



# CB RADIO AE 4200 MC

## OPERATING MANUAL



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## Important Note

Your Albrecht AE 4200 MC corresponds to the latest European CB standards. As a unique feature, the standard version has a software country switching which allows selecting the operation mode according to the country, where You intend to use the radio. Please make sure that You use only the country switching which is allowed in Your country and according to Your CB licence! **You may risk a penalty if authority members will find that You are operating in not allowed modes!**

***During first use of this radio, Your radio will start in this factory preselected 40 FM / 40 AM mode:***

- 40/40**      40 channels FM / 4 Watt, 40 channels AM / 1 Watt. Latest European Standard EN 300 433-2, but not yet applied in all countries. In Belgium, Italy, Spain and Switzerland You need a licence to operate the radio, while it is already free of charges and licence in Germany, Finland , France , the Netherlands and Portugal. ***For Spain, we have a special version which allows 4 Watts AM, but this version is only allowed to be used in Spain (You also need a licence from the local telecommunications authority for using the Spanish version). For some countries (A, FIN, L) special versions, limited to 40 channels are available.***
- 80/40**      80 channels FM / 4 Watt, 40 channels AM / 1 Watt for Germany only. You need no more any licence to operate the radio in this mode, but in certain border regions transmitting on channels 41 to 80 in FM is not allowed (or only with a special license).
- 40 FM**      40 channels FM / 4 Watt (former "CEPT" settings with 40 Channels FM according to EN 300 135-2). This mode can be used in nearly all European countries (some countries still request an individual licence, even for 40 FM mode! See our latest issue of the "Radio Passport").

Please note that radios with country switches are generally not allowed to be used in Austria, Finland, Luxembourg and Spain. The new EU member states have not yet implemented the European regulations. Please refer to official information of the local authorities before using the radio there.

## Introduction

Your new Albrecht CB Radio AE 4200 MC, developed and manufactured in accordance with the latest CB regulations, offers you:

- 40 channels FM / 4 watt     or
- 80 channels FM / 4 watt / 40 channels AM / 1 Watt     or
- 40 channels FM / 4 Watts / 40 channels AM / 1 Watt (4 Watts Spain version)
- Channel selection UP/ Down buttons on the radio
- Channel scan button at microphone
- Direct channel switching to CH 9 / 19 from microphone
- Blue LED channel number display
- Control LED's for switch position (FM) and TX
- 6-pin microphone socket, suitable also for amplifier microphones, selective calling systems or Packet Radio modems/TNC's
- Socket for external loudspeaker

Please read this operating manual through carefully. This will enable you to make use of all the functions your new CB Radio has to offer as soon as possible.

## Accessories included

Your AE 4200 MC comes operational with the following accessories:

- mobile mount
- 2 knurled screws for the mobile mount
- 2 rubber washers for the mobile mount
- fixed connected DC power cable with looped-in fuse
- spare fuse
- Electret hand-held microphone with pre-amplifier and PTT, CH 9/19 and SCAN buttons
- microphone hanger
- various screws to fasten the radio and microphone fixing devices
- User manual with circuit diagram and Radio Passport

