



## Instruction Manual

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## Introduction

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### Security and surveillance technology for museums, exhibitions, private collections and luxury goods trade

Thank you for choosing the **Human Detector *Flex*** alarm system.

A powerful, compact and quick-to-install security and surveillance system, it supports you in protecting your exhibits and valuables. Whether paintings, sculptures or automobiles, the **Human Detector *Flex*** system features a wide range of applications.

Sensors and alarm modules are available for almost every task. These are extremely small and can be operated with inexpensive lithium batteries, which last for up to 10 years.

#### (HDF - **Human Detector *Flex***)

<b>HDF-3D PROTECT</b>	The <b>HDF-3D PROTECT</b> module detects the slightest vibrations (structure-borne sound) and movements. This provides for the effective protection of showcases, pedestals, technical exhibits and vehicles.
<b>HDF-TOUCH</b>	Approaching and touching objects can be easily detected with the <b>HDF-TOUCH</b> module. The system is ideal for securing metallic objects, but can also be used for other purposes.
<b>HDF-HANG</b>	<b>HDF-HANG</b> secures pictures and hanging objects on gallery rails.
<b>HDF-OPTICAL</b>	Pictures, paintings and other hanging objects can be secured sustainably, simply and contact-free with <b>HDF-OPTICAL</b> .
<b>HDF-EXTERN</b>	External sensors with an alarm output (NO or NC) can be connected directly to the <b>HDF-EXTERN</b> module. This allows the <b>Human Detector <i>Flex</i></b> System to be extended as required.
<b>HDF-WIRE</b>	Securing with tear-off wires is in many cases the cheapest and quickest way to secure "small items" against theft. The <b>HDF-WIRE</b> module supports up to two signalling circuits.
<b>HDF-DOOR</b>	<b>HDF-DOOR</b> secures doors, flaps and inspection hatches.
<b>HDF-SHOCK</b>	The <b>HDF-SHOCK</b> module detects heavy blows, position changes and vibrations.
<b>HDF-REMOTE</b>	The <b>HDF-REMOTE</b> panic button allows for alarm messages to be easily and invisibly sent by supervisors.

All alarm modules, with the exception of the **HDF-REMOTE** panic button, can additionally be operated with an external power supply unit. The connection to the alarm centres (**HDF-BUZZER** and **HDF-SPEECH**) and the **HDF-AMD** alarm management system is wireless via radio. The communication that takes place in the 868 MHz range uses a special modulation method that easily penetrates solid walls and large buildings. The ranges achieved here are often several times greater than those that can be achieved with conventional systems.



### The HDF-BUZZER and HDF-SPEECH alarm centres

Two systems with different extension levels are available with the **HDF-BUZZER** and **HDF-SPEECH** alarm centres.

The basic system **HDF-BUZZER** enables the output of a loud alarm via a built-in piezo siren (buzzer). In addition, three potential-free relay outputs are available. These can be individually controlled by the alarm modules. Alarm messages are acknowledged, and the system is armed and disarmed via an external input using a key switch.

The **HDF-SPEECH** alarm centre also has a voice output. Voice and sound messages are stored as .mps3 files and used as alarm messages.

The **HDF-AMD** unit (**AMD = Alarm Management Device**) enables targeted forwarding of alarm messages to IP-based control centers according to **SIA-DC09** standard and Ademco CID encoding. A precise distinction is made here as to who is responsible for which alarm. Likewise, the **HDF-AMD** in combination with the **HDF-ANTIJAM** monitors the radio network for interfering signals. The **HDF-AMD** is an open system. Future projects - such as the transmission of measurement data (temperature, humidity, etc.), but also the connection to video control centres - can be implemented.

## HDF-CONFIGURATOR Software

### General

The **HDF-CONFIGURATOR** manual describes the functionality of the Windows configuration software for the backup technology of the **Human Detector Flex** family.

The software enables the programming of the **HDF-BUZZER** and **HDF-SPEECH** alarm centres via USB interface. The **HDF-AMD** alarm management system can also be set using a wireless network.

