

[www.adamhall.com](http://www.adamhall.com)

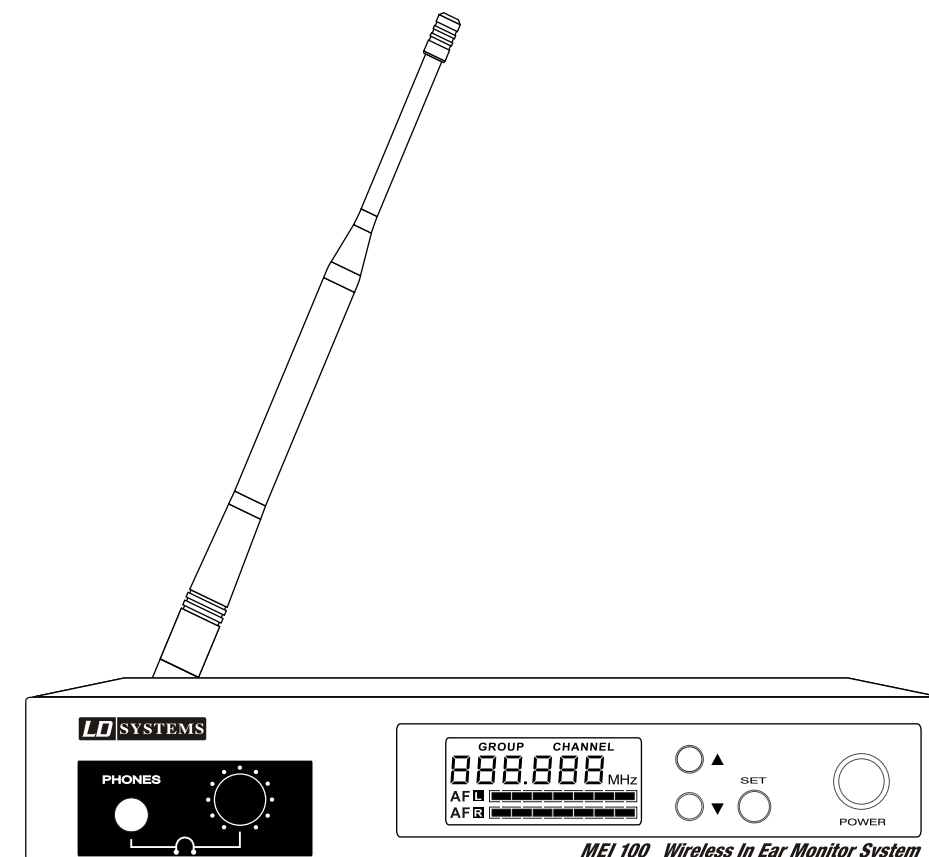


## User manual

**MEI 100**

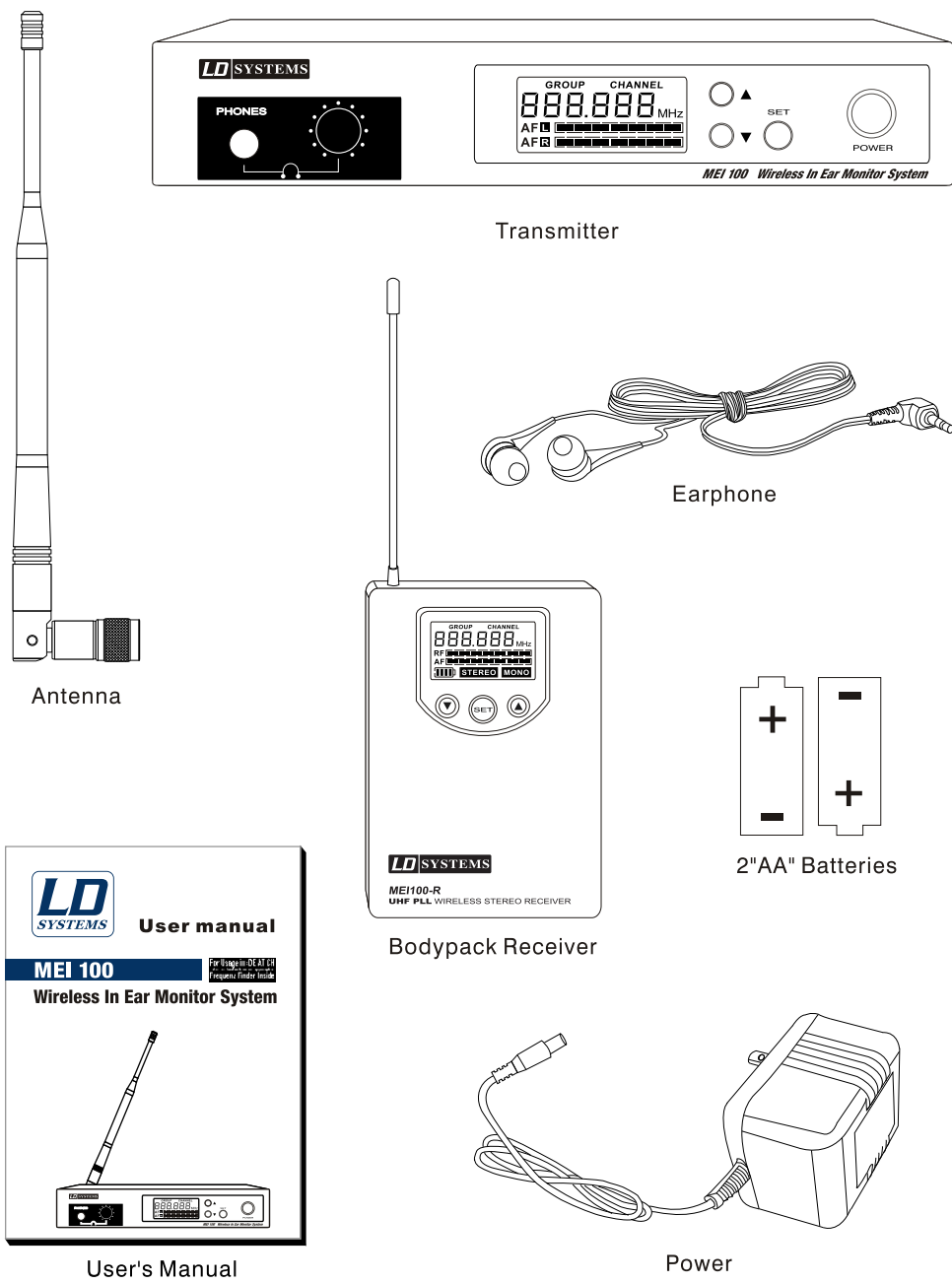
For Usage in: DE AT CH  
For other countries please observe the respective country-specific regulations  
