Association of Professional Wireless
Production Technologies e. V.
Pappelallee 78/79
10437 Berlin, Germany

Frequencies for wireless microphones

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– Revision October 2026 (1) –

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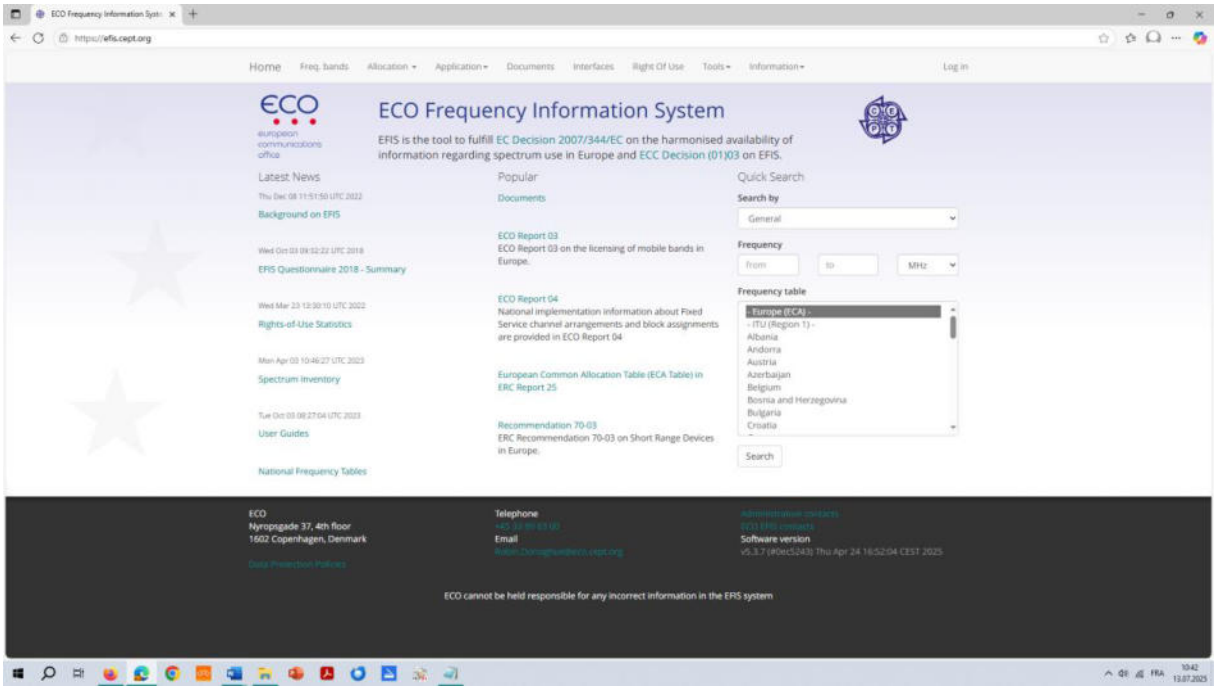
Useful Links (checked 2026)

(1) CEPT

ECO Frequency Information System

EFIS is the tool to fulfill EC Decision 2007/344/EC on the harmonised availability of information regarding spectrum use in Europe and ECC Decision (01)03 on EFIS.

https://efis.cept.org/



A similar database “APT Frequency Information System (AFIS)” is provided by the Asia-Pacific Telecommunity (APT):
http://www.aptafis.org/

(2) EU

THE **EUROPEAN TABLE OF FREQUENCY ALLOCATIONS AND APPLICATIONS** IN THE FREQUENCY RANGE 8.3 kHz to 3000 GHz (ECA TABLE)
https://docdb.cept.org/download/4316

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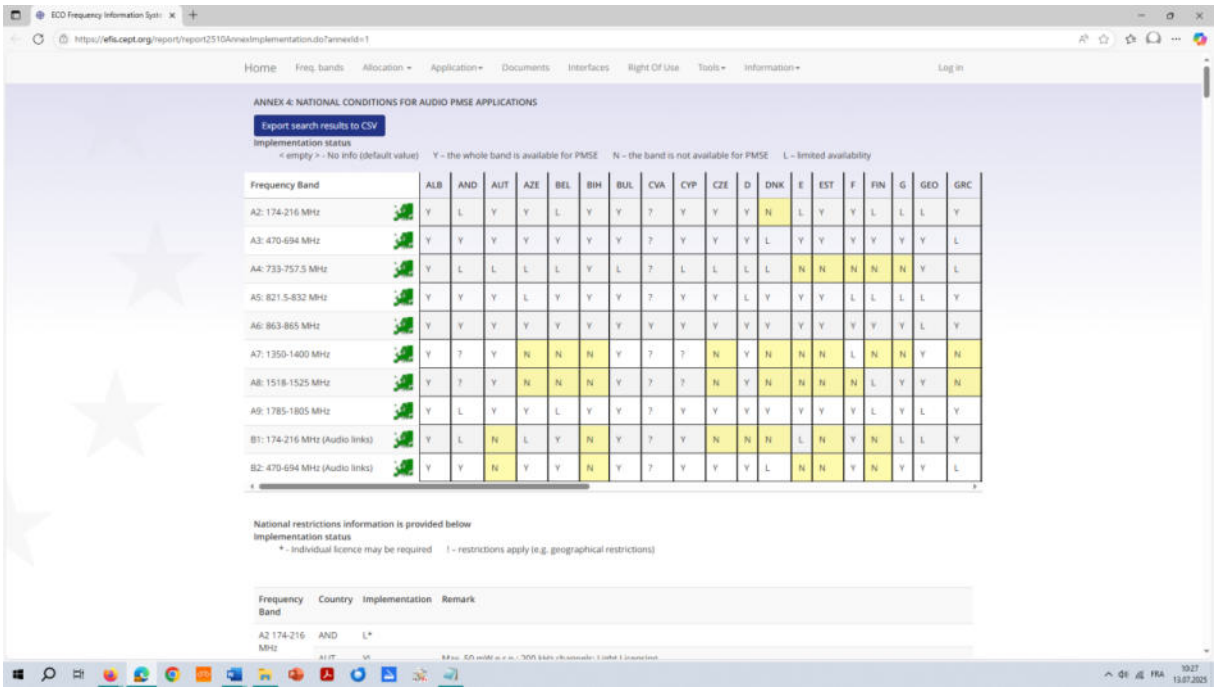
NATIONAL CONDITIONS FOR AUDIO PMSE APPLICATIONS

https://efis.cept.org/report/report2510AnnexImplementation.do?annexId=1

= tinyurl.com/4dm3fhbr



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(3)

FreqCoord – the online frequency coordination tool

https://www.freqcoord.com/

FreqCoord makes frequency planning for events easy and cost-effective which leads to smooth operation of wireless devices (e.g. wireless microphones, in-ear monitors, wireless cameras) for all users. In addition, FreqCoord shows the DVB-T interference situation in Switzerland and Germany.

FreqCoord is a public platform provided by SRF
SRF, FreqCoord, Fernsehstrasse 1-4, CH-8052 Zürich
support@freqcoord.com

News

26 June 2025
New Feature: Calculation Groups

We've added a powerful new feature: **Calculation Groups**, giving you an enhanced control over frequency calculation.

With many devices offering wide tuning ranges, overlaps—especially between wireless microphones and in-ear monitors—often require semi-manual planning. Calculation Groups let you define sub-ranges for a group of devices, narrowing their effective tuning range during calculation. This ensures clean separation between equipment groups and reduces manual effort.

(4)

Frequency Scans: https://fmscan.org

* not complete e.g. for Germany, hint: use google maps and search for "Fernmeldeturm" there

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Australia

Australia radiofrequency spectrum

https://www.acma.gov.au/sites/default/files/2019-10/Australian%20radiofrequency%20spectrum%20allocations%20chart.pdf

Radiocommunications licences

https://www.acma.gov.au/radiocommunications-licences

Wireless microphones

If you use a wireless microphone you need to use the right frequency.

Do not use the wrong frequency

If your wireless microphone is able to operate in the 520 to 694 MHz frequency band, you need to check for an available channel in your area by using the Channel Finder

https://channelfinder.acma.gov.au/

This frequency band is used for TV broadcasting services across Australia and if you don't use the right frequency for your area you may interfere with TV reception.

Use the right frequency

You should use your wireless microphone only at the right frequency for your area if operating in the frequency ranges of 520 to 694 MHz.

You can no longer use wireless microphones in the frequency range of 694 to 820 MHz.

There is a group of frequency ranges for wireless audio applications such as wireless intercoms, headsets in fast food outlets, hearing aids and toy microphones. Details can be found in items 24-31 in Schedule 1 of the Low Interference Potential Devices (LIPD) class licence. (https://www.acma.gov.au/node/1873)

Wireless microphones can also operate in the frequency ranges listed in the items 1 to 23A of the Schedule 1 of the Low Interference Potential Devices (LIPD) class licence (https://www.acma.gov.au/licences/low-interference-potential-devices-lipd-class-licence)

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The LIPD class licence authorises the use of wireless microphones within certain frequency bands but the lower limit is always excluded. You can operate wireless microphones from 915 to 928 MHz band, but not at 915 MHz.

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Frequency range (MHz)	Devices and services
520 to 694	Television broadcasting services are the main users of this range. Wireless audio transmitters should only use the unused frequencies in this range. Use Channel Finder (https://channelfinder.acma.gov.au/) to find available frequencies in your area. Wireless microphones can use frequencies 520 to 526 MHz in all areas.
1785 to 1800	This frequency range is only for wireless microphone and other audio transmitter use. This frequency range is available in all areas.
174 to 230	This frequency range is available in many regional and remote areas. Use Channel Finder
Any transmitter: 915 to 928 2400 to 2483.5 5725 to 5875 88 to 108	A wide variety of devices including use these frequency ranges. Wireless microphones and audio transmitters can also use these frequencies. The 88 to 108 MHz frequency range is only for wireless audio transmitters and auditory assistance transmitters

There is also a group of frequency ranges from 10 to 400 MHz that wireless audio applications have used. This includes:

- wireless intercoms
- headsets in fast food outlets
- hearing aids
- toy microphones

Limited equipment is available on the market that could be suitable for such niche applications.

Information from an APWPT member (Summer 2024): “The LIPD class licence authorises the use of wireless microphones within certain frequency bands but the lower limit is always excluded. You can operate wireless microphones from 915 to 928 MHz band, but not at 915 MHz.”

Your responsibilities

You should use your wireless microphone on the right frequency for your location. If your device is using an unauthorised frequency, you should try to retune it or get help to fix the problem.

Be careful when you buy wireless microphones from overseas sellers as other countries use different frequency ranges for these devices.

You can download the infographic about how to spot a dodgy device.
(https://www.acma.gov.au/how-spot-dodgy-device)

The rules for using wireless microphones

You don’t need to pay or apply for a licence as your wireless microphone is authorised to operate under the LIPD class licence. You must comply with the conditions of the LIPD class licence.

Note: information as of January 2024

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Australia: New LIPD Licence

5th September 2025

The Australian Communications and Media Authority (ACMA) has released its response to the consultation on the Radiocommunications (Low Interference Potential Devices) Class Licence 2025.

Summary:

- The instrument will commence on 1 October 2025.
- There is no major change to the way users of wireless audio devices interact with the LIPD Licence, other than
- Wireless multi-channel audio systems (WMAS) are now covered by the LIPD licence in the 520–694 MHz range

The class licence includes new arrangements for:

- wireless audio transmitters using wireless multi-channel audio system (WMAS) in the 520–694 MHz range
- frequency-hopping radiocommunications transmitters in the 5925–6425 MHz band
- digital modulation radiocommunications transmitters in the 5150–5250 MHz band
- RLAN radiocommunications transmitters in the 6425–6585 MHz band
- radiodetermination radiocommunications transmitters in the 13.4–14 GHz band
- radiodetermination radiocommunications transmitters in the 76–77 GHz band.

The AMA and several submissions from microphone manufacturers / distributors (Sennheiser, Shure, Jands) supported the proposed licence and the inclusion of WMAS. The Outcomes Paper summarises industry feedback and the ACMA response:

WMAS technologies for wireless audio transmitters
We proposed to introduce arrangements in the 520–694 MHz range to facilitate the use of WMAS.

Submissions received
Eight submissions specifically addressed our proposal to introduce arrangements for WMAS technology in the 520–694 MHz band. Overall, the feedback was supportive, with 2 submissions raising concerns about allowing WMAS operation above 612 MHz. These stakeholders stated that enabling WMAS in this range could be seen as pre-empting future decisions regarding band planning in the 600 MHz band. They referenced previous instances where ACMA applied spectrum embargoes in situations of uncertainty and suggested that WMAS use be restricted to below 612 MHz. This approach, they argued, would help avoid the need to replan WMAS deployments if the 600 MHz band is later repurposed for other services.

ACMA response
The 617–698 MHz band is currently in the monitoring phase of band planning activities, as outlined in the Five-year spectrum outlook (FYSO). As detailed in the draft FYSO 2025–30, the government has

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indicated plans to explore future options for television broadcasting, which may involve reassessing its spectrum requirements.

To avoid pre-empting this government process, we do not intend to restrict the frequency range available for WMAS devices. Spectrum embargoes are used to limit the issuing of new apparatus licences within a band. At this time, there is no plan to limit existing licences for other users in the band. WMAS devices are expected to have a lower market penetration compared to consumer-grade microphones, which already operate above 612 MHz. WMAS is primarily used in high-end Program Making and Special Events (PMSE) and professional audio applications. These systems are typically dynamically tuneable and, depending on individual products' overall tuning range, are likely to be adaptable to retuning if future band planning changes occur.

As consulted, arrangements for WMAS in the 520–694 MHz band will be incorporated into the 2025 LIPD Class Licence.

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Austria

Info from October 2026:

Austria has recently implemented extensive legal and structural changes through the Fernmeldebüro (Telecommunications Office). These updates have fundamentally transformed the registration process for wireless microphones. Here is the update on the specific points:

1. The Most Important Change: No Registration and No Fees for Wireless Microphones!

The former text states that wireless microphones must still be registered via the online portal by Intellisolution for a fee of €53 per transmitter. This is no longer true.

• General Authorization: Following the entry into force of the updated Radio Interface Description Regulation (FSBV) and the General Radio Equipment Authorization Regulation (GenBV), the legal situation was fundamentally changed.

• Current Status: The official authority portals explicitly state that wireless microphones are no longer subject to notification requirements under § 33 TKG 2021. Instead, their operation is now generally authorized (license-exempt) and completely free of charge, provided the technical parameters of the respective radio interfaces are met. Creating a user account and registering equipment via anzeige.intellisolution.at is completely obsolete for microphones.

2. Implementation of the RAT (Radio Administration Tool)

• The Radio Administration Tool (RAT) was officially launched alongside the updated Telecommunications Fee Regulation (TKGV).

• Applications for individually coordinated frequencies (such as handheld two-way radios, mobile radios, telemetry, wireless cameras, and microwave links) must be submitted electronically via the official state portal rat.gv.at.

• Secure login requires ID Austria (for individuals) or the Unternehmens-Service-Portal (USP) (for companies). The old practice of filling out separate PDF forms and emailing them to office@fb.gv.at has been replaced by this fully digital system.

3. Frequency Coordination (ORF / Frequenz.at)

• Our advice regarding the voluntary, free frequency coordination via the ORF portal (frequenz.orf.at) remains highly relevant and current. Because the general license allows everyone to use the frequencies without exclusivity, mutual interference can still occur. Utilizing the ORF coordination service for larger productions and events across Austria is still the best practice to ensure trouble-free operation.

Fee Summary

The €53 fee per transmitter mentioned in the older APWPT text belongs to the old fee structure. Under the current regulations, standard off-the-shelf wireless microphones operating within the generally authorized bands cost €0 in regulatory fees and require no administrative registration whatsoever.

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1. Generally Authorized Frequencies (Free & Registration-Exempt)

For these specific bands, no registration, no administrative user account, and no individual license are required. Operation is completely free of charge for anyone, including commercial and high-profile professional users.

Frequency Range	Max. Transmit Power	Legal Basis (Name of the Regulation)	Regulatory Fees
174 – 216 MHz (VHF Band III)	50 mW ERP	FSBV (Interface Description FSB-LT015) & GenBV	€ 0.00
470 – 694 MHz (UHF Band)	50 mW ERP	FSBV (Interface Description FSB-LT009) & GenBV	€ 0.00
823 – 832 MHz (LTE Duplex Gap)	20 mW e.i.r.p. (or 100 mW e.i.r.p. for body-worn microphones)	FSBV (Interface Descriptions FSB-LT017/FSB-LT018) & GenBV	€ 0.00
863 – 865 MHz (EU-harmonized ISM)	10 mW ERP	FSBV & GenBV	€ 0.00
1785 – 1800 MHz (1.8 GHz Band)	20 mW e.i.r.p. (or 50 mW e.i.r.p. for body-worn microphones)	FSBV (Interface Description FSB-LT004) & GenBV	€ 0.00

Acronym Definitions:

- FSBV: Funkschnittstellen-Beschreibungsverordnung (Radio Interface Description Regulation – governs technical requirements).
- GenBV: Generelle-Funkanlagen-Bewilligungsverordnung (General Radio Equipment Authorization Regulation – grants legal permission automatically without individual assessments).

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2. Coordinated Spectrum (Individual License Required)

There is a specific, high-tier professional fallback band allocated for PMSE in Austria that is not open for general, unregulated use. For this band, an electronic application must be submitted through the Radio Administration Tool (RAT).

- Frequency Range: 960.0 MHz – 1164.0 MHz
- Max. Transmit Power: 100 mW e.i.r.p.

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- Legal Basis: FSBV (Specific Interface Description for Audio and Video PMSE). The official guideline of the Fernmeldebüro explicitly states: "Wireless microphones in the frequency range between 960.0 MHz and 1164.0 MHz must still be individually authorized by the Fernmeldebüro!"

Are there any costs for this individual assignment?

Yes. As soon as an individual license (Einzelbewilligung) is required, the official Telekommunikationsgebührenverordnung (TKGV) (Telecommunications Fee Regulation) applies.

1. Application Fee: Filing an application via the RAT digital platform incurs a standard legal filing fee (currently set at € 21.00 plus potential extra document fees of € 6.00 per attached page).

2. Spectrum Usage Fee: Ongoing frequency usage fees are calculated based on the modern model introduced during the fee reform. Instead of the flat "€ 53 per mic" rule from past years, the fee depends on the actual requested bandwidth, time frame, and geographical area. It is calculated individually by the authority and specified in the final administrative decision (Bescheid).

Further information

Contact addresses of the four responsible Local Telecommunication Offices:

- Fernmeldebüro
  Fernmeldebehörde der Republik Österreich
  office@fb.gv.at
  +43 1 71100 654500
  Radetzkystraße 2, 1030 Wien

Radio Interference Reporting Center (24/7): If your wireless microphones or in-ear systems suddenly experience severe interference on site, you can contact the radio monitoring service around the clock directly at +43 1 71100 654488 or by email at funkmonitoring@fb.gv.at.

