

ALC

Antenna Line Configurator



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Safety Instructions

Definitions

 WARNING	Indicates a potentially dangerous situation. Death or severe injuries may occur.
NOTICE	Provides information on ensuring the safety of persons or objects.

General instructions

WARNING



The details given in the installation guide and the product documentation must be carefully followed during the installation and operation of the ALC (read the installation guide and the ALC product documentation thoroughly before connecting the system to the power supply).

The installation guide has to be used in combination with the ALC product documentation on the CD-Rom ('**ALC – Software and Documentation**') delivered with each ALC.

The installation team must be properly qualified and also be familiar with the relevant national safety regulations! Non-observance of these instructions may damage or destroy the devices. Death or severe injuries may occur!

WARNING



Before you work on any equipment, be aware of the hazards involved with electrical circuitry, and be familiar with standard practices for preventing accidents.

Only trained and qualified personnel is allowed to install, replace or service this equipment.

Use only the power supply included in delivery to power the ALC.

Do not work on the system or (dis)connect cables during a thunderstorm.

The plug socket combination must be accessible at all times, as it serves as the main disconnecting device.

Non-observance of these instructions may damage or destroy the devices. Death or severe injuries may occur!

Mains lead

WARNING



Make sure that the mains lead (power supply lead) is undamaged!
Never put the ALC into operation if the mains lead is damaged.

This can jeopardize the electrical safety of the ALC.

FCC Statements

Warning Statements FCC § 15.21

[Any] changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Statement FCC § 15.19

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC § 15.105

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.*
- Increase the separation between the equipment and receiver.*
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
- Consult the dealer or an experienced radio/TV technician for help.*

Canada CNR-Gen Section 7.1.3

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radioexempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

ICES-003

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Safety Instructions

NOTICE

The disposal of this product should be effected according to all national laws and regulations.

NOTICE

The power supply and the ALC are designed for indoor use.

NOTICE

Only operate the power supply of the ALC using the main voltages indicated on the ALC data sheet.

NOTICE

Non-observance of these instructions may result in unsuccessful operation of the RET components or destruction of the devices.

NOTICE

RETAIN THESE INSTRUCTIONS!

General Information

The information published in this manual was up to date on printing. However, we reserve the right to change without notice.

The ALC software is to be used with Microsoft® Windows® 2000, XP or Vista (Ultimate / Home Premium) supporting USB ports.

NOTICE

In order to control the devices properly, it is essential to install the RCU on the antenna and to connect all devices to the before it is switched on.

NOTICE

A precondition for the proper control of the devices are correctly mounted components.

Each RCU must be calibrated before the initial downtilt setting and after each manual adjustment of the downtilt or after each dismantling of the RCU. Non-compliance of this instruction may result in an undefined down-tilt setting.

NOTICE

The RCU being installed on the appropriate antenna is essential for a correct RCU calibration.

If this is not observed, the calibration cannot be carried out correctly.

Preface

Dear user,

Thank you for deciding to buy the Antenna Line Configurators (ALC). We hope to satisfy the demands you place on our unit.

In this manual, we would like to describe the use of the ALC.

The ALC offers the following options:

- all AISG compatible ALDs (RET and TMA) can be configured
- the ALC distinguishes between initial installation and service
- the installation wizard (see menu item 'Antenna Conf. Wizard') can be used for initial installation of Kathrein ALDs

Additional ALC features:

- Battery-powered (stand alone)
- Touch-screen graphic display
- Robust aluminium housing
- requires no software installation on laptop or PC
- creation and saving of report files
- WLAN interface for control with laptop, tablet PC or Smartphone using a Web browser
- Parallel operation of display and Web browser
- Tilt sensor for mechanical alignment of the antenna
- Voltage display on AISG bus

1. Initial installation

The first time the ALC is switched on, the view 'System Configuration' is shown on the display. Date and time can be set to the local time.

Confirm setting with 'Set Data' and the normal start screen will appear on the ALC as soon as the unit is restarted.



The screenshot shows a 'Systemconfiguration' screen with a back arrow icon in the top left and a signal strength icon in the top right. The screen contains the following fields and controls:

- Date:** dd. mm. jjjj. Three input boxes contain the values '01', '01', and '1970'.
- Time:** hh min. Two input boxes contain the values '01' and '18'.
- Installer ID:** A single-line text input field.
- Company name:** A single-line text input field.
- Set Data:** A button located at the bottom of the screen.

2. ALC software description

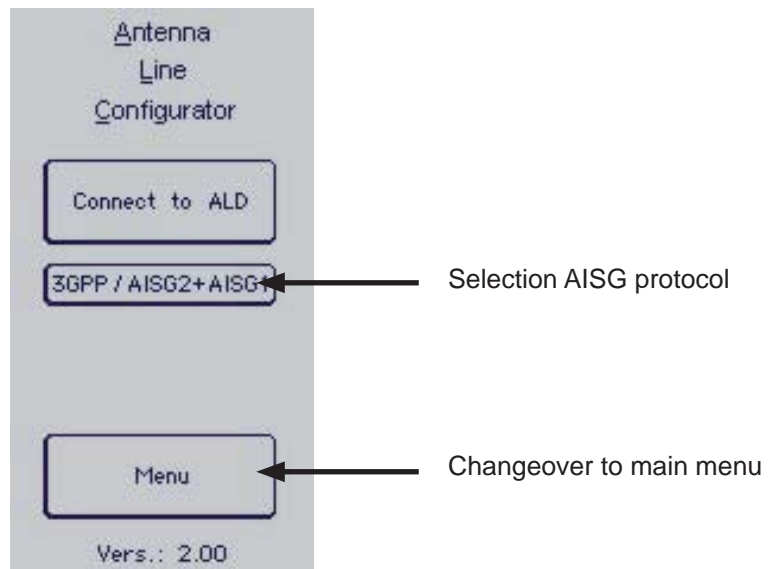
2.1 Display

If the ALC is operated using the display, the functions are divided into different display views. the display views have a structured organisation.