Frequenz Finder Inside

## Wireless In Ear Monitor System



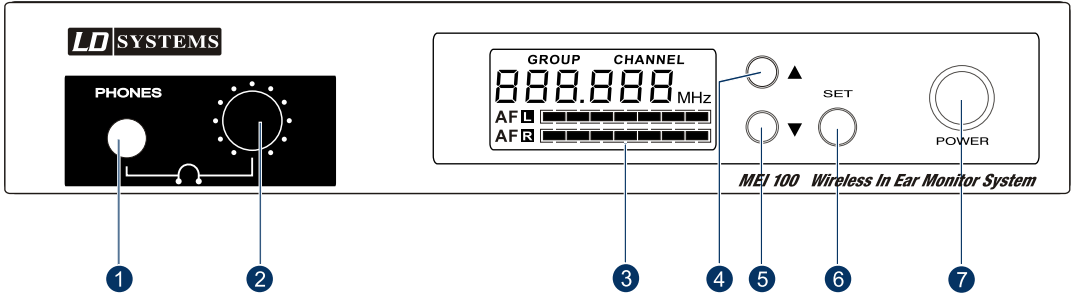
Printed in CHINA

System Parts:



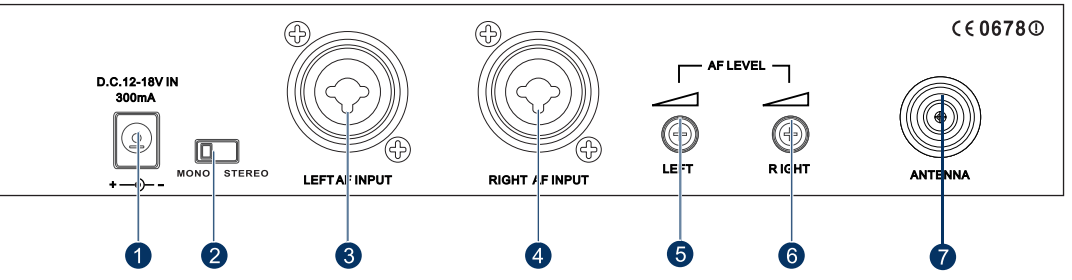
MEI-100 Transmitter Features:

Front Panel:



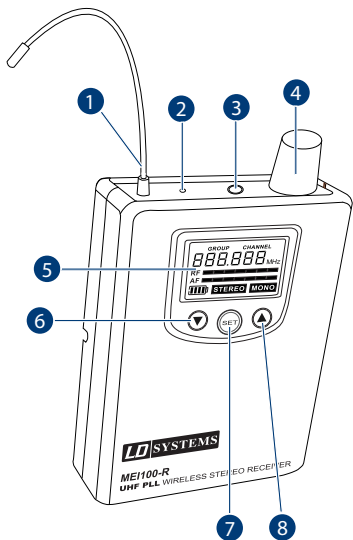
- 1 Ear jack
- 2 Monitor audio output level control button  
Left turn for output level decrease, right turn for output level increase.
- 3 LCD screen  
Please See "system setting" on page 4.
- 4 Transmitter menu up button  
Please See "system setting" on page 4.
- 5 Transmitter menu down button  
Please See "system setting" on page 4.
- 6 Transmitter setup button  
Please See "system setting" on page 4.
- 7 On/Off switch  
Tap two seconds to turn on, hold to turn off.

Back Panel:



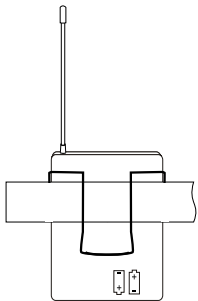
- 1 AC adapter jack
- 2 Stereo/Mono switch  
Switch up for stereo radio status, switch down for mono radio status.
- 3 Left track Combo (XLR + 6.3mm jack socket) input
- 4 Right track Combo (XLR + 6.3mm jack socket) input
- 5 Left track audio input level control button
- 6 Right track audio input level control button
- 7 Antenna jack A  
50ohm

**Bodypack Receiver**



**Features:**

- 1 Antenna
- 2 RF signal LED  
Lights when receives RF signal
- 3 Ear jack
- 4 Audio output control and On/Off switch
- 5 LCD screen  
Please See “system setting ” on page 4.
- 6 Receiver menu down button  
Please See “system setting ” on page 4.
- 7 Receiver programming button  
Please See “system setting ” on page 4.
- 8 Receiver menu up button  
Please See “system setting ” on page 4.

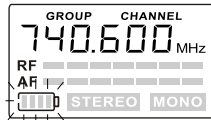
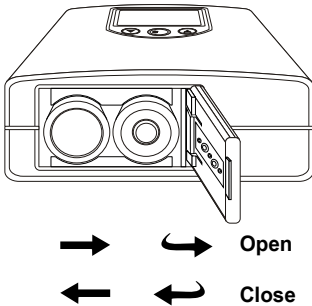


**Wearing the Bodypack Receiver**

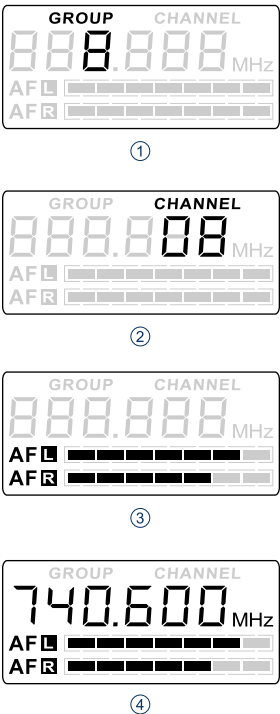
Clip the receiver to a belt For best results, slide the receiver until the belt is pressed against the base of the clip.

**Changing Batteries**

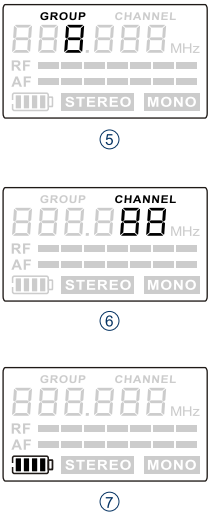
Expected life for two Alkaline batteries are approximately 5 hours. When the LCD panel battery sign is flashing(see below), the batteries should be changed immediately, as shown on the left.