In addition, the **HDF-CONFIGURATOR** software enables the security engineer to create optimised installations and adapt these to their security requirements. The software supports the creation of documentation and saves log and configuration files.

Basic agreements for the operating instructions:

#### HDF sensors

The term HDF sensors refers to **Human Detector Flex** sensors. In the operating instructions the terms sensors, alarm modules, alarm sensors, sensor modules, detectors and the individual product names (such as **HDF-DOOR**, **HDF-EXTERN**, etc.) are used. In all cases, the sensors are HDF sensors.

#### HDF alarm centres

The term HDF alarm centres refers to **Human Detector Flex** alarm centres. In the operating instructions the terms alarm centres, radio control centres, alarm units and the individual product names (**HDF-BUZZER** and **HDF-SPEECH**) are used. In all cases, these are HDF alarm centres.

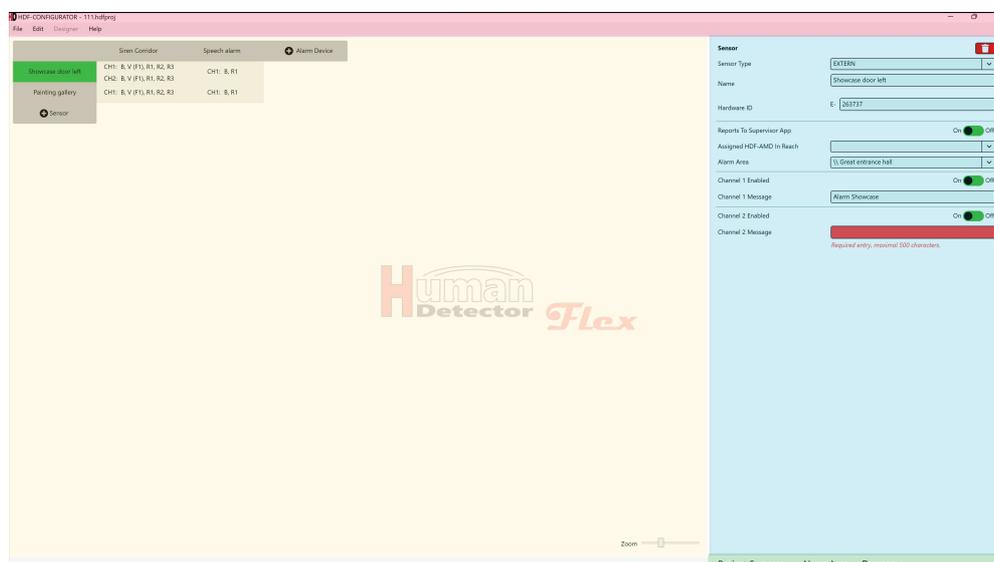
#### HDF alarm management device

The term HDF alarm management device refers to **Human Detector Flex** alarm management device. In the operating instructions the terms alarm management device, HDF alarm management system, alarm management system and the individual product names (**HDF-AMD**) are used. In all cases, it is an HDF alarm management device. The abbreviation **AMD** refers to **A**larm **M**anagement **D**evice.

#### Designation of screen panels

The screen of the **HDF-CONFIGURATOR** software is used to control your security installation. The manufacturer, **heddi er electronic GmbH**, has placed great emphasis on ensuring that all relevant information is always in the user's field of vision. The operating steps involve only a few repetitive actions. These are easily recognisable and enable a quick familiarisation with the **HDF-CONFIGURATOR** software.

We would like to explain the main areas of the screen in advance, in order to facilitate these operating instructions.



### Main menu

The main menu with a **red** background contains the most frequently used functions for controlling the software.