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Bundesrecht konsolidiert: Gesamte Rechtsvorschrift für Frequenznutzungsverordnung 2013, Fassung vom 13.10.2026

https://www.ris.bka.gv.at/GeltendeFassung.wxe?Abfrage=Bundesnormen&Gesetzesnummer=20008807

Eventbewilligung, Application form for a temporary licence

https://www.fb.gv.at/formulare/event.html

Note: information October 2026

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Belgium

The IBPT (Institut belge des Services postaux et des Télécommunications) is entrusted with managing the way radiofrequencies are put to use. Related equipments to be used in Belgium shall fit the overall plan detailed here:

https://www.ibpt.be/operateurs/plan-des-frequences

English:

https://www.bipt.be/operators/frequency-plan

Deutsch:

https://www.bipt.be/betreiber/frequenzplan

Each sub-category displays the specifics of a variety of regimes, like this one, for instance, regarding wireless microphones in the 470-518 MHz band:

https://www.ibpt.be/file/cc73d96153bbd5448a56f19d925d05b1379c7f21/0538291e230b1ca11492fe1483e010ec4da9b592/b-fr.pdf#page=273

or that one for the same devices in the 518-526 MHz band:

https://www.ibpt.be/file/cc73d96153bbd5448a56f19d925d05b1379c7f21/0538291e230b1ca11492fe1483e010ec4da9b592/b-fr.pdf#page=275

No individual license required / License exempt frequencies

- 29.7 - 47 MHz,
- 202 - 209 MHz, Radio microphones, max 50 mW ERP
- 518 - 526 MHz, Radio microphones, max 50 mW ERP
- 534 - 542 MHz, Radio microphones, max 50 mW ERP
  Forbidden in the Province of Hainaut and in the Entre-Sambre et Meuse region
- 823 - 826 MHz, max 20 mW (hand micro), max 50 mW (pocket/belt micro)
- 826 - 832 MHz, max 100 mW
- 863 - 865 MHz, Radio microphones, max 10 mW ERP
- 1795 - 1800 MHz, Radio microphones, max 20 mW (hand micro), max 50 mW (pocket/belt micro)
- 1880 - 1900 MHz, DECT Equipment

  see for 2022 (in German):

  https://www.bipt.be/file/cc73d96153bbd5448a56f19d925d05b1379c7f21/848660f5f3f6ff5cc04e86efa55c04e807c0f04c/BEL-DE-22-2.pdf

  in English: https://www.bipt.be/consumers/free-use-of-radio

Information from EU study in Nov 2022

Source: https://apwpt.org/wp-content/uploads/2022/10/study-on-the-use-of-the-sub-700-mhz-band-470-694-mhz-KK0722768ENN.pdf

Within Belgium, the following bands can be used for PMSE equipment:

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- 29.7 – 47MHz;
- 174 – 216MHz;
- 470 – 789MHz;
- 823 – 832MHz;
- 863 – 865MHz;
- 1492 – 1518MHz; and
- 1785 – 1804.8MHz.

License required

All bands are permitted to be used on a licence exempt basis, with the exception of the 174 – 216MHz and 470 – 790MHz bands which both require individual licensing.

How to get a short- or long-term license for?

The form you can download from:
https://www.bipt.be/consumers/publication/application-form-to-obtain-a-license-for-the-use-of-private-radio-communications-stations (English)

Large events request form:
https://www.bipt.be/consumers/publication/large-events-request-form

Fees

no fees.

Information for 2022 (in German language)

https://www.bipt.be/verbraucher/mikrofone

Information for 2022 (in English language)

https://www.bipt.be/consumers/microphones

More information is at

Belgian Institute for Postal services and Communications, Service Radiolicences
Ellipse Building – building C
Koning Albert II-laan 35 (Boulevard du Roi Albert II 35 box 1)
1030 BRUSSELS

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bipt
Belgian Institute for Postal Services and Telecommunications

All Belgium

Valid from 01-01-2024 to 31-03-2024

The licence is only valid if accompanied by this document
https://www.bipt.be/consumers/microphones

Channel	Fmin (MHz)	Fmax (MHz)	All Belgium	Comments
	29.7	47	OK	Power limited to 10 mW ERP
	174	202	NOK	
9	202	209	OK	Without licence for a power < = 50 mW ERP
10	209	216	NOK	
21	470	478	NOK	
22	478	486	NOK	
23	486	494	NOK	
24	494	502	NOK	
25	502	510	NOK	
26	510	518	NOK	
27	518	526	OK	Without licence for a power < = 50 mW ERP
28	526	534	NOK	
29	534	542	OK	Without licence for a power < = 50 mW ERP
30	542	550	NOK	
31	550	558	NOK	
32	558	566	NOK	
33	566	574	NOK	
34	574	582	NOK	
35	582	590	NOK	
36	590	598	NOK	
37	598	606	NOK	
38	606	614	NOK	
39	614	622	NOK	
40	622	630	NOK	
41	630	638	NOK	
42	638	646	NOK	
43	646	654	NOK	
44	654	662	NOK	
45	662	670	OK	Power in accordance with the licence
46	670	678	NOK	
47	678	686	NOK	
48	686	694	NOK	
49	694	702	NOK	
50	702	710	NOK	
51	710	718	NOK	
52	718	726	NOK	
53	726	734	NOK	
54	734	742	NOK	
55	742	750	NOK	
56	750	758	NOK	
57	758	766	NOK	
58	766	774	NOK	
59	774	782	NOK	
60a	782	786	NOK	
60b	786	789	NOK	
	789	822	NOK	
	823	826	OK	Without licence for a power < = 20 mW EIRP (hand microphones) or < = 100 mW EIRP (pocket microphones)
	826	832	OK	Without licence for a power < = 100 mW EIRP
	832	862	NOK	
	863	865	OK	Without licence for a power < = 10 mW EIRP
	1492	1525	OK	Power < = 50 mW EIRP, to use only inside the buildings
	1785	1800	OK	Without licence for a power < = 20 mW EIRP or < = 50 mW EIRP (pocket microphones)
	1800	1805	OK	Power < = 20 mW EIRP or < = 50 mW EIRP (pocket microphones)

Comments :
No guarantee of non-interference
Except 506.2 - 506.7 - 507.1 - 507.45 MHz
Except 595.2 - 595.7 - 596.1 - 596.45 MHz
Except 602.2 - 602.7 - 603.1 - 603.45 MHz

Note: information as of January 2024

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Bosnia and Herzegovina

Bosnia and Herzegovina does not license microphones in general, on a tuning range basis (Rule 81/2017, Annex X, the transposed ERC-REC 70-03 of that date) mic's can be used without licensing in the following bands:

RADIO MICROPHONE APPLICATIONS INCLUDING ASSISTIVE LISTENING DEVICES (ALD), WIRELESS AUDIO AND MULTIMEDIA STREAMING SYSTEMS

This annex covers frequency bands and regulatory parameters recommended for the use of radio microphone applications, hearing aids and wireless audio and multimedia streaming systems. It includes both professional and consumer radio microphones, both hand-held and body-worn, in-ear monitoring devices and Assistive Listening Devices (ALD). It also includes wireless audio and multimedia streaming (real-time playback including signal transmission and synchronization) devices, including wireless speakers, wireless headphones, low-power FM receivers that within the 87.5 to 108 MHz band create an RF connection between the transmission device and sound reproduction including cell phones, home entertainment systems or similar car systems, etc.

	Frequency Band	Power/Magnetic Field	Reference documents CEPT or EC	Reference standard	Notes
1	29,7-47 MHz	10 mW e.r.p.	ERC/REC 70-03 Annex 10	EN 300 422	Radio microphones. On a tuning range basis. Frequency bands 30.3-30.5 MHz, 32.15-32.45 MHz and 41.015-47.00 MHz are harmonized military bands.
2	87,5-108 MHz	50 nW e.r.p.	ERC/REC 70-03 Annex 10 (EU) 2017/1483	EN 301 357	Low power FM transmitters
~~3~~	~~169,4-174 MHz~~	~~10 mW e.r.p.~~	~~ERC/REC 70-03 Annex 10~~	~~EN 300 422~~	~~ALD - Assistive Listening Device~~ ~~On a tuning range basis~~
4	~~169,4-169,475 MHz~~	~~500 mW e.r.p.~~	~~ECC/DEC/(05)02~~ ~~ERC/REC 70-03 Annex 10~~ ~~(EU) 2017/1483~~	~~EN 300 422~~	~~ALD - Assistive Listening Device~~
5	~~169,4875-169,5875 MHz~~	~~500 mW e.r.p.~~	~~ECC/DEC/(05)02~~ ~~ERC/REC 70-03 Annex 10~~ ~~(EU) 2017/1483~~	~~EN 300 422~~	~~ALD - Assistive Listening Device~~
6	~~173,965-216 MHz~~	~~10 mW e.r.p.~~	~~ECC Report 230~~ ~~(EU) 2017/1483~~	~~EN 300 422~~	~~Hearing aids~~ ~~ALD - Assistive Listening Device.~~ ~~On a tuning range basis.~~ ~~A threshold of 35 dB microvolts/m is required to ensure the protection of the DAB receiver set at 1.5 m from the hearing aid, depending on the measurement of the DAB signal strength near the field of hearing aids.~~ ~~Hearing aids should, in all conditions, operate at frequencies at least 300 kHz off the frequency of the used DAB channel.~~
7	174-216 MHz	50 mW e.r.p.	ERC/REC 70-03 Annex 10	EN 300 422	Radio microphones On a tuning range basis.
8	470-786 MHz	50 mW e.r.p.	ERC/REC 70-03 Annex 10	EN 300 422	Radio microphones On a tuning range basis.
9	786-789 MHz	12 mW e.r.p.	ERC/REC 70-03 Annex 10 Detailed in technical conditions for the operation of PMSE equipment in Annex 3 to ECC/DEC/(09)03 Part 3.1	EN 300 422	Radio microphones On a tuning range basis.
10	823-826 MHz	20 mW e.i.r.p. / 100 mW e.i.r.p.	ERC/REC 70-03 Annex 10 Detailed in technical conditions for the operation of PMSE equipment in Annex 3 to ECC/DEC/(09)03 Part 3.1	EN 300 422	Radio microphones The 100 mW limit applies to equipment that is body-worn.
11	826-832 MHz	100 mW e.i.r.p.	ERC/REC 70-03 Annex 10 Detailed in technical conditions for the operation of PMSE equipment in Annex	EN 300 422	Radio microphones

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11	826-832 MHz	100 mW e.i.r.p.	ERC/REC 70-03 Annex 10 Detailed in technical conditions for the operation of PMSE equipment in Annex 3 to ECC/DEC/(09)03 Part 3.1	EN 300 422	Radio microphones
12	863-865 MHz	10 mW e.r.p.	ERC/REC 70-03 Annex 10 (EU) 2017/1483	EN 300 422 EN 301 357	Radio microphones, wireless audio and multimedia streaming devices
13	1350-1400 MHz	20 mW e.i.r.p./50 mW e.i.r.p.	ERC/REC 70-03 Annex 10	EN 300 422	Radio microphones 50 mW restricted to body worn equipment or equipment with Spectrum Scanning Procedure (SSP) implemented for the 1350-1400 MHz band
14	1492-1518 MHz	50 mW e.i.r.p	ERC/REC 70-03 Annex 10	EN 300 422	Radio microphones On a tuning range basis Indoor use
15	1518-1525 MHz	50 mW e.i.r.p.	ERC/REC 70-03 Annex 10	EN 300 422	Radio microphones On a tuning range basis Indoor use
16	1785-1795 MHz	20 mW e.i.r.p. / 50 mW e.i.r.p.	ERC/REC 70-03 Annex 10	EN 300 422	Radio microphones 50 mW restricted to body worn equipment or equipment with Spectrum Scanning Procedure (SSP) implemented for the 1785-1804.8 MHz band
17	1795-1800 MHz	20 mW e.i.r.p. / 50 mW e.i.r.p.	ERC/REC 70-03 Annex 10	EN 300 422 EN 301 357	Radio microphones, wireless audio and multimedia streaming devices. 50 mW restricted to body worn equipment or equipment with Spectrum Scanning Procedure (SSP) implemented for the 1785-1804.8 MHz band
18	1800-1804,8 MHz	20 mW e.i.r.p. / 50 mW e.i.r.p.	ERC/REC 70-03 Annex 10	EN 300 422	Radio microphones 50 mW restricted to body worn equipment or equipment with Spectrum Scanning Procedure (SSP) implemented for the 1785-1804.8 MHz band

Additionally, PMSE equipment is licensed (mostly with temporary licenses) in 2 GHz and 10 GHz bands according to the Rule 91/2019 , Article 4 - referencing to the CEPT documents ERC/REC 25-10, ECC REP 204, ECC REP 002, ERC REP 038, ERC REP 042. The Rule 91/2019 also stipulates that:

“In individual cases for the purpose of service in radio and TV broadcasting and programme making (PMSE applications) other bands outside the ranges listed in Table 1 of the Annex can be allocated to temporary and portable audio-video links in line with the Plan of Allocation and Utilization and CEPT documents ERC/REC 25-10, ECC REP 204, ECC REP 002, ERC REP 038, ERC REP 042.”

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Brazil

Any equipment used in Brasil has to be tested and labeled by Anatel.
Therefore, no further authorization is needed.

No individual license required / License exempt frequencies

- 54 - 72 MHz, 50 mW *1
- 76 - 88 MHz, 50 mW *1
- 174 - 216 MHz, 50 mW *2
- 470 - 608 MHz, 250 mW *3
- 614 - 698 MHz *3
- 902 - 907,5 MHz *3
- 915 - 927,75 MHz *3
- 1910 - 1920 MHz, DECT *4
- 2400 - 2495 MHz *4
- 5150 – 5350 MHz *4
- 5470 – 5725 MHz *4
- 5725 – 5850 MHz *4

Notes:
*1 Emission-Limit: 100 microvolt/metre, 3m distance of measurement
*2 Emission-Limit: 150 microvolt/metre, 3m distance of measurement
*3 Emission-Limit: 200 microvolt/metre, 3m distance of measurement
*4 Emission-Limit: 500 microvolt/metre, 3m distance of measurement

Further information

- Contact addresses of the responsible Local Telecommunication Offices:
  Anatel — Agência Nacional de Telecomunicações (www.gov.br)
- https://www.gov.br/anatel/pt-br

Note: information as of February 2020

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Bulgaria

License exempt frequencies / no license required

NATIONAL PLAN FOR RADIO FREQUENCY SPECTRUM ALLOCATION

https://crc.bg/files/URChS/RChS/FrequencyPlan2023_EN.pdf

Rules

https://www.crc.bg/en/rubrics/709/rules

Audio PMSE

29.7-47.0 MHz,
Radio microphones, max. 10 mW ERP, channel spacing up to 50 kHz, on a tuning range basis
Reference: EN 300 422; EN 300 422-1; EN 300 422-2; EN 300 422-3; EN 301 489-1; EN 301 489-9; ERC/REC 25-10; ERC/REC 70-03, national documents – Rules[1], Annex 2.9

174-216 MHz,
Radio microphones, max. 50 mW ERP, on a tuning range basis
Reference: EN 300 422; EN 300 422-1; EN 300 422-2; EN 300 422-3; EN 301 489-1; EN 301 489-9; ERC/REC 25-10; ERC/REC 70-03, national documents – Rules, Annex 2.9

470-694 MHz; 723-753 MHz; 778-786 MHz,
Radio microphones, max. 50 mW ERP
Reference: EN 300 422; EN 300 422-1; EN 300 422-2; EN 300 422-3; EN 301 489-1; EN 301 489-9; ERC/REC 25-10; ERC/REC 70-03, national documents - Rules; Annex 2.9

786-789 MHz,
Radio microphones, max. 12 mW ERP, on a tuning range basis
Reference: EN 300 422; EN 300 422-1; EN 300 422-2; EN 300 422-3; EN 301 489-1; EN 301 489-9; ERC/REC 25-10; ERC/REC 70-03, national documents - Rules; Annex 2.9

823-832 MHz,
Radio microphones
Reference: EN 300 422; EN 300 422-1; EN 300 422-2; EN 300 422-3; EN 301 489-1; EN 301 489-9; 2014/641/EC; ERC/REC 25-10; ERC/REC 70-03, national documents - Rules; Annex 2.9:

Power limit/density limit		Other usage restrictions
Block edge mask		Wireless audio PMSE equipment
Frequencies below 821 MHz	Out-of-block equivalent isotropically radiated power (e.i.r.p.) is: –43 dBm/(5 MHz) e.i.r.p.	
821-823 MHz	Guard band (for protection against interference from PMSE into terrestrial systems capable of providing electronic communications services (downlink))	
823-826 MHz	in-block e.i.r.p. of 13 dBm (20 mW) for hand-held audio PMSE equipment; in-block e.i.r.p. of 20 dBm (100 mW) for body-worn audio PMSE equipment	
826-832 MHz	in-block e.i.r.p. of 20 dBm (100 mW)	
Frequencies above 832 MHz	Out-of-block e.i.r.p. is –25 dBm/(5 MHz)	

[1] Rules for operation of electronic communications through radio equipment using frequency spectrum, which does not need to be individually assigned, the document is available only in Bulgarian

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863-865 MHz,
Wireless audio and multimedia streaming devices, max 10 mW ERP
Reference: EN 300 422; EN 300 422-1; EN 300 422-2; EN 300 422-3; EN 301 357; EN 301 357-1; EN 301 357-2; EN 301 489-1; EN 301 489-9; ERC/REC 25-10; 2006/771/EO, as amended, band 46b; ERC/REC 70-03, national documents - Rules; Annex 2.9

1350-1400 MHz,
Radio microphones, max 20 mW e.i.r.p./50 mW e.i.r.p. restricted to body worn equipment or equipment with Spectrum Scanning Procedure
Reference: EN 300 422; EN 300 422-1; EN 300 422-2; EN 300 422-3; EN 301 489-1; EN 301 489-9; ERC/REC 25-10; ERC/REC 70-03, national documents – Rules; Annex 2.9

1492-1518 MHz,
Radio microphones, max 50 mW e.i.r.p., on a tuning range basis, restricted to indoor use
Reference: EN 300 422; EN 300 422-1; EN 300 422-2; EN 300 422-3; EN 301 489-1; EN 301 489-9; ERC/REC 70-03, national documents - Rules; Annex 2.9

1518-1525 MHz,
Radio microphones, max 50 mW e.i.r.p., on a tuning range basis, restricted to indoor use
Reference: EN 300 422; EN 300 422-1; EN 300 422-2; EN 300 422-3; EN 301 489-1; EN 301 489-9; ERC/REC 25-10; ERC/REC 70-03, national documents - Rules; Annex 2.9

1785-1805 MHz,
Radio microphones
Reference: EN 300 422; EN 300 422-1; EN 300 422-2; EN 300 422-3; EN 301 489-1; EN 301 489-9; 2014/641/EC; ERC/REC 25-10; ERC/REC 70-03, national documents - Rules; Annex 2.9:

Power limit/density limit		Other usage restrictions
Block edge mask		Wireless audio PMSE equipment for handheld equipment
Frequencies below 1785 MHz (Out-of-block)	–17 dBm/200 kHz e.i.r.p.	
1785-1785.2 MHz (Restricted frequency range)	4 dBm/200 kHz e.i.r.p.	
1785.2-1803.6 MHz	13 dBm/ channel e.i.r.p.	
1803.6-1804.8 MHz	10 dBm/200 kHz e.i.r.p. with a limit of 13 dBm/channel.	
1804.8-1805 MHz (Restricted frequency range)	–14 dBm/200 kHz e.i.r.p.	
Frequencies above 1805 MHz (Out-of-block)	–37 dBm/200 kHz e.i.r.p.	
Block edge mask		Wireless audio PMSE equipment for body-worn equipment
Frequencies below 1785 MHz (Out-of-block)	–17 dBm/200 kHz e.i.r.p.	
1785-1804.8 MHz	17 dBm/ channel e.i.r.p.	
1804.8-1805 MHz (Restricted frequency range)	0 dBm/200 kHz e.i.r.p.	
Frequencies above 1805 MHz (Out-of-block)	–23 dBm/200 kHz e.i.r.p.	

