

Luxembourg Radio Interface specifications according to Directive 1999/5/EC

(Version of: 21 January 2015)

Extract: Radio interfaces relating to the use of radio microphones in Luxembourg.

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Interface Regulations

SRD

Radio microphones and Assistive Listening Devices

Parameter	Description		Comment
Frequency band	29.7 - 47 MHz		
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD		Narrow band audio band.
Channel / modulation	Channel spacing	50 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Frequency band of 34.995 - 35.225 MHz shall not be used. (Only for flying models)		
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10a		
Remarks			
Notification number	2005/347/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



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Interface Regulations

SRD

Radio microphones and Assistive Listening Devices

Parameter	Description		Comment
	174 - 216 MHz		On a tuning range basis
	Mobile		
	Short Range Devices		
	Radio microphones and ALD		
	Radio microphones		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	50 mW e.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10d		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

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Interface Regulations

SRD

Radio microphones and Assistive Listening Devices

Parameter	Description		Comment
Frequency band	470 - 786 MHz		On a tuning range basis
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Radio microphones		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	50 mW e.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10e1		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

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Interface Regulations

SRD

Radio microphones and Assistive Listening Devices

Parameter	Description		Comment
Frequency band	786 - 789 MHz		On a tuning range basis
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Radio microphones		
Channel / modulation	Channel spacing	No spacing	See technical conditions for PMSE (including radio microphones) in Annex 3 of Decision ECC/DEC/(09)03 section 3.1.
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	12mW e.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10e2		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

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Interface Regulations

SRD

Radio microphones and Assistive Listening Devices

Parameter	Description		Comment
	823 - 826 MHz		Harmonised radio spectrum for use by PMSE (2014/641/EU)
	Mobile		
	Short Range Devices		
	Radio microphones and ALD		
	Radio microphones		
	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		100 mW restricted to body worn microphones.
	Antenna Gain		See technical conditions for PMSE (including radio microphones) in Annex 3 of Decision ECC/DEC/(09)03 section 3.1.
	Radiated power	20mW e.i.r.p. 100mW e.i.r.p.	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2014/641/EU EN 300 422 ERC REC 70-03 Annex 10e3		Block Edge Masks are defined in Decision 2014/641/EU
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

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Interface Regulations

SRD

Radio microphones and Assistive Listening Devices

Parameter	Description		Comment
	826 - 832 MHz		Harmonised radio spectrum for use by PMSE (2014/641/EU)
	Mobile		
	Short Range Devices		
	Radio microphones and ALD		
	Radio microphones		
	Channel spacing	200 kHz	See technical conditions for PMSE (including radio microphones) in Annex 3 of Decision ECC/DEC/(09)03 section 3.1.
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	100mW e.i.r.p.	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2014/641/EU EN 300 422 ERC REC 70-03 Annex 10e4		Block Edge Masks are defined in Decision 2014/641/EU
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

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Interface Regulations

SRD

Radio microphones and Assistive Listening Devices

Parameter	Description		Comment
Frequency band	863 - 865 MHz		
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Radio microphones		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 357, EN 300 422 ERC REC 70-03 Annex 10c		
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 2		

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Interface Regulations

SRD

Radio microphones and Assistive Listening Devices

Parameter	Description		Comment
Frequency band	1492 - 1518 MHz		
Radio Service	Mobile		
Application	Short Range Devices		
	Radio microphones and ALD		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	50 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Restricted to indoor use		
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10j		
Remarks			
Notification number	2013/632/L		
Equipment class	Class 2		



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Interface Regulations

SRD

Radio microphones and Assistive Listening Devices

Parameter	Description		Comment
Frequency band	1785 - 1795 MHz		Harmonised radio spectrum for use by PMSE (2014/641/EU)
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Radio microphones		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		50 mW e.i.r.p. restricted to body worn microphones.
	Antenna Gain		
	Radiated power	20 mW e.i.r.p. 50 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2014/641/EU EN 300 422 ERC REC 70-03 Annex 10f		Block Edge Masks are defined in Decision 2014/641/EU
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

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Interface Regulations

SRD

Radio microphones and Assistive Listening Devices

Parameter	Description		Comment
Frequency band	1795 - 1800 MHz		Harmonised radio spectrum for use by PMSE (2014/641/EU)
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Radio microphones		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		50 mW e.i.r.p. restricted to body worn microphones.
	Antenna Gain		
	Radiated power	20 mW e.i.r.p. 50 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2014/641/EU EN 300 422 ERC REC 70-03 Annex 10g		Block Edge Masks are defined in Decision 2014/641/EU
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

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Interface Regulations

SRD

Radio microphones and Assistive Listening Devices

Parameter	Description		Comment
Frequency band	1800 - 1804.8 MHz		Harmonised radio spectrum for use by PMSE (2014/641/EU)
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Radio microphones		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		50 mW e.i.r.p. restricted to body worn microphones.
	Antenna Gain		
	Radiated power	20 mW e.i.r.p. 50 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2014/641/EU EN 300 422 ERC REC 70-03 Annex 10g1		Block Edge Masks are defined in Decision 2014/641/EU
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

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