- Header and battery display
- 'Back' button in the last main view
- Footnote for navigation through different coherent views

2.1.1 Start menu



The start screen will appear after the unit has been booted. One can set the AISG protocol for the set-up of the connection here.

Press the button 'Connect to ALD'/'Reconnect to ALD' to start scanning the AISG buses for units and to establish the connection. Press the button 'Menu' to move on to main menu.

2. ALC software description

2.1.2 Main menu



Press the button 'ALD Configuration' to access the view in which the ALDs are listed divided into the categories RET and TMA.

Use the button 'Antenna Conf. Wizard' to start the Installation assistant which will guide you through the connection process of an antenna and an external RET.

Use the button 'Write Report File' to create report files for the scanned ALD devices on the connected AISG bus.

Use the button 'ALD Software Update' to update the firmware of the individual ALDs.

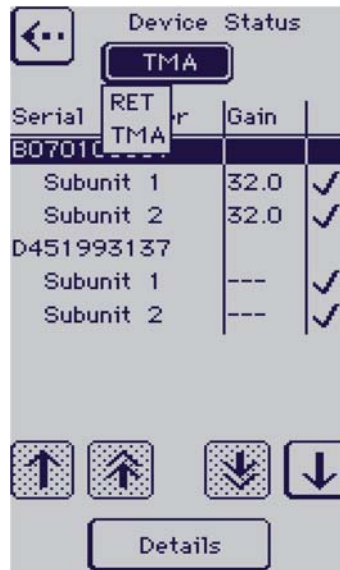
Press the button 'AISG Bus [V][mA]' to show the present voltages and currents.

If you press the button 'Mechanic's Level' a display will appear which will allow you to measure the mechanical downtilt of the antenna with the ALC.

Press the button 'ALC Setup' to view the menu for set-up settings.

2. ALC software description

2.1.2.1 Menu button 'ALD Configuration'



In this view, the individual ALDs are listed separately for RET and TMA. Click the button 'RET' to view a dropdown list where you can choose between RET and TMA. The units will be listed according to your selection. Use the arrows located under the list to navigate through the list. Select a unit and then click on the button 'Details' to change over to the detailed view.

2. ALC software description

2.1.2.1.1 Detailed view 1 for RET

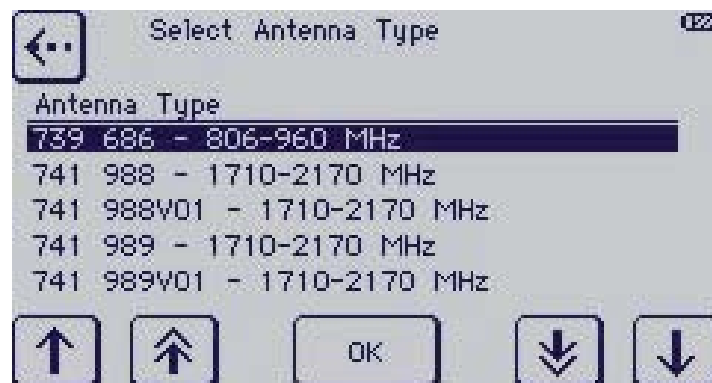


The 'Tilt Value' button opens an entry for a new tilt value.

protocol mode	AISG1	3GPP / AISG 2
'Sector ID'	4	32
'Basestation ID'	12	32

In the protocol mode AISG 1, the number of characters allowed for '**Sector ID**' and '**Basestation ID**' differ, with up to 4 or 12 characters respectively. In the 3GPP/AISG 2 mode, 32 characters can be entered for both '**Sector ID**' and '**Basestation ID**'.

The antenna number button allows you to select the antenna type from the list and to set it right away.



The buttons on the lower edge allow navigation through the list.

2. ALC software description

The frequency band and downtilt are shown for the current RET antenna type.

The button 'Calibrate' starts calibration of the RET.

If the device status is faulty, the 'Error' button will become active and one can view a list of errors if this button is pressed.



If you switch back to the detailed view, you can navigate to the next detailed view using the navigation button in the lower right corner.

2. ALC software description

2.1.2.1.2 Detailed view 2 for RET

RET 022
<KA> B0443077R0

Antenna Serial Number:

Inst. Date:

Installer-ID:

Basestation-ID:

Ant. Bearing:

Mechan. Tilt:

Protocol:

Some of the additional data is entered in this view. The number of symbols to be entered depends on the protocol mode of the ALD.

protocol mode	AISG1	3GPP / AISG 2
'Sector ID'	4	32
'Basestation ID'	12	32

In the protocol mode AISG 1, the number of characters allowed for '**Sector ID**' and '**Basestation ID**' differ, with up to 4 or 12 characters respectively. In the 3GPP/AISG 2 mode, 32 characters can be entered for both '**Sector ID**' and '**Basestation-ID**'.

Switch-over of the AISG protocol of the device is done over the selection box.

Use the navigation buttons below to navigate from one detailed view to the next.

2. ALC software description

2.1.2.1.3 Detailed view 3 for RET



Displays the product number, hardware version and software version.

Button '**Reset**' forces the RCU to do a software restart

The button 'Antenna Config' opens a selection of Antennen Config Files. One navigates in the folder using the Configuration File, selects a file and as soon as it is confirmed it is sent to the RET.