1880-1900 MHz,
DECT (Digital European Cordless Telecommunications) systems, 250 mW (24 dBm) nominal transmit power, max 26 dBm (400 mW) EIRP for omni-directional antennas, max 30 dBm (1

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W) EIRP for directional antennas; channel spacing 1728 kHz, instant dynamic channel selection
Reference: EN 301 406, EN 301 489-1, EN 301 489-6, 91/287/EEC, ERC/DEC/(98)22, ERC/DEC/(94)03, ERC/REC 70-03, national documents - Rules; Annex 2.13

Video PMSE

2010-2025 MHz, 2025-2110 MHz, 2300-2400 MHz, 10.00-10.15 GHz, 21.2-21.4 GHz, 47.20-48.50 GHz,
Cordless Cameras,
–7 dBW e.i.r.p. for band 2010-2025 MHz,
6 dBW e.i.r.p. for bands 2025-2110 MHz, 2300-2400 MHz and 10.00-10.15 GHz,
13 dBW e.i.r.p. for bands 21.2-21.4 GHz and 47.20-48.50 GHz,
service area <500 m, Tx antenna gain 0 dBi, Rx antenna gain 6 dBi
Reference: EN 302 064, EN 302 064-1, EN 302 064-2, EN 301 489-1, EN 301 489-28, 2016/339/EC, ERC/REC 25-10, national documents - Rules; Annex 4

2010-2025 MHz, 2025-2110 MHz, 2300-2400 MHz, 10.00-10.15 GHz,
Portable video link, 16 dBW e.i.r.p., service area <2 km, Tx antenna gain 6 dBi, Rx antenna gain 17 dBi
Reference: EN 302 064, EN 302 064-1, EN 302 064-2, EN 301 489-1, EN 301 489-28, 2016/339/EC, ERC/REC 25-10, national documents - Rules; Annex 4

2010-2025 MHz, 2025-2110 MHz, 2300-2400 MHz,
Mobile video link (vehicle or aircraft),
10 dBW e.i.r.p. for band 2010-2025 MHz,
26 dBW e.i.r.p. for bands 2025-2110 MHz and 2300-2400 MHz,
service area <10 km, Tx antenna gain 3 dBi, Rx antenna gain 13 dBi
Reference: EN 302 064, EN 302 064-1, EN 302 064-2, EN 301 489-1, EN 301 489-28, 2016/339/EC, ERC/REC 25-10, national documents - Rules; Annex 4

10.00-10.15 GHz, 21.2-21.4 GHz,
Temporary point-to-point video links, 40 dBW e.i.r.p., service area <80 km, Tx antenna gain 13 dBi, Rx antenna gain 17 dBi
Reference: EN 302 064, EN 302 064-1, EN 302 064-2, EN 301 489-1, EN 301 489-28, 2016/339/EC, ERC/REC 25-10, national documents - Rules; Annex 4

Fees

No fees are required

Further information

Contact addresses of the responsible Local Telecommunication Offices:
Communications Regulation Commission (CRC), https://www.crc.bg/en
Address: Sofia 1000, 6 Gen. Joseph V. Gurko Str.
ЕИК: 121747864
Email: info@crc.bg
« contact us » : https://www.crc.bg/en/contacts/contact-us (January 2024)

Note: information as of March 2020 and January 2024

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Canada

Table A1: Frequency bands where wireless microphone use was permitted prior to the release of this decision paper			
Frequency band (MHz)	**Licensing mechanism**	**Radio standards specification (RSS)**	**Licensing procedure, where applicable**
26.10-26.48 (HF), 88-107.5 (FM), 150-174 (VHF), 450-451, 455-456 (UHF)	Licensed	RSS-123	CPC-2-1-11
72-73, 74.6-74.8, 75.2-76	Licence-exempt	RSS-210 annex C	n/a
88-108 (FM), 902-928, 2400-2483.5, 5725-5850	Licence-exempt	RSS-210 annex B	n/a
54-72, 76-88, 174-216 (VHF), 470-608, 614-698* (UHF)	Licence-exempt	RSS-210 annex G	n/a
54-72, 76-88, 174-216 (VHF), 470-608, 614-698* (UHF)	Voluntarily licensed	RSS-210 annex G	CPC-2-1-28
902-928, 2400-2483.5, 5725-5850	Licence-exempt for digital modulation	RSS-247	n/a
* As a result of SAB-003-17, on May 25, 2018, ISED no longer accepted applications for the certification of new low-power apparatus that operate in the bands 617-652 MHz and 663-698 MHz. As of November 15, 2018, no low-power apparatus in the bands 617-652 MHz and 663-698 MHz may be sold, offered for sale, manufactured, imported, distributed or leased on the Canadian market.			

Table A2: Frequency bands where wireless microphone use is permitted as of the release of this decision paper			
Frequency band (MHz)	**Licensing mechanism**	**Radio standards specification (RSS)**	**Licensing procedure, where applicable**
26.10-26.48 (HF), 88-107.5 (FM), 150-174 (VHF), 450-451, 455-456 (UHF)	Licensed	RSS-123	CPC-2-1-11
941.5-952, 953-960, 6930-6955, 7100-7125	Licensed (if eligible)	TBD	TBD
72-73, 74.6-74.8, 75.2-76	Licence-exempt	RSS-210 Annex C	n/a
88-108 (FM), 902-928, 2400-2483.5, 5725-5850	Licence-exempt	RSS-210 Annex B	n/a
54-72, 76-88, 174-216 (VHF), 470-608, 657-663 (UHF), 614-617, 652-657 (UHF)	Licence-exempt	RSS-210 Annex G*	n/a
54-72, 76-88, 174-216 (VHF), 470-608, 657-663 (UHF)	Voluntarily-licensed (if eligible)	RSS-210 Annex G*	CPC-2-1-28*
902-928, 2400-2483.5, 5725-5850	Licence-exempt for digital modulation	RSS-247	n/a
* To be updated to reflect decision including eligibility.			

Source:

https://ised-isde.canada.ca/site/spectrum-management-telecommunications/en/learn-more/key-documents/consultations/decision-technical-policy-and-licensing-framework-wireless-microphones

License exempt frequencies / no license required

* 72-73 MHz, 74.6-74.8 MH and 75.2-76 MHz, information in RSS-210 Annex C

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* 54-72 MHz, 76-88 MHz, information in RSS-210 Annex G

* 174-216 MHz, information in RSS-210 Annex G

* 470-608 MHz, information in RSS-210 Annex G

* 614-616 MHz and 653-663 MHz, information in RSS-210 Annex G

* 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz, information in RSS-210 Annex B

Individual assignment / Licence required

* 26.10-26.48 MHz, 88-107.5, 450-451 MHz and 455-456 MHz, <=1 W ERP, 200 kHz RF bandwidth

* 150-174 MHz, <= 50 mW output power, 200 kHz RF bandwidth

* 941.5-952 MHz and 953-959.85 MHz, <= 1 W output power, 200 kHz RF bandwidth

Further frequencies and information are published in the Radio standard specification RSS-123

The licensing procedure is described in CPC-2-1-11, Licensed Wireless Microphones

Notes

The update of RSS-210, as of April 2020, removes the bands 616-652 MHz and 663-698 MHz to reflect decisions in these references:

* SAB-003-17 "Low-power Radio Apparatus, Including Wireless Microphones, in the Band 614-698 MHz": http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf11341.html

* Decision on the Technical, Policy and Licensing Framework for Wireless Microphones: http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf11490.html

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Further information

* Link to the official website of the Government of Canada:
  https://www.canada.ca/en.html

* Addresses and Telephone Numbers of District Offices:
  http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf01742.html

* Voluntary Licensing of Licence-Exempt Wireless Microphones in the TV Bands:
  http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf10931.html

CPC-2-1-28 — Voluntary Licensing of Licence-Exempt Wireless Microphones in the TV Bands

December 2019, still valid June 2025

* Decision on the Technical, Policy and Licensing Framework for Wireless Microphones:
  http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf11490.html

* Permits, licences and regulations:
  https://www.canada.ca/en/services/business/permits.html

* Link to Industry Canada:
  http://www.ic.gc.ca/eic/site/icgc.nsf/eng/home

Note: information as of January 2024

Costa Rica

"Hasta el día de hoy en Costa Rica seguimos sin tener alguna regulación en cuanto el uso de microfonía inalámbrica, por lo que podemos seguir importando sin ningún tipo de problema, incluyendo las bandas 2.4 y 5G"

" To this day in Costa Rica we still do not have any regulation regarding the use of wireless microphones, so we can continue to import without any problem, including the 2.4 and 5 GHz bands."

So, there might be no national regulation about it.

Note: information as of June 2025

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Cyprus

Within Cyprus, radio PMSE equipment be used within the following bands:

- 29.7 - 47MHz;
- 169.8125 - 261MHz;
- 470 - 789MHz;
- 823 - 832MHz;
- 863 - 865MHz;
- 1350 - 1400MHz;
- 1492 - 1525MHz; and
- 1785 - 1804.8MHz.

PMSE equipment in Cyprus that conforms to the technical specifications outlined in ERC/REC 25-10 and ERC/REC 70-03 is generally permitted to be operated on a licence exempt basis. As such, much of the PMSE usage within the sub-700MHz UHF spectrum is licence exempt within Cyprus.

Note: information as of November 2022

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Czech Republic

- English pages of the Czech Telecommunication office have been moved to https://ctu.gov.cz/en.

License exempt frequencies / no license required

- 174 - 216 MHz, max. 50 mW ERP, reference to national publication documents: Article 10 of General Authorization No. VO-R/10/05.2025-5 *
- 470 - 694 MHz, max. 50 mW ERP, reference to national publication documents: Article 10 of General Authorization No. VO-R/10/05.2025-5 *
- 863 - 865 MHz, max. 10 mW ERP, reference to national publication documents: Article 10 of General Authorization No. VO-R/10/05.2025-5 *
- 1785 - 1804,8 MHz, max. 30.49 (body-worn or implementing Spectrum Scanning Procedure) / 12.2 mW ERP, reference to national publication documents: Article 10 of General Authorization No. VO-R/10/05.2025-5 *
- 1880 - 1900 MHz (standard DECT), max. 250 mW ERP, max average power 10 mW ERP reference to national publication documents: General Authorization No. VO-R/8/08.2005-23
- 2400 - 2483 MHz:
  - according to ETSI EN 300 440: max. 25 mW e.i.r.p., reference to national publication documents: Article 3 of General Authorization No. VO-R/10/05.2025-5 *
  - according to ETSI EN 300 328: max. 100 mW e.i.r.p., reference to national publication documents: General Authorization No. VO-R/12/11.2021-11

* Links: Document in Czech language; older version in English (no changes regarding mics; “This is an unofficial translation (2021). The legally binding text is the original Czech version”).

Individual assignment / Licence required

- 174 - 230 MHz, Technical conditions e.g. max. 100 mW ERP, Reference to national publication documents: Radio Spectrum Utilisation Plan, Part No. PV-P/21/05.2024-2 (Note: for 174 - 216 MHz, max. 50 mW ERP see „ License exempt frequencies“ above.)

Fees

See https://ctu.gov.cz/en/charges-individual-and-short-time-authorisations-use-radio-frequencies

Further information

Contact addresses of the responsible Local Telecommunication Offices:
see
https://ctu.gov.cz/en/telefonicke-kontakty-odboru-spravy-kmitoctoveho-spektra-ctu
and
https://ctu.gov.cz/en/contacts

- latest available English translations of the above regulations – which are – can be accessed at the following pages:
  - https://ctu.gov.cz/en/general-authorisation
  - https://ctu.gov.cz/en/plan-use-radio-spectrum

Note: information as of July 2025

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Denmark

No individual license required / License exempt frequencies

No licence is required for wireless microphones in the following frequency bands (except 1518-1525 MHz):

· 32.00 to 39.40 MHz

o ≤ 50 kHz, 10mW e.r.p.

o The following channels are available:

o 32.000 MHz, 32.400 MHz, 35.800 MHz, 36.200 MHz, 36.500 MHz, 36.700 MHz, 36.900 MHz, 37.100 MHz, 37.300 MHz, 37.500 MHz, 37.700 MHz, 38.800 MHz, 37.900 MHz, 39.000 MHz, 39.400 MHz

· 138.000 MHz to 143.600 MHz

o ≤ 200 kHz, 50mW e.r.p.

o The following channels are available:

o 138.250 MHz, 138.700 MHz, 138.800 MHz, 139.050 MHz, 139.750 MHz, 141.765 MHz, 142.070 MHz

· 174-216 MHz

o 100 mW e.i.r.p.

· 470 to 695 MHz

o 100 mW e.i.r.p., white spaces only:
https://mikrofon.frekvenser.dk/

· 694-703 MHz

o 100 mW e.i.r.p.

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· 821.5-826 MHz

o 20 mW e.i.r.p.

o 100 mW e.i.r.p. restricted to body-worn equipment

· 826-832 MHz

o 100 mW e.i.r.p.

· 863-865 MHz

o 10 mW e.r.p.

· 1350-1400 MHz

o 20 mW e.i.r.p.

o 50 mW e.i.r.p. restricted to body-worn equipment or equipment implementing Spectrum Scanning Procedure (SSP)

· 1518-1525 MHz

o 50 mW e.i.r.p. Individual licence required. Restricted to indoor use.

· 1785-1804.8 MHz

o 20 mW e.i.r.p.

o 50 mW e.i.r.p. restricted to body-worn equipment or equipment implementing Spectrum Scanning Procedure (SSP)

The bands within the range 169-223 MHz formely used are for ALD rather than PMSE.

Also 733-736 MHz is no longer relevant (Info July 2025).

Note: information as of July 2025

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Estonia

License exempt frequencies / no license required

- 37.6 - 38.6. max 10 mW ERP; Estonian Frequency Allocation Plan (in Estonian language only) https://www.riigiteataja.ee/aktilisa/1250/1201/9006/MKM_22012019_m6lisa1.pdf#, national documents
- 174 - 216 MHz, 50 mW ERP; Estonian Frequency Allocation Plan, national documents
- 470 - 694 MHz, 50 mW ERP; Estonian Frequency Allocation Plan, national documents
- 823 - 826 MHz, 100 mW e.i.r.p. for body-worn wireless microphones, otherwise max. 20 mW e.i.r.p. Estonian Frequency Allocation Plan, national documents
- 826 - 832 MHz, 100 mW e.i.r.p.; Estonian Frequency Allocation Plan, national documents,
- 863 - 865 MHz, ERP; 10mW Estonian Frequency Allocation Plan, national documents
- 1785 - 1804.8 MHz, max. 50 mW e.i.r.p. for body-worn wireless microphones, otherwise max. 20 mW e.i.r.p.; Estonian Frequency Allocation Plan, national documents
- 1880 - 1900 MHz, DECT equipment only*
- 2400 - 2483 MHz; Estonian Frequency Allocation Plan*

Further information

- Consumer Protection and Technical Regulatory Authority:

  Endla 10a, 10142 Tallinn
  Telephone: (+372) 667 2000
  Fax: (+372) 667 2001
  Reg. nr. 70003218
  E-mail: info@ttja.ee
  www.ttja.ee / www.ttja.ee/en

- Applying for a frequency licence:
  https://www.ttja.ee/en/fields-services/communications-services/radio-communications/applying-frequency-licence

- Estonian Frequency Allocation Plan:
  https://www.riigiteataja.ee/akt/102102014004

Note: information as of November 2022, * = not yet re-confirmed in Nov. 2022

We do not give any guarantee for the correctness or completeness of the information. We assume no responsibility for external links.

For the newest version, look apwpt.org

Finland

License exempt frequencies / No individual license required

The 200 kHz maximum channel bandwidth is not a mandatory requirement for license exemption in most radio microphone frequency bands. The requirements for license exempt microphones can be found in TRAFICOM Regulation 15, section 10.5. The equipment must comply with the relevant harmonised standards.

- 174 – 195; 216 - 225 MHz, max. 50 mW ERP
- 470 - 694 MHz, max. 50 mW ERP
- 823 - 832 MHz
  823-826 MHz: max. 12 mW ERP or max. 60 mW ERP for body-worn wireless microphones
  826-832 MHz: max. 60 mW ERP
- 863 - 865 MHz, max. 10 mW ERP
- 1785 - 1804.8 MHz, max. 20 mW e.i.r.p. or
  max. 50 mW e.i.r.p. for body-worn wireless microphones
- 1881.792 MHz + (0…9) x 1.728 MHz, DECT equipment, max. 250 mW ERP.*

To get further information on license-exempt radio microphones and frequency selection, see TRAFICOM's website http://mics.traficom.fi/

Regulation on collective frequencies for license-exempt radio transmitters (includes DECT devices) and on their use.

https://www.traficom.fi/en/regulations/regulation-15-collective-frequencies-licence-exempt-radio-transmitters-and-their-use

Mandatory application / Applying for a short-term license (PMSE-license)

- The radio microphones will be license-exempted if they operate on the allowed frequencies and accordance with the standard. In cases where parameters of use such like maximum ERP (10 mW - 60 mW) or bandwidth (≤ 200 kHz) deviates from those exempted from license TRAFICOM grants a radio license if necessary to the radio microphone. The radio licenses are applied for from TRAFICOM using the form on the website and TRAFICOM assigns parameters and the frequencies to be used in the radio license.
  https://www.traficom.fi/en/contact-form-event-organizers

Fees

- The frequency fee of a license bases on the number of equipment and frequencies used. The frequency fee of a short-term license is at least one fourth of an annual frequency fee but no less than EUR 18.
- Typical fees (for using a bandwidth of 200 kHz):
  - 18 EUR for a single microphone up to 12 months
  - 18 EUR for 8 microphones up to 3 months
  - 65 EUR for 8 microphones up to 12 months

Link to administrations homepage

We do not give any guarantee for the correctness or completeness of the information. We assume no responsibility for external links.

For the newest version, look apwpt.org

https://www.traficom.fi/en/

Note: information as of August 8th, 2021, updated August 16th, 2021 and Nov 2022; * = not yet reconfirmed

France

License exempt frequencies / No license required

The access to spectrum for PMSE (wireless microphones, In-Ear monitor systems, talk-back applications) is subject to a licence-exempt regime, authorized by the national regulatory authority

ARCEP (Autorité de régulation des communications électroniques et des postes).

Such use is allowed in the following bands and is restricted to professional users for audio.

- 174 - 223 MHz, max. 50mW ERP
- 470 - 694 MHz, max. 50 mW ERP
- 694-698 MHz max. 50 mW ERP
- 821,5 - 826 MHz, max. 20 mW e.i.r.p. or max. 100 mW e.i.r.p. for body-worn wireless microphones
- 826 - 832 MHz, max. 100 mW e.i.r.p.
- 863 - 865 MHz, max. 10 mW ERP
- 1785 - 1800 MHz, max. 50 mW e.i.r.p. for body-worn wireless microphones or or implementing a spectrum scanning procedure (SSP) otherwise max. 20 mW e.i.r.p.

Question

What the effect of change in 700 MHz?

Since July 1st 2019, PMSE are not allowed in the 700 MHz band except

Further Information

Link to France administrations homepage, see;

Audio PMSE:

https://www.arcep.fr/la-regulation/grands-dossiers-reseaux-mobiles/les-frequences-pour-les-professionnels-de-laudiovisuel-et-du-spectacle/les-equipements-auxiliaires-sonores-de-conception-de-programmes-et-de-radiodiffusion.html

Video PMSE:

https://www.arcep.fr/la-regulation/grands-dossiers-reseaux-mobiles/les-frequences-pour-les-professionnels-de-laudiovisuel-et-du-spectacle/les-liaisons-video-mobiles.html

Temporary authorizations too meet certain specific needs, particularly during major events:

Downloadable application form to be sent to ANFR on the website of ARCEP, ‘Formulaire de demande d'autorisation temporaire d'utilisation de fréquences’:

https://www.arcep.fr/fileadmin/cru-1714402758/reprise/dossiers/licences/EN-17-54.xlsx

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10. Microphones sans fil incluant les aides à l'audition, et dispositifs audio sans fil

Bande de fréquences ou fréquence centrale du canal	Puissance max.	Paramètres additionnels	Références / observations
100 Hz à 9 kHz	120 dBµA/m à 10 m		ERC/REC 70-03 (annexe 10) Dispositifs d'aide à l'audition (systèmes à boucle d'induction) Taille d'antenne < 1/20 λ
32,8 MHz / 36,4 MHz / 39,2 MHz	1 mW p.a.r.	Canalisation : 200 kHz	Arrêté du 11 mars 1994
87,5 à 108 MHz	50 nW p.a.r.	Largeur de bande ≤ 200 kHz	Décision 2006/771/CE modifiée (bande n° 36) L'utilisation de ces appareils est réservée pour la transmission audio à des fins personnelles et exclut toute radiodiffusion de programmes à destination du public.
169,4 à 169,475 MHz	500 mW p.a.r.		Décision 2006/771/CE modifiée (bande n° 37a) Dispositifs d'aide à l'audition
169,4875 à 169,5875 MHz	500 mW p.a.r.		Décision 2006/771/CE modifiée (bande n° 39a) Dispositifs d'aide à l'audition
173,965 à 216 MHz	10 mW p.a.r	Mise en œuvre de techniques d'accès au spectre et d'atténuation des interférences.	Décision 2006/771/CE modifiée (bande n° 82) Dispositifs d'aide à l'audition (Note 1)
174 à 223 MHz	50 mW p.a.r.		ERC/REC 70-03 (annexe 10) Utilisateurs professionnels d'équipements auxiliaires sonores de conception de programmes et de radiodiffusion
175,5 à 178,5 MHz	10 mW p.a.r.	Canalisation : 200 kHz	Arrêté du 11 mars 1994
183,5 à 186,5 MHz	10 mW p.a.r.	Canalisation : 200 kHz	Arrêté du 11 mars 1994

Note 1 – Un seuil de 35 dBµV/m est requis pour assurer la protection d'un récepteur DAB situé à 1,5 mètre du dispositif d'aide à l'audition (DAA), sous réserve mesures de puissance du signal DAB effectuées autour du site de fonctionnement DAA. Le DAA devrait fonctionner, en toutes circonstances à au moins kHz du bord d'une bande DAB occupée.

