



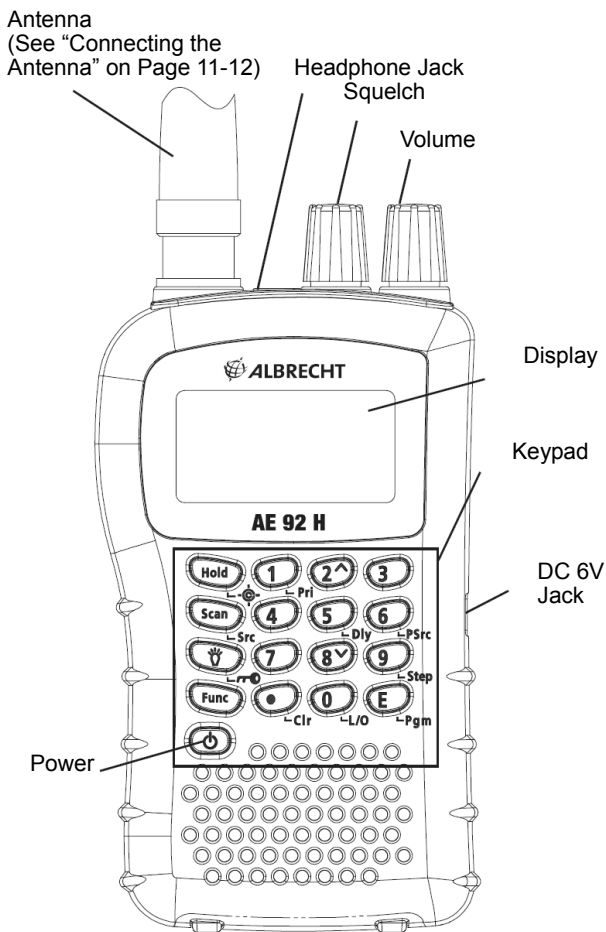
# AE 92 H

## Scanning Receiver



[www.albrecht-online.de](http://www.albrecht-online.de)

## AE92H Controls and Display



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## Introduction

Thank you for purchasing an Albrecht AE92H handheld Scanner. The scanner is versatile, compact, and easy to use. You can program up to 200 frequencies into the scanner's memory. The scanner lets you scan transmissions and is preprogrammed with often used frequency bands for your convenience. In addition to its standard scanning features, your scanner also includes the latest **Close Call™** RF capture technology, designed to help you detect and identify strong local radio signals in your area.

## Precautions

Before you use this scanner, please read and observe the following.

### Earphone Warning

Use only an original Albrecht earphone. An incorrect earphone may be hazardous to your hearing.

Turn down volume before connecting the earphone and then adjust volume to suit.

### Safety Warning

Albrecht does not declare this unit to be waterproof. To reduce the risk of fire or electrical shock, do not expose this unit to rain or moisture.

Trademarks used throughout this manual are the property of their respective holders.

### Legal notes:

Depending on national regulations, it can be restricted to listen to certain public or private radio services. All users are requested to gather the necessary information about radio services and their protections and privacy. In some countries unauthorized monitoring of transmissions may be even regarded and prosecuted as a crime.

This table lists the frequency ranges, default frequency step, default mode (AM or FM), and type of transmissions you can hear for each range. The scanner has 3 Band Plans, which are useful for major regions in Europe. Band Plan 2 is optimized for Germany.

<b>Frequency ranges Band Plan 1</b>			
<b>Frequency Range MHz</b>	<b>Steps</b>	<b>Radio Service</b>	
25.0000 - 29.9950	5 kHz	CB, 10 m	
30.0000 - 79.9875	12.5 kHz	VHF Low Band	
80.0000 - 82.9900	10 kHz	VHF Low Band	
83.0000 - 87.2625	12.5 kHz	VHF Low Band	
108.0000 - 136.9875	12.5 kHz	Air Band (old)	
can be switched with <b>func + step</b> to:			
108.0000 - 136.9916	8.33 kHz	Air Band (new)	
138.0000 - 157.9875	12.5 kHz	2 m Band	
158.0000 - 160.5900	10 kHz	VHF High Band	
160.6000 - 162.5875	12.5 kHz	VHF High Band	
162.6000 - 173.9900	10 kHz	VHF High Band	
406.0000 - 439.99375	6.25 kHz	70 cm Band	
440.0000 - 465.9950	5 kHz	UHF PMR Band	
466.0000 - 469.9900	10 kHz	UHF PMR Band	
470.0000 - 512.0000	6.25 kHz	UHF "T" Band	
806.0000 - 960.0000	12.5 kHz	Public Service Band	

<b>Frequency ranges Band Plan 2</b>			
<b>Frequency Range MHz</b>	<b>Steps</b>	<b>Radio Service</b>	
25.0000 - 84.0100	5 kHz	CB, 10 m, 6m Bands	
84.0150 - 87.2550	20 kHz	4 m Band BOS	
108.0000 - 136.9875	12.5 kHz	Air Band (old)	
can be switched with <b>func + step</b> to:			
108.0000 - 136.9916	8.33 kHz	Air Band (new)	
137.0000 - 143.9950	5 kHz	Military VHF radio	
144.0000 - 145.9875	12.5 kHz	2m Amateur Band	
146.0000 - 155.9900	10 kHz	VHF PMR Band	
156.0000 - 162.0250	12.5 kHz	VHF Marine Band	
162.0300 - 173.9900	10 kHz	VHF PMR Band	
406.0000 - 439.99375	6.25 kHz	70 cm Band	
440.0000 - 449.99375	6.25 kHz	PMR incl. PMR 446	
450.0000 - 469.9900	10 kHz	UHF Band PMR	
470.0000 - 512.0000	6.25 kHz	UHF High Band	
806.0000 - 960.0000	12.5 kHz	Audio & Cordless Phones	

Frequency ranges Band Plan 3		
Frequency Range MHz	Steps	Radio Service
25.0000-29.995	5 kHz	CB and 10 m Band
30.0000-87.2650	5 kHz	VHF Low Band
108.0000 – 136.9875	12.5 kHz	Air Band (old)
can be switched with <b>func + step</b> to		
108.0000 – 136.9916	8.33 kHz	Air Band (new)
138.0000 – 157.9950	5 kHz	2 m Band
158.0000 – 173.9950	5 kHz	VHF High Band
406.0000 – 439.99375	6.25 kHz	70 cm Band and LPD
440.0000 – 465.99375	6.25 kHz	PMR incl. PMR 446
466.0000 – 469.99375	6.25 kHz	UHF PMR Band
470.0000 – 512.0000	6.25 kHz	UHF High Band
806.0000 – 960.0000	12.5 kHz	Audio & Cordless Phones

To switch the band plan between 1, 2 or 3;

- Make sure the power is turned off.
- While holding down **1**, **2** or **3** key (depending on Band Plan number), turn on the scanner.