**System Setup**



**Receiver screen**



**Transmitter Programming:**

**Select a Group and/or Channel:**

Press SET button, while GROUP is flashing, pressing ▲ or button to select a fit group, as shown ①. Then press SET button again, while CHANNEL is flashing, pressing ▲ or▼ butt select a fit channel, as shown ② .

Note: when using multiple system, set all transmitters to the same frequency group for best results, then setup a special channel for each transmitter in the group.

**Audio Input Level Display:**

Displays left and right track audio input level, as shown③ .

**Full Display:**

Displays left and right track audio input level and transmitter working frequencies, as shown ④ .

Adjusting audio input level button to let transmitter volume in a fit status.

**Bodypack Receiver programming**

**Select a Group and/or Channel:**

Press SET button, while GROUP is flashing, pressing ▲ or button to select a fit group, as shown ⑤. Then press SET button again, while CHANNEL is flashing, pressing ▲ or▼ butt select a fit channel, as shown ⑥ .

**Battery Status:**

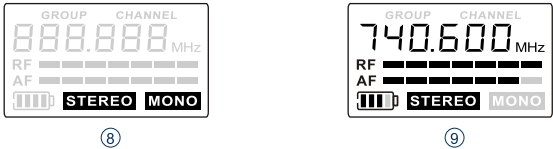
Five level battery status in receiver, as shown ⑦.

**Stereo/Mono Working Mode Display:**

When receiver receives stereo signal STEREO sign lights or MONO sign lights by automatic, as shown⑧ .

**Full Display:**

Displays battery status, RF/audio level, stereo/mono working mode and working frequencies, as shown⑨ .



Specifications

System

Frequency Range and Transmitter Output Level

Band : UHF  
Frequency Range : 790,850 – 813,800 MHz  
Transmitter Output Level: 10dBm

Operating Range Under Typical Conditions

100m  
Note: actual range depends on RF signal  
absorption, reflection, and interference

Audio Frequency Response (+/-3dB)

60Hz~16KHz

Total Harmonic Distortion (+/-30KHz deviation, 1KHz tone)

<1%

Dynamic Range

>90dB A-weighted

Operating Temperature Range

-10°C to +50°C

Note: battery characteristics may limit this range

Transmitter

RF output level

10dBm

Max Audio input level

+12dBV

Gain Adjustment Range

40dB

Input Impedance

100KΩ

Dimensions

38mm H \* 212mm W\*96mm D

Weight

605 grams

Power Requirements

12-18 V dc at 300mA, supplied by external  
power supply

Combi-/XLR input

balanced

Pin1: Ground(cable shield)

Pin2: Audio

Pin3: No Audio

Unbalanced (jack input) Tip : Ground & Audio

Bodypack Receiver

Audio Output Level

100mW @ 32 Ohms

Sensitivity

-94dBm for 30dB SINAD,typical

Image Rejection

>55dB

Dimensions

95mm H\*65mm W\*25mm D

Weight

100 grams (without batteries)

Power Requirements

2 “AA” size alkaline or rechargeable  
batteries

Battery Life

>8hours



Umwelthinweis

Werfen Sie die mitgelieferten Batterien nicht in den Hausmüll!

Geben Sie entladene Batterien in einen Batteriecontainer oder bei einer Rücknahmestelle für Alt-Batterien ab. Gemeinsam zu einer besseren Umwelt.

Batteries or rechargeable batteries

The supplied batteries or rechargeable batteries can be recycled. Please dispose of them as special waste or return them to your specialist dealer. In order to protect the environment, only dispose exhausted batteries. Together for a good nature.



Correct Disposal of This Product  
(Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

**EG-Konformitätserklärung**    Ⓒ Ⓔ 0678 Ⓢ

Diese Geräte entsprechen den grundlegenden Anforderungen und den weiteren Vorgaben der Richtlinien 1999/5/EU, 89/336/EU und 73/23/EU. Die Erklärung steht im Internet unter [www.adamhall.com](http://www.adamhall.com) zum Download zur Verfügung.

**CE Declaration of Conformity**    Ⓒ Ⓔ 0678 Ⓢ

This equipment is in compliance with the essential requirement and other relevant provisions of Directives 1999/5/EC, 89/336/ES or 73/23/EC. The declaration is available for download on the internet site at [www.adamhall.com](http://www.adamhall.com). Before Putting the device into operation, please observe the respective country-specific regulations!