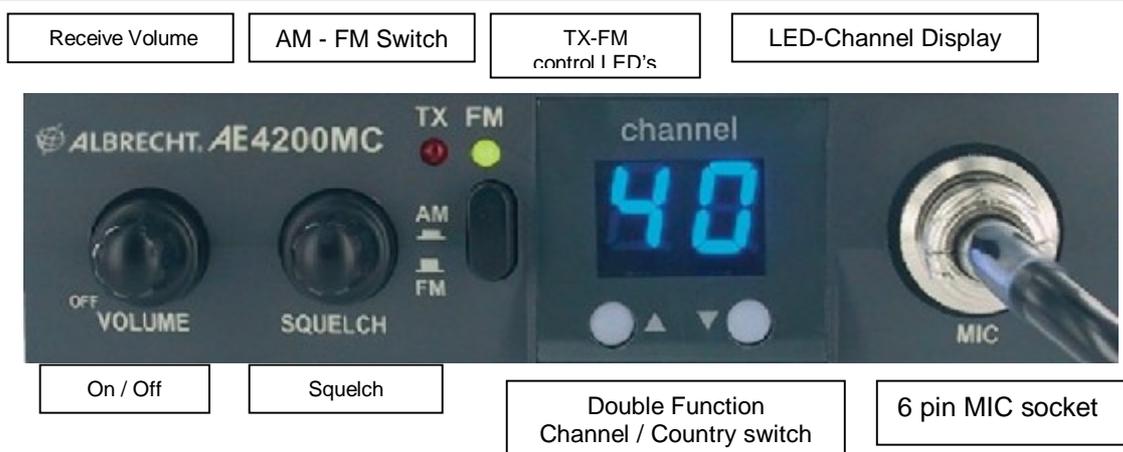
## Safety Precautions

People with pacemakers are recommended as a precaution to consult their doctor before operating the CB radio. Not all types of pacemakers are sufficiently protected from radiation from a nearby transmitter, so do not assume it is safe to start operation without checking! Please remember that you are in the immediate vicinity of a transmitting aerial, particularly when used as a mobile. If your doctor, or the manufacturer of the pacemaker, has recommended keeping a certain safe distance from the aerial, then please follow their instructions!

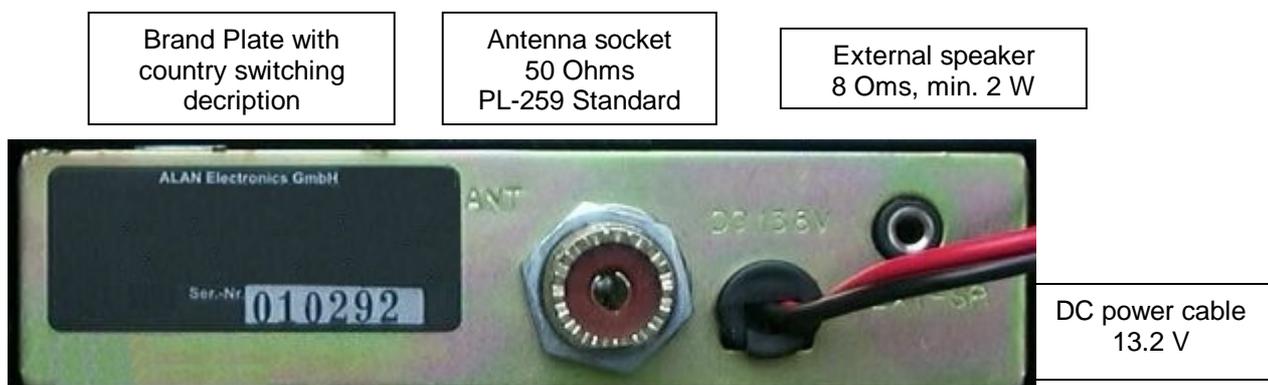
Do not transmit without connecting the aerial and never touch the aerial during transmission!

Please also take road safety into account! CB Radio (even when only receiving, particularly when volume is turned up) can divert your attention from the road! Road safety is of course to be given priority! Therefore only use your ALBRECHT AE 4200 MC when the traffic situation enables it to be used safely.

## Front view



## Rear view



## Installation of the radio

You can either operate your ALBRECHT AE 4200 MC in the car or at home as a base station. For installation as a mobile station in the car, a mobile mount device is enclosed. Mount the set in such a way that it is not exposed to direct sunlight if possible, as this would lead to an increase in the temperature and can decrease the (set's) working life. The set should also not be installed near a heater. Mount the set in such a way that it is exposed to as little vibration as possible.

The mobile fixing device should be attached to the dashboard, the tunnel slot or to any other suitable place using the enclosed tapping screws. Do not install the set in a place where it could cause injuries in the case of an accident (be careful to ensure free leg movement). Take care not to damage any underlying wires during installation!

Then insert the radio into the mobile mount device. Secure the set with the large knurled screws (using the enclosed plastic washers) firmly at the required angle.

Also mount the microphone hanger using the enclosed screws in an easily-accessible place.

In order to prevent interference to the vehicle electronics from transmission in the vehicle, please make sure to take any mounting instructions from the vehicle manufacturer for radios and antennas into account.

**Please note:** European directives allow the car manufacturers to decide, whether or not private radio transceivers may be operated in cars, this is also valid for antenna installations. Please install Your mobile CB station only in accordance to car manufacturer's installation instructions.

## Power supply

Your AE 4200 MC receives power from the 2 pin fixed power cable.

The red and black wires in the cable are for the power supply. The cable has a looped-in fuse.

You can choose from two methods when connecting to the power supply (red and black):

### Example 1

The radio should be able to be switched on and off at any time using the volume / on/off switch.