**Note:** Please carry out a memory initialization (Reset, see page 29) after band plan was changed.

## Feature Highlights

**Close Call™** - RF Capture Technology - you can set the scanner so it detects and provides information about nearby radio transmissions. See "Close Call™ RF Capture Technology" starting on page 19 for more information.

**Chain Search** - lets you enter personal search bands in 10 locations and search all locations in a chain of frequency bands.

**Triple-Conversion Circuitry** - virtually eliminates any interference from IF (intermediate frequency) images, so you hear only the selected frequency.

**Channel-Storage Banks** - the scanner has 10 banks. You can store up to 20 frequencies into each bank (for a total of 200 frequencies), so you can more easily identify calls.

**Two-Second Scan Delay** - delays scanning for about 2 seconds before moving to another channel, so you can hear more replies that are made on the same channel.

**Lock-Out Function** - lets you set your scanner to skip over specified channels or frequencies when scanning or searching.

**Priority Channels** - lets you program one channel in each bank (10 in all) and then have the scanner check that channel every 2 seconds while it scans the bank, so you do not miss

transmissions on those channels.

**Key Lock** - lets you lock the scanner's keys to help prevent accidental changes to the scanner's programming.

**Direct Access** - lets you directly access any channel.

**Display Backlight** - makes the scanner easy to read in low-light situations.

**Flexible Antenna with BNC Connector** – provides adequate reception in strong signal areas and is designed to help prevent antenna breakage. Or, you can connect an external antenna for better reception.

**Memory Backup** - keeps the frequencies stored in memory for an extended time if the scanner loses power.

**Two Power Options** - let you power the scanner using internal batteries or external AC power using the included AC adapter.

**Key Confirmation Tones** - the scanner sounds a tone when you perform an operation correctly, and an error tone if you make an error.

**Battery Low Alert** - warns you when battery power gets low.

## About this Manual

The screen displays used in this manual are representations of what might appear when you use your scanner. Since what you see depends on the frequencies for your area and the settings you select, you might notice some differences between what is in this manual and what appears on your scanner.

To get the most from this manual, review the contents to become familiar with the basic functions available. If you are new to scanning, be sure to read the next chapter for a quick background on the technology behind the hobby. The first thing you'll need to do is install batteries in the scanner. Then you need to connect the included antenna to the scanner. See "Using Internal Batteries" on Page 9/10 and "Connecting the Antenna" on Page 12 if you need any help doing this.

## Understanding Scanning

This section provides you with background on how scanning works. You don't really need to know all of this to use your scanner, but some background knowledge will help you get the most from your AE92H.

### What is Scanning?

Unlike standard AM or FM radio stations, most two way communications do not transmit continuously. Your AE92H scans programmed channels until it finds an active frequency, then stops on that frequency and remains on that channel as long as the transmission continues. When the transmission ends,

the scanning cycle resumes until the scanner receives another transmission.

### **What is Searching?**

The AE92H can search for active frequencies. This is different from scanning because you are searching for frequencies that have not been programmed into the scanner. When you select frequency bands to search, the scanner searches for any active frequency within the lower and upper limits you specify. When the scanner finds an active frequency, it stops on that frequency as long as the transmission lasts. If you think the frequency is interesting, you can program it into one of the banks. If not, you can continue to search.

### **Conventional Scanning**

Conventional scanning is a relatively simple concept. Each group of users in a conventional system is assigned a single frequency (for simplex systems) or two frequencies (for repeater systems). Any time one of them transmits, their transmission always goes out on the same frequency. Up until the late 1980's this was the primary way that radio systems operated.

Even today, there are many 2-way radio users who operate using a conventional system:

- Aircraft
- Amateur radio
- PMR users
- Broadcast AM/FM/TV stations
- Many other business radio users

When you want to store a conventional system, all you need to know is the frequencies they operate on. When you are scanning a conventional system, the scanner stops very briefly on each channel to see if there is activity. If there isn't, the scanner quickly moves to the next channel. If there is, then the scanner pauses on the transmission until it is over.

### **Simplex Operation**

Simplex systems use a single frequency for both transmit and receive. Most radios using this type of operation are limited to line-of-sight operation. This type of radio is frequently used at construction job sites, and with inexpensive consumer radios such as PMR radios. The range is typically 1.5-12 km, depending upon the terrain and many other factors.

### **Repeater Operation**

Repeater systems use two frequencies: one transmits from the radio to a central repeater; the other transmits from the repeater to other radios in the system. With a repeater-based system, the repeater is located on top of a tall building or on a radio tower that provides great visibility to the area of operation. When a user transmits (on an input frequency), the signal is picked up by the repeater and retransmitted (on an output frequency). The user's radios always listen for activity on the output frequency and transmit on the input frequency. Since the repeater is

located very high, there is a very large line of sight. Typical repeater systems provide coverage out to about a 40 km radius from the repeater location.

### **Where to obtain more information**

By itself, this manual really only provides part of what you need to know to have fun scanning-how to program and use the scanner.

### ***Information on the Internet***

The Internet is a great source for current frequencies and information about scanning.

Many web sites have lists of frequencies for your area. You can use a search engine to find and use them.

Make a list of the agencies you want to listen to, then look up the frequencies and systems used by those agencies.

### **Included with Your Scanner**

- Owner's Manual
- Scanner and Antenna
- Belt Clip (with 2 screws)
- 230 V wall Adapter
- Battery set ( 2 pcs NiMH )

**Note:** If any of these items are missing or damaged, contact your place of purchase.

### **Setting Up Your Scanner**

These guidelines will help you install and use your new scanner:

- If your scanner receives interference or electrical noise, move the scanner or its antenna away from the source.
- To improve the scanner's reception, use an optional external antenna designed for multiband coverage. (You can purchase this type of antenna at a local electronics store). If the optional antenna has no cable, use 50 Ohm coaxial cable for lead-in. A mating plug might be necessary for the optional antennas.
- Use an optional mono earphone or mono headset with proper impedance for private listening. Read the precautions on the inside front cover of this Owners Manual.
- Do not use the scanner in high-moisture environments such as the kitchen or bathroom.
- Avoid placing the scanner in direct sunlight or near heating elements or vents.

## Using Internal Batteries

You can power your scanner using the supplied rechargeable NiMH batteries ( 2 x AA).

