

# FREQUENCY LIST WIRELESS SYSTEMS



Series and Power	Description	Frequency ranges	Austria	Australia	Belgium	Denmark	Finland	France	Germany	Greece	Italy	Netherlands	Norway
<b>U series</b> 2 mW, 10 mW, 30 mW	LDU505	584 – 608 MHz	License required	Yes	License required	Yes	Yes	Yes. Limited to professional use	License required	Yes	License required	Yes <b>Only allowed within 584-588, 590-596, and 598-604 MHz range</b>	Yes
	LDU506	655 – 679 MHz	License required	Yes	License required	Yes	Yes	Yes. Limited to professional use	License required	Yes	License required	Yes	Yes
	LDU508	823 – 832 MHz	License required	No	Yes Handheld only up to 20mW within 823-826 MHz	Yes Handheld only up to 20mW within 823-826 MHz	Yes Within 823-826 Mhz range, ERP ≤ 12mW for handheld. Beltpack up to 60 mW ERP	Yes. Limited to professional use	Yes	Yes Handheld only up to 20mW within 823-826 MHz	No	Yes Handheld only up to 20mW within 823-826 MHz	Yes Handheld only up to 20mW within 823-826 MHz
		863 – 865 MHz	Yes	No	Yes Up to 10 mW eirp	Yes Up to 10mW ERP	Yes Up to 10mW ERP	No	Yes Up to 10mW ERP	Yes Up to 10mW ERP	Yes Up to 10mW ERP	Yes Up to 10mW ERP	Yes Up to 10mW ERP
	LDU518	1785 - 1800 MHz	Yes	Yes	Yes	Yes	Yes	Yes. Limited to professional use	Yes	Yes	License required	Yes	Yes
<b>WIN42</b> 10 mW, 30 mW, 50 mW	LDWIN42B5	516 – 558 MHz	License required	Yes	Yes ( only <b>518 - 526 MHz, and 534 - 542 MHz *1</b> )	Yes	Yes	Yes. Limited to professional use	License required	Yes	License required	Yes <b>(except from 556 to 558 MHz)</b>	Yes
	LDWIN42	734 - 776 MHz	License required (Only available from 733 to 758 MHz)	No	No. Only 742-750 available with license	Yes <b>The 700 MHz use is noted to be changed from 2020</b>	No	No	License required	Yes	License required	Yes	Yes
<b>WS1000 G2</b> 10 mW	LDWS1000G2	823 - 832 MHz	License required	No	Yes Handheld only up to 20mW within 823-826 MHz	Yes	Yes	Yes. Limited to professional use	Yes	Yes	No	Yes	Yes
		863 - 865 MHz	Yes	No	Yes (up to 10 mW eirp)	Yes	Yes Up to 10mW ERP	No	Yes	Yes	Yes Up to 10mW ERP	Yes	Yes



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Series and Power	Description	Frequency ranges	Austria	Australia	Belgium	Denmark	Finland	France	Germany	Greece	Italy	Netherlands	Norway
<b>WS168</b> 10 mW	LDWS168	1785 - 1800 MHz	Yes	Yes	Yes	Yes	Yes	Yes. Limited to professional use	Yes	Yes	License required	Yes	Yes
	LDWSEC016B5	584 – 607 MHz	License required	Yes	License required up to 606 Mhz. <b>606-614 MHz not allowed</b>	Yes	Yes	Yes. Limited to professional use	License required	Yes	License required	Yes <b>Only allowed within 584-588, 590-596, and 598-604 MHz range</b>	Yes
<b>EC016</b> 10 mW	LDWSEC016B6	655 – 679 MHz	License required	Yes	License required	Yes	Yes	Yes. Limited to professional use	License required	Yes	License required	Yes	Yes
	LDWSEC016	863.000 MHz - 865.000 MHz	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
<b>EC02</b> 10mW	LDWSEC02 1	863.100 MHz	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	LDWSEC02x2 1	863.100 MHz	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	LDWSEC02 2	863.900 MHz	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	LDWSEC02x2 2	863.900 MHz	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	LDWSEC02 3	864.500 MHz	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	LDWSEC02x2 1	864.500 MHz	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	LDWSEC02 4	864.900 MHz	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	LDWSEC02x2 2	864.900 MHz	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes



