

**RO-IR SRD-13**

**TECHNICAL REGULATION**

**for the radio interface**

**concerning Assistive Listening Devices (ALD)**

**(previous coding RO-IR 18)**

**Notification number according to Directive (EU) 2015/1535: 2021/349/RO**

## 1. Basic considerations

Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonisation 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 the use of license exempt of the radio spectrum by Assistive Listening Devices in the specified frequency bands and considers, especially, compliance 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 on the 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 Romanian technical regulations for the radio interfaces notified under Directive 2015/1535 (EU) shall be published and made available on National Authority for Management and Regulation in Communications of Romania (ANCOM) web-site at: <http://www.ancom.ro/reglementari-interfete> 2723.

## 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 purposes of this technical regulation, *Short-Range Device (SRD)* means a radio transmitter which provide unidirectional or bidirectional communication and which receive and/or transmit over a short distance at low power.

*The assistive listening device (ALD)* category covers 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 purposes of this technical regulation, *non-interference and non-protected basis* means that no harmful interference may be caused to any radio communication service and that no claim may be made for protection of these devices against interference originating from radio communication services.

The use of radio spectrum by 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/CE on harmonization of the radio spectrum for use by short-range devices and repealing Decision 2006/804/EC:</p> <ul style="list-style-type: none"> <li>• RO-IR 18-01b and RO-IR 18-02b were abandoned (there is no distinction between individual and public concerning hearing disability systems;</li> <li>• 173.965–174.015 MHz frequency band was changed and became 173.965-216 MHz frequency band. Thus, RO-IR 18-04 was updated accordingly.</li> </ul> <p>Update of the legal framework according to Point 1 – „Basic considerations” and reference documents (row 13). Formal changes according to TCAM-RSC pattern of November 2017.</p>
Edition 3/2020 (23.12.2020)	<p>Update of the legal framework at Point 1 – „Basic considerations” and definitions at Point 2 - “Radio interface specifications”;</p> <p>Update according to Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonized technical conditions in the area of radio spectrum use for short-range devices;</p> <p>Update according to the list on subclass of Class 1 radio equipment (version January 2020) published in accordance with Article 1 Paragraph 3 of Commission Decision 2000/299/EC (<a href="https://ec.europa.eu/docsroom/documents/40361">https://ec.europa.eu/docsroom/documents/40361</a>).</p>
Edition 4/2021 (04.10.2021)	<p>Update according to ERC/REC 70-03 (version 12 February 2021):</p> <ul style="list-style-type: none"> <li>• 100 Hz – 9 kHz frequency band was implemented (RO-IR SRD-13-01);</li> <li>• The rest of the technical specifications was renumbered.</li> </ul> <p>Changes of titles according to Decision No 248/2021 amending and completing National Authority for Management and Regulation in Communications of Romania (ANCOM) President’s Decision No 311/2016 on radio frequencies or frequency bands exempted from the licensing regime.</p> <p>Notification number according to Directive (EU) 2015/1535: 2021/349/RO.</p>

ROMANIA	Radio Interface Specification	SRD / Assistive Listening Devices	RO-IR SRD-13-01	Edition 4/2021
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	No	Parameter	Description	Comments
Normative part	1	Radio communication Service	Mobile	
	2	Application	Short Range Devices / Assistive Listening Devices (ALD)	<i>Inductive loop systems for assisting the persons suffering from hearing disability.</i>
	3	Frequency band	100 Hz – 9 kHz	
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	120 dB $\mu$ A/m at 10 m. Antenna size < 1/20 $\lambda$ .	<i>Antenna size is the distance between the two farthest points on the antenna (for example, the largest diagonal in the case of a rectangular antenna or the diameter in the case of a circular antenna).</i>
	8	Channel occupation and access rules	-	
	9	Authorization regime	License 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	-	