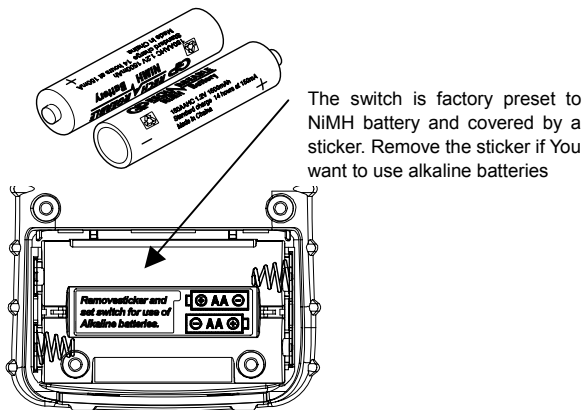
## Using Rechargeable Batteries

Before you use NiMH or NiCd batteries the first time, you must charge them. It may happen, that the first battery charging may not reach the full capacity, but the final capacity will be ok after at least 2-3 times charging.

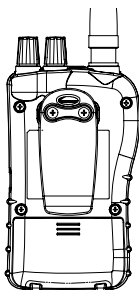
The scanner has a built-in circuit that lets you recharge NiMH or NiCd batteries while they are in the scanner.

To charge the batteries;

1. Make sure the power is turned off.
2. Slide the battery compartment cover.
3. Install two batteries in the compartment as indicated by the polarity symbols (+ and -) marked inside.



4. Replace the cover.



5. Connect the supplied AC adapter to the scanner's DC 6 V

socket to charge the batteries at least for some hours before first time use.

### Using Non-Rechargeable Batteries

You can also use two alkaline batteries to power your scanner. Before you use alkaline batteries, you must remove the sticker in the compartment and move the switch below the sticker to **REG. ALK. BATT.** position.

#### Notes:

- Use only fresh batteries of the required size and recommended type.
- Always remove old or weak batteries. Batteries can leak chemicals that destroy electronic circuits.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.

#### **WARNING!**

Do not connect any AC/DC power adapter to the scanner if non rechargeable batteries (such as alkaline batteries) are installed in the scanner and the battery switch is set to **NI-MH BATT position** (this is the default setting with the sticker), or if you are not sure about the actual switch position. Non-rechargeable batteries can get hot and can even burst if you try to recharge them.

Before you use NiMH or NiCd batteries for the first time, charge them for 16 hours to bring them to a full charge.

Discharged batteries take about 16 hours to fully recharge.

#### Notes:

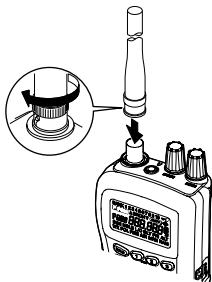
- NiMH batteries last longer and deliver more power if you occasionally let them fully discharge. To do this, simply use the scanner until it beeps every 15 seconds and **BATT** flashes.
- To prevent damage to NiMH batteries, never charge them in an area where the temperature is above 45°C or below 4°C.
- If you connect an external power source to the scanner with the battery switch set to **REG. ALK. BATT.**, the scanner does NOT charge the batteries. Make sure that you use the correct batteries and set switch **REG. ALK. BATT./ NI-MH BATT.** to the correct position when you connect an external power source.
- For longer operation, you can also use high capacity NiMH batteries to power the scanner. This type of battery takes longer to recharge. You can get high-capacity NiMH batteries at your local electronics store.

### Using AC Power

You can power the scanner using the supplied 6V, 500 mA AC adapter. To use the scanner on AC power, plug the AC adapter into DC 6V on the side of the scanner then plug the other end into a standard AC outlet. If rechargeable batteries are installed

without removing the sticker, or, after removing, make sure that the battery switch is correctly set to **NI-MH BATT.**, Only in this position the adapter can power the scanner and recharges the installed batteries at the same time.

## Connecting the Antenna



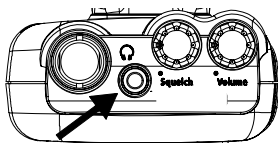
To attach the supplied flexible antenna to the connector on the top of your scanner, align the slots around the antenna's connector with the tabs on the scanner's BNC connector. Then slide the antenna's connector down over the scanner's connector and rotate the antenna connector's outer ring clockwise until it locks into place.

## Connecting an Optional Antenna

The scanner's BNC connector makes it easy to connect a variety of optional antennas, including an external mobile antenna or outdoor base station antenna.

**Note:** Always use 50-ohm, RG-58, or RG-8, coaxial cable to connect an outdoor antenna. If the antenna is over 15 m from the scanner, use RG-213/U or "air cell" type low loss coaxial cable. You can get a BNC adapter at your local electronics store.

## Connecting an Earphone/ ext. Speaker



For private listening, you can plug a 3.5 mm mini plug earphone or mono or stereo headphones (not supplied) into the headphone jack on top of your scanner. This automatically disconnects the internal speaker.

## Connecting an Extension Speaker

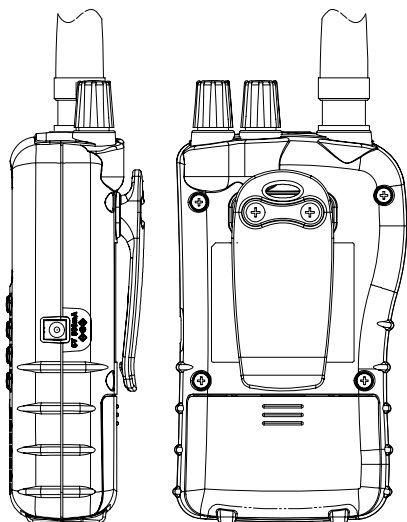
In a noisy area, an optional extension speaker, positioned in the

right place, might provide more comfortable listening. Plug the speaker cable's 3.5- mm mini-plug into your scanner's jack. For larger audio power, active speakers (like used for PC's) are recommended.

### **WARNING!**

If you connect an external speaker to the scanner's headphone jack, never connect the audio output line to a power supply and ground. This might damage the scanner.

### **Attaching the Belt Clip**



To make your scanner easier to carry when you are on the go, use the supplied belt clip. Use a Phillips screwdriver and the supplied screws to attach the clip to the scanner.

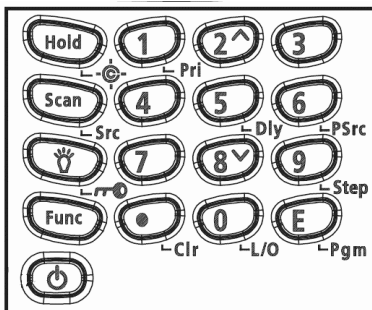
### **About Your Scanner**

We use a few simple terms in this manual to explain the features of the scanner. Familiarize yourself with these terms and the scanner's features, and you can put the scanner to work for you right away. Simply determine the type of communications you want to receive, then set the scanner to scan those communications.