Connect up the red to the positive pole on the vehicle battery (or elsewhere in the vehicle's electrical system with permanent plus) or to a 12 volt power unit.

Connect up the black wire to the negative pole on the vehicle battery or the power unit or to a well-conductive part of the car body.

### Example 2

The set should be automatically switched on and off with the ignition switch of the car. The radio shall always start in last used mode on the last used channel.

Attach the red wire to a part of the vehicle electrical system which is interconnected to the ignition.

Connect the black wire to the negative pole on the battery or the vehicle body.

#### **Note for all connecting methods:**

For EMC reasons, the cable used to connect to the power supply should be no longer than 3 metres.

If you wish to operate your set at home from the mains supply then please only use a stabilised power pack with at least 2 amps permanent current-carrying capacity. Under no circumstances should you use a car battery charger, as these are not stabilised and during open circuit reach such high voltage levels that your radio set could be destroyed.

If in base station use it is important to you that the stored stations are kept even after switching off and on again, then please do not switch the external power supply power unit off when you switch your set off for a short time. Only use the on/off switch on the transceiver itself.

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Never repair a blown fuse with silver paper or with aluminium foil! If the fuses keep blowing, then please give your radio set to your servicing dealer to be repaired or hand it in to Albrecht's service station.

The maximum allowed voltage variation for this radio is up to 15.6 volts. Never exceed this voltage under no circumstances! The transmitting stages for your AE 4200 MC are electronically stabilised, and therefore it is impossible to increase output by means of excessive supply voltage. Such attempts may lead to serious damage to the radio set but will never increase output power!

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## **Antenna connection**

Connect your CB antenna to the ANT socket on the rear side of your ALBRECHT AE 4200 MC. Most CB antennas must be tuned to best radiation during installation to give highest effective communication range. CB specialists do that job with a standing wave meter to check and adjust the aerial. Tune the antenna to the best standing wave ratio (SWR) on an intermediate channel e.g. using Channel 1 in 80/12 mode (26.965 MHz) or Channel 20 in all other modes.

On this channel you should obtain a SWR of approx. 1.5 or less. If the SWR deteriorates on the highest (Channel 40) and lowest (Channel 41) channels up to a

value of 2.5, then your aerial is still acceptable. SWR above 3 is too bad for good communication range. A bad SWR may also indicate that there is perhaps an installation error or missing ground. Problems may be caused through missing ground, especially in boats and motor homes with fiber glass body. For these cases, Albrecht offers a special connecting cable with matching box as “artificial ground” (AKM 27), or ground less antennas like GL 27.

*Some antennas, like “Gamma II” are broadbanded and do not need any retuning during installations.*

***Even if your AE 4200 MC has a particularly robust transmitter high-level stage which can even withstand mismatching of SWR=3, you should still never transmit without an antenna!***

## Operation

### Before switching on

- Turn SQUELCH control left as far as possible

### Switching on and adjusting volume

The on/off switch is combined in the VOLUME control. To switch on:

- Turn VOLUME control from OFF position slightly right. LED display will be illuminated. Then turn further until desired volume is reached.

### Selecting the correct country code

#### Starting with 40 / 40 channel system

When You switch on Your new CB radio for the first time, it will start with the latest European channel setting with 40 channels FM and 40 channels in AM.

**Note:** this system is allowed in **B, CH, D, F, Fin, I, NL and P**

**40/40** This position can be used in those countries, where already all 40 international channels are allowed to be used in AM and FM. AM was traditionally used by CB from the beginning in the early 60's in USA, and it is still the preferred mode of all truck drivers in the world. Please use this mode only in countries according to the list in the Radio Passport, and please apply for an individual licence where requested.

If necessary You can return to this system any time later by:

- Switch the radio **off**
- Press **Down** button and keep button pressed
- Switch **on** the radio at the same time
- **Release** the button

### Switching to 80/40 channel system (Germany only)

**80/40** This position is only allowed to be used in Germany, because no other European country provides the German 80 FM channels. No individual licence is necessary, but restrictions are still in force in the border regions to other countries (except to Czechia), where transmitting on channels 41 – 80 is not allowed or only with a special licence.