**Déclaration de conformité pour la CEE**

Ces appareils sont conformes aux exigences essentielles et aux autres dispositions pertinentes de les Directives 1999/5/EC, 89/336/EC et 73/23/EC. Vous trouvez cette déclaration dans la internet sous [www.adamhall.com](http://www.adamhall.com). Avant d'utiliser l'appareil, veuillez observer les dispositions légales en vigueur dans votre pays.

**Dichiarazione di vonformità UE**

I presenti apparecchi sono conformi ai requisiti fondamentali e alle ulteriori prescrizioni delle normative 1999/5/EU, 89/336/UE e 73/23/UE. Il dichiarazione disponibile sul sito Internet [www.adamhall.com](http://www.adamhall.com). Prima della messa in funzione seguite le prescrizioni vigenti nel paese nel quale viene utilizzato!

**Declaración de Conformidad**

Este equipo cumple tanto los requisitos esenciales como otras disposiciones de las Directivas 1999/5/CE, 89/336/CE y 73/23/CE. Si desea leer el declaración, visite la página [www.adamhall.com](http://www.adamhall.com). Anterior a la puesta en funcionamiento deberán observarse las correspondientes ordenanzas nacionales!

**EU-verklaring van overeenstemming**

Deze apparaten voldoen aan de fundamentele eisen en overige voorschriften van de richtlijnen 1999/5/EU, 89/336/EU en 73/23/EU. Het verklaring is op internet onder [www.adamhall.com](http://www.adamhall.com) beschikbaar. Voor inbedrijfstelling dient u de afzonderlijke landspecifieke voorschriften in acht te nemen!

**Safety instructions**

No user serviceable parts inside! Never open the transmitter, otherwise you can receive an electric shock. If units are opened by customers in breach of this instruction, the warranty becomes null and void.

Use the transmitter in dry rooms only. Never expose it to water (eg: never place it in a position where it could be subjected to water splashes). Do not place any objects containing liquids on the top of the unit.

Keep the transmitter away from direct sunlight, central heating radiators, electric heaters and similar sources of heat. Ensure sufficient ventilation, especially when it is mounted into a 19" rack.

Use a damp cloth for cleaning the unit. Do not use any cleansing agents or solvents.

**Attention! High Volume!**

This is a professional transmission system. Commercial use is subject to the rules and regulations of the trade association responsible. Adam Hall, as the manufacturer, is therefore obliged to expressly point our possible health risks arising from use.

This system is capable of producing sound pressure exceeding 85 dB (A). 85 dB (A) is the sound pressure corresponding to the maximum permissible volume which is by law (in some countries) allowed to affect your hearing for the duration of a working day. It is used as a basis according to the specifications of industrial medicine. Higher volumes or longer durations can damage your hearing. At higher volumes, the duration must be shortened in order to prevent damage. The following are sure signs that you have been subjected to excessive noise for too long a time:

- You can hear ringing or whistling sounds in your ears.
- You have the impression that you can no longer hear high notes.

Frequenz Finder / Frequency Finder

Bitte vergessen Sie nicht, die zuständige Lizenzierungsbehörde zu kontaktieren, bevor Sie das System in Betrieb nehmen.

Please do not forget to contact the local licensing authorities before putting any system into operation.

Frequencies for:

Belgium

Frequencies (in MHz)	max. RF output (in mW)
■ 181.4 - 184.2	■ 20
■ 202.4 - 205.2	■ 20
■ 518 - 526	■ 20
■ 534 - 542	■ 20
■ 854 - 862	■ 20
Frequencies (in MHz) for users from abroad	
■ 181.4 - 184.2	
■ 202.4 - 205.2	
■ 518 - 526	
■ 534 - 542	
■ 854 - 862	
Frequencies (in MHz) for studio / MI applications	
■ 494 - 838	
Frequencies (in MHz) for miscellaneous applications	
■ 494 - 838	
Notes	
Foreign users may inform at <a href="http://www.bipt.be/">http://www.bipt.be/</a> 2 months ahead	

Czech Rep.