10. Suite (Microphones sans fil incluant les aides à l'audition, et dispositifs audios sans fil)

Bande de fréquences	Puissance max.	Paramètres additionnels	Références / observations
470 à 694 MHz	50 mW p.a.r.		ERC/REC 70-03 (annexe 10) Utilisateurs professionnels d'équipements auxiliaires sonores de conception de programmes et de radiodiffusion (audio PMSE).
694 à 698 MHz	50 mW p.a.r.		ERC/REC 70-03 (annexe 10) Utilisateurs professionnels d'équipements auxiliaires sonores de conception de programmes et de radiodiffusion (audio PMSE).
821,5 à 826 MHz	100 mW p.i.r.e. pour les équipements portés au corps. 20 mW p.i.r.e. pour les autres types d'équipement.		[Décision 2014/641/UE / Décision 2006/771/CE modifiée (bande n° 94)] Utilisateurs professionnels d'équipements auxiliaires sonores de conception de programmes et de radiodiffusion (audio PMSE)
826 à 832 MHz	100 mW p.i.r.e.		[Décision 2014/641/UE / Décision 2006/771/CE modifiée (bande n° 95)] Utilisateurs professionnels d'équipements auxiliaires sonores de conception de programmes et de radiodiffusion (audio PMSE)
863 à 865 MHz	10 mW p.a.r.		Décision 2006/771/CE modifiée (bande n° 46b)
1 785 à 1 805 MHz	50 mW p.i.r.e. pour les équipements portés au corps ou mettant en œuvre une procédure de balayage du spectre (SSP) 20 mW p.i.r.e. pour les autres types d'équipement.		[Décision 2014/641/UE/ Décision 2006/771/CE modifiée (bande n° 96)] Utilisateurs professionnels d'équipements auxiliaires sonores de conception de programmes et de radiodiffusion (audio PMSE)

Note: information as of October 2026

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Germany

Rule: Allgemeinzuteilung von Frequenzen für Funkmikrofone

This general allocation is also published on the Federal Network Agency's website at https://www.bundesnetzagentur.de/allgemeinzuteilungen

Generally assigned frequencies / No individual license required *(see VVnömL for details)*

- 32.475 - 34.325 and 36.610 - 38.125 MHz, 10 mW ERP
- 174 - 230 MHz, 50 mW ERP
- 470 - 608 MHz, 614 – 69**8** (since 2022*), 694 (until 2022) MHz, 50 mW ERP

  * The four MHz 694 - 698 MHz are new in 2022. This was originally a guard band to protect / decouple Broadacst from Mobile IMT. Since it is the uplink from the smartphones, we are not sure how much spurious emissions come in in the four MHz, i.e. whether there can be interference.

  WARNING FOR ALL GERMANY:

  470 - 608 MHZ: Starting in the summer of 2026, interference from military radio applications may occur at any time and without prior notice in this frequency band. This applies particularly near military barracks. The German Armed Forces are not currently providing any further information on this matter to PMSE organizations. **The interference may occur suddenly**, and PMSE users may not associate it with the German Armed Forces. "The Bundesnetzagentur is not permitted to publish details regarding military frequency use."
  https://fragdenstaat.de/anfrage/frequenznutzer/#nachricht-1146008

- 736-753 MHz:
- 823 - 832 MHz, 82/100mW e.i.r.p.

* Note from summer 2025: "...even the previously uncritical, license-free frequency range between 823 and 832 MHz is occasionally disrupted—as was recently experienced at an open-air concert in southern Germany, when a mobile phone operator's LTE 800 uplink made it impossible to use devices above 830 MHz." (German) „…selbst der bislang unkritische, lizenzfreie Frequenzbereich zwischen 823 und 832 MHz wird gelegentlich gestört - wie zuletzt erlebt bei einem Open Air Konzert in Süddeutschland, als der LTE 800 Uplink eines Mobiltelefonbetreibers die Nutzung von Geräten oberhalb 830 MHz unmöglich machte."

Source/Quelle: Zukunft des UHF-Bands - 'Ohne Frequenzen keine Kultur': Veranstaltungsbranche warnt vor Einschränkungen der Funknetze

https://www.backstagepro.de/thema/ohne-frequenzen-keine-kultur-veranstaltungsbranche-warnt-vor-einschraenkungen-der-funknetze-2025-09-01-9fvMx911MH

- 863 - 865 MHz, 10mW ERP, permit 107/2018 https://bit.ly/3IcYfIO

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- 1350 - 1400 MHz, 50 mW e.i.r.p., indoor only,
- 1785 - 1805 MHz, 82mW e.i.r.p.
- 1795 - 1800 MHz, 20mW ERP
- 1880 – 1900 MHz, 250 mW ERP **DECT only**

Individual assignment up to 10 years / Individual license required *(see VVnömL for details)*

- Single frequencies in 34.25 to 38.05 MHz, see VVnömL
- 733 - 823 MHz, 50 mW ERP;
  758-788 and 791-821 additional optional capacity, see VVnömL
- 1452 - 1492 MHz, 50 mW e.i.r.p., additional optional capacity, see VVnömL
- 1492 - 1518 MHz, 50 mW e.i.r.p., indoor only -- UNCLEAR in sept 2024, if still usable
- 1518 - 1525 MHz, 50 mW e.i.r.p., indoor only -- UNCLEAR in sept 2024, if still usable

Fees for a "PA system" (wireless microphone systems) - long term frequency assignment up to 10 years

- Fees are charged for the allocation of frequencies in accordance with the Special Fees Ordinance of the Federal Network Agency - Frequency Allocations (BNetzA BGebV-FreqZut). The allocation fees are steering fees. The actual fee amount is calculated depending on the specific allocation parameters (Info from March 2022).
- Non recurrent fee was around € 130.00 per application before 2021. This amount included one-time administration costs regardless of the number of wireless microphones and the number of frequencies that are used in the system (wireless station).
- Now, there is a new few scheme. It is not more expensive, but hard to calculate. Often it is cheaper; see B.43 in: https://www.gesetze-im-internet.de/bnetzafreqzutbgebv/anlage.html
- Get possibly updates here:
  https://www.bundesnetzagentur.de/DE/Sachgebiete/Telekommunikation/Unternehmen_Institutionen/Frequenzen/Grundlagen/GebuehrenundBeitraege/gebuehrenundbeitraege-node.html

Administrative provisions relating to frequency assignments in the private land mobile radio

VVnömL
https://www.bundesnetzagentur.de/SharedDocs/Downloads/DE/Sachgebiete/Telekommunikation/Unternehmen_Institutionen/Frequenzen/Verwaltungsvorschriften/VVnoemL.pdf?__blob=publicationFile&v=22

(in German language only) ***General licenses (Allgemeinzuteilung)***
www.bundesnetzagentur.de/allgemeinzuteilungen (in German language only) ***PMSE Programme Making and Special Events (Drahtlose Mikrofone)*** www.bundesnetzagentur.de/drahtlosemikrofone
(in German language only)
Short-term frequency assignment www.bundesnetzagentur.de/shortterm

Zuteilungsgebiete Deutsche Motorsportrennstrecken / Allocation areas German motor racing circuits (pdf / 124 KB):

Note: information as of September 2024, partialy updated September 2025 and October 2026

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Greece

Wireless Microphones

Frequency ranges for wireless microphones:

Frequency Band (MHz)	Bandwidth (kHz)	Right of Use	Additional Requirements
29,7-47,0	50	License Exempt	operation on non-interference and non-protected basis, technical terms ERC REC 70-03 maximum transmitted power (erp) ≤10mW
174–216		License Exempt but *frequencies should be notified*	operation on non-interference and non-protected basis, technical terms ERC REC 70-03 Maximum transmitted power (erp) ≤ 50 mW
		License required	Technical terms **ERC REC 70-03** **Maximum transmitted power (erp) > 50 mW**
470–703 and 733-758		License Exempt but *frequencies should be notified*	operation on non-interference and non-protected basis, technical terms ERC REC 70-03 Maximum transmitted power (erp) ≤50mW
		License required	**Maximum transmitted power (erp) >50mW**
788-790	200	License Exempt	operation on non-interference and non-protected basis, Maximum transmitted power (erp) ≤12mW
823-826	200	License Exempt but *frequencies should be notified*	operation on non-interference and non-protected basis, Maximum transmitted power (eirp) ≤20mW for handheld devices
			operation on non-interference and non-protected basis, Maximum transmitted power (eirp) ≤100mW restricted to body worn devices
826-832	200	License Exempt but *frequencies should be notified*	operation on non-interference and non-protected basis Maximum transmitted power (eirp) ≤100mW
863–865		License Exempt but *frequencies should be notified*	operation on non-interference and non-protected basis Maximum transmitted power (erp) ≤10 mW
1785–1804,8		License Exempt but *frequencies should be notified*	Operation on non-interference and non-protected basis Maximum transmitted power (eirp) ≤20 mW for handheld devices (up to 50 mW restricted to body worn microphones)

In-ear monitoring systems

The frequency bands and limitations listed in the table above for wireless microphones apply.

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Walkie-talkies (PMR)

An individual license is required.

Recommended frequency bands: 442-445 MHz and 450-470 MHz

Permissible bandwidths: 6.25 kHz, 12.5 kHz, 25 kHz

Wireless intercoms

The framework for PMR applies.

Wireless cameras

Individual license is required:

Frequency Band (MHz)	Type	Bandwidth (MHz)	Right of Use	Additional Requirements
2010- 2025	Analogue/ Digital		License required	Commission Implementing Decision (EU) 2016/339 max eirp: Cordless Camera: -7dBW (eirp) Portable video link: 16dBW (eirp)
2025–2110	Analogue/ Digital	-	License required	ERC REP 38 The frequency band 2087,5–2108,5 MHz is used only by the military servuces
2200–2290	Analogue/ Digital	-	License required	ERC REP 38 The frequency band 2087,5–2108,5 MHz is used only by the military servuces
2300–2400	Analogue	20/28 for mobile video links and ENG	License required	ERC REP 38
	Digital	5/10/20 for mobile video links and ENG	License required	ERC REP 38

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10000–10600	Analogue/ Digital	-	License required	ERC REP 38
21200–21400	Analogue/ Digital	-	License required	ERC REP 38
22600–23600	Analogue/ Digital	-	License required	ERC REP 38
47200–50200	Digital	-	License required	ERC REP 38

SNG uplinks

- Upper limit for the eirp of the SNG around 65 dBW
- If the uplink frequency band is at 14-14.5 GHz there is no need to submit AP7 coordination contours.
- It is important to mention on the application for the downlink whether the downlink frequency is going to be used for downlink in their country via broadcasting satellite.

Procedure - Fees

General Notes and Information for PMSE licensing can be found here:

https://www.eett.gr/en/operators/radio-frequency-spectrum/radiospectrum-licensing/temporary-rights-of-use/

All applications for radio spectrum rights of use shall be submitted electronically through the Spectrum Management System, SMS, Web Portal.

The cost of any temporary license for wireless microphones, cameras, in ear monitors as well as PMR is 60€ for the first two days and then 10€ for each following day. The maximum charge is 300€ for a maximum period of 2 months.

For SNG the fees are 115 € for the first two days and then 20€ for each following day. The maximum charge is 1000€ for a maximum period of 2 months.

All aforementioned fees are per frequency and per usage area. No fees are required for declaring the frequency to be used (in cases of license exemption).

Steps required for the submission of an application

Stepstoapplyfortemporaryspectrumusag

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Further information

Contact address of the responsible Local Telecommunication Offices: info@eett.gr, sms@eett.gr

Note: information as of July 2025.

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For the newest version, look apwpt.org

Hungary

No individual license required / License exempt frequencies

In the following bands license exemption applies for frequency usages employing transmit parameters that match license exemption criteria (check the spectrum information system for details via this link; http://stir.nmhh.hu/?lang=2). Otherwise a license has to be asked for and the requested transmission parameters will be subject of thorough investigation (for possible interference), based on which a temporary license might be issued (see note 1):

- 174 - 216 MHz, max. 50 mW ERP
- 470 - 694 MHz, max. 50 mW ERP
- 694 - 703 MHz, 733 -758 MHz, 50 mW ERP; available until 05.09.2020
- 786 -789 MHz, 12 mW ERP; available until 05.09.2020
- 823 - 826 MHz, max. 20 mW e.i.r.p. or max. 100 mW e.i.r.p. for body-worn wireless microphones
- 826 - 832 MHz, max. 100 mW e.i.r.p.
- 863 - 865 MHz, max. 10 mW ERP
- 1350 - 1400 MHz, max. 20 mW e.i.r.p. or max. 50 mW e.i.r.p. for body-worn wireless microphones or for use with SSP (Spectrum Scanning Procedure)
- 1492 - 1518 MHz, 50 mW e.i.r.p.
- 1518 - 1525 MHz, 50 mW e.i.r.p.
- 1785-1804.8 MHz, max. 20 mW e.i.r.p. or max. 50 mW e.i.r.p. for body-worn wireless microphones or for use with SSP
- 1880 - 1900 MHz, for DECT equipment, max 250 mW e.i.r.p. (see note 2).

Notes:

1) In fortunate cases when the tuning range of an equipment falls outside the listed frequency ranges but harmful interference will probably not be caused (based on the interference check of the Authority) a license might also be issued. In such cases please request information from our licensing department.

2) Stations fulfilling the requirements of Decision ERC/DEC/(98)22 are exempted from the obligation of individual licensing. It is not forbidden to use the band for audio PMSE although it is originally not meant for this purpose.

Fees

Fees of HUF 4000 per transmitter will be levied (fee of temporary license for shorter than 1 month of operation).
The relevant rules can be found in the Decree NMHH 1/2011 (III. 31.):
http://njt.hu/cgi_bin/njt_doc.cgi?docid=136918

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Further information

Contact addresses:

- Web address with further information: http://english.nmhh.hu/
- Contact for general regulatory issues: berecz.laszlo@nmhh.hu
- Direct contact for licensing issues: feo@nmhh.hu

- Downloadable application form on the website of the National Media and Infocommunications Authority of Hungary: http://english.nmhh.hu/dokumentum/173145/temporary_licence_application_hng.xlsx (this refers to the form for the temporary licensing of PMSE use)

Note

Please always check before use the valid frequency usage regulation at the Authority's spectrum information system at:

http://stir.nmhh.hu/?lang=2

Note: information as of February 2020, data checked Nov 2022 (not the links)

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Iceland

See annex 10 to ERC/REC T/R 70-03 and the appendix concerning implementation status of each frequency band

Authority: https://fjarskiptastofa.is/English

The Electronic Communications Office of Iceland (ECOI) is responsible for the administration of electronic communications and network security in Iceland.

The National Table of Frequency Allocation for the range 9 kHz to 400 GHz can be found in the following:

Spectrum	**Updated**
0 - 27,5 KHz	09.07.2024
27,5 - 10.000 MHz	27.12.2024
10 - 400 GHz	27.12.2024

See

https://www.fjarskiptastofa.is/english/telecom-affairs/frequencies-and-technial-matters/

= https://tinyurl.com/yhukus7f

Note: information as of July 2025

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Ireland

https://www.comreg.ie/industry/radio-spectrum/licensing/search-licence-type/programme-making-and-special-events-pmse/

= https://tinyurl.com/2s42uzfj

Data (July 2025):

https://www.comreg.ie/media/2023/03/ComReg-08_08R7.pdf

= https://shorturl.at/SqhqN

A PMSE licence allows for the use of radio equipment at a specified location and event for the duration specified on the licence, not exceeding a maximum period of six months. PMSE licences are available for periods of up to six months only and are non-renewable.

Application Process
To apply for a licence, applicants must login to ComReg's online facility which is available at www.elicensing.comreg.ie
Applicants must be a ComReg account holder; if not, you can register for a ComReg account at www.elicensing.comreg.ie

Fees / Fee Calculator
Licence fees are based on the quantity of equipment to be licensed.
The cost is €12 per piece of equipment plus a fixed charge of €12 for the duration of the licence. (e.g. 4 walkie talkies + 2 radio mics = 6 units +1 fixed charge = 7 x €12 = €84).

Regulations
The Regulations governing the issue of PMSE licences is the:

- Wireless Telegraphy (Business Radio Licence) Regulations, 1949 (S.I. 320 of 1949) and subsequent amendments.

Interleaved Spectrum between 470 MHz and 694 MHz
The "Overview of Ireland's DTT Interleaved Spectrum" document has been created as a guide for applicants wishing to apply for wireless microphones and IEMs to lookup availability within the 470 and 694 MHz band prior to submitting an application. Spectrum availability is illustrated using three possible risk categories;

RED – HIGH RISK frequencies: High possibility of interference with DTT.

YELLOW – SMALL RISK frequencies: Small possibility of interference with DTT.

GREEN– LOW RISK frequencies: Low Risk of interference from DTT .

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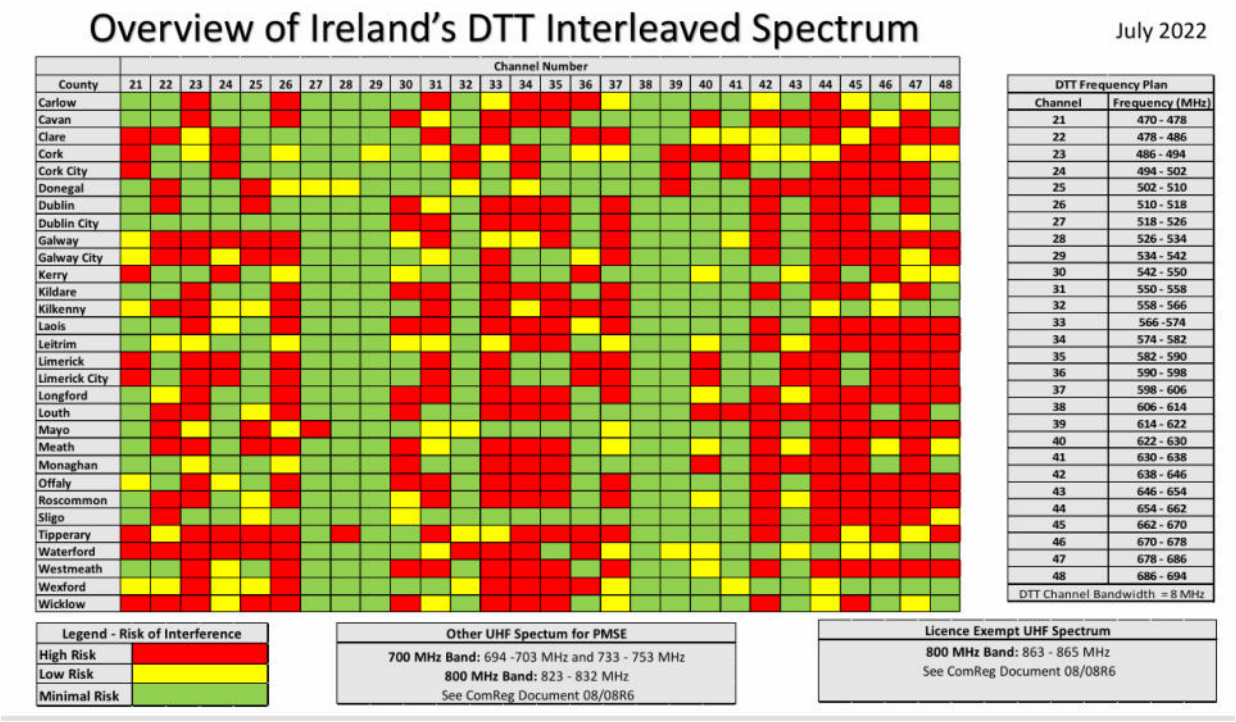
For the newest version, look apwpt.org

The current Interleaved Spectrum between 470 MHz – 694 MHz can be viewed via the link below:
Overview of Ireland's DTT Interleaved Spectrum.