- Switch the radio **off**
- Press **Up** button and keep button pressed
- Switch **on** the radio at the same time
- **Release** the button

### Switching to 40 Channels FM (the former CEPT system)

Europe-wide used 40 Channels FM mode. If You are not sure what is allowed in Your country please ask local authorities before using the radio. If You should not need any individual CB licence in Your home or guest country, You should use this country switching as Your setting:

**40 FM** This is former “CEPT” mode, the programming which is allowed in most countries (except Austria, Spain and Luxembourg). Here the radio works on the international 40 Channels in FM mode. The Mode switch AM – FM on the front side allows only receiving in AM and FM, but only transmitting in FM mode ( in some countries You need a licence, even for 40 CH FM only!)

#### ***To switch to this system***

- Switch **off** the radio
- Press **Up** and **Down** simultaneously and keep pressed
- Switch **on** the radio again
- Release buttons

***Please read carefully the “Radio Passport” in the last chapter of this manual before reprogramming the unit. Take your home country’s licence with You when travelling abroad and using 40/40 or 80/40 mode.***

**Note:** This radio utilises a CPU system especially developed for this radio. Other (illegal) channel systems are not stored in the CPU system and are not available at all.

### Selecting the operating channel

- with Up or Down buttons on the radio You can continuously select channels. The present channel is displayed.

- Press the respective button longer to run up or down through the channels. The present channel is displayed.

### Adjusting squelch (muting)

Particularly in FM, noise can be a nuisance on a free channel. With the muting control (SQUELCH) You can suppress this noise - but also signals which are too weak to be received properly.

This is how to adjust the signal strength required to switch on the loudspeaker, using the SQUELCH control knob:

The further the control knob is turned to the right, the stronger a signal has to be in order to be audible through the loudspeaker.

In order to adjust the set to be the most sensitive to incoming signals, switch to a free channel:

- Use the **up** / **down** switches to find a free channel, where no signal is displayed.
- Then turn the **SQUELCH** control carefully to the right until the noise just about disappears.

Now the loudspeaker stays off when on a free channel but it switches back on when receiving even very weak signals.

*The muting adjustment is particularly important during channel scanning. In this mode the point to which the set is adjusted decides whether scanning is stopped at the signal or not. Therefore you should test the various muting settings for various signal strengths and get to know this function.*

### AM / FM mode switch

In the German channel system 80/40 You can now receive on all 80 channels in FM and AM, but You can transmit on all these channels only in FM.

In AM the only channels 1-40 are enabled for transmitting. If You should try to transmit in AM on other channels, the LED will blink to warn You.

Transmission on such channels is technically deactivated. A green control LED is on during FM mode.

### Special interest channels

There are a few channels which have been established for certain purposes:

- |                  |                                                                                                                                                                                                                                                                                                      |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Channel 1</b> | Call channel in FM (Germany only)                                                                                                                                                                                                                                                                    |
| <b>Channel 9</b> | <b>Call and emergency channel</b> , in Germany particularly this channel is also used by all truck drivers in AM.<br>This means: a large number of stations are listening in. If the worst comes to the worst (e.g. in case of accident etc.) there is a good chance that someone will be listening. |

To call other stations, who you know are listening in on channel 9, you can also use this channel. Call up the desired station on channel 9. As soon as contact has been made, agree on a free channel for your conversation and then channel 9 will be free again for other calls.

An emergency channel can of course only work if as many stations as possible are listening in. Therefore listen in to this channel as often as possible!

<b>Channel 16</b>	Water sport channel
<b>Channel 19</b>	<b>Trucker channel</b> on AM in France, Spain and Italy
<b>Channel 24/25</b>	Data transfer (Packet Radio, Germany only)
<b>Channel 40</b>	<b>Calling channel in Switzerland</b>

Some recommendations have been worked out by the CB clubs for the new channels 41 to 80 in Germany. To find out which channels are suitable for special purposes, please get in touch with the respective groups or check in CB magazines.

### **Direct channel access key CH9/19**

Your transceiver has an extra button on the microphone which provides direct access to the most important channels 9 and 19 described in previous chapter.

You can toggle with the button between “normal” channel selected previously, CH 9, CH 19 and back again. Just press the button consequently.

### **Scan mode**

Your AE 4200 MC has an automatic channel scan, which can be used to observe all channels consequently.

First choose the mode (AM or FM). Adjust the muting control to the point at which the receiver should open (see also ‘Adjusting squelch’).

### **Start channel scan**

- Briefly press the button SCAN.
- Scan starts almost immediately by scanning all the channels upwards
- Scanning is stopped at each signal worth receiving and you can listen in to the conversation.