Frequencies (in MHz)	max. RF output (in mW)
■ 176 - 182	■ 50
■ 470 - 822	■ 50
Frequencies (in MHz) for users from abroad	
Frequencies (in MHz) for broadcast applications	
■ 600 - 800	
Frequencies (in MHz) for studio / MI applications	
■ 740 - 772	
■ 790 - 822	
Frequencies (in MHz) for miscellaneous applications	

Denmark

Frequencies (in MHz)	max. RF output (in mW)
■ 800 - 820	■ 50
■ 863 - 865 (ISM)	
Frequencies (in MHz) for users from abroad	
■ For worldwide events freqs. will be allocated	
Frequencies (in MHz) for broadcast applications	
■ 800 - 820	
Frequencies (in MHz) for studio / MI applications	
■ 800 - 820	
■ 863 - 865 for InEar	
Frequencies (in MHz) for miscellaneous applications	
■ Ch. 70 for permanent installations	

France

Frequencies (in MHz)	max. RF output (in mW)
■ 175.5 - 178.5	■ 50
■ 183.5 - 186.5	
■ 470 - 830	
Frequencies (in MHz) for foreign users to apply	
■ VHF and UHF in compliance to french law	
Frequencies (in MHz) for Broadcast	
■ 470 - 830	
Frequencies (in MHz) for Studio / MI	
■ 470 - 830	
Frequencies (in MHz) for miscellaneous applications	
■ InEar and head-phones: 864	

Greece

Frequencies (in MHz)	max. RF output (in mW)
■ 790 - 822	■ 50
Frequencies (in MHz) for users from abroad	
■ 790 - 822, no official limitations	
Frequencies (in MHz) for broadcast applications	
■ UHF up to 750 MHz	
Frequencies (in MHz) for studio / MI applications	
■ UHF up to 750 MHz	
Frequencies (in MHz) for miscellaneous applications	
■ 450 - 750 MHz	

**Hungary**

Frequencies (in MHz)	max. RF output (in mW)
■ 146 - 149.9	■ 50
■ 216 - 222	■ 50
■ 470 - 862	■ 50
Frequencies (in MHz) for users from abroad	
■ 146 - 149.9	
■ 216 - 220	
■ 470 - 862	
Frequencies (in MHz) for broadcast applications	
■ 470 - 862	
Frequencies (in MHz) for studio / MI applications	
■ 470 - 862	
Frequencies (in MHz) for miscellaneous applications	

**Notes**

Foreign users may get preliminary approval from Basys

**Italy**

Frequencies (in MHz)	max. RF output (in mW)
■ 174 - 223	■ 50
■ 470 - 854	■ 50
Frequencies (in MHz) for users from abroad	
■ 174 - 223	
■ 470 - 854	
Frequencies (in MHz) for broadcast applications	
■ 470 - 854	
Frequencies (in MHz) for studio / MI applications	
■ 470 - 854	
Frequencies (in MHz) for miscellaneous applications	
■ 40.980 - 45.0	
■ Tourguide	

**Luxemburg**

Frequencies (in MHz)	max. RF output (in mW)
■ All UHF freqs.	■ 50
Frequencies (in MHz) for users from abroad	
■ All UHF freqs.	
Frequencies (in MHz) for broadcast applications	
■ All UHF freqs.	
Frequencies (in MHz) for studio / MI applications	
■ All UHF freqs.	
Frequencies (in MHz) for miscellaneous applications	
■ All UHF freqs.	
Notes	
Foreign users may inform at <a href="http://www.ilr.lu/">http://www.ilr.lu/</a> 2 months ahead	

**Netherlands**

Frequencies (in MHz)	max. RF output (in mW)
■ UHF	■ 50
Frequencies (in MHz) for users from abroad	
■ none	
Frequencies (in MHz) for broadcast applications	
■ No special frequencies	
Frequencies (in MHz) for studio / MI applications	
■ No special frequencies	
Frequencies (in MHz) for miscellaneous applications	

**Notes**

Frequencies for Netherlands

- Channel 21 to 31 ´
- Channel 41 to 60
- Channel 63
- Channel 64 to 67

All frequencies except Channel 63 have to shared with either analogue or digital TV and therefore wil not work in every part of the country.