The latest revision (July 2022) reflects the current spectrum use between 470 MHz – 694 MHz.

This document is subject to change and may be updated as required by ComReg without notice.

For further information regarding the use of the 470 MHz to 694 MHz frequency band by Broadcasting Services, see

- RTÉ's Licences for Digital Terrestrial Television Multiplexes at:
  - /industry/radio-spectrum/licensing/search-licence-type/broadcasting-services/ ; and
- SAORVIEW Transmitter and Frequency information at:
  - https://2rn.ie/saorview-digital-tv/

Note: information as of July 2025

We do not give any guarantee for the correctness or completeness of the information. We assume no responsibility for external links.

For the newest version, look apwpt.org

Italy

In Italy frequency bands from 174 to 223 MHz and from 470 MHz to 790 MHz are intended, as a primary service, for digital broadcasting. However, the use of professional radio microphones SRD and equipment for broadband audio links is permitted under the same bands, as secondary status. Professional wireless microphones, using unlicensed frequencies (without protection rights) in the bands 174-223 MHz and 470-790 MHz, with a maximum radiated power (e.r.p.) not exceeding 50Mw, complying with CEPT ERC/REC recommendation 70-03 -Annex 10, are subject to the General Authorization system under Article 104, paragraph 1, letter c), number 2.3) of the Electronic Communications Code, as detailed in note 87A of the National Plan of Frequencies Allocation.

No individual license required / License exempt frequencies

- 823 - 832 MHz, Radio microphones, max 10 mW ERP
- 863 – 865 MHz, Radio microphones, max 10 mW ERP
- 174 - 230 MHz, Radio microphones, max 50 mW ERP
- 470 - 694 MHz, Radio microphones, max 50mW ERP
- 786 - 790 MHz, Radio microphones, max 12mW ERP
- 1785 - 1805 MHz, Radio microphones, max 20 mW e.i.r.p. or
  max 50 mW e.i.r.p. for body-worn

Individual assignment / individual license required /

- 174 - 230 MHz, Radio microphones, > 50mW ERP
- 470 - 786 MHz, Radio microphones, > 50mW ERP

Link for the temporary frequency request:
https://www.mimit.gov.it/en/media-tools/documents/temporary-frequencies-use

https://www.mise.gov.it/images/stories/moduli/frequenze/GUIDELINES-FOR-TEMPORARY_FREQUENCIES%20USE%2026_5_2017.pdf

One can find specific form on the following link:
http://www.sviluppoeconomico.gov.it/images/stories/documenti/richiesta%20autorizzazione%20temporanea%20GB.pdf

Fees for a license

General Authorizations to use devices operating on unlicensed frequencies for less than one year
euro 50,00 for 1 to 5 wireless microphones SRD with e.r.p. up to 50mW (see point 4.2 letter. b)
euro 70,00 for 6 to 10 wireless microphones SRD with e.r.p. up to 50mW (see point 4.2 letter. b)
euro 140,00 for 11 to 15 wireless microphones SRD with e.r.p. up to 50mW (see point 4.2 letter. b)
euro 200,00 for 16 to 100 wireless microphones SRD with e.r.p. up to 50mW (see point 4.2 letter b)

Bank transfer to "Tesoreria Provinciale dello Stato di Viterbo" code BIC / SWIFT: BPPIITRRXXX
IBAN code: IT08 C076 0103 2000 00011026010, indicating in payment description the identification number (ID) assigned to the application.

https://www.mise.gov.it/images/stories/moduli/frequenze/GUIDELINES-FOR-TEMPORARY_FREQUENCIES%20USE%2026_5_2017.pdf
Mail contact address of Italian administration: frq.temp@mise.gov.it

Note: information as of June 2025

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For the newest version, look apwpt.org

Japan

- Frequency Assignment Plan (as of April 2025)

License exempt frequencies / no individual license required

- 74.58 - 74.76 MHz, Radio Microphones (Unlicensed low-power), Transmitting power max. 10mW
- 322.025 - 322.150, 322.250 - 322.400 MHz, Radio Microphones (Unlicensed low-power), Transmitting power max. 1mW
- 806.125 - 809.750 MHz, Radio Microphones (Unlicensed low-power), Transmitting power max. 10mW
- 1893.5 - 1906.1 MHz, DECT equipment
- 2400 - 2483.5 MHz, ISM band

Individual assignment / individual licence required

- 470 - 710 MHz, Radio microphones, Transmitting power for analogue system max. 10mW / digital system max. 50mW
- 710 - 714 MHz, Radio microphones, Transmitting power for analogue system max. 10mW / digital system max. 50mW
- 1240 - 1260 MHz, Radio microphones, Transmitting power for analogue system max. 50mW / digital system max. 50mW

Fees

Spectrum user fees per year for individual licensees, Revised in October 1, 2019

- 470 - 710 MHz, Radio microphones, Fee of 400 YEN per transmitter
- 710 - 714 MHz, Radio microphones, Fee of 400 YEN per transmitter
- 470 - 710 MHz and 710-714MHz Radio microphone, Fee of 900 YEN per transmitter
- 1240 - 1260 MHz, Radio microphones, Fee of 900 YEN per transmitter

  Please find further information by this link:
  https://www.tele.soumu.go.jp/e/fees/index.htm

Further information

- Contact addresses of the responsible Local Telecommunication Offices:
  https://www.tele.soumu.go.jp/e/index.htm
- Downloadable application form:
  https://www.tele.soumu.go.jp/e/index.htm
- Frequency assignment Plan
  https://www.tele.soumu.go.jp/e/adm/freq/search/index.htm

Note: information as of June 2025

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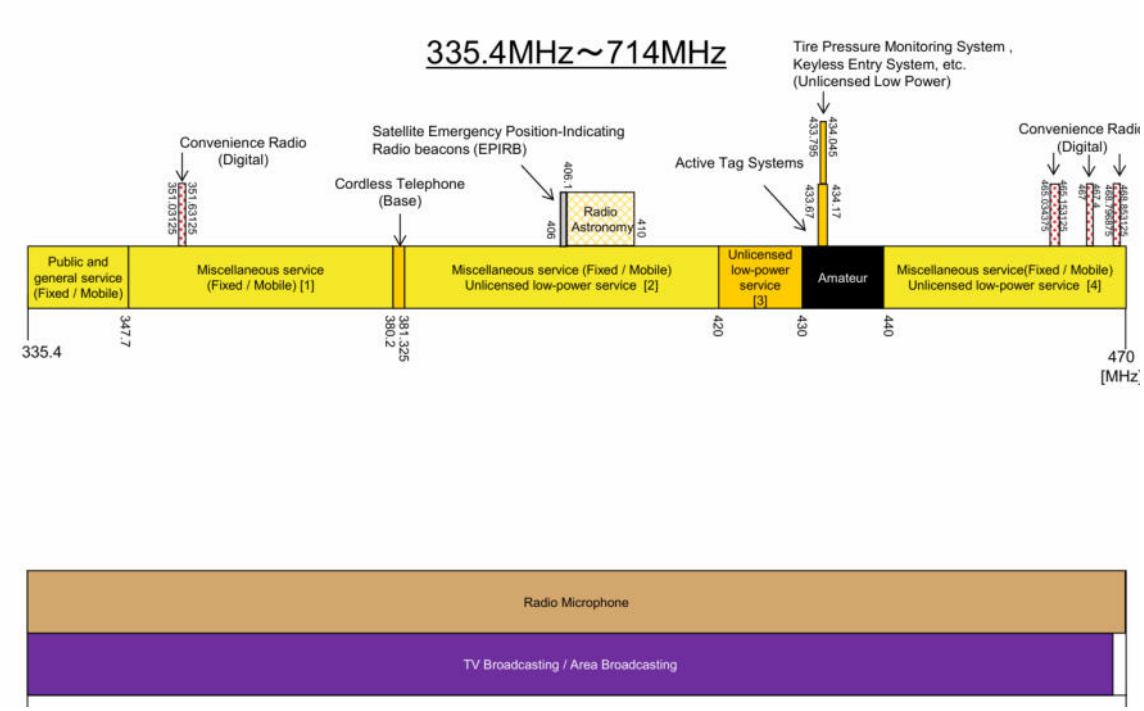

Note: information as of June 2025

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Latvia

According to rules of the Cabinet of Ministers of the Republic of Latvia No. 1151 (interface RS PMSE.01 and table 8.10 and 8.14.2) the following frequency bands can be used for radio microphones:

License exempt frequencies / no license required

- 863 - 865 MHz, max. 10 mW e.r.p.
- 1785 - 1804.8 MHz, max. 50 mW e.i.r.p. for body-worn wireless microphones
  otherwise max. 20 mW e.i.r.p.
- 2400 - 2483.5 MHz, max. 10 mW e.i.r.p.
- 5725 - 5875 MHz, max. 25 mW e.i.r.p.

Individual assignment / Licence required

- 174 - 216 MHz, max. 50 mW e.r.p.
- 470 - 694 MHz, max. 50 mW e.r.p.
- 821.5 - 826 MHz, max. 100 mW e.i.r.p. for body-worn wireless microphones
  otherwise max. 20 mW e.i.r.p.
- 826 - 832 MHz, max. 100 mW e.i.r.p.
- 1350-1400 MHz, max. 50 mW e.i.r.p. for body-worn wireless microphones
  otherwise max. 20 mW e.i.r.p.

Fees

In accordance with the Electronic Communications Law Section 50 it is permitted to utilise the radio frequency spectrum for radio equipment operations after the receipt of a radio frequency assignment use permit from the State stock company "Electronic Communications Office" or in accordance with a common radio frequency assignment use permit according to the procedures stipulated by the Cabinet.

Fees are imposed for each permit request consideration and in addition depend from the duration of the use according to rules of the Cabinet of Ministers of the Republic of Latvia No. 600:

1. Consideration of a request for short-time use of radio frequency spectrum
   - EUR 38.53 (single-payment);
2. Providing of EMC for low-power radio equipment on secondary service bases
   - EUR 9.17 per month or proportion to the duration of the use.

Further information

Requests for an individual license (frequency assignment usage permit) should be submitted to:

Electronic Communications Office
5 Eksporta Street,
Riga, LV-1010
Latvia
esakari@esakari.lv

+37167333157

Note: information as of 25.07.2025

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Lithuania

▪ 174 – 216 MHz, 50 mW erp, * registration required;

▪ 470 – 703 MHz, 50 mW erp, *registration required;

▪ 733 – 757,5 MHz, 20 mW eirp or 100 mW eirp (body worn), * registration required;

▪ 821,5 – 832 MHz, used under 2006/771/EC;

▪ 863 – 865 MHz, used under 2006/771/EC

▪ 1785 – 1805 MHz, used under 2006/771/EC.

Audio PMSE spectrum is made available on a general licence basis, registration in the regulator's database is required for the indicated "*" frequency bands. Regulator is RRT (Communications Regulatory Authority for the Republic of Lithuania).

Authority: https://www.rrt.lt/en/

30 MHz, 1200 MHz and 1500 MHz bands are no longer used for audio PMSE.

Note: information as of July 2025

Luxembourg

We recommend to use the band 470 - 694 MHz in Luxembourg!

License exempt frequencies / no license required

- 29.7 - 47 MHz, Technical conditions max. 10 mW e.r.p., Radio Interface: https://assets.ilr.lu/frequences/Documents/ILRLU-1723895916-182.pdf#SRD-A10_01 *Wireless microphones operating on a tuning basis, excluding the 34.995-35.225 MHz frequency band*.

- 174 - 216 MHz, Technical conditions max. 50 mW e.r.p. , Radio interface: https://assets.ilr.lu/frequences/Documents/ILRLU-1723895916-182.pdf#SRD-A10_04

- 470 - 694 MHz, Technical conditions max 50 mW e.r.p, Radio Interface: https://assets.ilr.lu/frequences/Documents/ILRLU-1723895916-182.pdf#SRD-A10_05 (Interface 470-786 MHz but the band 694-790 MHz no longer applicable for PMSE)

- 823 - 826 MHz, Technical conditions 20 mW e.i.r.p or 100 mW restricted to body worn microphones see technical conditions for PMSE (including radio microphones) in Annex 3 of Decision ECC/DEC/(09)03 section 3.1, Radio interface: https://assets.ilr.lu/frequences/Documents/ILRLU-1723895916-182.pdf#SRD-A10_12

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- 826 - 832 MHz, Technical conditions max 100 mW e.i.r.p , Radio Interface: https://assets.ilr.lu/frequences/Documents/ILRLU-1723895916-182.pdf#SRD-A10_13
- 863 - 865 MHz, Technical conditions max 10 mW e.r.p , Radio Interface: https://assets.ilr.lu/frequences/Documents/ILRLU-1723895916-182.pdf#SRD-A10_03
- 1492 - 1518 MHz, Technical conditions max 50 mW e.i.r.p, Radio Interface: https://assets.ilr.lu/frequences/Documents/ILRLU-1723895916-182.pdf#SRD-A10_14

  "The frequency band 1 492-1 518 MHz, which is currently authorized for wireless microphones, will be analyzed in the near future at the European level for possible harmonization for IMT systems. As a result, it is likely that the band will no longer be available in the medium term for wireless microphone applications."
- 1785 - 1795 MHz, Technical conditions max 20 mW e.i.r.p or 50 mW e.i.r.p. restricted to body worn microphones, Radio Interface: https://assets.ilr.lu/frequences/Documents/ILRLU-1723895916-182.pdf#SRD-A10_06
- 1795 - 1800 MHz, Technical conditions max 20 mW e.i.r.p or 50 mW e.i.r.p. restricted to body worn microphones, Radio Interface: https://assets.ilr.lu/frequences/Documents/ILRLU-1723895916-182.pdf#SRD-A10_07
- 1800 - 1804.8 MHz, Technical conditions max 20 mW e.i.r.p or 50 mW e.i.r.p. restricted to body worn microphones, Radio Interface: https://assets.ilr.lu/frequences/Documents/ILRLU-1723895916-182.pdf#SRD-A10_15
- 1880 - 1900 MHz, DECT equipment only

*Note: Applications are authorized subject to the conditions as contained in the Radio Interfaces

Fees

No fees for the provision of radio frequencies are due.

Further information

- National Frequency Allocation Table (May 26. 2025):

Publication du plan d'allotissement et d'attribution des ondes radioélectriques (**Plan des fréquences**) dans sa version du 26 mai 2025, mis en application par le **règlement ILR/F25/2** du 26 mai 2025.

https://www.ilr.lu/actualite/nouvelle-version-du-plan-des-frequences/?mtm_source=newsletter&mtm_medium=email&mtm_campaign=notification_frequences-radioelectriques_27052025_31085

Institut Luxembourgeois de Regulation (ILR): https://www.ilr.lu/

17, rue du Fossé, L-1536 Luxembourg, Tél.: (+352) 28 228 228

Languages: French, German, English, Luxembourgish.

Note: information as of June 2025

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Malta

License exempt frequencies / no licence required (refer to SL399.40)

- 29.7 - 34.9 MHz, 30 mW ERP
- 37.5 - 40.98 MHz, 30 mW ERP
- 470 - 526 MHz, 50 mW ERP (currently under review)
- 534 - 550 MHz, 50 mW ERP (currently under review)
- 558 - 566 MHz, 50 mW ERP (currently under review)
- 574 - 582 MHz, 50 mW ERP (currently under review)
- 590 - 606 MHz, 50 mW ERP (currently under review)
- 614 - 646 MHz, 50 mW ERP (currently under review)
- 654 - 662 MHz, 50 mW ERP (currently under review)
- 670 - 694 MHz, 50 mW ERP (currently under review)
- 694 - 750 MHz, 50 mW ERP (currently under review), permitted until 31 December 2020
- 758 - 766 MHz, 50 mW ERP (currently under review), permitted until 31 December 2020
- 774 - 782 MHz, 50 mW ERP (currently under review), permitted until 31 December 2020
- 823 - 826 MHz, 20mW e.i.r.p. for hand-held wireless devices and 100 mW e.i.r.p. for body-worn wireless devices
- 826 - 832 MHz, 100 mW e.i.r.p.
- 863 - 865 MHz, 10 mW ERP
- 1785 - 1805 MHz, 20 mW e.i.r.p. for hand-held wireless devices and 50 mW e.i.r.p. for body-worn wireless devices
- 1880 - 1900 MHz, 250 mW e.i.r.p. using DECT technology only

Individual assignment / Licence required

- 174 - 223 MHz, 50 mW ERP

Fees

- The annual licence fee for the grant of individual licenses is €23.20 per transmitter. The fee for the grant of temporary licenses is calculated on a pro-rata basis.

Further information

- Contact address of the responsible Local Telecommunication Office:
  Malta Communications Authority
  Valletta Waterfront, Pinto Wharf, Floriana FRN 1913, Malta
  https://www.mca.org.mt / info@mca.org.mt

- Downloadable application form (for individual licences only):
  https://www.mca.org.mt/downloadable-eforms - Refer to Form no. MCA/F/11-0579

- SL399.40 – General Authorisation (Radiocommunications Apparatus) Regulation:
  http://www.justiceservices.gov.mt/DownloadDocument.aspx?app=lom&itemid=11475&l=1

Note: information as of March 2020

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Marocco

Wireless microphones are governed by Short Range Device regulations and do not require a license.

Attached are the regulations (in French) — Annex 10 (at the end of this PDF).

Note: information as of October 2026

Monaco

Coordination agreements between ANFR and Monaco are listed here:

https://www.anfr.fr/planifier/coordination-aux-frontieres/accords-par-pays/monaco

This one regards the 470-694 MHz band and is multilateral:

https://www.anfr.fr/fileadmin/mediatheque/documents/coordination/Accords_par_pays/Agreement_SCV_France_Italy_and_Monaco_for_frequency_co-ordination_of_Dig....pdf

For what it's worth, the relevant administration on the Principality of Monaco makes available online the forms relative to requesting authorization for a temporary radio-electric network:

https://monentreprise.gouv.mc/thematiques/activites-sectorielles-ou-reglementees/autorisations-ponctuelles/communications-et-media/demander-une-autorisation-pour-un-reseau-radioelectrique-temporaire

Note: information as of January 2024

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The Netherlands

No individual license required / License exempt frequencies

Regulations for license free use of frequencies (*see below), subcategory 8 refers to radio transmission equipment intended for low power wireless audio connections (PMSE). The use of free frequencies (no approval needed) is permitted among others in these tuning ranges:

- 36,6 - 36,8 MHz, ≤ ERP 10 mW, 200 kHz
- 37,0 - 37,2 MHz, ≤ ERP 10 mW, 200 kHz
- 37,8 - 38,0 MHz, ≤ ERP 10 mW, 200 kHz
- 38,2 - 38,4 MHz, ≤ ERP 10 mW, 200 kHz
- 38,6 - 38,8 MHz, ≤ ERP 10 mW, 200 kHz

- 37,480 - 37,6 MHz, ≤ ERP 10 mW, 50 kHz

- 87,5 - 108 MHz, ≤ ERP 50 nanoW, 200 kHz

- 195 - 202 MHz, ≤ ERP 50 mW, 200 kHz

- 470 - 556 MHz, ≤ ERP 50mW
- 558 - 564 MHz, ≤ ERP 50mW
- 566 - 572 MHz, ≤ ERP 50mW
- 574 - 580 MHz, ≤ ERP 50mW
- 582 - 588 MHz, ≤ ERP 50mW
- 590 - 596 MHz, ≤ ERP 50mW
- 598 - 604 MHz, ≤ ERP 50mW
- 614 - 694 MHz, ≤ ERP 50mW

- 736 - 753 MHz, ≤ ERP 50mW

- 823 - 826 MHz, hand-held ≤ e.i.r.p. 20 mW, body-worn ≤ e.i.r.p. 100 mW

- 826 - 832 MHz, ≤ e.i.r.p 100 mW

- 863 - 865 MHz, ≤ ERP 10mW

- 1785 - 1805 MHz, portable ≤ e.i.r.p. 20 mW, body-worn ≤ e.i.r.p. 50mW

Individual license required

- 608 - 614 MHz, coordination with RAS and only in case of demonstrable frequency shortage related to the event in question.
- 1350 - 1400 MHz, ≤ ERP 50 mW, 200 kHz
- 1518 - 1525 MHz, ≤ ERP 50 mW, 200 kHz, only indoor

(*) Regeling gebruik van frequentieruimte zonder vergunning en zonder meldingsplicht 2015 (Dutch)
http://wetten.overheid.nl/BWBR0036378/2016-12-28

Further Information

Nationaal Frequentieplan 2014:
http://wetten.overheid.nl/BWBR0035791/2017-02-01 (Dutch)
Programme Making and Special Events (Dutch)

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For the newest version, look apwpt.org

https://www.agentschaptelecom.nl/onderwerpen/microfoons---draadloos-gebruik-en-frequenties

Application-form-events:
https://www.agentschaptelecom.nl/documenten/formulieren/2017/april/4/application-form-for-the-use-of-frequencies-during-events-in-the-netherlands (English)

Frequencytool for wireless microphones in the band 470-694 MHz:

https://www.microfoonbanden.nl/

Note: information as of July 2021, checked Nov. 2022

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For the newest version, look apwpt.org

Norway

No individual license required / License exempt frequencies

In the Norwegian frequency plan some frequency bands have been allocated to be used for low power audio devices. In these bands the frequencies can be used without a license (license exemption).