A frequency, expressed in kHz or MHz, is the tuning location of a station. To find active frequencies, you use the search function or refer to a frequency reference.




When you search and find a desired frequency, you can store it into a programmable memory location called a channel. Channels are grouped into channel-storage banks. The scanner has 10 channel-storage banks and each bank has 20 channels. You can scan the channel-storage banks to see if there is activity on the frequencies stored there.

## A Look at the Keypad





Your scanner's keys have various functions labeled on the key tops and below the keys.

To select the function labeled on a key, simply press the key. To select the function labeled below a key:

- First press **Func** then release it.  appears on the display.
- Then press the next key in the function key sequence while  appears.
-  appears or disappears as you press **Func**.

If your scanner's keys seem confusing at first, the following information should help you understand each key's function.

Key Name	Description
Hold / 	<b>Hold</b> – Holds the scan or the frequency search. Press and hold <b>Hold</b> to increment channels continuously.
Func + 	switches between the 3 Close Call operation modes
<b>Scan/Src</b>	<b>Scan</b> – Scans the stored channels. <b>Func + Src</b> – Starts chain search or resumes searching.



turns the display backlight on or off.

**Func +**

locks and unlocks the keypad.

**Func**

Lets you use various functions by pressing this key in combination with other keys.



Press and hold for more than 2 seconds to turn the scanner on or off.

**1/Pri**

**1** – Enters “1”.  
**Func + Pri** – Sets and turns the priority function on or off.

**2/**

**2** – Enters “2”.  
**Func +**  – Selects the search direction.

**3**

**3** – Enters “3”.

**4**

**4** – Enters “4”.

**5/Dly**

**5** – Enters “5”.  
**Func + Dly** – Sets and turns the delay function on or off.

**6/PSrc**

**6** – Enters “6”.  
**Func + PSrc** – Sets and turns program band select mode on or off.

**7**

**7** – Enters “7”.

**8/**

**8** – Enters “8”.  
**Func +**  – Selects the search direction.

**9/Step**

**9** - Enters “9”.  
**Func + Step** – Change Step to 12.5kHz or 8.33kHz in Air Band.

**/Clr**

– Enters a decimal point “.”  
**Clr** – Clears a frequency you entered by mistake.

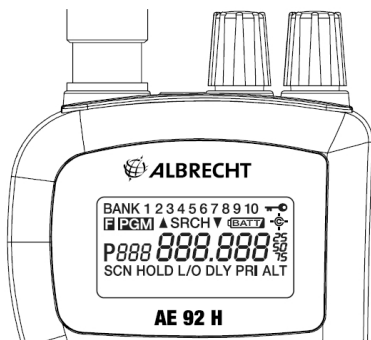
**0/L/O**

**0** – Enters “0”.  
**Func + L/O** – Lets you lock out a selected channel or skip a specified frequency.

**E/Pgm**

**E** – Enters frequencies into channels.  
**Func + Pgm** – Lets you program the frequency.

## A Look at the Display



The display has indicators that show the scanner's current operating status. The display information helps you understand how your scanner operates.

**BANK** appears with numbers (1-10).



appears when you lock the keypad.

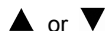


appears only when the function mode is on.



appears while you store a frequency into a channel.

**SRCH** appears during search mode.



**Func + ▲ or ▼** appears during search mode.



alerts you when the battery power gets low.

**P** appears when you select a priority channel.



appears when scanner is in Close Call operation mode

**SCN** appears when you scan channels.

**HOLD** appears during scan hold mode and search hold mode.

**L/O** appears when you manually select a channel you locked out or a skip frequency.

**DLY** appears when you select a delay.

**PRI** appears when the priority feature is turned on.

**ALT** appears when the Close Call alert beep sounds while the Close Call function is on.

## Understanding Banks

### **Channel-Storage Banks**


To make it easier to identify and select the channels you want to listen to, the 200 channels are divided into 10 channel-storage banks. Each bank has 20 channels. Use each channel-storage bank to group frequencies, such as those for the amateur radio, air crafts, police, fire brigade, public utilities etc (Please note that in some countries You are not allowed to listen to certain services, and having saved such frequencies into a memory location can be regarded already as an offense).

For example, the police department might use eight frequencies in your town while the railroad uses an additional four. You could program the eight police frequencies starting with Channel 1 (the first channel in bank 1), and program the railroad frequencies starting with Channel 21 (the first channel in bank 2).


## Operation

### Turning the scanner on and setting squelch

**Note:** Make sure the scanner's antenna is connected before you turn it on.

- Turn **Squelch** fully counterclockwise.
- Press and hold  for about 2 seconds to turn the scanner on.
- Then turn **Volume** clockwise until you hear a hissing sound.
- If the scanner is scanning, press **Hold** to stop scanning, then turn **Squelch** clockwise until the hissing stops.

### Storing known Frequencies into Channels

- 1) Press **Hold**. Then enter the channel number where you want to store a frequency, then press **Func** and **Pgm**. The channel number appears.
- 2) Use the number keys and /Clr to enter the frequency (including the decimal point) you want to store.
- 3) Press **E** to store the frequency into the channel.

### Notes:

- If you entered an invalid frequency, **Error** appears and the scanner beeps three times. Enter a valid frequency.
- The scanner automatically rounds the entered number to the nearest valid frequency.
- For example, if you enter 28.473 (MHz), your scanner

accepts it as 28.475.

- When you enter a frequency into a channel, the scanner automatically turns on the delay function and **DLY** appears. When delay is turned on, the scanner automatically pauses scanning
- 2 seconds after the end of a transmission before scanning proceeds to the next channel. To turn the function off or on, press **Func + Dly**.
- If you enter a frequency that has already been entered elsewhere, the scanner sounds an error tone and displays the channel that was duplicated. If you entered the frequency by mistake, press **Clr** then enter the correct frequency. To enter the frequency anyway, press **E** to accept.
- To program the next channel in sequence, press **E / Pgm** and repeat Steps 2) and 3).

### Searching for active Frequencies

If you do not have a reference to frequencies in your area, use a search to find a transmission.

**Note:** When the scanner starts searching, it automatically turns on the delay function. To turn delay on or off, press **Func + Dly**.

### Scanning the Stored Channels

To begin scanning channels, press **Scan**. The scanner scans through all non-locked channels in the activated banks (see also page 27 and "Turning Channel-Storage Banks On and Off" on Page 26/27). When the scanner finds a transmission, it stops on it. When the transmission ends, the scanner resumes scanning.