### Additional menu

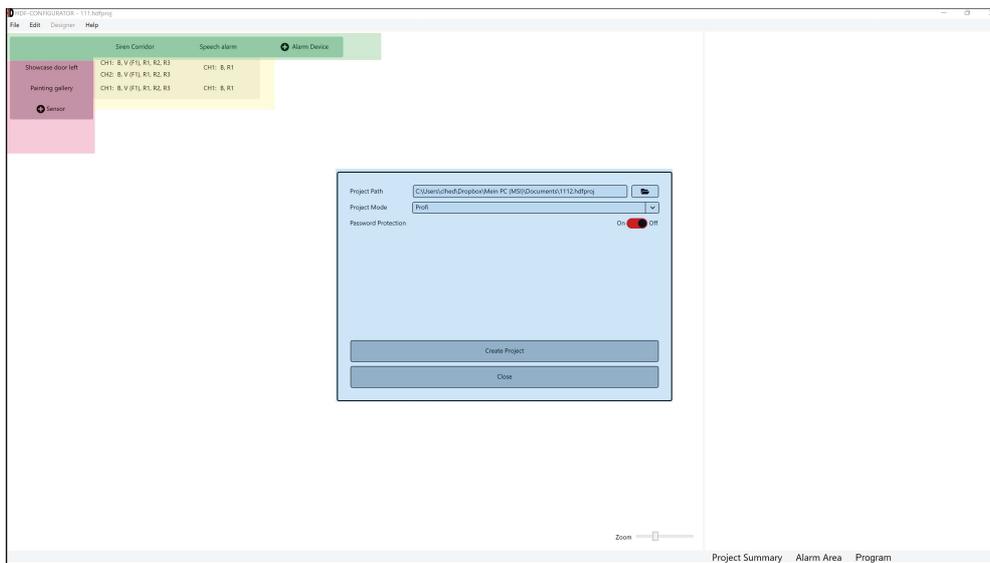
The additional menu with a **green** background allows direct access to frequently used functions. The additional menu can display different contents depending on the operating modes.

### Configuration area

The overall configuration of the project is displayed in the configuration area with a **yellow** background. An integrated zoom function facilitates the display of large projects.

### Functional area

Entries and settings are made in the **turquoise/blue** highlighted function area. This is the main working area of the **HDF-CONFIGURATOR** software.



### Overview sensors

The column with a **red** background shows the project HDF sensors.

### Overview alarm units

The line with a **green** background shows the project HDF alarm units (alarm centres and alarm management devices).

### Linking area

The linking area with a **yellow** background shows the assignment of HDF sensors to HDF alarm units.

### Action window

Situation-related entries are made and actions are started in the action window with a **turquoise/blue** background. The action window is only visible during the respective action.

The **Human Detector Flex** systems can be used in three different operating modes. With the exception of operation in **EASY-Mode**, the use of the **HDF-CONFIGURATOR** software is mandatory for the other two operating modes.

### EASY-Mode

**EASY-Mode** is the most simple operating mode. It is intended for small security system installations. In **EASY-Mode** up to 30 alarm sensors can in principle be connected to one or more alarm centres (**HDF-BUZZER** or **HDF-SPEECH**). The connection only requires a simple pairing at the push of a button on the respective sensor. All alarm sensors on an alarm centre have the same alarm behaviour. An individual alarm form is not possible for individual alarm sensors. Alarm sensors that have already been created cannot be deleted individually.

The **HDF-CONFIGURATOR** software in **EASY-Mode** is only required for changing the alarm behaviour of the respective **HDF-BUZZER** or **HDF-SPEECH** unit. This change is then valid for all **paired** alarm sensors.

### **MULTI-Mode**

The use of the **HDF-CONFIGURATOR** software is mandatory in **MULTI-Mode**. The complete installation of the security system is initially planned with the software. After completion of the planning, the user can enter the hardware identifiers (ID codes) of the individual **Human Detector Flex** components. The project data generated in this way can now be transferred to the various alarm centres (**HDF-BUZZER** or **HDF-SPEECH**) with the **HDF-CONFIGURATOR** software via USB cable.

The **MULTI-Mode** provides the user with a high degree of flexibility. Each sensor and each alarm centre can be individually programmed. The maximum number of alarm sensors per alarm centre is 200. The **HDF-CONFIGURATOR** software also generates up-to-date project documentation.

