

RO-IR 10

TECHNICAL REGULATION

for the radio interface

concerning Radio microphones

98/34/EC Notification number: 2010/764/RO

1. Basic considerations

The Radio Equipment and Telecommunications Terminal Equipment Directive 1999/5/EC (R&TTE Directive) was implemented in Romania (RO) by Government Decision no. 88/2003, republished, repealed by Government Decision no. 130/2015.

In accordance with Articles 4.1 and 7.2 of Directive 1999/5/EC, this Technical Regulation stipulates the necessary equipment parameters for the use of Radio microphones in the specified frequency bands.

Nothing in this Technical Regulation shall preclude the need for equipment placed on the market in Romania to comply with Directive 1999/5/EC.

The obligations arising from Directive 98/34/EC of the European Parliament and of the Council of 22 June 1998 laying down a procedure for the provision of information in the field of technical standards and regulations and of rules on Information Society services (OJ L 204 p. 37), as amended by Directive 98/48/EC of the European Parliament and of the Council of 20 July 1998 (OJ L 217 p. 18), have been met.

All Romanian Technical Regulations notified under Directive 1998/34/EC will be published and will be made available free of charge from the ANCOM web-site at:

http://www.ancom.org.ro/en/interface-regulations-_2723

2. Radio Interface Specifications

Radio microphones

Frequency band	Annex
29.7 – 30.3 MHz	RO-IR 10-01-1
30.5 – 32.15 MHz	RO-IR 10-01-2
32.45 – 33.1 MHz	RO-IR 10-01-3
33.6 – 34.975 MHz	RO-IR 10-01-4
37.5 – 40.02 MHz	RO-IR 10-01-5
40.66 – 41.015 MHz	RO-IR 10-01-6
44.5 – 45.2 MHz	RO-IR 10-01-7
863 – 865 MHz	RO-IR 10-02
174 – 216 MHz	RO-IR 10-03
470 – 862 MHz	RO-IR 10-04
1785 – 1800 MHz	RO-IR 10-05

For the purpose of this Technical Regulation, *short-range device (SRD)* means radio transmitters which provide either unidirectional or bidirectional communication and which transmit over a short distance at low power.

For the purpose of this Technical Regulation, *radio microphones* are small, low power (typically 50 mW or less) transmitters designed to be worn on the body, or hand held, for the transmission of sound.

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 service and that no claim

may be made for protection of these devices against harmful interference originating from radio communications services.

The use of radio spectrum by devices is allowed provided that such devices meet the conditions set out in the Annexes.

ROMANIA	Radio Interface Specification	SRD / Radio microphones	RO-IR 10-01-1	Edition 1/ 2010
---------	-------------------------------	-------------------------	---------------	-----------------

	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio microphones	
	3	Frequency band	27.9 – 30.3 MHz	<i>On a tuning range basis</i>
	4	Channelling	50 kHz	
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	10 mW effective radiated power (e.r.p.)	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 422; ERC/REC 70-03	
	14	Notification number	2010/764/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Radio microphones	RO-IR 10-01-2	Edition 1/ 2010
---------	-------------------------------	-------------------------	---------------	-----------------

	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio microphones	
	3	Frequency band	30.5 – 32.15 MHz	<i>On a tuning range basis</i>
	4	Channelling	50 kHz	
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	10 mW e.r.p.	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 422; ERC/REC 70-03	
	14	Notification number	2010/764/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Radio microphones	RO-IR 10-01-3	Edition 1/ 2010
---------	-------------------------------	-------------------------	---------------	-----------------

	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio microphones	
	3	Frequency band	32.45 – 33.1 MHz	<i>On a tuning range basis</i>
	4	Channelling	50 kHz	
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	10 mW e.r.p.	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 422; ERC/REC 70-03	
	14	Notification number	2010/764/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Radio microphones	RO-IR 10-01-4	Edition 1/ 2010
---------	-------------------------------	-------------------------	---------------	-----------------

	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio microphones	
	3	Frequency band	33.6 – 34.975 MHz	<i>On a tuning range basis</i>
	4	Channelling	50 kHz	
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	10 mW e.r.p.	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 422; ERC/REC 70-03	
	14	Notification number	2010/764/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Radio microphones	RO-IR 10-01-5	Edition 1/ 2010
---------	-------------------------------	-------------------------	---------------	-----------------

	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio microphones	
	3	Frequency band	37.5 – 40.02 MHz	<i>On a tuning range basis</i>
	4	Channelling	50 kHz	
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	10 mW e.r.p.	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 422; ERC/REC 70-03	
	14	Notification number	2010/764/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Radio microphones	RO-IR 10-01-6	Edition 1/ 2010
---------	-------------------------------	-------------------------	---------------	-----------------

	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio microphones	
	3	Frequency band	40.66 – 41.015 MHz	<i>On a tuning range basis</i>
	4	Channelling	50 kHz	
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	10 mW e.r.p.	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 422; ERC/REC 70-03	
	14	Notification number	2010/764/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Radio microphones	RO-IR 10-01-7	Edition 1/ 2010
---------	-------------------------------	-------------------------	---------------	-----------------

	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio microphones	
	3	Frequency band	44.5 – 45.2 MHz	<i>On a tuning range basis</i>
	4	Channelling	50 kHz	
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	10 mW e.r.p.	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 422; ERC/REC 70-03	
	14	Notification number	2010/764/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Radio microphones	RO-IR 10-02	Edition 1/ 2010
---------	-------------------------------	-------------------------	-------------	-----------------

	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio microphones	
	3	Frequency band	863 – 865 MHz	
	4	Channelling	-	
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	10 mW e.r.p.	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 422; EN 301 357; ERC/REC 70-03	
	14	Notification number	2010/764/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Radio microphones	RO-IR 10-03	Edition 1/ 2010
---------	-------------------------------	-------------------------	-------------	-----------------

	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio microphones	
	3	Frequency band	174 – 216 MHz	<i>In accordance with Annex 10 of ERC/REC 70-03. On a tuning range basis. Geographical restrictions for the sharing usage with the TV Broadcasting. It is needed to contact the National Spectrum Management Authority.</i>
	4	Channelling	-	
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	50 mW e.r.p.	<i>In accordance with Annex 10 of ERC/REC 70-03</i>
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 422	
	14	Notification number	2010/764/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Radio microphones	RO-IR 10-04	Edition 1/ 2010
---------	-------------------------------	-------------------------	-------------	-----------------

	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio microphones	
	3	Frequency band	470 – 862 MHz	<i>In accordance with Annex 10 of ERC/REC 70-03 On a tuning range basis. Geographical restrictions for the sharing usage with the TV Broadcasting. It is needed to contact the National Spectrum Management Authority.</i>
	4	Channelling	-	
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	50 mW e.r.p.	<i>In accordance with Annex 10 of ERC/REC 70-03</i>
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 422	
	14	Notification number	2010/764/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Radio microphones	RO-IR 10-05	Edition 1/ 2010
---------	-------------------------------	-------------------------	-------------	-----------------

	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio microphones	
	3	Frequency band	1785 – 1800 MHz	
	4	Channelling	-	
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	20 mW e.i.r.p. 50 mW e.i.r.p.	<i>50 mW restricted to body worn equipment</i>
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 422; EN 301 840; ERC/REC 70-03	
	14	Notification number	2010/764/RO	
	15	Remarks	-	