#### Notes:

- If you have not stored frequencies into any channels, the scanner does not scan.
- If the scanner picks up unwanted partial, or very weak transmissions, turn **Squelch** clockwise to decrease the scanner's sensitivity to these signals. To listen to a weak or distant station, turn **Squelch** counterclockwise.
- To ensure proper scanning, adjust **Squelch** until the audio mutes.

### Manually Selecting a Channel

You can continuously monitor a single channel without scanning. This is useful if you hear an emergency broadcast on a channel and do not want to miss any details - even though there might be periods of silence - or if you want to monitor a specific channel.

- To manually select a channel, press **Hold**, enter the channel number then press **Hold** again.

Or, during scanning, if the radio stops at a channel you want to listen to, press **Hold** once. (Repeatedly pressing **Hold** at

this time causes the scanner to step through the channels.) Press **Scan** to resume automatic scanning.

## **Close Call™ RF Capture Technology**


Your scanner's Close Call feature lets you set the scanner so it detects then displays the frequency of a nearby strong radio transmission. Close Call RF capture works great for finding frequencies at venues such as malls and sporting events. You can set the scanner so Close Call detection works “in the background” while you are scanning other frequencies, turn off normal scanning while Close Call is working, or turn off the Close Call feature and use the scanner normally. You can set the scanner so it alerts you when the Close Call feature detects a frequency. You can also set the frequency band where you want the scanner to look for transmissions.

Unlike searching, which requires the scanner to tune to a frequency to check for a transmission, Close Call RF capture directly detects the presence of a strong, nearby signal and instantly tunes to the source's frequency.

### **Notes:**

- Close Call RF capture works well for locating the source of strong local transmissions such as mobile and handheld two-way radios in areas with no other strong transmission sources. However, if you are in an area with many transmission sources (such as pager radio transmitters, multi-use radio towers, traffic control devices, etc.),
- Close Call RF capture might not find the transmission you are searching for, or it might find a transmission other than the one you are searching for. Close Call RF capture cannot detect satellite dishes or any transmitter with a frequency above or below the frequency ranges listed under “Setting the Close Call Options” in the next chapter below.
- Close Call works better with some types of transmissions than others. It might not correctly display frequency information for transmitters using a highly directive antenna (such as an amateur radio beam antenna), if there are many transmitters operating at the same time in the same area, or if the transmitter is a broadcast television station.

## **Setting the Close Call Options**

**Step 1.** Press **Func** then press and hold  for 2 seconds.

One of the following Close Call options appears.

**C-C.bnd** : Lets you select the Close Call band.

**C-C.Alt** : Lets you select the Close Call alert settings.

**Step 2.** Repeatedly press **^** or **v** to select the option you want, then press **E**.

If you selected **C-C.bnd** , one of the following band names

appears.

**bnd Lo** : VHF Low Band

**bnd Air** : AIR Low Band

**bnd Hi** : VHF High Band

**bnd UHF** : UHF Band

**bnd 800** : 800 MHz Band

If you selected **C-C.Alt**, skip to Step 5.

**Step 3.** Repeatedly press **^** or **v** until the band you want to search appears, then press **E** to select it. Otherwise, press **● /Clr** if you do not want to select it.

The scanner displays the following options.

**Lo On** or **Lo OFF**: select the VHF Lo frequency band.

**Air On** or **Air OFF**: select the Air frequency band.

**Hi On** or **Hi OFF**: select the VHF Hi frequency band.

**UHF On** or **UHF OFF**: select the UHF frequency band.

**800 On** or **800 OFF**: select the 800 MHz band.

**Step 4.** Repeatedly press **^** or **v** until the option you want appears, then press **E** to select it.

Otherwise, press **● /Clr**, if you do not want to select it. Then skip to Step 8.

**Step 5.** Press **E** while **C-C.Alt** appears. One of the following alert options appears:

**Alt bEEP** : The scanner beeps when a Close Call signal is detected.

**Alt Light** : The scanner flashes the display backlight when a Close Call signal is detected.


**Alt bP-Lt** : The scanner flashes the display backlight and beeps when a Close Call signal is detected.

**Alt OFF**: The scanner does not provide any alert when a Close Call signal is detected.


**Step 6.** Repeatedly press **^** or **v** until the option you want appears, then press **E** to select it. Otherwise, press **● /Clr** if you do not want to select it. Then skip to Step 8.


**Step 7.** Repeatedly press **^** or **v** until the option you want appears, then press **E** to select it.

**Step 8.** When you selected the option, press **● /Clr** to start Close Call search.

Otherwise, to continue normal scanning, repeatedly press **Func** until  disappears then press **Scan**.

### Using Close Call RF Capture

To turn on the Close Call feature, press **Func** +  once except in program search or program mode.

 appears Every 2 seconds, the scanner checks for frequencies in the range you specified in "Setting the Close

Call Options” starting on page 19 and interrupts the audio when it checks for a Close Call transmission in that range.

**Notes:**

- Set the squelch tight (where only strong signals are received) while using Close Call.
- To continue scanning normally while the Close Call feature is working, simply press **Scan** twice.
- When the scanner finds a frequency, it sounds the alert you specified in “Setting the Close Call Options” on page 19, and **Found** flashes.
- Press any key to confirm the displayed frequency. Press **Scan** to resume scanning.
  
- To change the band, press **Hold** to stop searching, then press **Func**. You can select the band using **^** or **v**.

To turn on the Close Call feature and turn off normal scanning, press (**Func** + **☺**) twice. **☺** flashes.

To turn off Close Call and turn on normal scanning, press (**Func** + **☺**) three times. **☺** disappears.

### **Close Call Skip Memory**

You can skip Close call frequencies so that you can avoid unwanted frequencies or those already stored in a channel. See page 25 for further explanation of Skip Memory.

### **Close Call Delay**

You can program a 10-second delay on any channel or frequency while using Close Call. With this feature, the scanner continues to monitor the channel frequency for additional 10 seconds after the transmission stops before resuming scanning or searching. The scanner automatically sets a delay when you store frequencies into channels or when you search frequencies.

To program the Close Call Delay, press **DLY** during Close Call mode.

To cancel Close Call Delay, press **DLY** during Close Call mode again.