41 - 43.6 MHz, 10 mW e.r.p.	Wireless microphones
494- 694 MHz, 50 mW e.r.p.	Wireless microphones can be used in white spaces only. Vacant frequencies are given by an online tool (link below).
823 - 826 MHz, 20 mW e.i.r.p.	Wireless microphones
823 - 826 MHz, 100 mW e.i.r.p.	Body worn microphones
826 - 832 MHz, 100 mW e.i.r.p.	Wireless microphones
863 - 865 MHz, 10 mW e.r.p.	Wireless microphones

1785 - 1805 MHz allowed used for handheld microphones with maximum permitted e.i.r.p. spectral density limitations:

Frequency Range	***Max permitted e.i.r.p. spectral density***
<1785 MHz	–17 dBm/200 kHz
1785–1785,2 MHz	4 dBm/200 kHz
1785,2–1803,6 MHz	13 dBm/channel
1803,6–1804,8 MHz	10 dBm/200kHz, with a limit of 13 dBm/channel
1804,8–1805 MHz	–14 dBm/200 kHz
>1805 MHz	–37 dBm/200 kHz

1785–1805 MHz allowed used for body worn microphones and wireless microphones with Spectrum Scanning Procedure (SSP) implemented in the 1785-1804.5 MHz band, and with maximum permitted e.i.r.p. spectral density limitations:

Frequency Range	***Max permitted e.i.r.p. spectral density***
<1785 MHz	–17 dBm/200 kHz
1785–1804,8 MHz	17 dBm/channel
1804,8–1805 MHz	0 dBm/200 kHz
>1805 MHz	–23 dBm/200 kHz

Online tool that shows vacant white space frequencies for wireless microphones:
https://finnsenderen.no/#/ledige?type=mikrofon
Assistive listening devices: https://finnsenderen.no/#/ledige?type=ald

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Video PMSE: https://www.nkom.no/english/frequency-licences#temporary_frequency_use_for_events_and_research_campaigns

Individual license required

Information regarding individual licenses and how to apply
https://www.nkom.no/english/frequency-licences#temporary_frequency_use_for_events_and_research_campaigns

Note: information as of August 2021

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New Zealand

No individual license required / License exempt frequencies

Wireless audio devices are permitted to operate in New Zealand between the frequencies of 510 MHz and 606 MHz and between 622 MHz and 698 MHz, under class licence provisions which limit maximum e.i.r.p. to 250 mW and can operate on blocks used by DTV on the "no interference – no protection" basis.

At the time of writing no DTV channels are planned to operate between 622 MHz and 698 MHz from March 11th, 2015, however the lower block between 526 MHz to 606 MHz is used for DTV throughout most of the country. TV Channels in New Zealand are 8 MHz wide, and in some places frequencies of operation start at 510 MHz.

Operation under the General User Licence is as a secondary service, sharing with DTV transmission, on the basis that you do not operate on the same frequency as a DTV service licenced in the location, and that you operate on a "no interference - no protection" basis.

From 11 March 2015, radio microphones (and other wireless audio devices such as in-earpieces) are no longer permitted to operate in the 698-806 MHz frequency range (the 700 MHz band).

Note 1: 502 MHz to 510 MHz may also be used with the maximum power limit of -10 dBW e.i.r.p. which is equivalent to around 100 mW.

Operation under the class licence means there is no need to apply for a licence to operate equipment that complies, and there are no fees or charges applicable.

Further Information

Further information can be found here:

- UHF radio microphone devices
  https://www.rsm.govt.nz/licensing/types-of-licences/general-user-spectrum-licence/uhf-radio-microphone-devices
- Change to radio microphone operating frequencies
  https://www.rsm.govt.nz/cms/policy-and-planning/projects/radio-microphone-changes
- Radio Spectrum Management website
  https://www.rsm.govt.nz/
- Wireless Users New Zealand
  http://www.wunz.co.nz

Note: information as of March 2017

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Poland

PMSE equipment within Poland is mainly used in the following bands:
▪ 29.7 – 47MHz (audio PMSE);
▪ 174 – 216MHz (audio PMSE); and
▪ 470 – 694MHz (audio PMSE, with channels for PMSE equipment are chosen individually so as to avoid potential interference to and from DTT).
Generally, audio PMSE applications are licence exempt.

Note: information as of Nov. 2022

Portugal

No individual license required / License exempt frequencies

- 174 – 223 MHz, Radio microphones and in-ear monitor systems, ≤ 50 mW e.r.p.
- 470 – 694 MHz, Radio microphones and in-ear monitor systems, ≤ 50 mW e.r.p.
- 823 – 826 MHz, Radio microphones, ≤ 20 mW e.i.r.p.
- 823 - 832 MHz, Radio microphones (body- worn audio PMSE equipment), ≤ 100 mW e.i.r.p.
- 863 - 865 MHz, Radio microphones, ≤ 10 mW e.r.p.
- 1785 – 1795 MHz, Radio microphones, ≤ 20 mW e.i.r.p.
- 1785 – 1795 MHz, Radio microphones (body- worn audio PMSE equipment), ≤ 50 mW e.i.r.p.
- 1795 – 1800 MHz, Radio microphones, ≤ 20 mW e.i.r.p.
- 1795 – 1800 MHz, Radio microphones (body- worn audio PMSE equipment), ≤ 50 mW e.i.r.p.
- 1800 – 1804.8 MHz, Radio microphones, ≤ 20 mW e.i.r.p.
- 1800 – 1804.8 MHz, Radio microphones (body- worn audio PMSE equipment), ≤ 50 mW e.i.r.p.
- 1880 - 1900 MHz, DECT equipment up to 250 mW e.i.r.p

Individual assignment / License required

- 174 - 223 MHz, if ERP > 50 mW
- 470 - 694 MHz, if ERP > 50 mW, In-ear monitor systems and Radio microphones

For other cases that are not covered by the licence exemption regime, or by the specific cases referred above, a radio licence shall be requested.

Additional information available at
https://www.anacom.pt/render.jsp?contentId=1364270&languageId=1

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How to get a short- or long-term license?

Any request for license should be addressed to ANACOM using our virtual desk, available at: https://www.anacom.pt/bvirtual/bvru/index.do?do=/acesso_direto.do&languageId=1

Fees for a short-term license

For temporary licences, the value of the usage fees to be collected is reached by using the following formula: Applicable annual fee x (no. of days of licence validity / 360 days). For occasional audio links, the applicable annual fee is as follows:

SAP/SAB -Annual fee	
Audio links (per frequency)	€ 2 250,00

We would also like to point out that minimum and urgency (when applicable) fees will be applied. See below:

- Minimum Fee: The value of 50 euros is the minimum value of spectrum fee applicable to stations or networks of each Radiocommunications Service/Application to be used for temporary events.
- Urgency Fee: If the application for temporary licensing is not submitted to ANACOM up to ten days prior to the date on which it is proposed the radio licence should come into force, the applicable fee will be increased by 50% of its value, with a minimum of 75 euros.

Link to Table of Frequency Allocation (eQNAF), which is electronic format (Source of implementation)

PT: https://www.anacom.pt/render.jsp?categoryId=348130

EN: https://www.anacom.pt/render.jsp?categoryId=343582&languageId=1

More information is at: Station license exemptions

Note: information as of July 2021

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For the newest version, look apwpt.org

Romania

No individual license required / License exempt frequencies

In the Romanian frequency plan some frequency bands have been allocated to be used for wireless microphones. In all those bands the frequencies can be used without a license (license exemption).

Short Range Devises / Radio microphones

- 29.7 - 30.3 MHz, 10 mW ERP, 50 kHz - on a tuning range basis
- 30.5 - 32.15 MHz, 10 mW ERP, 50 kHz - on a tuning range basis
- 32.45 - 33.1 MHz, 10 mW ERP, 50 kHz - on a tuning range basis
- 33.6 - 34.975 MHz, 10 mW ERP, 50 kHz - on a tuning range basis
- 37.5 - 40.02 MHz, 10 mW ERP, 50 kHz - on a tuning range basis
- 40.66 - 41.015 MHz, 10 mW ERP, 50 kHz - on a tuning range basis
- 44.5 - 45.2 MHz, 10 mW ERP, 50 kHz - on a tuning range basis
- 174 - 216 MHz, 50 mW ERP - 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 (ANCOM)
- 470 - 574 MHz, 582 – 694, 50 mW ERP - 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

  In the frequency band 470-694 MHz, the use of the 574-582 MHz frequency band is performed under licensing authorisation regime. Therefore, the technical specification for RO-IR MICRO 04 radio interface (former RO-IR 10-04) shall include only the frequency bands 470–574 MHz and 582–694 MHz.
- 823 - 826
- 1785 – 1804.8 MHz, 20 mW EIRP (50 mW EIRP restricted to body worn equipment)

Wireless audio / multimedia applications

- 87.5 - 108 MHz, 50 nW ERP, 200 kHz - when audio signals are not present, apparatus must employ a transmission time out of facility. Pilot tones that ensure continuity of transmission are not permitted
- 863 - 865 MHz, 10 mW ERP
- 864.8 - 865 MHz, 10 mW ERP
- 1795 - 1800 MHz, 20 mW EIRP

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 designated 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 the interdiction 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.

Temporary Spectrum Licences and Fees

See: http://www.ancom.org.ro/en/temporary-spectrum-licences_4689

http://www.ancom.org.ro/reglementari-interfete_2723

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For the newest version, look apwpt.org

To get an idea of the amount of these tariffs, for example, for a frequency in Bucharest, for up to 30 days, the price shall not exceed 50 euros.

Further information

Contact addresses of the four responsible Local Telecommunication Offices:
http://www.ancom.org.ro/en/harta-locatii
Note: see on the map the addresses for the Bucharest, Iasi, Timisoara and Cluj Regional Headquarters

Downloadable application form on the website of add ANCOMs web space:
http://www.ancom.org.ro/en/temporary-spectrum-licences_4689

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

Further information can be found here - Romanian Regulation:

http://www.ancom.org.ro/en/romanian-regulation_2719

Note: information as of July 2021

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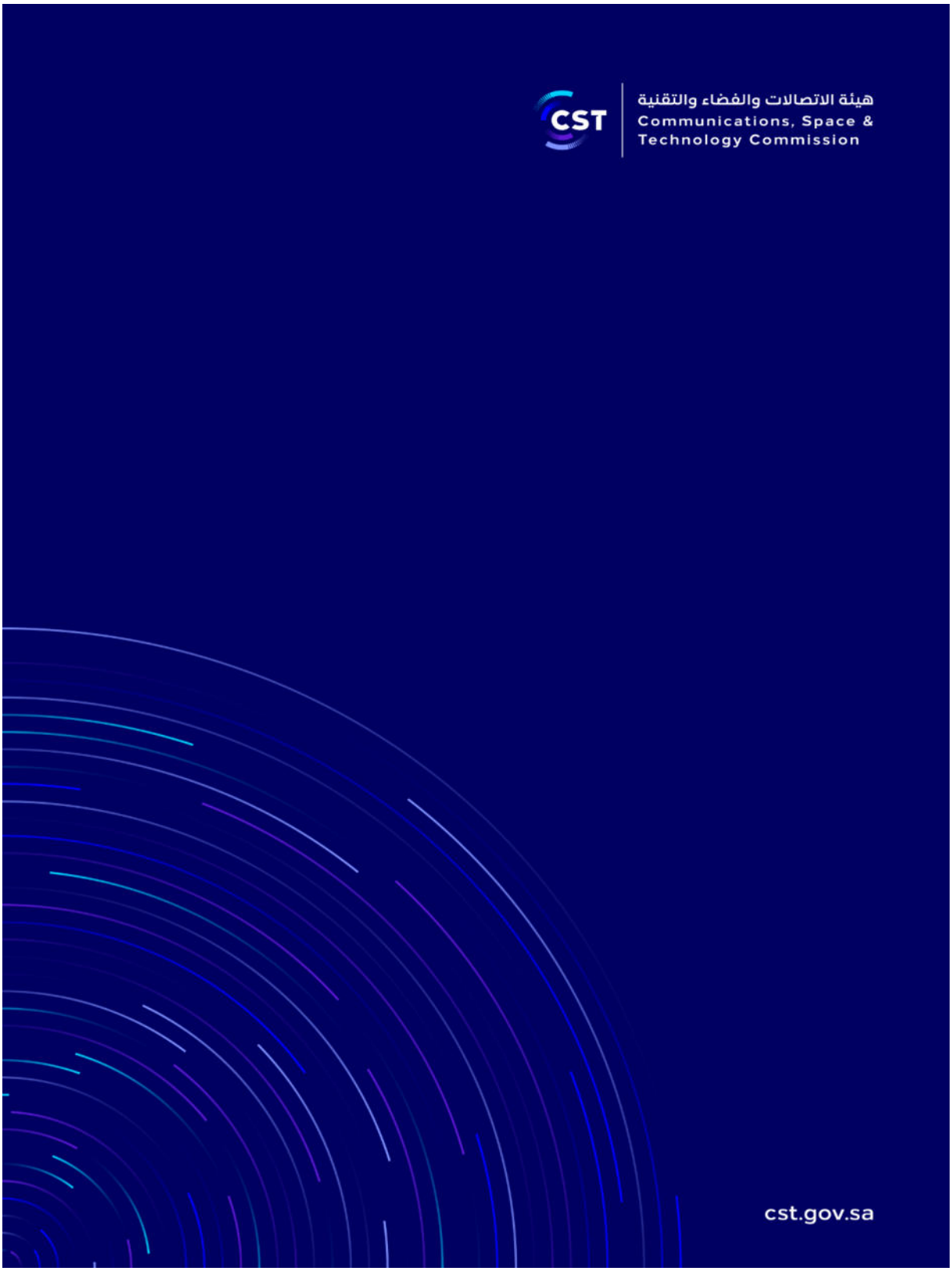
Saudi Arabia

https://www.cst.gov.sa/ar/services/spectrum/Documents/NationalFrequencyPlanEN.pdf



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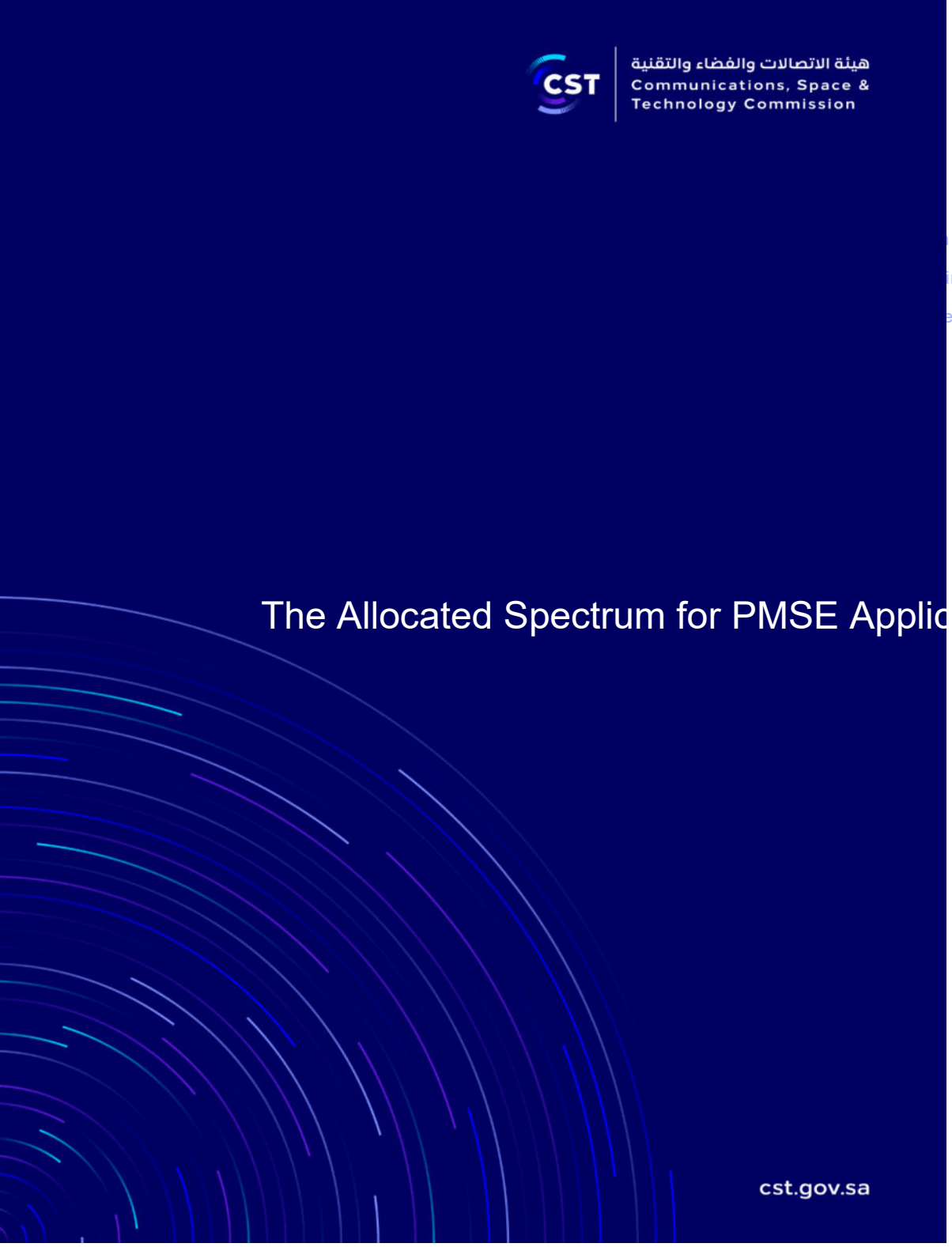

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Introduction

The Communication, Space & Technology Commission (CST) harbors ambitious plans to enhance the utilization of Programme Making and Special Events (PMSE) equipment across the Kingdom, recognizing the significant value these applications contribute to our nation's capacity for hosting and producing premier events and programs.

Currently, we are in the advanced stages of developing a comprehensive regulatory framework specifically tailored to govern PMSE applications. This framework is designed to cover a wide range of critical aspects, including but not limited to licensing requirements, fee structures, stakeholders' rights and responsibilities, relevant technical standards, and enforcement protocols.

The document we present herein primarily focuses on the spectrum allocation for PMSE, pinpointing the frequencies that will necessitate licensing.