2. ALC software description

2.1.2.1.4 Detailed view for TMA



When the TMA has variable gain values, the gain value must be selected.

protocol mode	AISG1	3GPP / AISG 2
'Sector ID'	4	32
'Basestation ID'	12	32

In the protocol mode AISG 1, the number of characters allowed for '**Sector ID**' and '**Basestation ID**' differ, with up to 4 or 12 characters respectively. In the 3GPP/AISG 2 mode, 32 characters can be entered for both '**Sector ID**' and '**Basestation-ID**'.

Button '**Reset**' forces the TMA to do a software restart.

2. ALC software description

2.1.2.2 Menu button 'Antenna Conf. Wizard'

Open the installation assistant to install external Kathrein RETs to an antenna.

Procedure sequence of the Wizard:

1. Select the antenna from the list.



Press the button 'antenna model number' to open a view where you can select the antenna.



Select the antenna from the list by navigation and confirm with 'OK'.

2. ALC software description

2. Entry of Installation Data (valid for all RETs to be installed).

Installation Data

Sector-ID: SEC1

Basestation-ID: BASE

Inst. Date: 010112

Inst.-ID: 12345

Bearing: 0

mechan. Tilt: 0

Ant. Serial Number:

The 'additional data' of the RET are entered in this view. Use the arrow to move on to the next page

3. Assignment of the RET to the respective port on the antenna.



You must click on a port (1, 2, ...) to open a new display view. In this view you will see a list of RETs from which you can select the corresponding and RET and confirm by pressing 'Select Ret'.

Select Ret for Port

Port: 0 Color: (white)

Ret Serialnumber	Ports	Status
B0443077R0		✓

Select Ret

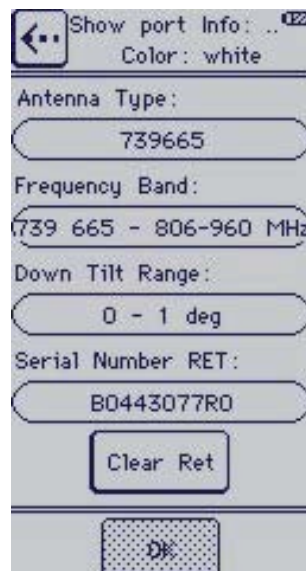
4. Check the ports by pressing the button shown on the next page.
If you have assigned a RET to a port the button will appear inverted (black).

2. ALC software description



If the button is pressed, the following data appear in the display:

- Display of frequency band
- Down Tilt Range
- Serial number of the installed RET
- Button to delete the assigned RET on the connection port



5. Start installation (Write data for RETs, then calibrate RETs one after the other).



Push the button 'Start Install' to start automatic installation of the assigned RETs.

First, the installation data are written to the RET. If completed successfully, this task will be marked with a check-box. The RETs are then calibrated one after the other. This can be seen on the hourglass symbol.

2. ALC software description



6. Press the button 'Exit' to exit the wizard.



When the calibration wizard is finished, a status symbol will appear on each RET. To leave the installation wizard and return to the main menu, press the 'Exit' button.

2. ALC software description

2.1.2.3 Menu button 'Write Report File'

All device data are saved in the report file in ASCII format. The file extension is '.txt'.



All device data of all connected components can be saved in a report file. Additional data as well as **'Installation Company'**, **'Installer's Name'** can be entered in the corresponding field.

Info: File name: - compound of "Installer-ID+date+time"



Click 'Save reportfile' to save the file on a defined position.

2. ALC software description

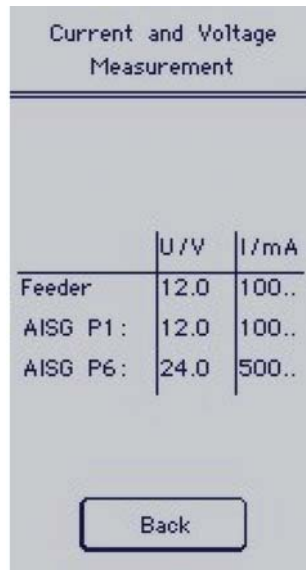
2.1.2.4 Menu button 'ALD Software Update'

Select the RET, then select the file for the update. Confirm to start automatic software updating.

The download for one RCU takes about 6 min and for the DTMA about 7 min.

Caution: *In case of an abort, the RCU operates only with the bootloader (minimum instruction set) and requires a firmware update!*

2.1.2.5 Menu button 'AISG Bus [V][mA]'



	U/V	I/mA
Feeder	12.0	100..
AISG P1 :	12.0	100..
AISG P6 :	24.0	500..

Back

Displays electricity and voltage values on the feeder cable and AISG bus

2.1.2.6 Menu button 'Mechanics Level'



Mechanic's Level Measurement

Mech. Level in deg

20.2

Not calibrate!

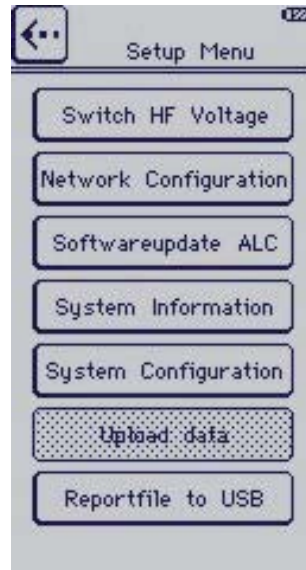
Calibrate

Back

To calibrate the sensor, hold the ALC on a vertical object and press the button 'Calibrate'. Stop the ALC, press the button 'Calibrate' and the device is calibrated.