# FREQUENCY LIST WIRELESS SYSTEMS



Series and Power	Description	Frequency ranges	New Zealand	Portugal	Romania	Slovenia	Spain	South Korea	Sweden	Switzerland	UAE	UK	USA	UKRAINE
<b>U series</b> 2 mW, 10 mW, 30 mW	LDU505	584 – 608 MHz	Yes <b>Only up to 606 MHz</b>	Yes	Yes *3	Yes	Yes	License required	License required	Yes	License required	Site License required. Only allowed up to 606 MHz	Yes	License required
	LDU506	655 – 679 MHz	Yes	Yes	Yes *3	Yes	Yes	License required	License required	Yes	License required	Site License required	Yes*5	License required
	LDU508	823 – 832 MHz	No	Yes Handheld only up to 20mW within 823-826 MHz	Yes *3	Yes Handheld only up to 20mW within 823-826 MHz	Yes Handheld only up to 20mW within 823-826 MHz	No	Yes Handheld only up to 10mW within 823-826 MHz	Yes Handheld only up to 20mW within 823-826 MHz	License required	Shared License required	No	License required
		863 – 865 MHz	No	Yes	Yes Up to 10mW ERP	Yes Up to 10mW ERP	Yes Up to 10mW ERP	No	Yes Up to 10mW ERP	Yes Up to 10mW ERP	License required	Yes Up to 10mW ERP	No	Yes Up to 10mW ERP
	LDU518	1785 - 1800 MHz	No	Yes <b>1795-1804,8 MHz</b>	Yes	Yes	Yes	No	License required	Yes	License required	Site License required	No	No
<b>WIN42</b> 10 mW, 30 mW, 50 mW	LDWIN42B5	516 – 558 MHz	Yes	Yes	Yes *3	Yes	Yes	License required	License required	Yes	License required	Site License required	Yes	License required
	LDWIN42	734 - 776 MHz	No	Yes <b>Only within 734-750 and 758-776 MHz. *2</b>	Yes *3	Yes *4	Yes	No	No. <b>Not available since January 2018</b>	Yes	No	Site License required	No	License required
<b>WS1000 G2</b> 10 mW	LDWS1000G2	823 - 832 MHz	No	Yes	Yes *3	Yes	Yes	No	Yes	Yes	License required	Shared License required	No	License required
		863 - 865 MHz	No	Yes	Yes	Yes	Yes	No	Yes	Yes	License required	Yes	No	Yes Up to 10mW ERP
<b>WS168</b> 10 mW	LDWS168	1785 - 1800 MHz	No	Yes <b>1795-1804,8 MHz</b>	Yes	Yes	Yes	No	License required	Yes	License required	Site License required	No	No
<b>EC016</b> 10 mW	LDWSECO16B5	584 – 607 MHz	Yes <b>Only up to 606 MHz</b>	Yes	Yes *3	Yes	Yes	License required	License required	Yes	License required	Site License required. <b>Only allowed up to 606 MHz</b>	Yes	License required
	LDWSECO16B6	655 – 679 MHz	Yes	Yes	Yes *3	Yes	Yes	License required	License required	Yes	License required	Site License required	Yes*5	License required
	LDWSECO16	863.000 MHz - 865.000 MHz	No	Yes	Yes	Yes	Yes	No	Yes	Yes	License required	Yes	No	Yes



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Series and Power	Description	Frequency ranges	New Zealand	Portugal	Romania	Slovenia	Spain	South Korea	Sweden	Switzerland	UAE	UK	USA	UKRAINE
<b>EC02</b> 10mW	LDWSEC02 1	863.100 MHz	No	Yes	Yes	Yes	Yes	No	Yes	Yes	License required	Yes	No	Yes
	LDWSEC02x2 1	863.100 MHz	No	Yes	Yes	Yes	Yes	No	Yes	Yes	License required	Yes	No	Yes
	LDWSEC02 2	863.900 MHz	No	Yes	Yes	Yes	Yes	No	Yes	Yes	License required	Yes	No	Yes
	LDWSEC02x2 2	863.900 MHz	No	Yes	Yes	Yes	Yes	No	Yes	Yes	License required	Yes	No	Yes
	LDWSEC02 3	864.500 MHz	No	Yes	Yes	Yes	Yes	No	Yes	Yes	License required	Yes	No	Yes
	LDWSEC02x2 1	864.500 MHz	No	Yes	Yes	Yes	Yes	No	Yes	Yes	License required	Yes	No	Yes
	LDWSEC02 4	864.900 MHz	No	Yes	Yes	Yes	Yes	No	Yes	Yes	License required	Yes	No	Yes
	LDWSEC02x2 2	864.900 MHz	No	Yes	Yes	Yes	Yes	No	Yes	Yes	License required	Yes	No	Yes

Please note that this list is not complete and will be updated over time.

For countries not included in the list above: please contact the relevant authorities and inform yourselves about the permitted frequency ranges for your country.