### **PROFI-Mode**

The use of the **HDF-CONFIGURATOR** software is also mandatory in **PROFI-Mode**. The **PROFI-Mode** is a powerful extension of the **MULTI-Mode**. An **HDF-AMD** alarm management system is installed in addition. This unit controls and evaluates all alarm and system messages. The information obtained in this way is forwarded specifically to a local or external control center. The settings required for commissioning are made with the **HDF-CONFIGURATOR** software. The functions of the **MULTI-Mode** installation are completely retained in **PROFI-Mode**. Updating from **EASY** to **MULTI-Mode** or from **MULTI** to **PROFI-Mode** is possible at any time. Moving in the opposite direction is feasible, but will always lead to restrictions in functionality.

### ***Note:***

You can download the latest version of the **HDF-CONFIGURATOR** software from the manufacturer's download server. More information and access data will be provided after the purchase of the corresponding components.

## **Safety instructions**

### ***Important safety instructions!***

The **HDF-CONFIGURATOR** manual should be studied before commencing with the programming/set-up. The installation of the **Human Detector Flex** Systems in conjunction with the **HDF-CONFIGURATOR** software (**MULTI** and **PROFI-Mode**) should only be carried out by a trained and experienced technician.

Projects should be saved regularly.

Handle the stored projects carefully and protect them from unauthorized access.

**Check all settings after programming has been carried out. Test the programmed units for this. Possible errors can then immediately be detected.**

The following system requirements are necessary to ensure error-free operation:

- PC with Windows 10 operating system or higher
- USB interface
- WIFI adapter (2.4 GHz)

## General terms of use

The use of the software is subject to the "**General Terms of Use**". These are agreed to with the installation of the **HDF-CONFIGURATOR** software.

### General Terms of Use for the Configuration Software **Human Detector Flex** - Configurator (HDF-CONFIGURATOR) of heddier electronic GmbH

**Last updated:** 01 January 2022

#### 1 Scope

1.1 These General Terms of Use regulate the use of the configuration software **HDF-CONFIGURATOR** (hereinafter referred to as "**software**") between the user (hereinafter referred to as "**client**") and **heddierelectronic Gesellschaft für innovative Datensysteme mbH** (hereinafter referred to as "**heddierelectronic**").

The **software** enables the setting and configuration of various alarm devices from the **Human Detector Flex** range. The application profiles created in this way are transferred to the respective devices via USB cable or WLAN. Application profiles can be saved and used for documentation.

1.2 The **software** is described and advertised on the website [www.human-detector.com](http://www.human-detector.com) for museums, cultural institutions, galleries, institutional collectors and comparable persons and enterprises. The **software** is used exclusively by the institutions and persons named here in accordance with the following General Terms of Use. The users of the **software** are usually technicians employed by these institutions. The General Terms of Use can be saved and/or printed out.

1.3 Usage is only offered to entrepreneurs, tradesmen, freelancers and public institutions. Consumers in the sense of §13 BGB (German Civil Code) are not offered usage.

#### 2 Prerequisites for use

2.1 The software can be downloaded free of charge from the [www.human-detector.com](http://www.human-detector.com) website. The **client** needs to complete an online registration before downloading. The data provided in the registration will be checked by **heddierelectronic**. The client will be sent a confirmation email with a download link valid for a limited period of time.

2.2 **heddierelectronic** has the right not to accept individual registrations and to refuse the confirmation email. This is particularly the case if the data sent with the registration gives rise to the suspicion that the user is not a user pursuant to 1.2.

2.3 The **client** has the right to install the software on several end devices (personal computers with the Microsoft Windows operating system).

2.4 The **client** confirms the General Terms of Use during the installation of the **software**. The installation without confirmation and the associated acceptance of the **General Terms of Use** is not possible.

#### 3 Prices

3.1 Usage of the **software** is free of charge.

3.2 **heddierelectronic** reserves the right to raise prices for future additional **software** modules. It is not necessary to purchase the additional modules to use the **software**.