2. ALC software description

2.1.2.7 Menu button 'ALC setup'



The menu features the following functions:

- **Switch HF Voltage:** View to measure voltages and currents.
- **Network Configuration:** View to set WLAN and USB network settings
- **Softwareupdate ALC:** Firmware update of ALC
- **System Information:** View with system information
- **System Configuration:** View for system settings (e.g. date, time, ...)
- **Upload data:** Transfer of firmware software for RET/TMA and Configuration files from USB stick to the ALC
- **Reportfile to USB:** Transfers report files from the ALC to a USB stick

2. ALC software description

2.1.2.7.1 Menu button 'Switch HF voltage'



The Kathrein ALC has a special RF socket.

You can change the voltage of the RF socket from 12V to 24V. Before you change the voltage, you must press the button yes.



2. ALC software description

2.1.2.7.2 Menu button 'Network configuration'

WLAN



WLAN can be switched on or off as desired. The IP address and the subnet mask can be set. The WLAN password is preset and can be changed over the button 'Password'. The WLAN channel can be set between Channel 2 and 11.

IP address, subnet mask, password and WLAN channel are saved to the unit using the button 'Set Data'.

Security note: *Password should be changed*

USB



2. ALC software description

2.1.2.7.3 Menu button 'Softwareupdate ALC'

To update ALC firmware, connect the memory stick with the firmware to the USB port.



To update, select the partition on the memory stick. Afterwards, select the file using the 'Select File' button. Press 'Start Update' to start the installation procedure. This may take several minutes. When the update is finished, restart the device by switching it off and then on again.

2.1.2.7.4 Menu button 'System Configuration'



Entry of date, time, installer ID and installer company

2.1.2.7.5 Menu button 'Reportfile to USB'



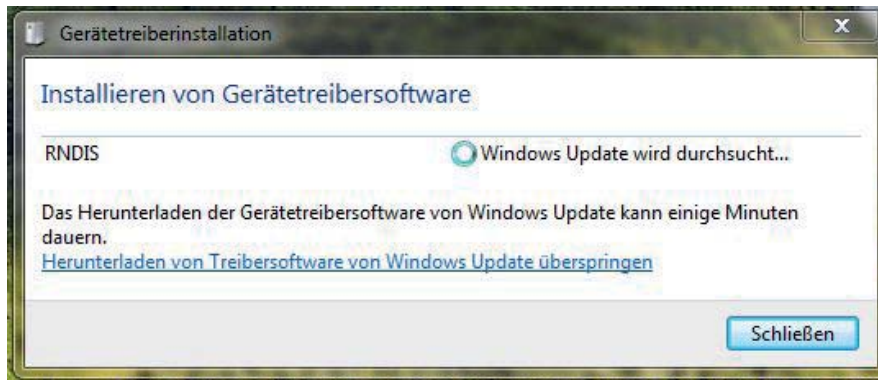
Use the button 'Select Volume USB' to select the USB stick. Now press the button 'Transfer File to USB'. All Report Files will be transferred from the ALC to the USB stick.

3. Connect to PC/laptop

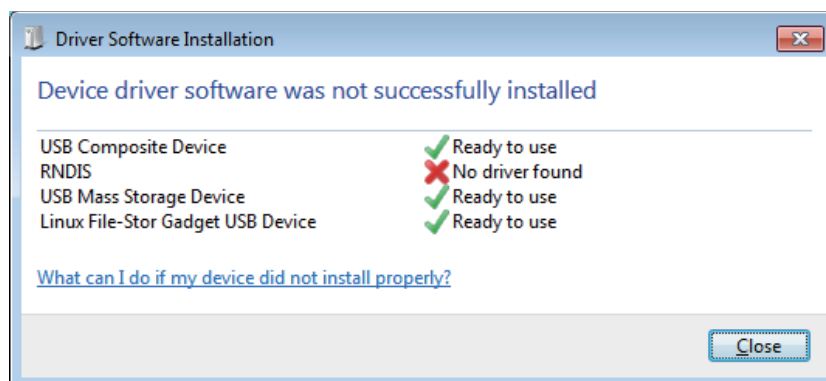
The ALC can additionally be conveniently operated using a modern browser interface e.g. from a PC or notebook. Connection to the ALC is possible in two different ways:

3.1 USB connection WIN 7 (32-bit/ 64-bit)

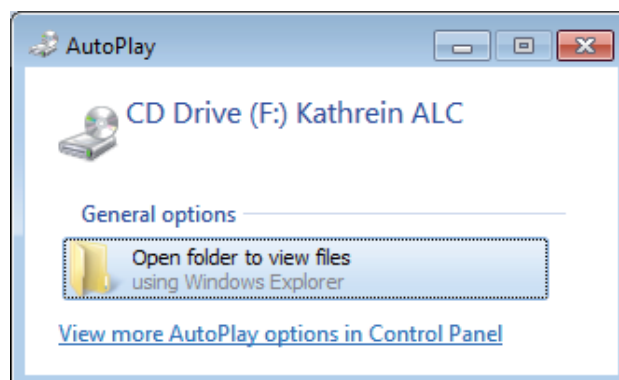
Connect ALC and PC/notebook with the supplied USB cable. Switch on ALC. The Pop-up dialogue “Driver Software Installation” will appear



If automatic updates are active, please wait until the search for drivers is finished (no driver was found for RNDIS).