If you leave the set alone it will re-start a) after the communication on the channels has stopped or b) after about 5 seconds observation time, if the communication should last longer.

### **Stop channel scan**

- You can stop the scan at any time by pressing the SCAN button a second time.
- Pressing the transmission button will also automatically stop the scan modus.

### **Transmitting and correct use of microphone**

With the transmission button (Push To Talk) on the side of the microphone you can switch between receiving and transmitting:

- Press PTT button to transmit.

Your radio is equipped with a TX control LED, this will light when You are transmitting on an allowed channel in an allowed mode.

- Release PTT button again to switch back to receiving.

When the transmission PTT button is depressed, you can speak from a distance of about 5-10 cm into the microphone. After pressing the PTT button, please wait about ½ second before You start speaking. Please remember- that different from GSM phones- You share one channel common for transmit and receive, and Your transmitter and the receiver(s) on the distant side need a certain time to switch on. The modulation amplifier of your AE 4200 MC is sensitive enough and enables you in most cases to speak with even more distance, depending on how loud your voice is. An automatic regulator ensures that your partner always hears your signal at the same volume.

It is best to test the best distance from the microphone for yourself with the help of another station. Please note that there is a mic sensitivity potentiometer inside the microphone. Counter clockwise = full sensitivity, clockwise = less sensitivity.

## External sockets

### External loudspeaker

Depending on the surrounding noise, it can be advisable to hook up an external loudspeaker. Usual commercial radio loudspeakers with 4-8 ohms impedance and 2-4 W minimum output can be plugged in.

The cable can be up to 3 metres long. For car loudspeakers, make sure to use a two-pin 3.5 mm jack plug and ensure that none of the loudspeaker connections are attached to the vehicle chassis.

### Microphone socket

Your AE 4200 MC has an 6 pin microphone socket on the front side. To enable the additional functions, Scan and direct channel control 9/19 from the microphone, the socket has a special wiring only valid for this transceiver model.

Apart from the hand microphone included in the package, you can also hook up other microphones, with or without preamplifier, or with or without selective calling devices. According to the latest regulations you are also allowed to plug in modems or so-called TNC`s for data transfer (Packet Radio). However, other type of microphones must be specially soldered to the 6 pin connector and do not allow CH9/19 or Scan switching. Such other microphones must not use PIN 4 and 6 of the plug.

Please note that data transfer is only permitted on certain channels and only for non-commercial use and not in all countries.

## Service and Warranty information

### Troubleshooting

Check at first the power supply and the fuse. A problem may be caused through power supply, when no LED light appears after switching on. If the unit works in a strange way, disconnect the power supply cable (or take out the fuse from the holder), while the radio remains switched on, wait some time (minimum 10 seconds), and then reconnect power cord again.

Check the microphone and antenna connector. We think You cannot do more in case of a problem. Please ask Your dealer or consult our service hints in the Internet. If You should return the radio to Your dealer for repair, do not forget to describe the problem as exactly as possible.

### European 2 years warranty

The distributor, dealer or retail shop where You bought the radio warrants to the original retail purchaser of this product that should this product or any part of it, under normal use and conditions, be proven defective in material or workmanship within 2 years from the date of original purchase, such defect(s) will be repaired or replaced with new or reconditioned product without charge for parts and repair labor. To obtain repair or replacement within the terms of this warranty, the product is to be delivered with proof of warranty coverage (e.g. a copy of Your bill of sale), specification of defect(s), to the distributor, dealer or his authorised repair centre.

Liability for communications range of this product is disclaimed. The warranty does not apply to any product or part there of which, has suffered or been damaged through alteration, improper installation, mishandling, misuse, neglect, accident, or by removal or defacement of the factory serial number label(s). The warranty does not apply to accessory parts or problems caused through not authorised or not recommended accessories like other than the supplied microphone, external antennas, external power supplies and over voltage caused through external power supplies, lightning or over voltage defects via antenna or other cables, broken or damaged acrylic glass windows and cabinet parts.

Please contact the dealer or person where You have purchased Your CB radio.

### Where to find service hints and service documentation

The complete technical documentation is updated regularly. You can download the latest versions of user manuals, technical documents and conformity declaration, as well as service hints or FAQ's any time from our server under

**<http://www.albrecht-online.de/service>**

If You should have a problem, please have a look to the service hints or frequently asked questions (FAQ) before You send Your CB radio back to the service centre. Please note that the acceptance of AM+FM in the different European countries has just started and may be subject to unpredictable changes. Our homepage will provide the latest information about using the radio.