## Frequency Search

This feature lets you search through preset frequency ranges. You can also change each range to a range you set. There are three modes within this feature: **chain search** mode, **chain search hold** mode, and **program band select** mode. The preset frequency ranges are:

10 Search Bands Band Plan 1		
	Frequency Range MHz	Steps
1	25.0000 - 29.9950	5 kHz
2	30.0000 - 79.9875	12.5 kHz
3	80.0000 - 87.2625	10, 12.5 kHz
4 old	108.0000 - 136.9875	12.5 kHz
4 new	108.0000 - 136.9916	8.33 kHz
5	138.0000 - 157.9875	12.5 kHz
6	158.0000 - 173.9900	10, 12.5 kHz
7	406.0000 - 439.99375	6.25 kHz
8	440.0000 - 469.9900	5 kHz
9	470.0000 - 512.0000	6.25 kHz
10	806.0000 - 960.0000	12.5 kHz

10 Search Bands Band Plan 2		
	Frequency Range MHz	Steps
1	25.0000 - 84.0100	5 kHz
2	84.0150 - 87.2550	20 kHz
3 old	108.0000 - 136.9875	12.5 kHz
3 new	108.0000 - 136.9916	8.33 kHz
4	137.0000 - 143.9950	5 kHz
5	144.0000 - 145.9875	12.5 kHz
6	146.0000 - 173.9900	10, 12.5 kHz
7	406.0000 - 449.99375	6.25 kHz
8	450.0000 - 469.9900	10 kHz
9	470.0000 - 512.0000	6.25 kHz
10	806.0000 - 960.0000	12.5 kHz

10 Search Bands Band Plan 3		
	Frequency Range MHz	Steps
1	25.0000 - 29.995	5 kHz
2	30.0000 - 87.2650	5 kHz
3 old	108.0000 - 136.9875	12.5 kHz
3 new	108.0000 - 136.9916	8.33 kHz
4	138.0000 - 157.9950	5 kHz
5	158.0000 - 173.9950	5 kHz
6	406.0000 - 439.99375	6.25 kHz
7	440.0000 - 465.99375	6.25 kHz
8	466.0000 - 469.99375	6.25 kHz
9	470.0000 - 512.0000	6.25 kHz
10	806.0000 - 960.0000	12.5 kHz

To switch the band plan between 1, 2 or 3:

- Make sure the power is turned off.
- While holding down **1, 2 or 3**, turn on the scanner.

**Note:** Please carry out a memory initialization (Reset) after band plan was changed. We recommend to change the band plan setting immediately for the correct country setting before first use of the scanner, later, in most cases, changing will be no more necessary.

### Chain Search Mode

Press **Func + Src** to start chain search mode. **SRCH**, the enabled search bank number, and or (indicating the search direction) appear. The search bank number being searched flashes.

Press **0-9** to enable or disable the search bank number being searched in this mode. Enabled bank numbers appear. (Disabled bank numbers disappear).

At least one search bank must be enabled. (The scanner sounds an error tone if you try to disable all the search banks). The search bank and the frequency where chain search starts depends on how the scanner was set before you selected chain search mode.

### Chain Search Hold Mode

To start chain search hold mode, press **Hold** in chain search mode. The scanner stops searching and **HOLD** appears.

- In this mode, pressing **Func + ▼** changes the search direction downward and pressing **Func + ▲** changes the search direction upward.
- **▼** or **▲** appears according to the current search direction.

### Storing Frequencies Found During Chain Search into Channel Memory

You can store frequencies you find in chain search mode or chain search hold mode.

- Press **Func + Pgm** in chain search mode or chain search hold mode. The lowest blank channel and bank appear.
- Press **E / Pgm** to store the frequency into the blank channel. To select another channel, press **Func + ▲** or **Func + ▼** before you press **E / Pgm**. You can also press **0-9** to select the bank.

If you try to save a frequency that is already stored, the scanner sounds an error tone and displays the channel that was duplicated.

- If you entered the frequency by mistake, press **●/Clr**.
- To enter the frequency anyway, press **E** to accept.

The scanner sets itself to program mode after you store a frequency.

### Setting the Search Range

You can use this mode to define the search range used during a search in each search bank.

- To change a search range, press **Func** and **PSrc**. In the display **SRCH** appears.
- Then select a search bank. When you select the search bank, the lower limit and upper limit frequency assigned in the search bank alternate on the display.
- To select another search bank, press **Func** + **PSrc** or **Func** + ▲ to increase the search bank number or **Func** + ▼ to decrease it.
- Hold down **Func** + ▲ or **Func** + ▼ for about 1 second to quickly move through the search bank numbers.

After choosing the search bank, follow these steps to set the lower limit and upper limit frequency.

- Enter the lower limit frequency by using the **0-9** and ● /**Clr** keys.
- Press **E** to select the lower limit frequency.
- Enter the upper limit frequency by using the **0-9** and ● /**Clr** keys.
- Press **E** to select the upper limit frequency.

### Direct Entry Search

You can use direct entry search to search up or down from the currently displayed frequency.

- If the scanner is scanning or searching, press **Hold**.
- Enter the frequency you want to start from by using the number keys **0-9**. (Use ● /**Clr** to enter a decimal point).
- Press **Func** + ▲ or **Func** + ▼ . The scanner searches, starting from the frequency you entered in the step before.
- If you enter a frequency that is out of range, the scanner sounds an error tone and **Error** appears.
- Press **Func** + ▲ to change the search direction downward or **Func** + ▼ to change the search direction upward. Frequencies appear during the search.

### Notes:

- You can set the delay function on or off during the search or while the search stops.
- You can skip a frequency when the search stops. After the search skip frequency is set, the scanner starts direct search again.

### Direct Entry Search Hold Mode

- To stop searching during direct entry search, press **Hold**. Hold appears.

- In this mode, pressing **Func** + **▼** changes the search direction downward and pressing **Func** + **▲** changes the search direction upward.
- **▼** or **▲** appears depending on the search direction.
- Press **Func** + **▼** to decrease the frequency by one step or **Func** + **▲** to increase it by one step.
- Hold down **▼** or **▲** for about 1 second to quickly increase or decrease the frequency.
- To resume direct search, press **Func** + **Src** or **Hold**. **▼** or **▲** appears on the display, showing the search direction.

### ***Storing Frequencies found during Direct Entry Search into Channel Memory***

Follow these steps to store frequencies received during direct entry search mode or direct entry search hold mode.

- Press **Func** + **Pgm** in direct entry search mode or direct entry search hold mode. The frequency and lowest blank channel alternate on the display.
- Press **E / Pgm** to store the frequency into the blank channel. To select another channel, repeatedly press **Func** + **▼** or **Func** + **▲** to select the blank channel you want, then press **E / Pgm**. You can also use the **0-9** keys to select the bank.

If you enter a frequency that has already been entered elsewhere, the scanner sounds an error tone and displays the channel that was duplicated.

- If you entered the frequency by mistake, press **●/Clr**.
- To enter the frequency anyway, press **E** to accept.

The scanner moves to program mode after you stored the frequency.

### **Search Skip Memory**

You can skip up to 100 specified frequencies during a search. This lets you avoid unwanted frequencies or those already stored in a channel.

**Note:** Search skip frequencies are shared by the Search and Close Call modes. If skip frequencies are sent in certain mode, the frequencies are also skipped in other search modes.

