



## **CB RADIO AE 6190 HD -X**

### **OPERATING MANUAL**

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## Important Note

Your Albrecht AE 6190 HD-X corresponds to the latest European CB standards. As a unique feature, it 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 the factory preselected 80 FM / 40 AM mode for sales in Germany (for sales in other countries the factory default start setting may be different) :***

- 80/40 dE** 80 channels FM / 4 Watt, 40 channels AM / 1 Watt for Germany, also for Czech Republic (only FM allowed to use and Slovak Republic (only FM on CH 1-40 and 70-80). You need no more any licence to operate the radio in this mode, but in certain German border regions CB base stations shall not transmit on channels 41 to 80 in FM, or they need a special license.
- 40/40 EU** 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 /Liechtenstein residents need a license to operate the radio, while it is free of charges for travellers, and in many other countries like Bulgaria, Germany, Estonia, Finland , France , Greece, Ireland, Latvia, the Netherlands, Poland, Portugal and Romania it is free for everybody.
- 40/40 E** 40 channels AM and FM for use in Spain with 4 Watts in AM and FM
- 40/40 Po** 40 channels AM and FM, both with 4 Watts and Poland frequency shift (-5 kHz) for use in Poland.
- 40 FM EC** 40 channels FM / 4 Watt (former "CEPT" settings with 40 Channels FM according to EN 300 135-2). This mode can be used in all European countries. See our latest issue of the "Radio Passport". For Austria your distributor can supply a special version (internally fixed) without country switch.

Please note that radios with country switches are generally not allowed to be used in Austria. Please refer to official information of the local authorities before using the radio in other countries outside EU.

## Introduction

Your new Albrecht CB Radio AE 6190 HD-X, 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 Watt / 40 channels AM / 1 Watt or
- 40 channels FM / 4 Watt / 40 channels AM / 4 Watt (Spain or Poland)
- Channel selection UP/ Down buttons on the radio and at the microphone
- Channel scan button at radio
- Direct channel switching to CH 9 at radio
- LCD wide-angle display for channels and status
- 6-pin standard microphone socket, suitable also for amplifier microphones, selective calling systems or Packet Radio modems / audio gateway connections
- 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 6190 HD-X comes operational with the following accessories:

- mobile mount
- fixed connected DC power cable with looped-in fuse
- Electret hand-held microphone with pre-amplifier and up / down buttons
- microphone hanger
- various screws to fasten the radio and microphone fixing devices
- User manual with Radio Passport

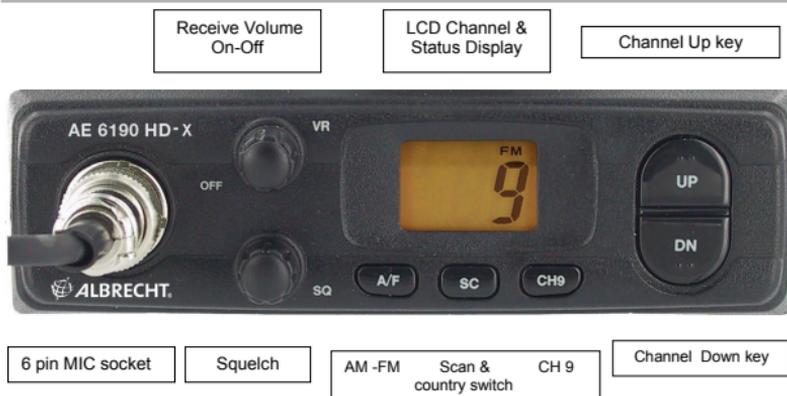
## Safety Precautions

Users 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 6190 HD-X 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 6190 HD-X 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 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 or truck manufacturers to decide, where, or even whether or not private radio transceivers may be operated in their 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 6190 HD-X 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. Any new installed radio starts (may depend on the country of sales) on CH 9 AM in the German country setting (80/40), when it will be connected for the first time to 12 V power.

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. The radio always keeps the last used settings in memory.

