

**RO-IR 18**

**TECHNICAL REGULATION**

**for the radio interface**

**concerning Assistive Listening Devices (ALD)**

## 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 license exempted radio spectrum usage by Assistive Listening Devices in the specified frequency bands, considers compliance, especially with the provisions of Article 3 Paragraph 2, and Articles 6-8 of Directive 2014/53 /EU.

This technical regulation does not exclude the obligation that the radio equipment placed on the market or made available on the market in Romania shall comply with the 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 by this regulation (OJ L 241, 17.9.2015, pages 1-15).

All 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) web-site at: <http://www.ancom.ro/reglementari-interfete> 2723.

## 2. Radio Interface Specifications

### Assistive Listening Devices (ALD)

Frequency band	Annex
169.4 – 169.475 MHz	RO-IR 18–01
169.4875 – 169.5875 MHz	RO-IR 18–02
169.4 – 174 MHz	RO-IR 18–03
173.965 – 216 MHz	RO-IR 18–04

For the purpose of this technical regulation, *Short-Range Device (SRD)* means a radio transmitter, which provides unidirectional or bidirectional communication and which receives and/or transmits signals over a short distance and 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 purpose of this technical regulation, *non-interference and non-protected* means that it is not allowed to cause any harmful interference to radio communications services and that it shall not be claimed the protection of these devices against harmful interference originating from radio communications 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/EC on harmonisation 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 longer any distinction made between individual and public concerning hearing disability systems);</li><li>• 173.965–174.015 MHz frequency band changed and became 173.965-216 MHz. Thus, RO-IR 18-04 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 according to Point 1 – „Basic considerations” and definitions at point 2 – „Radio Interface Specifications; Update according to Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use 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 (<a href="https://ec.europa.eu/docsroom/documents/40361">https://ec.europa.eu/docsroom/documents/40361</a>).</p>

ROMANIA	Radio Interface Specification	SRD / Assistive Listening Devices	RO-IR 18-01	Edition 3/2020
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	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	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) 2019/1345 updating harmonised 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 harmonised technical conditions in the area of radio spectrum use for short-range devices.	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Assistive Listening Devices	RO-IR 18-02	Edition 3/2020
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	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	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) 2019/1345 updating harmonised 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 harmonised technical conditions in the area of radio spectrum use for short-range devices.	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Assistive Listening Devices	RO-IR 18-03	Edition 3/2020
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	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication 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	2014/609/RO	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Assistive Listening Devices	RO-IR 18-04	Edition 3/2020
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	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Assistive Listening Devices (ALD)	
	3	Frequency band	173.965 – 216 MHz  With frequency band agreement. Devices shall use the entire frequency range beach based on the adjustment range.	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2019/1345 updating harmonised 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 dBμV/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 harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1