- Ch 63 works throughout the country
- Ch. 65/67 share with DVB-T please check [www.agentschap-telecom.nl/dav/index.html](http://www.agentschap-telecom.nl/dav/index.html)
- Ch. 51/53 share with DVB-T please check [www.agentschap-telecom.nl/dav/index.html](http://www.agentschap-telecom.nl/dav/index.html)
- Ch. 22/24 share with DVB-T please check [www.agentschap-telecom.nl/dav/index.html](http://www.agentschap-telecom.nl/dav/index.html)
- Ch. 43/45 share with DVB-T please check [www.agentschap-telecom.nl/dav/index.html](http://www.agentschap-telecom.nl/dav/index.html)

**Norway**

Frequencies (in MHz)	max. RF output (in mW)
■ 41.3 - 43.5	
■ 800 - 820	■ 20
Frequencies (in MHz) for users from abroad	
■ 800 - 820	
Frequencies (in MHz) for broadcast applications	
■ 800 - 820	
■ 430 - 470 (reporter+com)	
Frequencies (in MHz) for studio / MI applications	
■ 800 - 820	
Frequencies (in MHz) for miscellaneous applications	
■ 800 - 820	
■ 863 - 865 (IEM)	

Poland

Frequencies (in MHz)	max. RF output (in mW)
■ 174 - 230	■ 10
■ 470 - 864	■ 10
Frequencies (in MHz) for users from abroad	
■ 174 - 230	
■ 470 - 864	
Frequencies (in MHz) for broadcast applications	
■ 734 - 822	
Frequencies (in MHz) for studio / MI applications	
■ 598 - 846	
■ 790 - 822	
Frequencies (in MHz) for miscellaneous applications	
■ 862 - 864 (10W) for ENG	

Portugal

Frequencies (in MHz)	max. RF output (in mW)
■ 774 - 822	■ 50
Frequencies (in MHz) for users from abroad	
■ Depends on application	
Frequencies (in MHz) for broadcast applications	
■ 782 - 806	
Frequencies (in MHz) for studio / MI applications	
■ 774 - 814	
Frequencies (in MHz) for miscellaneous applications	
■ 774 - 814	

Spain

Frequencies (in MHz)	max. RF output (in mW)
■ 174.1 - 179.3	■ 50
■ 863.1 - 863.9	■ 10
Frequencies (in MHz) for users from abroad	
■ 174.1 - 179.3	
■ 863.1 - 863.9	
Frequencies (in MHz) for broadcast applications	
■ 174.1 - 179.3	
■ 863.1 - 863.9	
Frequencies (in MHz) for studio / MI applications	
■ 174.1 - 179.3	
■ 863.1 - 863.9	
Frequencies (in MHz) for miscellaneous applications	
Notes	
470 - 863 MHz is used	

Sweden

Frequencies (in MHz)	max. RF output (in mW)
■ 800 - 814	■ 50
■ 863 - 865	
Frequencies (in MHz) for users from abroad	
■ 800 - 814 usually	
Frequencies (in MHz) for broadcast applications	
■ 800 - 814	
Frequencies (in MHz) for studio / MI applications	
■ 800 - 814	
■ 838 - 870	
Frequencies (in MHz) for miscellaneous applications	
■ 838 - 870 (IEM)	
Notes	
Foreign users can apply for any freq. 454-870 MHz	

Switzerland

Frequencies (in MHz)	max. RF output (in mW)
■ 174 - 223	■ 50
■ 470 - 862	■ 50
■ 863 - 865	■ 10
Frequencies (in MHz) for users from abroad	
■ 174 - 223	
■ 790 - 862	
■ 863 - 865	
Frequencies (in MHz) for broadcast applications	
■ 470 - 790	
Frequencies (in MHz) for studio / MI applications	
■ No special frequencies	
Frequencies (in MHz) for miscellaneous applications	
■ No special frequencies	
Notes	
470 - 790 MHz frequencies have to be confirmed by swiss official BACOM (tel.: xx41/323275511)	

Haftungsausschluss

Wir haben den Inhalt der Frequenztabellen auf der Grundlage der länderspezifischen Vorschriften und Gesetze erstellt. Dennoch können Abweichungen nicht ausgeschlossen werden, so dass wir für die vollständige Übereinstimmung keine Gewähr übernehmen. Diese Frequenzangaben werden regelmäßig überprüft und den gesetzlichen Änderungen angepasst. Updates unter [www.adamhall.com](http://www.adamhall.com)

Exclusion of liability

The frequency tables for the Frequency Finder were drawn up on the basis of national laws and regulations. The frequencies are checked on a regular basis, nevertheless, we cannot exclude discrepancies between our frequency suggestions and the frequencies actually approved in a given country. We therefore do not guarantee full compliance with national laws and regulations. Check updates [www.adamhall.com](http://www.adamhall.com)