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. (Not all body ground positions are good for radio communication- in most cases the battery Minus is the best connecting position)

### Example 2

The set should be automatically be switched on and off with the ignition switch of the car. The radio will keep always the last used settings in memory, even at longer power disconnection.

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 supply with at least 2 amps permanent current 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.

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 an authorized service station.

The maximum allowed voltage variation for this radio is from 10.8 volts up to 15.6 volts. Never exceed the upper voltage limit under no circumstances! The transmitting stages for your AE 6190 HD-X 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!

## **Antenna connection**

Connect your CB antenna to the ANT socket on the rear side of your ALBRECHT AE 6190 HD-X. 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 (SWR) meter to check and adjust the aerial. Tune the antenna to the best standing wave ratio (SWR) on a medium channel number e.g. using Channel 1 in 80/40 mode (26.965 MHz) or Channel 20 (27.205 MHz) in all other modes. Truckers should prefer CH 9 for optimum alignment.

On this channel you should obtain a SWR of approx. 1.5 or less (the best possible value is 1.0). 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 6190 HD-X is a heavy duty transceiver with a high-level output stage which can even withstand mismatching of SWR=3, you should still never transmit without an antenna!***

## Operation

### Before switching on

- Turn **SQ** control left as far as possible

### Switching on and adjusting volume

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

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

### Selecting the correct country code

The factory default setting and the starting country setting (after connecting to Power) can vary depending on the sales country of this radio. Standard setting is the country setting Switching to 80/40 channel system ( D, CZ and SK only)

**80/40** This position is only allowed to be used in **Germany, Czech and Slovak Republic**, because no other European country provides the German 80 FM channels. (Note: In Czech Republic please use only FM and in Slovak Republic use only CH 1-40 and 70-80 in FM)

No individual licence is necessary, but restrictions are still in force **for base stations** in certain German border regions, where transmitting on channels 41 – 80 is not allowed or only with a special licence.

- Switch the radio **off**
- Press **SC** button (Scan) and keep button pressed
- Switch **on** the radio at the same time
- **Release** the button
- Now you can **select** the country setting between **dE, EU, EC, E** and **Po** with the **UP/DN** buttons.
- After selection, **confirm** your choice with the **SC** button

### Switching to 40 / 40 channel system

This setting is the European standard AM/FM system which allows 40 channels in AM and 40 Channels in FM as well. When this manual was issued, this system was allowed in **B, BG, CH, D, E, EST, F, Fin, FL, GR, I, IRL, LV, NL, P, PL, RO** and **RSM**.

**40/40 EU** 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 switch to this system any time by the above mentioned procedure. The country setting remains in memory until you will select another country setting later.

**40/40 E** In Spain, it is allowed to transmit with **4 Watts AM** (most other countries allow only 1 Watt in AM). If you travel in Spain, you can use the Spanish setting with "**E**" as country code

**40/40 Po** In Poland, it is allowed to use the European system **EU** and the former established Poland channel system **Po** as well. The Poland channels are all 5 kHz shifted below the international channels. The Poland system allows as well operation in **AM** with **4 Watt** power level, so most drivers in Poland prefer the **Po** country setting

Please note that it is not allowed to use **E** and **Po** settings in other countries.

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

There are still some countries which have not decided to allow AM for CB radios. So we offer the 40 Channels FM mode selectable in this radio. In any case, the 40 CH FM mode is allowed to be used in all European countries with the below mentioned exceptions. If you are not sure what is allowed in Your country please ask local authorities before using the radio. If you are in doubt, use the 40 CH FM country switching:

**40 FM** This is former "CEPT" mode, the programming which is allowed in most countries (except Austria). 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.

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

- Switch **off** the radio
- Press **SC** simultaneously and keep pressed
- Switch **on** the radio again
- Release buttons, select **EC** and confirm with **SC**

In Austria, the authorities do not allow the use of any CB radios which have a country switch. If you should travel through Austria, you are allowed to leave the radio in your car or truck, but you must keep this radio switched off when driving through Austria. For sales and use in Austria we offer a special 40 CH FM version of this model without country switch (on request).