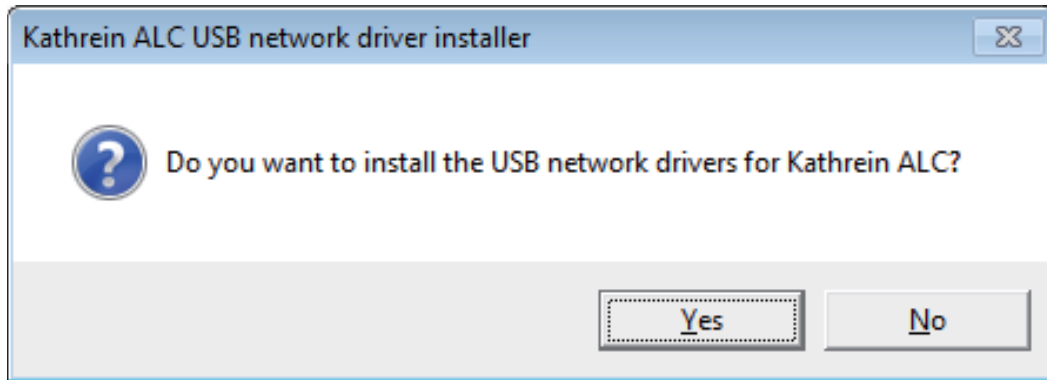


Close pop-up dialogue with the button “Close”.

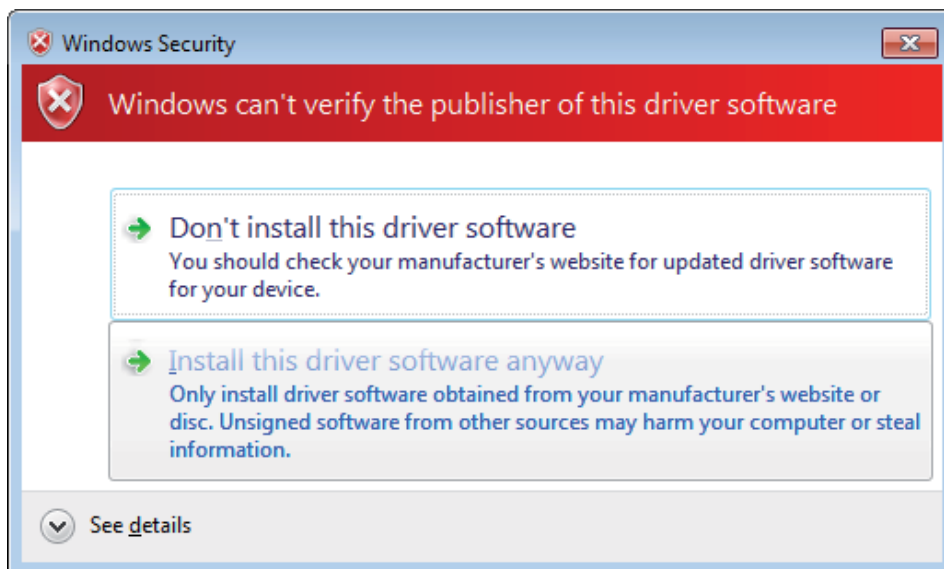


3. Connect to PC/laptop

Go to CD Drive - Kathrein ALC and execute the file "setuo.exe/ setup64.exe Betriebssystem". Confirm "User Account Control" dialogue field with 'Yes'.

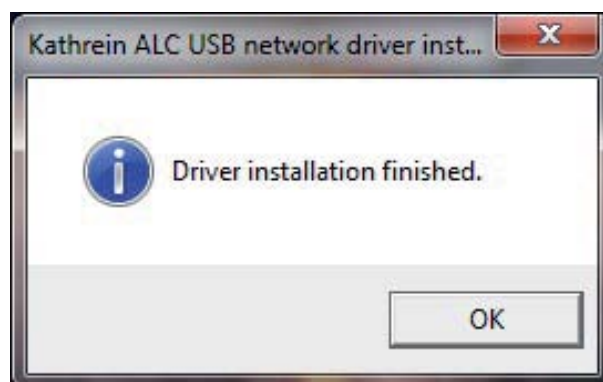


Confirm dialogue "Kathrein ALC Usb network driver installer" with "Yes"