It's important to note that while this document zeroes in on spectrum allocation for PMSE, it forms a part of the broader regulatory framework being developed to comprehensively oversee PMSE applications. Our aim through this document is to guarantee that the proposed frequency bands and maximum output power limits are optimally aligned with the operational needs of PMSE applications.

In the subsequent section, we will introduce the initial proposals for frequency bands allocated for PMSE use, which are intended to be incorporated into the comprehensive PMSE regulatory framework. These proposals will be governed by detailed terms and conditions, which are outlined below. The designated bands are aimed to accommodate a variety of PMSE equipment, including, but not limited to, radio microphones, video and audio links, in-ear monitors, talkback systems, and Private Mobile Radio (PMR).

Proposed Frequency Bands Allocated for PMSE

2.1 Radiomicrophones Frequency Band

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Frequency Band	Channel Bandwidth	Maximum Power	Note
174 - 223	200 KHz	50 mW ERP	CST will undertake a study to make a total of 4 MHz of spectrum available for radiomicrophones to be used on a temporary basis, based on the identified location.
470 - 614	200 KHz	50 mW ERP	CST will study to allocate a total of 1 MHz of spectrum available for the use of radiomicrophones on an annual basis, with the flexibility to use in multiple locations. The remainder part of the band will be available for temporary use, on the identified locations.
733 - 738	200 KHz	50 mW ERP	
823 – 832	200 KHz	20 mW ERP	Licensing on an annual basis with the flexibility to use in multiple locations.
863 - 865	200 KHz	10 mW ERP	
1785 - 1805	200 KHz	20 mW ERP	Licensing on an annual basis with the flexibility to use in multiple locations.

2.2 Audio Links Frequency Band

Frequency Band	Channel Bandwidth	Maximum Power	Note
47 - 68	100 KHz	5 W ERP	CST will study to make a total of 1 MHz of spectrum available for fixed links (point-to-point) to be used on annual or temporary basis.
174 - 223	200 KHz	5 W ERP	CST will study to make a total of 0.6 MHz of spectrum available for audio links to be used on temporary basis.
400 - 470	50 KHz	25 W ERP	Used on temporary basis
470 – 614	200 KHz	5 W ERP	Used on temporary basis

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2.3 Talkback

Frequency Band	Channel Bandwidth	Maximum Power	Note
29.7 - 47	12.5 KHz	5 W ERP	
47 - 49	12.5 KHz	25 W ERP	Use on a temporary basis, based on the identified location, using duplex with 57 – 59 MHz
57 - 59	12.5 KHz	25 W ERP	Use on a temporary and portable basis, duplex with 47 – 49 MHz.
150 - 174	12.5 KHz	10 W ERP	Use on a temporary basis, based on the identified location.
450 - 451	12.5 KHz	5 W ERP	Use on a temporary basis, based on the identified location, using duplex with 460 – 461 MHz
460 – 461	12.5 KHz	1 W ERP	Use on a temporary and portable basis, duplex with 450 – 451 MHz.
470 - 614	12.5 KHz	5 W ERP	For indoor uses on an annual basis.

2.4 Wireless Cameras and Video Links

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Frequency Band	Channel Bandwidth	Maximum Power	Note
1980 - 2025	10 MHz	1 W ERP	Limited availability, use on a temporary basis, based on the identified location.
2200 - 2300	10 MHz	1 W ERP	Limited availability, use on a temporary basis, based on the identified location.
2400 - 2500	20 MHz	1 W ERP	Limited availability, use on a temporary basis, based on the identified location.
7000 - 8500	10 MHz	40 dBW ERP	Use on a temporary basis, based on the identified location.
10000 – 10680	20 MHz	40 dBW ERP	Use on a temporary basis, based on the identified location.
47200 - 50200	10 MHz	30 dBW ERP	Use on a temporary basis, based on the identified location.

2.5 Telemetry and Telecommand Links

Frequency Band	Channel Bandwidth	Maximum Power	Note
174 - 223	12.5 KHz	5 W	Use on a temporary basis, based on the identified location.
470 - 614	12.5 KHz	5 W	Use on a temporary basis, based on the identified location.

2.6 Private Mobile Radio

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Frequency Band	Channel Bandwidth	Maximum Power	Note
136 - 174	12.5 KHz	5 W	Use on a temporary basis, based on the identified location.
400 - 470	12.5 KHz	5 W	Use on a temporary basis, based on the identified location.

Note: information as of 2024

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Serbia

Pursuant to Article 83, paragraph 4 of the Law on Electronic Communications ("Official Gazette of RS", No. 44/10, 60/13 - US, 62/14 and 95/18) and Article 42, paragraph 1. Law on Government (“Official Gazette of RS”, No. 55/05, 71/05 - correction, 101/07, 65/08, 16/11, 68/12 - US, 72/12, 7 / 14 - US, 44/14 and 30/18 - other law), the Government adopts (25 June 2020):

To find information in the National Allocation Plan (not available in English), search “ радио-микрофони “ (= radio microphones).

In the Table (https://t1p.de/oo2z), last column is a manner of granting individual licences. Almost in all bands for radio microphones you could find the acronym OO - Use of Radio-frequencies on the Basis of General Authorization. And one exception ПЗ - Use of Radio frequency on the basis of an individual licence issuance procedure, upon request.

29.7-47.0 MHz

173.965-216 MHz

216–223 MHz (with DAB+)

470-789 MHz

823–832 MHz

863–865 MHz

1350–1400 MHz

1492–1518 MHz

1785–1804.8 MHz

Source:

https://t1p.de/oo2z

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https://www.ratel.rs/uploads/documents/empire_plugin/%D0%9F%D0%BB%D0%B0%D0%BD%20%D0%BD%D0%B0%D0%BC%D0%B5%D0%BD%D0%B5%20%D1%80%D0%B0%D0%B4%D0%B8%D0%BE-%D1%84%D1%80%D0%B5%D0%BA%D0%B2%D0%B5%D0%BD%D1%86%D0%B8%D1%98%D1%81%D0%BA%D0%B8%D1%85%20%D0%BE%D0%BF%D1%81%D0%B5%D0%B3%D0%B0.pdf

Note: information as of July 2021

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For the newest version, look apwpt.org

Slovak Republic

Frequency bands for the use by audio programme making and special events (PMSE) devices in the Slovak Republic

Frequency band	Maximum ERP *(EIRP)*	Usage restrictions / Applications	Deliverable / Harmonisation measure	Licensing regime	Notes
29.7-47 MHz	10 mW	Limited to radio microphones and In-ear monito	ERC/REC 70-03	General authorisation No. VPR-04/2022.	
87.5-108 MHz	50 nW	Limited to audio transmitters with FM modulation.	CID (EU) 2025/105; ERC/REC 70-03	General authorisation No. VPR-04/2022.	
174-216 MHz	50 mW	Audio PMSE devices (radio microphones, In-ear monitors and audio links).	ERC/REC 70-03	General authorisation No. VPR-04/2022.	
174-216 MHz	> 50 mW	Audio PMSE devices (radio microphones, In-ear monitors and audio links).	ERC/REC 70-03	Individual licensing.	
470-694 MHz	50 mW	Audio PMSE devices (radio microphones, In-ear monitors and audio links).	ERC/REC 70-03	General authorisation No. VPR-04/2022.	
470-694 MHz	> 50 mW	Audio PMSE devices (radio microphones, In-ear monitors and audio links).	ERC/REC 70-03	Individual licensing.	
823-826 MHz	*20 mW* *100 mW**	Limited to radio microphones and In-ear monito	CID (EU) 2025/105; ERC/REC 70-03	General authorisation No. VPR-04/2022.	*100 mW restricted to body worn devices.
826-832 MHz	*100 mW*	Limited to radio microphones and In-ear monito	CID (EU) 2025/105; ERC/REC 70-03	General authorisation No. VPR-04/2022.	
863-865 MHz	10 mW	Audio PMSE devices (radio microphones, In-ear monitors and audio links) and personal cordless audio devices.	CID (EU) 2025/105; ERC/REC 70-03	General authorisation No. VPR-04/2022.	
1785-1805 MHz	*20 mW* *50 mW**	Audio PMSE devices (radio microphones, In-ear monitors and audio links).	CID (EU) 2025/105; ERC/REC 70-03	General authorisation No. VPR-04/2022.	*50 mW restricted to body worn devices or devices implementing Spectrum Scanning Procedure.

Individual licensing approach:

Request for an individual authorisation for the use of frequencies is analysed by Regulatory Authority for Electronic Communications and Postal Services (NRA).

Use of audio PMSE devices is allowed in white spaces only.

Use of audio PMSE devices is allowed on non-interference/non-protection basis.

In case of temporary use of frequencies, application form must be received by the NRA at least 3 days before the event.

Fees:

Individual authorisation holder is obliged to pay monthly fee for the right of use of frequencies.

The fee amount in case of short-term individual authorisation is no less than EUR 3.

The fee amount depends on:

- number of devices,
- ERP of devices.

Period of validity of an individual authorisation:

Maximum period 10 years.

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For the newest version, look apwpt.org

Frequency bands for the use by video programme making and special events (PMSE) devices in the Slovak Republic

Frequency band	Usage restrictions / Applications	Deliverable / Harmonisation measure	Licensing regime	Notes
2010 - 2025 MHz	wireless cameras, portable video-links, mobile video-links	(EU) 2016/339	Individual licensing.	
2300 - 2400 MHz	wireless cameras, portable video-links, mobile video-links	ECC/REC/(15)04, ERC/REC 25-10	Individual licensing.	
2450 - 2500 MHz	wireless cameras, portable video-links, mobile video-links	ECC/REC/(15)04, ERC/REC 25-10	Individual licensing.	
5850 - 5925 MHz	reportage P-P microwave links		Individual licensing.	
7138 - 7195 MHz	wireless cameras, portable video-links, mobile video-links, temporary P-P video-links	ERC/REC 25-10	Individual licensing.	
8550 - 8700 MHz	temporary P-P TV transmissions		Individual licensing.	
10300 - 10500 MHz	wireless cameras, portable video-links, temporary P-P video-links	ERC/REC 25-10	Individual licensing.	

Individual licensing approach:

In case of temporary use of frequencies, application form must be received by the NRA at least 3 days before the event.

Fees:

Individual authorisation holder is obliged to pay monthly fee for the right of use of frequencies.

The fee amount in case of short-term individual authorisation is 6 EUR per frequency.

Period of validity of an individual authorisation:

Maximum period 10 years.

Note: information as of September 2025

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For the newest version, look apwpt.org

Slovenia

No individual license required / Individual license exempt frequencies
(General authorisation according to Art. 31 of our Electronic communication act)

- 29.7 - 47 MHz, Radio microphones 10 mW ERP - bandwidth max. 50 kHz
- 174 - 216 MHz, Radio microphones 50 mW ERP
- 470 - 694 MHz, Radio microphones 50 mW ERP
- 694 - 698 MHz, Radio microphones 20mW ERP

- 736 – 738, 12 mW ERP Radio microphones ERP (?, should be checked)

- 1518 - 1530 MHz, Radio microphones 50 mW e.i.r.p.
- 1785 - 1804.8 MHz, Radio microphones 20 mW e.i.r.p., body worn restricted to 50 mW EIRP
- 1880 - 1900 MHz, DECT equipment up to 250 mW e.i.r.p.

All bands, stated in document have technical limitations written in ERC/REC 70-03, 2014/641/EU - Commission implementing decision of EU on PMSE and radio equipment class 1, in particular subclasses SC86 and SC48 for continuous transmissions.

All above radio equipment is allowed to operate on license - exempt and non-interference basis.

Further information

One can get additional information regarding other usage of radio spectrum in Slovenia at:
https://www.akos-rs.si/en/

National Table of Frequency Allocations - NTFA / NURF-4:
https://www.akos-rs.si/fileadmin/user_upload/NURF-4.4a.NUPB.pdf

Note: information as of November 2022

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For the newest version, look apwpt.org

South Africa

License exempt frequencies / no license required

- 174 - 216 MHz, max 50 mW ERP
- 402 - 406 MHz, max 10 mW ERP
- 470 - 786 MHz, max 50 mW ERP
- 786 - 789 MHz, max 50 mW ERP
- 823 - 832 MHz, max 100 mW ERP
- 863 - 865 MHz, max 10 mW ERP
- 1350 - 1400 MHz, max 20 mW ERP
- 1492 - 1525 MHz, max 50 mW ERP
- 1785 - 1795 MHz, max 20 mW ERP
- 1795 – 1804.9 MHz, max 20 ERP

Further information

INDEPENDENT COMMUNICATIONS AUTHORITY OF SOUTH AFRICA, NOTICE 737 OF 2021

https://www.ellipsis.co.za/radio-frequency-spectrum-regulations-2015/

- Electronic Communications Act: Final Radio Frequency Spectrum Assignment Plan for Frequency Band 470 to 694 MHz
  https://www.gov.za/sites/default/files/gcis_document/202005/43341gen284s.pdf

Note: information as of March 2022

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South Korea

Individual licence required / Mandatory application

- 470 - 698 MHz, max. 50mW ERP – Broadcast
- 470 - 698MHz, max. 30mW ERP – Non-Broadcast market (Authorized sites)

No individual license required / License exempt frequencies

- 72.610 - 73.910MHz, 10mW ERP
- 74.000 - 74.800MHz, 10mW ERP
- 75.620 - 75.790MHz, 10mW ERP
- 173.020 - 173.280MHz, 10mW ERP
- 217.250 - 220.110MHz, 10mW ERP
- 223.000 - 225.000MHz, 10mW ERP
- 925 - 937.5 MHz, 10mW, ERP
- 2400 - 2483.5 MHz, 10mW ERP

Fees

One-time fee for 5 years: about 12 € (converted).
In addition, per link and year: about 10 € (converted)

Further information

Contact addresses of the four responsible Local Telecommunication Offices
(Korea Radio Promotion Association): www.rapa.or.kr /
http://www.rapa.or.kr/design/contents10.asp?code=1010&lang=eng&left=1&mncode=18

Ministry of Science and ICT:
http://www.msip.go.kr / http://english.msit.go.kr/english/main/main.do

Note: information as of April 2018

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Spain / Andorra

Spectrum is made available through a mixture of licence exemptions (without a fee, and typically with an EIRP of <50mW) and individual licensing (subject to a fee).

No individual license required / License exempt frequencies

- 30 MHz band, 50 mW ERP, 25 kHz, see IR-98
- 174.100 / 179.300, 50 mW ERP, see IR-99
- 188.100 / 194.500, 50 mW ERP, see IR-99
- 470 - 786 MHz, up to 50 mW ERP, 200 kHz, see IR-216

Note:
- Secondary use. There should not be any interference to other emissions from the same band.
- For use in public spaces, multimedia productions, artistic and sport events, of temporary character.
- Compatible with TV service in the zone of use.

- 823 - 832 MHz, 20mW EIRP hand-held, 100mW EIRP body-worn, 200 kHz, see IR-210
- 1785 – 1805 MHz, 20mW hand-held and 50 mW EIRP body-worn, see IR-101

Fees

No fees are required

Further information

- 30 MHz band, 50 mW ERP, 25 kHz, see IR-98
- UN36: 470 - 786 MHz
- UN118: 863 - 865 MHz
- UN119: 1785 - 1805 MHz
- UN48: 1785 – 1805 MHz
- UN-95, UN-106 and UN-127: 174.1 - 194.5 MHz
- UN151: 823 - 832 MHz

Local contact for information
AFIAL (Sound and Light Manufacturers and Importers Organization)
WEB : http://www.afial.net / Mail: afial@afial.net

Wireless interfaces
Cuadro Nacional de Atribución de Frecuencias (CNAF) :
http://www.minetad.gob.es/telecomunicaciones/espectro/Paginas/cnaf.aspx

Here you can select the different regions and then display the DVB-T stations of the provinces in Spain, and Andorra: **https://www.tdt1.com** **June 2025: no longer active**

Note: information as of June 2025

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For the newest version, look apwpt.org

Sweden

Individual licence required - Generally approved

- 174 - 240 MHz, 50mW ERP
- 470 - 694 MHz, 50mW, ERP

No individual license required / License exempt frequencies

- 41 - 43.6 MHz, 10mW
- 823 - 826 MHz, 10mW ERP, Handheld TX, 50mW ERP, Body worn TX
- 826 - 832 MHz, 50mW ERP
- 863 - 865 MHz, 10mW ERP

1785 - 1805 MHz, 20mW ERP, Handheld TX, 50mW ERP, Body Worn TX

Fees per year (from 1.1.2025 on)
- 282 - 2820 SEK or more per transmitter

Information Trådlösa mikrofoner och hörseltekniska hjälpmedel:
Trådlösa mikrofoner och hörselhjälpmedel | PTS

=

https://www.pts.se/tillstand-och-anmalan/radio/tradlosa-mikrofoner-och-horselhjalpmedel/

Wireless audio transmission:
Wireless audio transmission | PTS

=

https://www.pts.se/en/application-and-notification/radio/wireless-audio-transmission/

Find available frequencies
Trådlös ljudöverföring

=

https://wirelessaudio.pts.se/

Note: information as of September 2025

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Switzerland

No individual license required / License exempt frequencies

The table below indicates the authorized power and the technical regulations for each frequency band in which wireless microphones and In-Ear monitor systems can be operated

- 31.4 - 39.6 MHz, 100 mW ERP, use only in the channels indicated in RIR 1009-01
- 174 - 223 MHz, 50 mW ERP, RIR1009-02
- 470 - 694 MHz, 50 mW ERP, RIR1009-10
- 477 - 694 MHz, 250 mW ERP, use only in the channels indicated in RIR 1009-11
- 821.5 - 826 MHz, 20 mW e.i.r.p., 100 mW e.i.r.p., for wireless microphones carried on the body, RIR1009-18
- 826 - 832 MHz, 100 mW e.i.r.p., RIR1009-13
- 863 - 865 MHz, 10 mW ERP, RIR1009-05
- 1350 - 1400 MHz, indoor only, 20 mW e.i.r.p., 50 mW e.i.r.p. for wireless microphones carried on the body or with built-in Spectrum Scanning Procedure (SSP), RIR1009-20
- 1785 - 1804.8 MHz, 20 mW e.i.r.p., 50 mW e.i.r.p. for wireless microphones carried on the body or with built-in Spectrum Scanning Procedure (SSP), RIR1009-09
- 1880 - 1900 MHz, 250 mW e.i.r.p., DECT only, 250 mW e.i.r.p., RIR0503-01.

Notes:

- The use of radio microphones in the bands 789 - 823 MHz and 832 - 862 MHz is forbidden.
- Wireless microphones can also operate in some other frequency bands. For example, in the frequency ranges intended for non-specific short-distance radio applications or in the frequency range for DECT (Digital Enhanced Cordless Telecommunications) at 1880 MHz. The technical interface requirements RIR1008 define the frequency ranges and radio parameters for non-specific applications, the RIR0503-01 for DECT in the 1880 MHz frequency range.