**Please read carefully the "Radio Passport" or the "Circulation Card" in the last chapter of this manual before reprogramming the unit. Take your home country's licence or the Circulation Card 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 (**SQ**, 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 **SQ** 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 / DN** switches to find a free channel, where no signal is displayed.
- Then turn the squelch control **SQ** 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 German channels 41 to 80. 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**

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

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

### **Scan mode**

Your AE 6190 HD-X 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 **SC**
- 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 **SC** 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 6190 HD-X 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 recommended to test the best distance from the microphone for yourself with the help of another station.

## 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 6190 HD-X has an 6 pin microphone socket on the front side. To enable the additional UP/DN function, the socket has a special wiring at PIN 4 which may be different from simple replacement microphones.

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 PC sound cards for data transfer (Packet Radio or Audio Gateway). However, other type of microphones must be specially soldered to the 6 pin connector and do not allow UP or DOWN switching. Such other microphones must not use PIN 4 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.

Another method is to make a "Factory Default " reset. This reset may also reset the country switching and the last channel used- the radio just starts again like a brand new radio which had not yet been connected.

- Switch the radio off
- Press **CH 9** button and keep it pressed during **switching the radio on**
- Release button
- The display shows **rS** and after a short time the radio starts again on CH 9 AM

In most cases the functions of the radio will be restored now.

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 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 labour. 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 the CB radio, or contact our repair service in Germany directly.

### **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.service.alan-electronics.de>**

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 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	up and down keys
Pin 5	Ground
Pin 6	+ voltage for mic-power if needed

### 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!

### Transmitter

Transmitting power	4 Watt FM all country settings 1 Watt AM <b>EU</b> / 4 Watt AM <b>E/Po</b>
Modulation sensitivity	better than 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 + 3db $\mu$ V EMK for 20 dB
Sensitivity (AM) (SINAD)	better + 3db $\mu$ V 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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 Service-Download: [www.hobbyradio.de](http://www.hobbyradio.de)

## 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.service.alan-electronics.de> or [www.hobbyradio.de](http://www.hobbyradio.de)) The version printed in this user manual has been issued in December 2009.



# ALBRECHT®

### ALBRECHT RADIO PASSPORT AE 6190 HD-X

This **international version** and the **FM only version** of this CB radio comply 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 2009).

Country	Country switch position	Licence and operating conditions
<b>Operation only with individual licence</b>		
Austria	40 FM	Austria does not accept radios with country switches, please do not use in Austria or ask Your dealer for a limited 40 CH FM version
Belgium	40/40 and 40 FM	Residents in Belgium need licence
Italy and San Marino	40/40 and 40 FM	Licence and regular charges for residents
Switzerland and Liechtenstein	40/40 and 40 FM	Licence and monthly charges for residents
Spain	40/40 and 40 FM	Licence and regular charges for residents
<b>Operation without licence and charges allowed</b>		
Belgium	40FM 40/40	Free for short-time travellers up to 1 month Home country licence /Circulation Card accepted for travellers
Czech Republic	80/40 switch position	Free of licence and charges for all users, but AM channels are not allowed to be used
Denmark / Lithuania	40 FM	Free of licence and charges for all users
Finland	40/40 and 40 FM	Free of licence and charges for all users (travellers with Circulation Card)
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
Greece	40 FM and 40 AM	Free of licence and charges for all users
Hungary	40 FM	Free of licence and charges for all users
Cyprus	40 FM	Free of licence and charges for all users
Iceland	40 FM	Free of licence and charges for all users
Ireland	40 FM and 40 AM	Free of licence and charges for all users
Luxembourg, Malta	40 FM	Free of licence and charges for all users
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
Bulgaria, Estonia, Latvia, Poland, Portugal and Romania	40 /40 and 40 FM	Free of licence and charges for all users
Slovak Republic	40 FM + CH 70-80 FM 80/40 switch position	Free of license and charges for all users, German setting allowed – Use of AM forbidden
Spain	40 FM and 40/40	Free of licence and charges for travellers with Circulation Card
Slovenia, Sweden	40 FM	Free of licence and charges for all users
Switzerland and Liechtenstein	40 FM and 40/40	Free of licence and charges for travellers with Circulation Card
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.