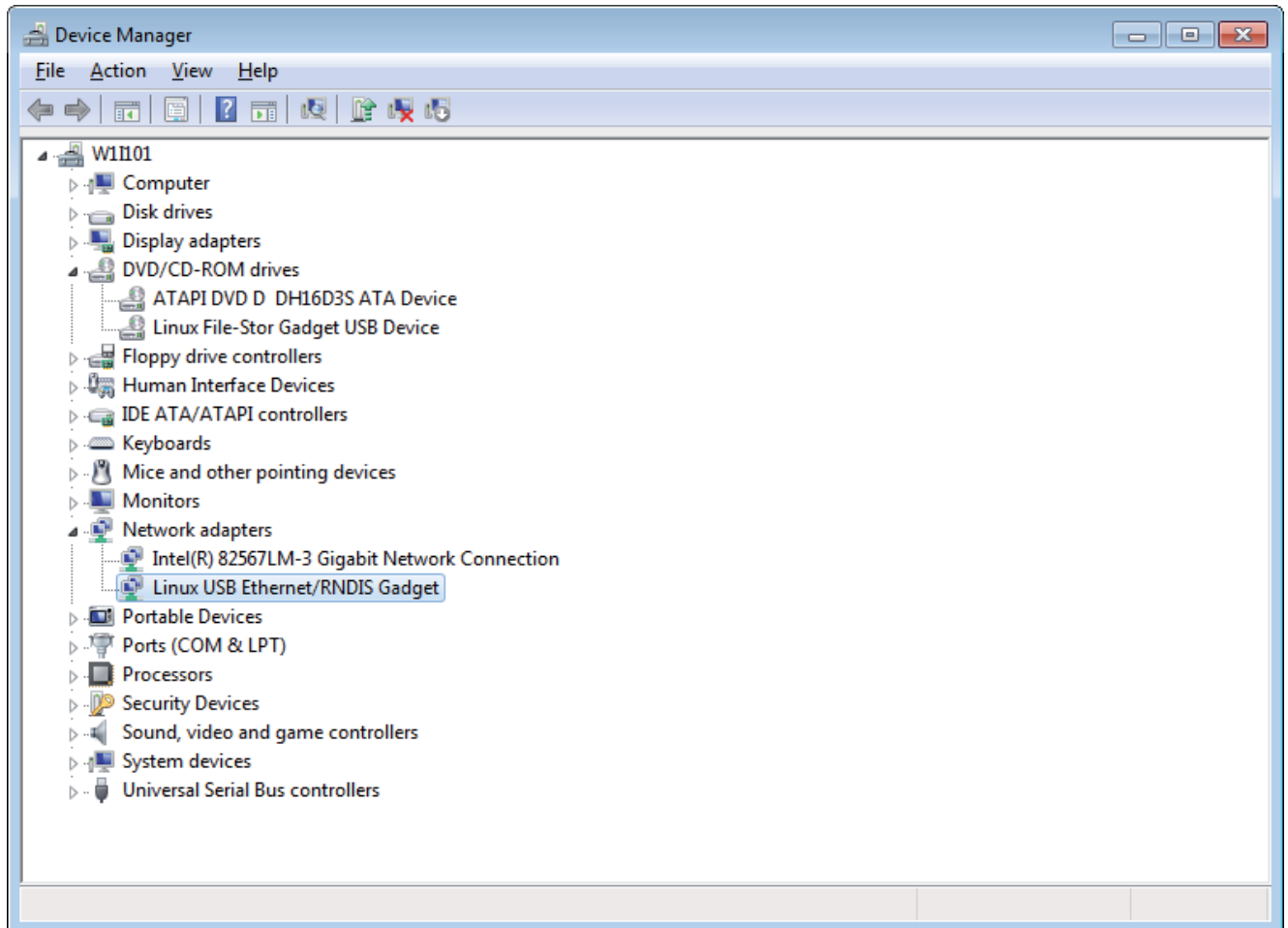
In dialogue "Windows Security" confirm the selection "Install ...". The installation procedure will begin. It takes approx. 30sec for installation to be completed.

Confirm the message "Kathrein ALC USB network driver installer" successfully installed with "OK".



3. Connect to PC/laptop

If installation was successfully completed, the device “Linux USB Ethernet/RNDIS Gadget” must appear in the “Device Manager” under “Network adapters”



The ALC can then be operated using the Web browser after the address “usb.alc.kathrein” (alternatively 192.168.0.1) is entered.

3. Connect to PC/laptop

3.2 WLAN connection

Installation under Win 7:

Using the WLAN connection (Instructions for Windows 7).

Activate WLAN on the ALC in the menu “Networkconfiguration”.



If not already done, also activate WLAN on PC/notebook.

“kathrein_alc_<serialnr.>” (<serialnr.> is the serial number on the rear panel of the device) must appear in the available “Wireless Network Connection”.



Select the “kathrein_alc_<serialnr.>” and press “Connect”.

In the “Connect to a Network” dialogue enter the Security key “kathreinalc” and confirm with “OK”.

3. Connect to PC/laptop



If authentication is successful, the “kathrein_alc_<serialnr.>” must be listed as “connected” under “Wireless Network Connection”.

The ALC can then be operated using the Web browser after entering the address “alc.kathrein”.

Note:

- *If a connection to the ALC cannot be established over the Web browser, the Proxy settings in the Web browser must be deactivated.*
- *If there are conflicts regarding name resolution, the set IP address can alternatively be used (192.168.0.1 (USB) and 192.168.1.1 (WLAN) are preset).*
- *Depending on their settings, in some browsers it may be necessary to write the protocol “http://” in front of the address, e.g. “http://alc.kathrein” instead of “alc.kathrein”.*

3.3 Web interface

The user interface with a Web browser offers almost the same range of functions as the display.

3.3.1 Web browser requirements

The Web interface was especially developed for netbooks, PCs and Tablet-PCs such as the iPad. Operation with smaller units is suboptimal.

The Web interface has been tested on the most common browsers: Internet Explorer, Mozilla Firefox and Apple Safari.