## Technical Details

### Microphone socket wiring

Pin 1	Mic audio
Pin 2	PTT-RX (on ground for receiving)
Pin 3	PTT-TX (on ground for transmit)
Pin 4	Scan key
Pin 5	Ground
Pin 6	Ch 9/19

### For Packet Radio & others

Pin 1	Transmit audio
Pin 2	Receive audio
Pin 3	PTT key
Pin 4	Do not connect!
Pin 5	Ground
Pin 6	Do not connect!

### Tip for specialists

Your AE 4200 MC package includes a preamplified electret microphone. In the microphone is a board on which the mic gain can be adjusted with a small screwdriver. The mic gain has been factory preset to medium position. If required, the gain can be adjusted as desired (counter clockwise = full sensitivity).

### Transmitter

Transmitting power	4 Watt FM 1 Watt AM
Modulation sensitivity	2.5 mV at >1 kOhm
Harmonic and spurious radiations	-90 dBc = 4 nW
Max. frequency deviation	less than 2.0 kHz
AM modulation degree	90%

### Receiver

Sensitivity (FM) (SINAD)	better + 3dbmV EMK for 20 dB
Sensitivity (AM) (SINAD)	better + 3dbmV EMK for 12 dB
Adjacent channel selection	better 60 dB (EN 300 135-1) better 48 dB (EN 300 433-1)
Intermodulation rejection	better 54 dB (EN 300 135-1) better 48 dB (EN 300 433-1)
Image rejection	better 48 dB (EN 300 433-1)
Audio output power	ca. 2 Watt to 8 Ohm load

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## Legal Information and Conformity Declaration

The radio may be used in European Countries only according to following information, which we publish as "Radio Passport". Because the number of countries allowing the new AM standard is changing, the latest version of this radio passport is published on our Internet Web server and may be downloaded any time. (<http://www.albrecht-online.de/service> or [www.hobbyradio.de](http://www.hobbyradio.de)) The version printed in this user manual has been issued December 19, 2005

### ALBRECHT RADIO PASSPORT AE 4200 MC

This **Standard Version** of this CB radio complies to the latest European regulations (R&TTE directive and European harmonised standards) and has been notified in the countries according to following table: (as of December, 2005), while only the special **Spanish Version** (4 W AM) is allowed to be used in Spain and **Limited 40 Channel Versions** are available especially for Austria, Finland, Luxembourg or Poland!

Country	Country switch position	Licence and operating conditions
<b>Operation only with individual licence</b>		
Belgium	40/40 and 40 FM	Residents in Belgium need licence
Great Britain (UK)	40 FM	Residents of UK need CB licence
Italy	40/40 and 40 FM	Licence and regular charges for all CB radios
Switzerland	40/40 and 40 FM	Licence and monthly charges
Spain	40/40 and 40 FM	Licence and regular charges ( <b>only Spain version!</b> )
<b>Operation without licence and charges allowed</b>		
Austria	40 FM	Free of licence and charges for all users, <b>only 40 CH-limited version allowed!</b>
Belgium	40FM 40/40	Free for short-time travellers up to 1 month Home country licence accepted for travellers
Denmark	40 FM	Free of licence and charges for all users
Finland	40/40 and 40 FM	Free of licence and charges for all users, <b>only 40/40 version allowed to be used</b>
France	40/40 and 40 FM	Free of licence and charges for all users
Germany	80/40, 40/40, 40 FM	Free of licence and charges for all users except in some border regions for base stations using channels 41-80 (except border to CZ).
Greece	40 FM	Free of licence and charges for all users
Hungary	40 FM	Free of licence and charges for all users
Iceland	40 FM	Free of licence and charges for all users
Ireland	40 FM	Free of licence and charges for all users
Luxembourg	40 FM	Free of licence and charges for all users, <b>only 40 CH-limited version allowed!</b>
Netherlands	40/40 and 40 FM	Free of licence and charges for all users
Norway	40 FM	Free of licence and charges for all users
Portugal	40 /40 and 40 FM	Free of licence and charges for all users
Sweden	40 FM	Free of licence and charges for all users
Switzerland	40 FM	Free of licence and charges for travellers
United Kingdom UK	40 FM	Free of licence and charges for travellers

**Important Note:** Please respect the licence conditions in the above listed countries and do not use the radio without licence, where necessary. For travelling with Your radio, we recommend to provide a copy of Your home country licence document and this Radio Passport together with the radio. The above list is based on public available information, while country specific requirements may change without notice during the harmonisation process in Europe, we recommend to ask local authorities before travelling.