## Declaration of Conformity / Konformitätserklärung



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

### CB-Radio Albrecht AE 6190 HD - X

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 enthält:

**73/23/EEC (LVD) , 2004/108/EG (EMC) and 99/5/EC (R&TTE)**  
**EN 300 135- 2 V1.2.1 / EN 300 433- 2 V1.1.2**  
**EN 301 489-1 V 1.8.1, EN 301 489-13 V 1.2.1, EN 60 950-1:2006**

All essential radio test suites have been carried out. /  
 Alle für das Produkt vorgeschriebenen Funktestreihen wurden durchgeführt.

**Alan Electronics GmbH**  
**Daimlerstr. 1 k**  
**D- 63303 Dreieich**

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

In **D**, where 80/12, 80/40, 40/12 or 40/40 FM/AM channels are allowed, **CZ** (only 80 FM), **SK** (only FM 1-40 & 70-80), **BG, EST, F, FIN, GR, IRL, LV, NL, PL, P** and **RO** the operation on 40 / 40 channels in AM and FM is free of licence and free of charges. If the radio is programmed to **40 FM only**, it may be used without license and free of charge in **all EU member states + N, IS**, but not in **Austria**, where radios with country switches are generally not allowed to be used.

Residents of Belgium, Spain, Switzerland, Liechtenstein, Italy and San Marino need a CB license in their home country, while travellers from other European countries may use 40 CH AM and FM during travelling in these countries free of license and charges. For AM+FM, the "Circulation Card" is necessary when travelling to Spain, Switzerland and Liechtenstein.

Diese Erklärung wird unter unserer alleinigen Verantwortung abgegeben. Dieses Funkgerät darf wegen der nicht harmonisierten Frequenzanwendungen in **AM + FM** in den Ländern **B, CH, E** und **I** von Bewohnern nur mit gültiger **CB Funkgenehmigung** benutzt werden. In **D** (80 FM, max 40 AM), **CZ** (nur 80 FM), **SK** (nur 1-40 und 70-80 FM), **BG, EST, F, FIN, GR, IRL, LV, NL, P** und **RO** (40/40) ist der CB Funk anmelde- und gebührenfrei. Dabei ist in Deutschland ist mit der Programmierung **80/40 der ortsfeste** Sendebetrieb auf den Kanälen 41 - 80 in bestimmten Regionen entlang der Grenzen der Bundesrepublik Deutschland (außer zu CZ) nicht oder nur mit Sondergenehmigung gestattet, in Tschechien darf nur FM (80 Kanäle) benutzt werden, und in der Slowakei FM auf den Kanälen 1-40 und 70-80.

Mit der Programmierung **40 FM** darf dieses Gerät in **allen EU Mitgliedsstaaten + Island, Norwegen (außer Österreich, dort ist der Betrieb von CB Funkgeräten mit Länderumschaltung generell nicht erlaubt)** anmelde- und gebührenfrei betrieben werden. Bewohner von Belgien, der Schweiz, Liechtenstein Italien, San Marino und Spanien benötigen in ihrem Heimatland eine Genehmigung (CB-Lizenz). Die vorübergehende Benutzung von 40 Kanälen AM und FM durch Reisende aus anderen europäischen Ländern ist jedoch in diesen Ländern anmelde- und gebührenfrei erlaubt. Mitführen der Circulation Card für Reisende aus Deutschland ist notwendig bei Reisen nach Spanien, der Schweiz und Liechtenstein, wenn dort neben FM auch AM benutzt werden soll.

**Alan Electronics GmbH declare, bajo su responsabilidad, que este aparato cumple con lo dispuesto en la Directiva 9/05/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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 (Signature)

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Diese Konformitätserklärung und der Albrecht Gerätepass werden regelmäßig aktualisiert und sind unter [www.hobbyradio.de](http://www.hobbyradio.de) in der jeweils gültigen neuesten Version abrufbar.