD / Assistive listening devices	RO-IR SRD-13-03	Edition 5/2022
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	No	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range devices) / Assistive listening devices (ALD)	
	3	Frequency band	169.4875 – 169.5875 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	4	Channelling (channel distribution)	Max 50 kHz	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	500 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 422-4; ECC/DEC/(05)02; ERC/REC 70-03; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices.	
	14	Notification number	-	
	15	Remarks	-	

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ROMANIA	Radio Interface Specification	SRD / Assistive listening devices	RO-IR SRD-13-04	Edition 5/2022
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	No	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range devices) / Assistive listening devices (ALD)	
	3	Frequency band	169.4 – 174 MHz	<i>On a tuning range basis</i>
	4	Channelling (channel distribution)	Max 50 kHz	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	10 mW e.r.p.	
	8	Channel occupation and access rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 422; ERC/REC 70-03	
	14	Notification number	2021/349/RO	
	15	Remarks	-	

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ROMANIA	Radio Interface Specification	SRD / Assistive listening devices	RO-IR SRD-13-05	Edition 5/2022
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	No	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range devices) / Assistive listening devices (ALD)	
	3	Frequency band	173.965 – 216 MHz With frequency band agreement. Devices use the full range of frequencies based on a tuning range.	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	4	Channelling (channel distribution)	Max 50 kHz	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	10 mW effective radiated power (e.r.p.)	<i>A threshold of 35 dBµV/m is necessary to ensure protection of a DAB receiver located at 1.5 m from the ALD device, subject to measuring the DAB signal strength around the ALD operating location. The ALD device should in all cases operate at least 300 kHz from the busy DAB channel edge.</i>
	8	Channel occupation and access rules	Techniques to access radio spectrum and mitigate interference shall apply	<i>Techniques to access radio spectrum and mitigate interference are used, ensuring an adequate performance level to meet the essential requirements provided in Directive 2014/53/EU. If the relevant techniques are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured.</i>
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 422-4; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

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