#### 4 Liability

4.1 **heddierelectronic** will only pay damages or compensation for futile expenses, regardless of the legal reason (e.g. breach of duty, tort), to the following extent:

a) in the case of intent, in the full amount;

b) in the event of gross negligence, in the amount of the typical and foreseeable damage that should have been prevented through duty of care;

c) in other cases, only in the event of a breach of a material contractual obligation and in the event of default, to compensation for typical and foreseeable damage, limited to the costs of the **Human Detector Flex** hardware directly affected by the installation.

4.2 The statutory liability for personal injury and under the Product Liability Act shall remain unaffected.

4.3 In case of data loss, **heddier** is only liable for damages that would have occurred even if the **client** had properly backed up the data (see 5.3).

4.4 **heddier** assumes no liability for the proper functioning of the **software** on all end devices available on the market.

## 5 Client obligations

5.1 The **client** shall take reasonable precautions in the event that the **software** does not work properly in whole or in part. For this purpose, **heddier** offers the possibility to operate the **Human Detector Flex** alarm systems in **EASY-Mode**. The use of the **software** is not necessary in this operating mode with a reduced range of functions.

5.2 The **client** shall thoroughly test the **software** for its usability for its intended purpose before using it in an operational manner. In addition, clients will familiarize themselves in the usage of the **software**.

5.3 The **client** shall back up data in accordance with state-of-the-art technology and procedures. This ensures that the current data from data files held in machine-readable form can be reproduced with reasonable effort.

5.4 The **client** shall take appropriate measures to protect **software** and data backups from unauthorised access.

5.5 The **client** is obliged to immediately report any occurring **software** error to **heddier**.

## 6 Warranty

6.1 **heddier** guarantees from the time of handover that the **software** essentially corresponds to the description in the manual with regard to its functionality and is executable with the above-mentioned end devices on the above-mentioned operating system. A temporal guarantee is not specified, as updated and/or extended versions of the **software** may be published at a later date.

6.2 **heddier** is at liberty to remedy the defect reported by the **client** within a reasonable period of time by means of a maximum of three replacement deliveries or subsequent rectifications. If **heddier** does not succeed in doing so, the **client** shall be entitled to demand a reduction.

6.3 **heddier** does not guarantee that the **software** meets the **client's** needs, functions with the **client's** programmes or that the **software** is suitable for the **client's** purposes.

## 7 Support

7.1 Telephone or email support in respect of the **software** as per contract is included in the subscription fees to the usual extent.

7.2 Not included in the support are training in operation and installation of the **software** and services for the end devices used by the **client**. All fee-based support services are charged by **heddier** in consultation with the **client** at the current hourly rate in 10 minute intervals.

## 8 Applicable law and place of jurisdiction

8.1 The law of the Federal Republic of Germany shall apply to the exclusion of the UN Convention on Contracts for the International Sale of Goods.

8.2 If the **client** is a merchant, a legal entity under public law or a trust under public law, the place of jurisdiction shall be Coesfeld.

## 9 Other

9.1 All supplements and amendments to these General Terms and Conditions of Use must be in writing to be effective. The contracting parties shall also satisfy this requirement by sending documents in text form, in particular by fax or email, unless otherwise provided for individual declarations in this contract.

9.2 Additional agreements, supplements and amendments to the General Terms and Conditions of Use between **heddier** and the **client** require the written consent of **heddier's** executive board to become effective. This is especially true for the assumption of additional guarantees.

9.3 Should it transpire that provisions of the General Terms of Use are invalid or void, this shall not affect the contract as a whole. Rather, the invalid or void provision shall be replaced by a valid provision that comes as close as possible to the meaning of the General Terms of Use.

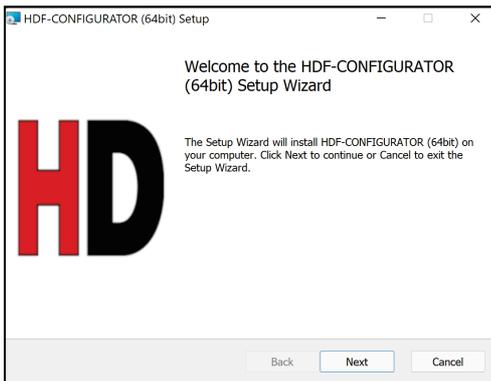
## Installation

To install the English version of the **HDF-CONFIGURATOR** software, you need the installation file **HDF-CONFIGURATOR-en.msi**. These can be obtained from **heddi er electronic GmbH** on request.