Frequency coordination for licence exempted PMSE users

Licence exempted PMSE users can register equipment on a voluntary basis to the database provided by a third party in order to coordinate frequency use at events: PMSE Database

Other equipment may only be used with a valid radiocommunication license

Link to the application forms

Further Information

Radio microphones (E) / Drahtlose Mikrofone (D) / Microphones sans fil (F) / Microfoni senza filo (I)

National Frequency Allocation Plan 2025

https://www.bakom.admin.ch/bakom/en/homepage/frequencies-and-antennas/national-frequency-allocation-plan.html

Note: information as of June 2025

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United Arab Emirates

The table below indicates the authorized power and the technical regulations for each frequency band in which Audio PMSE can be operated:

Frequency Range [MHz]	Intended Use	Usage conditions	Authorization method	Notes
66.0 - 74.8	Radio microphones	Maximum 10 mW e.r.p.	Authorization	Above 73 MHz indoor only
138 - 156	Talkback	Maximum 1 W e.r.p.	Authorization	Based on sharing with PMR
174 - 230	Radio microphones	Maximum 100 mW e.r.p.	Authorization	Based on tuning range. Exact available channels for each location will be updated on the TRA Web.
406.1 - 450	Talkback	Maximum 1 W e.r.p.	Authorization	Based on sharing with PMR
470 - 694	Radio microphones, Talkback and IEM	Maximum 100 mW e.r.p.	Authorization	Based on tuning range. Exact available channels for each location will be updated on the TRA Web.
823 - 826	Radio microphones and IEM	Maximum 20 mW e.i.r.p.	Short Range Device (Class Authorization)	
826 - 832	Radio microphones and IEM	Maximum 100 mW e.i.r.p.	Short Range Device (Class Authorization)	
863 - 870	Radio microphones and IEM	Maximum 50 mW e.i.r.p.	Short Range Device (Class Authorization)	
1350 - 1400	Radio microphones and IEM	As authorized	Authorization	
1675 - 1710	Radio microphones and IEM	As authorized	Authorization	
1785 - 1804.8	Radio microphones and IEM	Maximum 20 mW e.i.r.p. (handheld) and 50 mW e.i.r.p. (body worn)	Short Range Device (Class Authorization)	
1880 - 1900	Radio microphones	Maximum 250 mW e.i.r.p.	Short Range Device (Class Authorization)	Using DECT technology only
2400 - 2483.5	Radio microphones	Maximum 10 mW e.i.r.p.	Short Range Device (Class Authorization)	Shared with SRD including wireless video
5150 - 5875	Indoor conference systems	160 mW	Short Range Device (Class Authorization)	Shared with SRD

How to get a Temporary or Annual Spectrum Authorization?

One can find online application on the following link: https://www.tra.gov.ae

Fees for a Spectrum Authorization

Find information about the UAE Frequency Spectrum Fees Regulations for SAB/SAP (PMSE) by using this link: https://www.tra.gov.ae/en/about-tra/telecommunication-sector/regulations-and-ruling/details.aspx#documents

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For the newest version, look apwpt.org

Further Information

Find information about the UAE Spectrum Regulations for SAB/SAP (PMSE) by using this link: https://www.tra.gov.ae/en/about-tra/telecommunication-sector/regulations-and-ruling/details.aspx#documents

Contact address of UAE administration

WEB: https://www.tra.gov.ae/en/contact-us.aspx / Email : info@tra.gov.ae

Note: information as of March 2020

We do not give any guarantee for the correctness or completeness of the information. We assume no responsibility for external links.

For the newest version, look apwpt.org

United States of America, incl. Puerto Rico

No individual license required / License exempt frequencies

- 54 - 72 MHz, 50 mW (EIRP), Title 47 Vol. 1 Part 15.236ff.
- 76 - 88 MHz, 50 mW (EIRP), Title 47 Vol. 1 Part 15.236ff.
- 174 - 216 MHz, 50 mW (EIRP), Title 47 Vol. 1 Part 15.236ff.
- 470 - 608 MHz, 50 mW (EIRP), Title 47 Vol. 1 Part 15.236ff.
- 614 – 616 & 657-663 MHz, 20 mW (EIRP), Title 47 Vol. 1 Part 15.236ff (when these frequencies become available or following the conclusion of the Incentive Auction transition).
- 902 - 928 MHz, 1W peak[Note1], Title 47 Vol. 1 Part 15.247ff.
- 1 920 - 1 930 MHz, 100µW multiplied by the square root of the emission BW in Hz, Title 47 Vol. 1 Part 15.301ff.
- 2 400 - 2 483.5 MHz, 1W peak[Note1], Title 47 Vol. 1 Part 15.247ff.
- 5 725 - 5 850 MHz, 1W* peak[Note1], Title 47 Vol. 1 Part 15.247ff.

Note1: maximum power depends on emission characteristics.

Individual license (up to 10 years) [Note2]

- 54 - 72 MHz, 50 mW (EIRP), Title 47 Vol. 1 Part 74.861ff.
- 76 - 88 MHz, 50 mW (EIRP), Title 47 Vol. 1 Part 74.861ff.
- 174 - 216 MHz, 50 mW (EIRP), Title 47 Vol. 1 Part 74.861ff.
- 470 - 608 MHz, 250 mW (conducted), Title 47 Vol. 1 Part 74.861ff.
- 653 - 657 MHz, 20 mW (EIRP), Title 47 Vol. 1 Part 74.861ff (when these frequencies become available or following the conclusion of the Incentive Auction transition).
- 941.5 - 952.0, 952.85 - 956.25, 956.45 - 959.85 MHz, 1 W (conducted), Title 47 Vol. 1 Part 74.801ff.
- 1 435 - 1 525 MHz, 250 mW (conducted), Title 47 Vol. 1 Part 74.861ff. [Note3]
- 6 875 - 6 900 MHz, up to 1 W (conducted), Title 47 Vol. 1 Part 74.861ff. [Note4]
- 7 100 - 7 125 MHz, up to 1 W (conducted), Title 47 Vol. 1 Part 74.861ff. [Note4]

Note2: the license term can vary but will be for up to 10 years, see https://www.law.cornell.edu/cfr/text/47/74.15
Note3: requires FCC license and advance frequency coordination with AFTRCC; https://www.aftrcc.org/
Note4: FCC had discussed limiting the power to 250 mW but it appears they settled on 1 Watt for this band, see: https://apps.fcc.gov/edocs_public/attachmatch/FCC-15-100A1.pdf

Fees for wireless microphone systems

- $165 for 10-year term

Further information

- FCC ULS: http://wireless.fcc.gov/uls/index.htm?job=home
- See: https://magazine.local695.com/fcc-licensing/how-to-get-license
- Downloadable application form: https://transition.fcc.gov/Forms/Form601/601.pdf

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Licensed and Unlicensed Operation Permitted

It is permissible to operate wireless microphones and in ear monitoring systems on either a licensed or unlicensed basis in several bands. In the television broadcasting bands, a power limit of 50 mW applies for unlicensed operation; licensed microphones and in ear monitor transmitters may operate with up to 250 mW in the UHF television band.

Wireless microphones may operate on locally unused television channels within the VHF and UHF television broadcasting bands between 54-72, 76-88, 174-216, and 470-698 MHz [Note5].

Locally unused television channels may be determined by consulting one of the wireless microphone manufacturers' online frequency finders, or the website of one of the FCC approved database operators.

Licensed users may register TV channels they intend to use with one of the FCC approved database operators to receive interference protection from White Space Devices operating in the TV bands. Unlicensed users are no longer able to register with a database.

In addition to the television bands, wireless microphones can also operate in one of the three license-exempt (ISM) bands at 902 - 928 MHz, 2 400 - 2 483.5 MHz or 5 725 - 5 850 MHz as well as the UPCS (DECT) band at 1 920 - 1 930 MHz. Microphones operating in these bands have different technical requirements than those for use in the television bands. They are shared with other devices and may be congested at certain times and places.

As a result of the Incentive Auction of UHF (600 MHz) television band frequencies, wireless microphones and in ear monitoring systems must stop operating in the 600 MHz band except in designated guard band frequencies by the end of the transition period on July 13, 2020. Those who do not comply may experience high levels of interference and could also face fines. The 600 MHz frequencies that will continue to be available for wireless microphone use include a 2 MHz guard band from 614 - 616 MHz, plus a 10 MHz portion of the duplex gap from 653 - 663 MHz. The lower 4 MHz of the duplex gap will be exclusively for licensed wireless microphones, and the upper 6 MHz will be shared between wireless microphones and White Space Devices on a co-equal basis. Unlicensed operation will be permitted in 614 - 616 MHz and 657 - 663 MHz, and licensed operation will be permitted in 653 - 657 MHz. The spectrum below Channel 37 will continue to be used for television broadcasting. Wireless microphone users are advised to check with one of the TV Bands databases to determine the available channels at the location where they plan to operate.

Additional spectrum for licensed users is available in the 941.5 – 952, 952.85 – 956.25, 956.45 – 959.85, 1 435 - 1 525, 6 875 - 6 900, and 7 100 - 7 125 MHz ranges[Note6]. Technical standards for these bands have now been finalized. Users must check with a local frequency coordinator before operation begins. There are special conditions for operation in the 1 435 - 1 525 MHz band. Access protocols are currently being worked on with AFTRCC, the coordinator for that band.

….

Note5: after the current transition phase ends on July 13, 2020, the UHF television broadcasting band will be limited to 470-608 MHz. Wireless microphones will be permitted in the lower guard band at 612-614 MHz and in the duplex gap band from 653-663 MHz.

Note6: the 6 875 – 6 900 and 7 100 – 7 125 MHz bands may be reallocated to other services in the future.

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Puerto Rico:
Because Puerto Rico is part of the United States, the regulations established by FCC rules apply there. Therefore:

The FCC allows unlicensed wireless microphones to operate in the 902–928 MHz band, the 1920–1930 MHz band, and parts of the 2.4 GHz and 5 GHz bands.

- The FCC has technical rules for licensed wireless microphone operations in specific frequency bands.
- The FCC allows wireless microphones to operate on an unlicensed basis in the TV bands.

Information as of February 2020

United Kingdom

Preliminary remark

Use of audio PMSE equipment in the UK must be authorised via a wireless telegraphy licence unless there are specific regulations exempting equipment from needing a licence. Ofcom, the UK's spectrum regulator, issues two types of licences for audio PMSE use:

- UK Wireless Microphone Licence (also known as a Shared Licence).
- Programme Making and Special Events Low Power licence (typically referred to as a Standard Licence).

There are two variants of UK Wireless Microphone Licence, one for UHF use and the other for VHF. The UHF Shared Licence authorises the user to operate on any frequency within the range 606.5 – 613.5 MHz, 823-832 MHz and 1785-1805 MHz at any time and at any location within the UK. The VHF Shared Licence authorises access to 15 spot frequencies in the range 175.25 to 209.80 MHz. These licences provide shared access to spectrum and therefore users must be prepared to retune to alternative frequencies if interference from other Shared Licence users is experienced.

Standard Licences are issued when a user wishes to access frequencies that are coordinated with other users or uses. Coordination may take place with other local PMSE frequency users, and/or coordinated to ensure there is no television transmission that will affect the use. These licences require users to book on a location by location, date by date basis. Frequencies are booked anywhere between 15 minutes to one year, however, annual or long term fixed site access is usually only permitted for the permanent resident or owner of the site/venue.

Standard (coordinated) Licence

- 470 - 606 MHz, 614 - 703 MHz960 – 1154 MHz – three 'sub-bands'
    - 961 to 1016 MHz for indoor use
    - 961 to 976.5 and 979.5 to 1016 MHz for outdoor use (i.e. 976.5-979.5 MHz cannot be used outdoors)

      Due to aviation safety regulations, the use of audio PMSE outdoors in the 976.5–979.5 MHz band has been strictly prohibited since March 2025. Purely

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indoor use (up to 50 mW) in this band is now permitted only after manual approval via email.

  - 1044 to 1076 MHz
  - 1104 to 1154 MHz

- 1518-1525 MHz, max. 50 mW ERP

In general, the maximum radiated power is 10 mW which may be increased to 50 mW ERP for transmitting equipment designed to be worn in close contact with the body.

'Shared' License required – annual renewal

- 175.25 - 209.80 MHz
  - 15 spot frequencies available within this range on the UK (VHF) Shared licence (see: Shared - Ofcom).
- 606 - 614 MHz, UK (UHF) Shared licence (see: Shared - Ofcom). max. 50 mW ERP
- 823 – 832 MHz, max. 50 mW ERP
- 1785 - 1800 MHz, max 50 mW ERP

No individual license required / License exempt frequencies

- 173.7 – 175.1 MHz max 50 mW ERP. Available frequencies:
  - 173.800, 174.000, 174.200, 174.400, 174.600, 174.800, 175.000 MHz
- 863 - 865 MHz, max. 10 mW ERP
- 2.4 - 2.485 GHz, 10 mW EIRP

Additional Information

Ofcom PMSE licensing:
Programme-making and special events (PMSE) - Ofcom

Ofcom PMSE licensing portal (users need to register):
PMSE Login

UK Interface Requirement 2038: Programme Making and Special Events (PMSE):
UK Interface Requirement 2038

https://ukfree.tv/prediction
Prediction by postcode with a map of transmitters including links to mobile phone coverage for different frequency ranges

https://ukfree.tv/maps/tvregions/

https://ukfree.tv/section/TV_Transmitters

If you are looking for a special transmitter on a map:

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https://ukfree.tv/maps/freeview
https://ukfree.tv/maps/freeviewhd
https://ukfree.tv/maps/itv
https://ukfree.tv/maps/localtv
https://ukfree.tv/maps/bbc

Example to get all details:
https://ukfree.tv/maps/tvregions/
choose an area/region
https://ukfree.tv/maps/tvregions/5
Scroll and zoom on the map
Click (once) on one transmitter on the map and it will show you the coverage of the transmitter (click once again to deactivate the coverage diagram)

If you double click on a special transmitter, you will be forwarded to the transmitter subsection of ukfree.tv

https://ukfree.tv/transmitters/tv/Black_Hill
There you are able to look at the TV channel number with the frequency, the transmitter high, modulation , rf power and polarisation with the coverage direction diagram
(There're also tables with the frequency transmission change over time and comparison of old analogue and current digital signal levels)

Education/interference hunting/expected problems with the weather conditions:
https://ukfree.tv/section/Freeview_Interference
the actual article is:
https://ukfree.tv/article/1107051977/High_pressure_causing_channel_loss_through_Inversion

Note: information as of July 2025

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Ukraine

Due to the situation in Ukraine (russian aggression), not all data could not be verified in October 2026.

Individual assignment / Individual license required

Bands allowed for cordless audio devices and radio microphones in Ukraine

Radio Frequency Band, MHz	Radio Technology	Conditions for Usage
30.01 - 47	Radio microphones	Radio microphones are permit- and fee-exempt, if operate in the frequency band of 30.01-33 MHz with the maximum radiated power up to 10 mW and upon availability of a non-directional integral/constructive antenna. Otherwise, operation of radio microphones is carried out on a permit-to-operate basis.
66 - 74 87.5 - 92 100 - 108	Radio microphones	Radio microphones are permit- and fee-exempt, if operate with the maximum radiated power up to 10 mW and upon availability of a non-directional integral/constructive antenna. Operation of radio microphone is carried out on the condition that it does not create interference to the other devices operating within the same frequency bands.
89.9 – 90.2	Cordless audio devices	Frequency band is used for sound transmission in TV broadcasting with radiated power up to 10 mW.
174-216 470-862	Radio microphones	Radio microphones are permit- and fee-exempt, if operate in the frequency bands of 174.4 – 174.6 MHz and 174.9 – 175.1 MHz with the maximum radiated power up to 10 mW and upon availability of a non-directional integral/constructive antenna. Otherwise, operation of radio microphones is carried out on a permit-to-operate basis. Operation of radio microphone is carried out on the condition that it does not create interference to the other devices operating within the same frequency bands.
863 - 865	Cordless audio devices	For voice transmission only. Algorithm of device shall ensure absence of emission when it is out of operation. Cordless audio devices are permit- and fee-exempt, if the maximum radiated power is up to 10 mW and upon availability of a non-directional integral / constructive antenna. Operation of device is carried out on the condition that it does not create interference to the other devices operating within the same frequency bands.

Payment

Issuance of permissions for operation of radio electronic facilities (REFs) is performed on a fee paid basis. Information on the payment conditions is available on:
National Commission for the State Regulation of electronic communications, radiofrequency spectrum and the provision of postal services|Registers (nkrzi.gov.ua)

https://nkrzi.gov.ua/index.php?r=site/index&pg=1&id=0&language=en

Additional Information

Contacts: National Commission for the State Regulation of Communications and Information:
http://www.nkrzi.gov.ua/index.php?r=site/index&pg=1&id=0&language=en

Ukrainian State Centre of Radio Frequencies:
http://www.ucrf.gov.ua/en/

Note: information as of March 2017; partly updated August 2021 and March 2022 and November 2022 and September 2024

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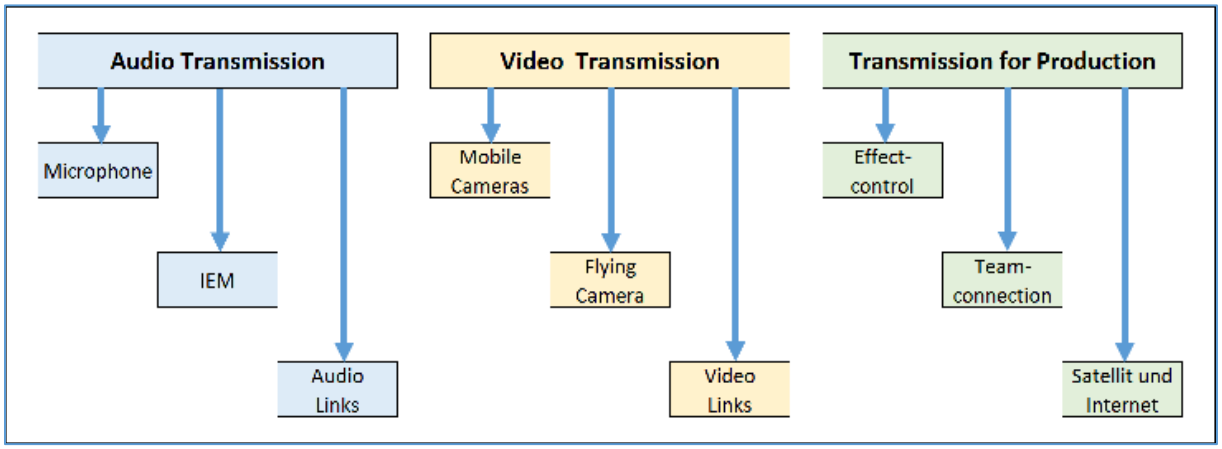
Further information

This document is mainly focussing on audio PMSE. However, there are several PMSE in daily use:



Therefore, CEPT/ECO informs on a special homepage about “Programme making and special events applications (PMSE)”: https://www.cept.org/ecc/topics/programme-making-and-special-events-applications-pmse

This document was made by:

Association of Professional Wireless Production Technologies e. V.
Pappelallee 78/79, D-10437 Berlin | Germany,
E-Mail: office@apwpt.org

Responsible: Jochen Zenthofer from Luxembourg. Thanks to Marco Völzke, Berlin, for his help since 2022!

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Marocco 2026

ANNEXE 10 :
LISTE DES BANDES DE FREQUENCES DESTINEES AUX INSTALLATIONS A2FP OU RLAN POUVANT ETRE EXPLOITEES[3,4,5] LIBREMENT
Microphones sans fil, dispositifs de transmission audio et aides à l'audition :

Codification	Bande de fréquences/ Canaux de Fréquences	Puissance Apparente Rayonnée maximale	Largeur de Bande (kHz)	Conditions particulières
X.1	87,6 – 107,9 MHz	50 nW p.a.r.	200	Cette bande est destinée pour les applications audio sans fil. L'interface utilisateur de l'appareil doit permettre, au minimum la sélection de toutes les fréquences possibles dans la bande 88,1 MHz à 107,9 MHz. En l'absence de signaux audio, l'appareil doit employer la fonction d'interruption de signal. L'émission d'un signal pilote pour assurer la continuité de la transmission est également interdite.
X.2	169,4 – 169,6 MHz	500 mW p.a.r.	Jusqu'à 50	Ces bandes sont destinées exclusivement à l'exploitation des dispositifs d'aide à l'audition
X.3	173,965 – 174,015 MHz	10 mW p.a.r	Jusqu'à 50	
X.4	174 – 230 MHz	50 mW p.a.r.	200	Ces bandes sont destinées exclusivement à l'exploitation par des microphones sans fil dans le cadre des applications auxiliaires à la radiodiffusion.
X.5	470 – 694 MHz	50 mW p.a.r.	200	
X.6	863 - 865 MHz	10 mW p.a.r.		Cette bande est destinée aux dispositifs audios sans fil et les dispositifs multimédia de lecture en continu.
X.7	1795 – 1800 MHz	20 mW p.a.r. pour les équipements portables.	---	Cette bande est destinée exclusivement à l'exploitation par les utilisateurs professionnels d'équipements auxiliaires sonores de conception de programmes et de radiodiffusion.
X.8	1795 – 1800 MHz	50 mW p.a.r. pour les équipements portés près du corps humain.		

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