F1- RTIR Edition:1; Revision:1

<b>ROMANIA</b>	<b>Radio Interface Specification</b>	<b>SRD / Assistive Listening Devices</b>	<b>RO-IR SRD-13-02</b>	<b>Edition 4/2021</b>
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	No	Parameter	Description	Comments
<b>Normative part</b>	1	<b>Radio communication Service</b>	Mobile	
	2	<b>Application</b>	Short Range Devices / Assistive Listening Devices (ALD)	
	3	<b>Frequency band</b>	169.4 – 169.475 MHz	<i>Harmonized radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2019/1345 updating harmonized technical conditions in the area of radio spectrum use for short-range devices)</i>
	4	<b>Channeling (channel distribution)</b>	Max 50 kHz	
	5	<b>Modulation/Occupied bandwidth</b>	-	
	6	<b>Direction/Separation</b>	-	
	7	<b>Transmit power / Power density</b>	500 mW effective radiated power (e.r.p.)	
	8	<b>Channel occupation and access rules</b>	-	
	9	<b>Authorization regime</b>	License exemption	
	10	<b>Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)</b>	-	
	11	<b>Assumptions on spectrum planning</b>	-	
<b>Informative Part</b>	12	<b>Planned changes</b>	-	
	13	<b>Reference</b>	EN 300 422-4; ECC/DEC/(05)02; ERC/REC 70-03; Commission Implementing Decision (EU) 2019/1345 updating harmonized technical conditions in the area of radio spectrum use for short-range devices.	
	14	<b>Notification number</b>	2021/349/RO	
	15	<b>Remarks</b>	-	

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ROMANIA	Radio Interface Specification	SRD / Assistive Listening Devices	RO-IR SRD-13-03	Edition 4/2021
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	No	Parameter	Description	Comments
Normative part	1	Radio communication Service	Mobile	
	2	Application	Short Range Devices / Assistive Listening Devices (ALD)	
	3	Frequency band	169.4875 – 169.5875 MHz	<i>Harmonized radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2019/1345 updating harmonized technical conditions in the area of radio spectrum use for short-range devices)</i>
	4	Channeling (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	Authorization regime	License 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) 2019/1345 updating harmonized technical conditions in the area of radio spectrum use for short-range devices.	
	14	Notification number	2021/349/RO	
	15	Remarks	-	

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ROMANIA	Radio Interface Specification	SRD / Assistive Listening Devices	RO-IR SRD-13-04	Edition 4/2021
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	No	Parameter	Description	Comments
Normative part	1	Radio communication Service	Mobile	
	2	Application	Short Range Devices / Assistive Listening Devices (ALD)	
	3	Frequency band	169.4 – 174 MHz	<i>On a tuning range basis</i>
	4	Channeling (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	Authorization regime	License 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 4/2021
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	No	Parameter	Description	Comments
Normative part	1	Radio communication Service	Mobile	
	2	Application	Short Range Devices / Assistive Listening Devices (ALD)	
	3	Frequency band	173.965 – 216 MHz On a tuning range basis. Devices shall use the entire frequency range beach, based on the adjustment range.	<i>Harmonized radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2019/1345 updating harmonized technical conditions in the area of radio spectrum use for short-range devices)</i>
	4	Channeling (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 dB<math>\mu</math>V/m is required to ensure the protection of a DAB receiver located at 1.5 m from the ALD device, subject to the DAB signal power measurement performed around the ALD operating site. The ALD device should operate in all situations, at least 300 kHz from the edge of the busy DAB channel.</i>
	8	Channel occupation and access rules	Techniques to access spectrum and mitigate interference shall apply	<i>Techniques to access spectrum and mitigate interference that provide an appropriate performance level to comply with the essential requirements of Directive 2014/53/EU shall apply. 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 performance of these techniques shall be ensured.</i>
	9	Authorization regime	License 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) 2019/1345 updating harmonized technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	14	Notification number	2021/349/RO	
	15	Remarks	-	

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