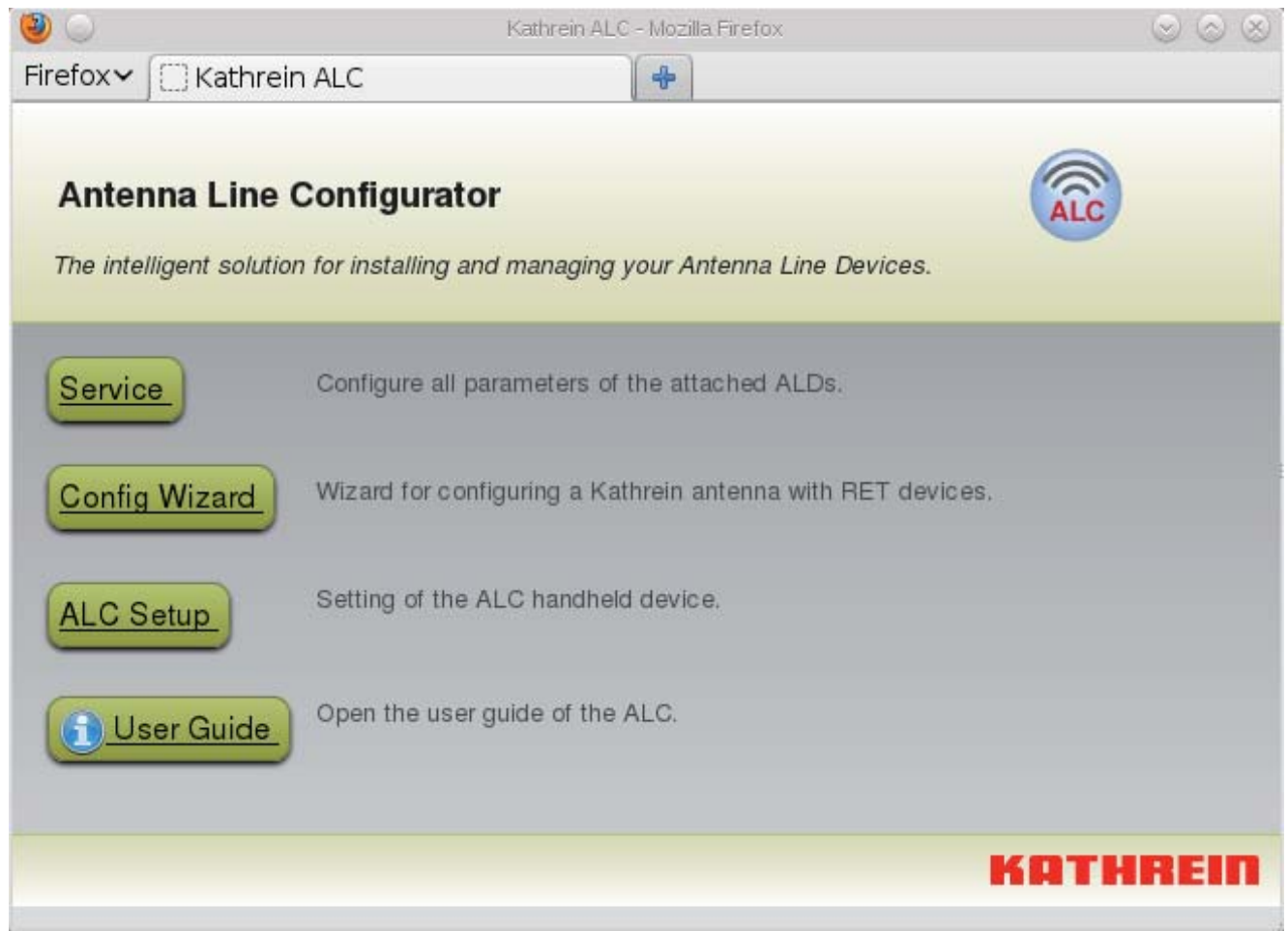
JavaScript must be activated in the Web browser.

Some tasks require work with files. This includes management of ALD software images and of RET configuration data, as well as the download of reports as ZIP archives. Since Tablet PCs hardly support work with individual files, these operations can only be performed restrictedly or not at all.

3. Connect to PC/Laptop

3.3.2 Menu guide

If the Web browser is connected to the ALC, the following start screen appears:



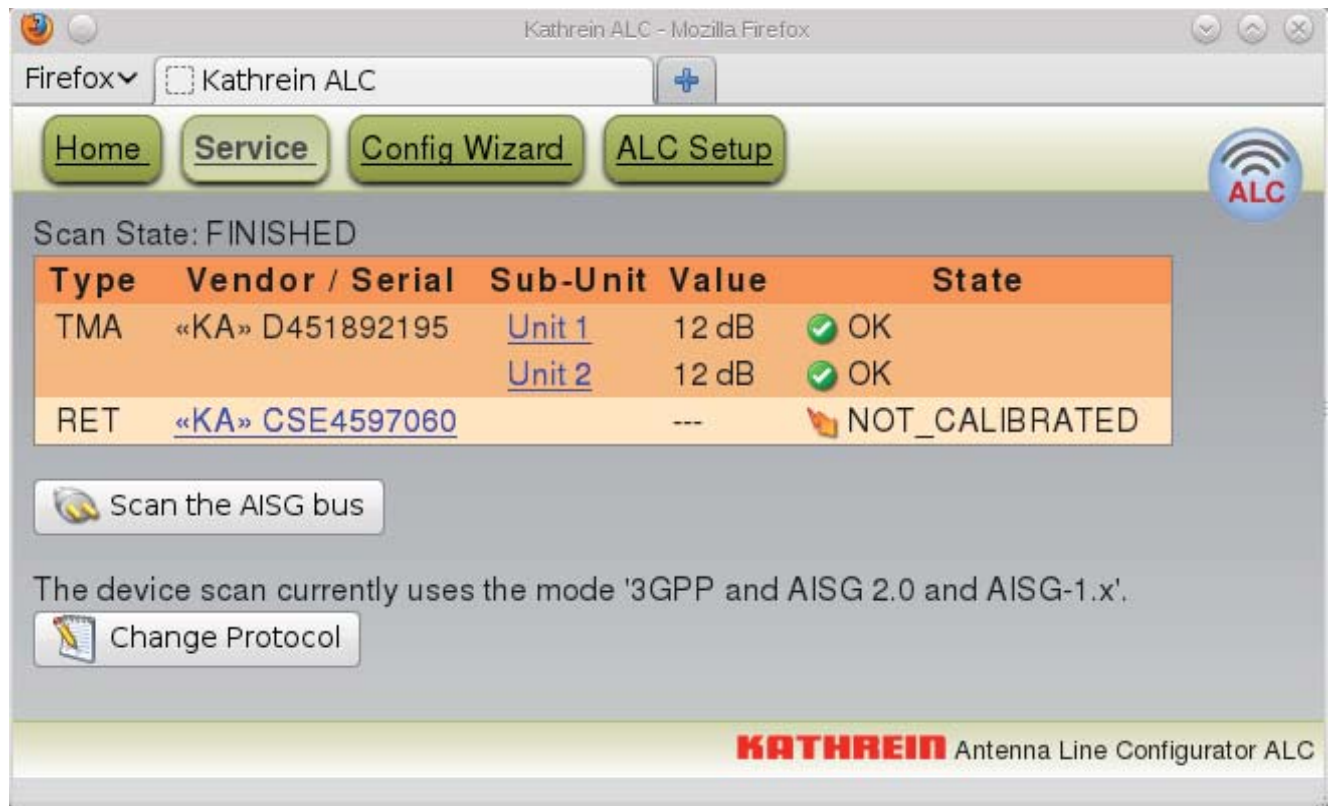
The start screen offers access to all functions:

- **Service:** Creates a connection to the ALDs and allows direct setting of the device configuration.
- **Config Wizard:** The configuration wizard for Kathrein antennas guides users through the necessary steps for correct initial installation of the antenna RETs.
- **ALC Setup:** This item include all functions regarding the ALC device and the files saved on it.
- **User Guide:** Displays user manual.

3. Connect to PC/Laptop

3.3.2.1 Menu item “Service”

The ALDs connected on the AISG bus can be scanned here:



Firefox Kathrein ALC

Home Service Config Wizard ALC Setup

Scan State: FINISHED

Type	Vendor / Serial	Sub-Unit	Value	State
TMA	«KA» D451892195	Unit 1	12 dB	OK
		Unit 2	12 dB	OK
RET	«KA» CSE4597060		---	NOT_CALIBRATED

Scan the AISG bus

The device scan currently uses the mode '3GPP and AISG 2.0 and AISG-1.x'.

Change Protocol

KATHREIN Antenna Line Configurator ALC

If a device is selected, one sees the details that can be configured directly:

3. Connect to PC/Laptop

Kathrein ALC - Mozilla Firefox

Firefox Kathrein ALC

Home Service Config Wizard ALC Setup

RET «KA» CSE4597060

RET «KA» CSE4597060

Refresh

Tilt --- Calibrate RET

RET State NOT_CALIBRATED Clear Errors

RET Details

Sector ID	NO
Antenna Type	739 665 - 806-960 MHz
Antenna Serial	
Antenna Bearing	3°
Tilt Range	0° - 10°
Mechanical Tilt	0°
Product Number	«KA» 86010149
Serial Number	CSE4597060
Hardware Version	HW_V_A01
Software Version	FW_V02.04.00
Protocol Version	AISG 1.1

Installation Details

Base Station ID	A82
Installer ID	KA
Installation Date	030512

Commands

Reset Device

KATHREIN Antenna Line Configurator ALC

3. Connect to PC/Laptop

3.3.2.2 Menu item "Config Wizard"

The wizard simplifies the initial installation of the RETs of a Kathrein antenna. The assignment of the RETs to the respective antenna ports is especially easier to see:

The screenshot shows the 'Config Wizard' interface in a Mozilla Firefox browser window. The browser address bar shows 'Kathrein ALC'. The navigation menu includes 'Home', 'Service', 'Config Wizard', and 'ALC Setup'. The 'Config Wizard' tab is active.

3. Assign RETs

Assign RETs to the selected antenna

Please select the antenna model that you want to configure:

80010805 with 4 RETs

Please select the RETs that shall be assigned to this antenna:

- A** 800 108 05 - 790-960 MHz RET «KA» CSE4597060
Previously configured antenna for this RET: 739 665 - 806-960 MHz
Previous Antenna Serial ", Sector ID "
- B** 800 108 05 - 790-862 MHz
- C** 800 108 05 - 1710-2170 MHz
- D** 800 108 05 - 2490-2690 MHz

Navigation buttons: Previous, Next, Finish

KATHREIN Antenna Line Configurator ALC

3. Connect to PC/Laptop

3.3.2.3 Menu item “ALC Setup”

An additional menu with settings for the ALC device falls under this category:
The menu offers the following functions:

- **Status Display:** Shows diverse device information
- **RET Config Data Files:** Maintenance of configuration files for the RETs. These files allow configuration of RETs for certain antennas. The ALC already possesses this data for Kathrein RETs; the individual files are only required in exceptional cases.
- **ALD Software Images:** File maintenance to perform a software update on the connected ALDs.
- **Report Files:** Maintenance of report files saved on the ALC device. The files can either be downloaded individually or in total as ZIP files.

4. Calibrating the touchpad

The touch panel is calibrated. Deterioration and wear may make it necessary to re-calibrate the touch panel.

Calibration procedure:

1. When switching on, place finger on touch and keep pressed. As soon as the message "touch adjustment ?" appears, let go of touch.
2. One second later, place finger on touch for at least 1 second.
3. Follow instructions for calibration (2 points, touch upper left and lower right):

Afterwards, switch ALC off and then on again.

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This paragraphs covers the topic „Kathrein open source license conformity“.

5.1 Used Open Source Components

The following open source SW licenses are used in the ALC software package:

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LGPLv2.1	2.1	http://www.opensource.org/licenses/LGPL-2.1
zlib license	1.2.5	http://www.zlib.net/
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6. Appendix A

6.1 Java platform



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6. Appendix A

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```
00000 000 000000000. 0000000 00000
`888' `8'`888 `Y88. `8888 d8'
888 8 888 .d88' Y888..8P
888 8 88800088P' `8888'
888 8 888 .8PY888.
`88. .8' 888 d8' `888b
`YbodP' o888o o888o o88888o
```

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6. Appendix A

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6. Appendix A

6.3 RUNTIME LIBRARY EXCEPTION

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Version 2, June 1991

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6. Appendix A

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6. Appendix A

6.6 Zlib license

zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.5, April 19th, 2010

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