## Declaration of Conformity / Konformitätserklärung



We hereby declare that our product: / Wir erklären hiermit, dass unser Produkt

### **CB-Radio Albrecht AE 4200 MC**

satisfies all technical regulations applicable to the product within the scope of EU Council Directives, European Standards and national frequency applications:/ alle technischen Anforderungen im Geltungsbereich der EU Richtlinien, europäischer Normen und nationaler Frequenzanwendungen einhält:

**73/23/EEC, 89/336/EEC and 99/5/EC**

**EN 300 135 -2 / EN 300 433-2**

**EN 301 489-1, EN 301 489-13, EN 60 950**

All essential radio test suites have been carried out. /

Alle für das Produkt vorgeschriebenen Funktestreihen wurden durchgeführt.

This declaration is issued under our sole responsibility. Basing on not harmonized frequency applications, the CB radio may be used only in listed countries according to selected channel programming. An **individual license** for operating this radios in AM+FM on 40/40 channels in **B, CH** and **I** is requested.

In **D** (where 80/12, 80/40, 40/12 or 40 / 40 FM/AM channels are allowed) , **F, FIN, NL** and **P** the CB operation on 40 / 40 channels in AM + FM is **free of license** and free of charges. If the radio is programmed to **40 FM** only, it may be used **without license** and free of charge in **D, DK, F, FIN, GB, GR, H, IRL, IS, L, N, NL, P, S** except Austria, Finland, Spain and Luxembourg, where radios with country switches are generally not allowed to be used, and Italy, where individual license is requested). Residents of Belgium, Switzerland and Great Britain (UK) need a CB license in their home country, while travellers from other European countries may use 40 CH FM during travelling in these countries free of licence and charges. In Belgium use of 40 channels AM is allowed for travellers under the conditions of their home country. In Spain, only the "Spanish version" of this radio is allowed to be used. Versions limited to 40 Channels are available for **FIN, L** and **A**.

Diese Erklärung wird unter unserer alleinigen Verantwortung abgegeben. Die oben genannten Funkgeräte dürfen wegen der nicht harmonisierten Frequenzanwendungen in AM+FM in den Ländern **B, CH, und I** nur mit gültiger **CB-Funkgenehmigung** benutzt werden. In **D** (max. 80 FM / 40 AM Kanäle), **F, Fin, NL** und **P** (40 / 40 Kanäle) ist der CB-Funk **anmelde- und gebührenfrei**. Dabei ist in Deutschland mit der Programmierung 80 FM der **ortsfeste** Sendebetrieb auf den Kanälen 41-80 in bestimmten Regionen entlang der Grenzen (außer zu CZ) nicht oder nur mit Sondergenehmigung gestattet.

Mit der Programmierung **40 FM** können die Geräte in **D, DK, F, FIN, GB, GR, H, IRL, IS, N, NL, P, S** (außer Finnland, Österreich, Spanien und Luxemburg, dort dürfen Funkgeräte mit Länderumschaltung zwar in Fahrzeugen eingebaut bleiben, aber nicht benutzt werden, und Italien, dort ist auch CB Funk auf 40 Kanälen FM genehmigungspflichtig) anmelde- und gebührenfrei benutzt werden. Bewohner von Belgien, Großbritannien und der Schweiz benötigen in Ihrem Heimatland eine Genehmigung (CB Lizenz). Die vorübergehende Benutzung von 40 Kanälen FM durch Reisende aus anderen europäischen Ländern ist in diesen Ländern jedoch auch anmelde- und gebührenfrei erlaubt. 40 AM ist in Belgien für Reisende erlaubt, wenn die Heimatbestimmungen dies gestatten (z.B. für Reisende aus Deutschland). In Spanien darf nur die „Spanische Version“ mit 40/40 Kanälen benutzt werden, ebenso gibt es Versionen ohne Länderschalter für **A, FIN, und L**.

**ALAN Electronics GmbH declara, bajo su responsabilidad, que este aparato cumple con lo dispuesto en la Directiva 99/05/CE, del Parlamento Europeo y del Consejo de 9 de marzo de 1999, transpuesta a la legislación española mediante el Real Decreto 1890/2000, de 20 de noviembre"**

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**Place and date of issue:**

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