\*1 - 534 - 542 not available in Hainaut

\*2 -In Portugal, only use of transmitting microphones in sub-bands 470-734 MHz and 742-786 MHz in R. A. Madeira is allowed. And 470-750 MHz and 758-786 MHz on the Continent.

ERP = Effective radiated power

\*3 - Licence exemption. Geographical restrictions for the sharing usage with the TV Broadcasting. It is needed to contact the National Spectrum Management Authority.

\*4 - Use of the frequencies for TRA-ECS is possible in accordance with EC and/or CEPT documents based on the „Mandate to CEPT to develop harmonised technical conditions for the 694-790 MHz (.700 MHz) frequency band in the EU for the provision of wireless broadband and other uses in support of EU spectrum policy objectives“ and taking into account the decision to introduce PPDR services.

\*5 - The situation for wireless microphone operation in the U.S. is currently in flux due to the upcoming Incentive Auction of UHF (600 MHz) television band frequencies, which is planned to start on 29 March, 2016. Much less UHF spectrum is expected to be available fter the upper part of the TV broadcast band is “repurposed”.

Yes	= licence exempt
No	= frequency unavailable
Yes	= license required



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# FREQUENCY LIST **PORTABLE BATTERY POWERED ACTIVE PA SPEAKERS**



Series and Power	Description	Frequency ranges	Austria	Australia	Belgium	Denmark	Finland	France	Germany	Greece	Italy	Netherlands	Norway
10mW	LDRBUD10	863 - 865 MHz	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
10mW	LDRBUD10B5	584 – 607 MHz	License required	Yes	License required up to 606 Mhz. <b>606-614 MHz not allowed</b>	Yes	Yes	Yes. Limited to professional use	License required	Yes	License required	Yes <b>Only allowed within 584-588, 590-596, and 598-604 MHz range</b>	Yes
	LDRBUD10B6	655 – 679 MHz	License required	Yes	License required	Yes	Yes	Yes. Limited to professional use	License required	Yes	License required	Yes	Yes
10 mW	LDRB65	863 - 865 MHz	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
10 mW	LDRB65B5	584 – 607 MHz	License required	Yes	License required up to 606 Mhz. <b>606-614 MHz not allowed</b>	Yes	Yes	Yes. Limited to professional use	License required	Yes	License required	Yes <b>Only allowed within 584-588, 590-596, and 598-604 MHz range</b>	Yes
10 mW	LDRB65B6	655 – 679 MHz	License required	Yes	License required	Yes	Yes	Yes. Limited to professional use	License required	Yes	License required	Yes	Yes
10 mW	LDRM102	863 - 865 MHz	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
10 mW	LDRM102B5	584 – 607 MHz	License required	Yes	License required up to 606 Mhz. <b>606-614 MHz not allowed</b>	Yes	Yes	Yes. Limited to professional use	License required	Yes	License required	Yes <b>Only allowed within 584-588, 590-596, and 598-604 MHz range</b>	Yes
10 mW	LDRM102B6	655 – 679 MHz	License required	Yes	License required	Yes	Yes	Yes. Limited to professional use	License required	Yes	License required	Yes	Yes



# FREQUENCY LIST PORTABLE BATTERY POWERED ACTIVE PA SPEAKERS



Series and Power	Description	Frequency ranges	Austria	Australia	Belgium	Denmark	Finland	France	Germany	Greece	Italy	Netherlands	Norway	
10 mW	LDME1000G2	823 - 832 MHz	License required	No	Yes	Yes	Yes	Yes. Limited to professional use	Yes	Yes	No	Yes	Yes	
		863 - 865 MHz	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	
10 mW	LD-MEI1000G2B5	584 – 607 MHz	License required	Yes	License required up to 606 Mhz. <b>606-614 MHz not allowed</b>	Yes	Yes	Yes. Limited to professional use	License required	Yes	License required	Yes <b>Only allowed within 584-588, 590-596, and 598-604 MHz range</b>	Yes	
		LD-MEI1000G2B6	655 – 679 MHz	License required	Yes	License required	Yes	Yes	Yes. Limited to professional use	License required	Yes	License required	Yes	Yes
10 mW	LDME100G2	823 - 832 MHz	License required	No	Yes	Yes	Yes	Yes. Limited to professional use	Yes	Yes	No	Yes	Yes	
		863 - 865 MHz	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	
10 mW	LD-MEI100G2B5	584 – 607 MHz	License required	Yes	License required up to 606 Mhz. <b>606-614 MHz not allowed</b>	Yes	Yes	Yes. Limited to professional use	License required	Yes	License required	Yes <b>Only allowed within 584-588, 590-596, and 598-604 MHz range</b>	Yes	
		LD-MEI100G2B6	655 – 679 MHz	License required	Yes	License required	Yes	Yes	Yes. Limited to professional use	License required	Yes	License required	Yes	Yes
10 mW	LDMEIONE1	863.700 MHz	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes = licence exempt
10 mW	LDMEIONE2	864.100 MHz	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No = frequency unavailable
10 mW	LDMEIONE3	864.900 MHz	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes = licence required