- To skip a frequency, press **Func** and **L/O** when the scanner stops on the frequency during a search or a search hold.
- The scanner stores the frequency in memory and automatically resumes the search if it is not in hold.

Follow these steps to clear a single frequency from skip memory so the scanner stops on it during a search.

- Press **Hold** to stop the search.
- Press **Func** + ▲ or **Func** + ▼ to select the frequency. **L/O** appears.
- Press **Func** + **L/O**. The **L/O** icon disappears.

To clear all the skip frequencies at once while searching or search hold, press **Func** then press and hold **L/O** until the scanner beeps.

#### Notes:

- If you selected all frequencies to be skipped within the search range, the scanner beeps 3 times and does not search.
- If you select more than 100 frequencies to skip, each new frequency replaces a frequency previously stored, beginning with the first stored frequency.
- Press **Func** + ▲ or **Func** + ▼ to select a skipped frequency while **HOLD** appears. **L/O** appears when you select a skipped frequency.

#### Delay

Sometimes a user might pause before replying to a transmission. To avoid missing a reply on a specific channel, you can program a 2-second delay into any channel or frequency. The scanner continues to monitor the channel frequency for an additional 2 seconds after the transmission stops before resuming scanning or searching. The scanner automatically sets a delay when you store frequencies into channels or when you search frequencies. When the delay feature is on, **DLY** appears. If it is off, follow one of these steps to program a delay depending on how the scanner is operating.

- If the scanner is scanning and stops on an active channel where you want to store a delay, quickly press **Func** + **Dly** before it continues scanning again. **DLY** appears.
- If the desired channel is not selected, manually select the channel, then press **Func** + **Dly**. **DLY** appears.
- If the scanner is searching, press **Func** + **Dly** while the scanner is searching. **DLY** appears and the scanner automatically adds a 2-second delay to every frequency it stops on in that band.
- To turn off the 2-second delay, press **Func** + **Dly** while the scanner is monitoring a channel, scanning, or searching. **DLY** disappears.
- Close Call also has a delay feature. It's delay time is 10 seconds. See page 21 how to program Close Call Delay.

#### Turning Channel-Storage Banks On and Off

You can turn each channel-storage bank on and off. When you turn off a bank, the scanner does not scan any of the 20 channels in that bank.

- While scanning, press the number key that corresponds to the bank you want to turn on or off.

Numbers appear at the top of the display, showing the currently selected banks.

The scanner scans all the channels within the displayed banks that are not locked out (see next chapter “Locking Out Channels”). The bank number flashes when the scanner scans a channel that belongs to the bank.

#### Notes:

- You can manually select any channel within a bank, even if that bank is turned off.
- You cannot turn off all banks. One bank must always be active.

#### Locking Out Channels

You can increase the scanning speed by locking out channels that have a continuous transmission.

- To lock out a channel, manually select the channel, then press **Func** + **L/O**. **L/O** appears.

**Note:** You can still manually select locked-out channels.

- To remove the lockout from a channel, manually select the channel, then press **Func** + **L/O**. **L/O** disappears.
- To unlock all channels in the banks that are turned on, press **Hold** to stop scanning, then press **Func** and press and hold **L/O** until the scanner beeps twice.

#### Priority

The priority feature lets you scan through the channels and still not miss important or interesting calls on specific channels. You can program one stored channel in each bank as a priority channel (10 for the banks).

If the priority feature is turned on, as the scanner scans the bank, it checks that bank's priority channel for activity every 2 seconds. The scanner automatically designates each bank's first channel as its priority channel.

Follow these steps to select a different channel in a bank as the priority channel.

- Manually select the channel you want to select as the priority channel.
- Press **Func** + **Pgm**, then press **Func** + **Pri**. **P** appears to the left of the selected channel number.
- Repeat these steps for the channel in each bank you want to program as a priority channel.
- To turn on the priority feature, press **Func** + **Pri** during scanning. **PRI** appears.

Then the scanner checks the designated priority channel every 2 seconds in each bank.

- To turn off the priority feature, press **Func** + **Pri**. **PRI**

disappears.

### Using Keylock

Use the scanner's keylock to protect it from accidental program changes. When the scanner's keys are locked, the only controls that operate are


**Scan, Func, Hold,** ,  and .

To turn on keylock, press **Func** + .  appears.


To turn off keylock, press **Func** + .  disappears.

**Note:** Using keylock does not prevent the scanner from scanning channels.

### Using the Display Backlight

- To turn on the display light for easy viewing at night, press .

The display lights for 15 seconds.

- To turn off the light sooner, press  again.

### Birdies

All radios can receive “birdies” (undesired signals). If your scanner stops during Scan mode and no sound is heard, it might be receiving a birdie. Birdies are internally generated signals inherent in the electronics of the receiver.

Press **L/O** to lock out the channel, then press **Scan** to resume scanning.

If you still cannot get satisfactory results while using your scanner or if you want additional information, please contact the **ALAN technical hotline**. The address and phone number are listed in the warranty chapter at the end of this manual.

### Care and Maintenance

Keep the scanner dry. If it gets wet, wipe it dry immediately. Use and store the scanner only in normal temperature environments. Handle the scanner carefully: do not drop it. Keep the scanner away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

### General Use

- Turn the scanner off before disconnecting the power.
- Always write down the programmed frequencies in the event of memory loss.
- If memory is lost, simply reprogram each channel. The display shows 000.000 in all channels when there has been a memory loss.
- Always press each button firmly until you hear the entry tone for that key entry.

### **Locations, environment**

- Do not use the scanner in high-moisture environments such as in bathroom or outdoor if it is raining.
- Avoid placing the unit in direct sunlight or near heating elements or vents.
- If the scanner receives strong interference or electrical noise, move it or its antenna away from the source of the noise. If possible, a higher elevation might provide better reception.
- Also try changing the height or angle of the antenna.

### **Cleaning**

- Disconnect the power to the unit before cleaning.
- Clean the outside of the scanner with a mild detergent.
- To prevent scratches, do not use abrasive cleaners or solvents. Be careful not to rub the LCD window.
- Do not use excessive amounts of water.

### **Repairs**

Do not attempt any repair. The scanner contains no user serviceable parts. Contact the ALAN Customer Service Center phone (+49) (0)6103 9481 30, send an e-mail to [service@alan-germany.de](mailto:service@alan-germany.de) or take the scanner to a qualified and authorized repair technician.

### **Resetting the Scanner**

If the scanner's display locks up or stops operating properly, you might need to reset the scanner.

**Caution:** This procedure clears all the information you have stored in the scanner. Before you reset the scanner, try turning it off and on to see if it begins working properly. Reset the scanner only when you are sure it is not working properly. After a reset, only the band plan informations and the preprogrammed search bands are still memorized in the scanner!

To reset the scanner:

- Turn the scanner off.
- While holding down **2**, **9**, and **Hold**, turn on the scanner. It takes about 3 seconds to initialize and **CLEAR** appears.

### **Troubleshooting**

If your AE92H is not performing properly, try the following steps.

<b>Problem</b>	<b>Possible Cause</b>	<b>Suggestion</b>
The scanner doesn't work.	The scanner might not get any AC/DC power.	Check the batteries or make sure the AC adapter is connected to an AC outlet and the scanner.
		If there is a wall switch that controls power to the AC outlet where you connected the AC adapter, make sure it is on.
Improper reception.	The scanner's antenna might need to be adjusted.	Check the antenna connection or move or reposition the antenna.
		Move the scanner.
		You might be in a remote area that could require an optional multi-band antenna. Check with your dealer or local electronics store.
Scan won't stop.	The squelch might need to be adjusted.	Adjust the squelch threshold. See "Turning On The Scanner and Setting Squelch"
	The antenna might need to be adjusted.	Check the antenna connection.
	One or more channels might be locked out.	Make sure the channels you want to scan are not locked out.
	The channel's frequency might not be stored in memory.	Make sure the channel's frequency is stored in the scanner's memory.
	The channel might not be active.	Wait for a transmission on the channel.
Scan won't start.	You must press <b>Scan</b> to scan.	Press <b>Scan</b> .
	The squelch might need to be adjusted.	Adjust the squelch threshold. See "Turning On The Scanner and Setting Squelch".
	One or more channels might be locked out.	Make sure the channels you want to scan are not locked out.
	The antenna might need to be adjusted.	Check the antenna connection.

## Specifications

Channels:	200
Banks:	10 (20 channels each)
Frequency Range (in MHz):	see Band Plans
Channel Steps:	5, 6.25, 8.33, 10, 12.5, 20 KHz
Sensitivity (SINAD 12 dB)	
25.005 MHz (FM)	0.3 $\mu$ V
54.050 MHz (FM)	0.3 $\mu$ V
86.275 MHz (FM)	0.3 $\mu$ V
118.800 MHz (AM)	0.5 $\mu$ V
127.175 MHz (AM)	0.5 $\mu$ V
135.500 MHz (AM)	0.5 $\mu$ V
138.150 MHz (FM)	0.3 $\mu$ V
162.400 MHz (FM)	0.3 $\mu$ V
173.220 MHz (FM)	0.3 $\mu$ V
406.875 MHz (FM)	0.4 $\mu$ V
453.250 MHz (FM)	0.4 $\mu$ V
511.9125 MHz (FM)	0.4 $\mu$ V
806.000 MHz (FM)	0.6 $\mu$ V
857.200 MHz (FM)	0.6 $\mu$ V
954.9125 MHz (FM)	0.6 $\mu$ V
Operating Temperature:	
Normal	-20°C to +60°C
Close Call mode:	-10°C to +50°C
Scan Rate:	50 channels per second (max)
Search Rate	
Normal	60 steps per second (max)
Hyper Search	180 steps per second (max)
Priority Sampling	2 seconds
Scan Delay:	2 seconds
IF Rejection (at 162.4 MHz)	90 dB
IF Frequencies	
1st IF (25-173.995 MHz)	380.6050-380.7000 MHz
1st IF (406-512 MHz)	380.60625-380.7000 MHz
1st IF (806-960 MHz)	380.7000 – 380.7875 MHz
2nd IF	21.3 MHz
3rd IF	450 kHz
Audio Output	490 mW maximum
Built-in Speaker	32 mm diameter, 8 Ohms (dynamic type)
Current Drain	
Squelched	110 mA
Full Output	310 mA
Power Requirements:	
2 AA Alkaline Batteries (3V DC), or 2 AA Rechargeable NiMH Batteries (2.4V DC), or AC Adapter (6 VDC 500mA)	
Antenna:	50 ohms (Impedance)
External Antenna:	Antenna Jack BNC Type
Ext. Speaker Jack	3.5 mm
DC Power Jack	4.4 mm
Size:	68mm (W) x 31.5mm (D) x 115mm (H)
Weight:	165 g

Features, specifications, and availability of optional accessories are all subject to change without notice.

### **European 2 years warranty**

The distributor, dealer or retail shop 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 (at the company's option) 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. dated bill of sale), specification of defect(s), to the distributor, dealer or his authorized repair center.

The Company disclaims liability for communications range of this product. The warranty does not apply to any product or part there of which, in the opinion of the company, has suffered or been damaged through alteration, improper installation, mishandling, misuse, neglect, accident, or by removal or defacement of the factory serial number/bar code label(s). The warranty does not apply to accessory parts or problems caused through not authorized or not recommended accessories like of the units like batteries, external power supplies, external antennas, earphone, speakers, and over voltage caused through external power supplies, light bulbs, broken antennas, broken swivel belt clips, broken or damaged acrylic glass windows and cabinet parts.

Please contact the dealer or person where you have purchased your Albrecht Scanner.

### **Where to find service hints and 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.hobbyradio.de>**

If You should have a problem, please have a look to the service hints or frequently asked questions (FAQ) before you send your Scanner back to the service center.

## Optional Accessories

Albrecht recommends to use following accessories. These are only examples, You will find our whole range of accessory items in our catalogue.

Order No.	Accessory item
6158	Scanner Antenna Albrecht Miniscan
6156	Scanner Antenna Albrecht Maxiscan
61700	Station Antenna Albrecht Allband
7120	Extension Speaker CB 20
71450	Earphone

## CE-Declaration of Conformity



**CE Konformitätserklärung/ Declaration of Conformity**



Hiermit wird erklärt, daß unser Produkt / herewith we declare  
that our product  
Empfangsgerät für Funkanwendungen (Scanner)

**AE 92 H (mit/ with Close Call)**

den folgenden europäischen Normen entspricht: / is in  
conformity to following European Standards

**EU-Richtlinien / EU directives 73/23/EEC (LVD); 89/336  
EEC (EMC) and 99/5/EEC (R&TTE)**

**EN 301 489-1, EN 301 489-5, EN 301 489-15 (EMC)  
EN 300 086-2 (PMR Radio)  
EN 301 783-2 (Amateur Radio)  
EN 60 950 (Electrical Safety)  
Lütjensee, 29. 10. 2005**

.....  
**(Unterschrift/ signature)**  
Wolfgang Schnorrenberg  
ALAN Electronics GmbH



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download server	<a href="http://www.hobbyradio.de">www.hobbyradio.de</a>

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