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# FREQUENCY LIST IN-EAR MONITORING SYSTEMS



Series and Power	Description	Frequency ranges	New Zealand	Portugal	Romania	Slovenia	Spain	South Korea	Sweden	Switzerland	UAE	UK	USA	UKRAINE
10mW	LDRBUD10	863 - 865 MHz	No	Yes	Yes	Yes	Yes	No	Yes	Yes	License required	Yes	No	Yes
10mW	LDRBUD10B5	584 – 607 MHz	Yes Only up to 606 MHz	Yes	Yes *3	Yes	Yes	License required	License required	Yes	License required	Site License required. Only allowed up to 606 MHz	Yes	License required
	LDRBUD10B6	655 – 679 MHz		Yes	Yes	Yes *3	Yes	Yes	License required	License required	Yes	License required	Site License required	Yes*5
10 mW	LDRB65	863 - 865 MHz	No	Yes	Yes	Yes	Yes	No	Yes	Yes	License required	Yes	No	Yes Up to 10mW ERP
10 mW	LDRB65B5	584 – 607 MHz	Yes Only up to 606 MHz	Yes	Yes *3	Yes	Yes	License required	License required	Yes	License required	Site License required. Only allowed up to 606 MHz	Yes	License required
10 mW	LDRB65B6	655 – 679 MHz		Yes	Yes	Yes *3	Yes	Yes	License required	License required	Yes	License required	Site License required	Yes*5
10 mW	LDRM102	863 - 865 MHz	No	Yes	Yes	Yes	Yes	No	Yes	Yes	License required	Yes	No	Yes Up to 10mW ERP
10 mW	LDRM102B5	584 – 607 MHz	Yes Only up to 606 MHz	Yes	Yes *3	Yes	Yes	License required	License required	Yes	License required	Site License required. Only allowed up to 606 MHz	Yes	License required

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# FREQUENCY LIST **IN-EAR MONITORING SYSTEMS**



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10 mW	LDRM102B6	655 – 679 MHz	Yes	Yes	Yes *3	Yes	Yes	License required	License required	Yes	License required	Site License required	Yes*5	License required
10 mW	LDMEI1000G2	823 - 832 MHz	No	Yes	No	Yes	Yes	No	Yes	Yes	License required	Shared License required	No	
		863 - 865 MHz	No	Yes	Yes	Yes	Yes	No	Yes	Yes	License required	Yes	No	Yes Up to 10mW ERP
10 mW	LD-MEI1000G2B5	584 – 607 MHz	Yes <b>Only up to 606 MHz</b>	Yes	No	Yes	Yes	License required	License required	Yes	License required	Site License required. <b>Only allowed up to 606 MHz</b>	Yes	License required
	LD-MEI1000G2B6	655 – 679 MHz		Yes	No	Yes	Yes	License required	License required	Yes	License required	Site License required	Yes*5	License required
10 mW	LDMEI100G2	823 - 832 MHz	No	Yes	No	Yes	Yes	No	Yes	Yes	License required	Shared License required	No	License required
		863 - 865 MHz	No	Yes	Yes	Yes	Yes	No	Yes	Yes	License required	Yes	No	Yes Up to 10mW ERP
10 mW	LD-MEI100G2B5	584 – 607 MHz	Yes <b>Only up to 606 MHz</b>	Yes	No	Yes	Yes	License required	License required	Yes	License required	Site License required. <b>Only allowed up to 606 MHz</b>	Yes	License required
	LD-MEI100G2B6	655 – 679 MHz		Yes	No	Yes	Yes	License required	License required	Yes	License required	Site License required	Yes*5	License required
10 mW	LDMEIONE1	863.700 MHz	No	Yes	Yes	Yes	Yes	No	Yes	Yes	License required	Yes	No	Yes Up to 10mW ERP
10 mW	LDMEIONE2	864.100 MHz	No	Yes	Yes	Yes	Yes	No	Yes	Yes	License required	Yes	No	Yes Up to 10mW ERP
10 mW	LDMEIONE3	864.900 MHz	No	Yes	Yes	Yes	Yes	No	Yes	Yes	License required	Yes	No	Yes Up to 10mW ERP