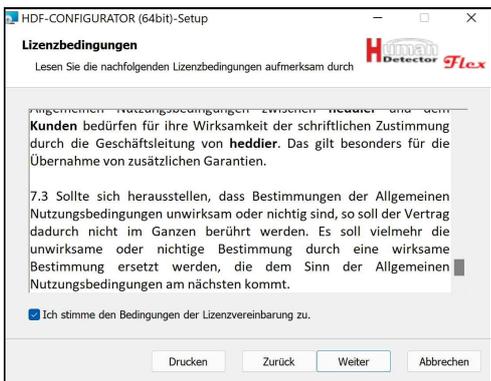
### *Important note:*

Please check installation files carefully you may find in forums or on internet platforms. **heddi er electronic GmbH** cannot assume any responsibility and will not provide support for programmes from non-official sources.

Start the installation software by running the **HDF-CONFIGURATOR-en.msi** file.

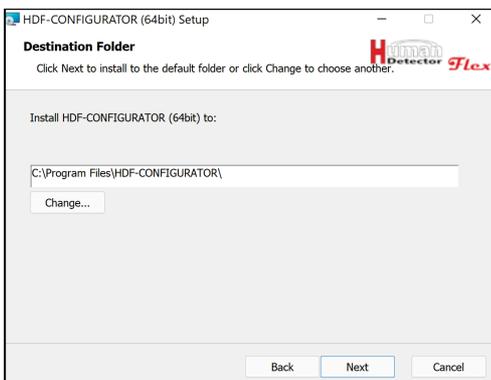


Confirm the action window by pressing **[Next]**.

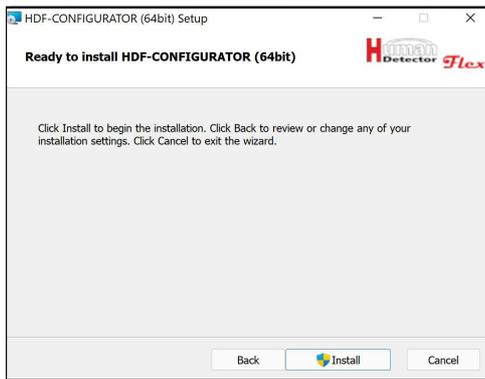


Please read the **"General Terms of Use"** carefully and agree to them if you wish to use the **HDF-CONFIGURATOR** software. If you wish, you can also print out the terms of use.

Click **[Next]** to change to the next window.



If necessary, you can change the installation location of the software here. The installation location must be on your personal computer and not on an outsourced network partition.



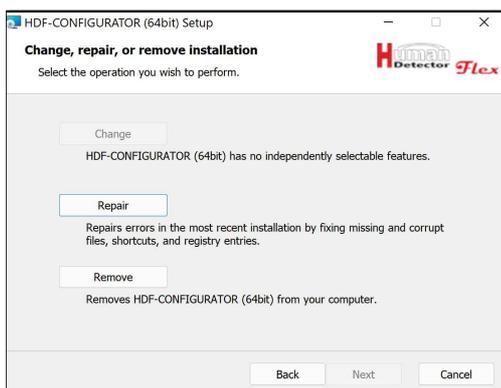
After entering all the required information, you can start installing the programme files by pressing **[Install]**.



After all files have been set up, you can finish the installation by pressing **[Finish]**. The **HDF-CONFIGURATOR** software can now be started from the Windows start menu.

### **Repair and removal of the HDF-CONFIGURATOR software**

Start the **HDF-CONFIGURATOR-en.msi** file again. The installation software recognises the original installation and provides the following options:



You can repair or completely remove a possibly damaged installation here.

### ***Note:***

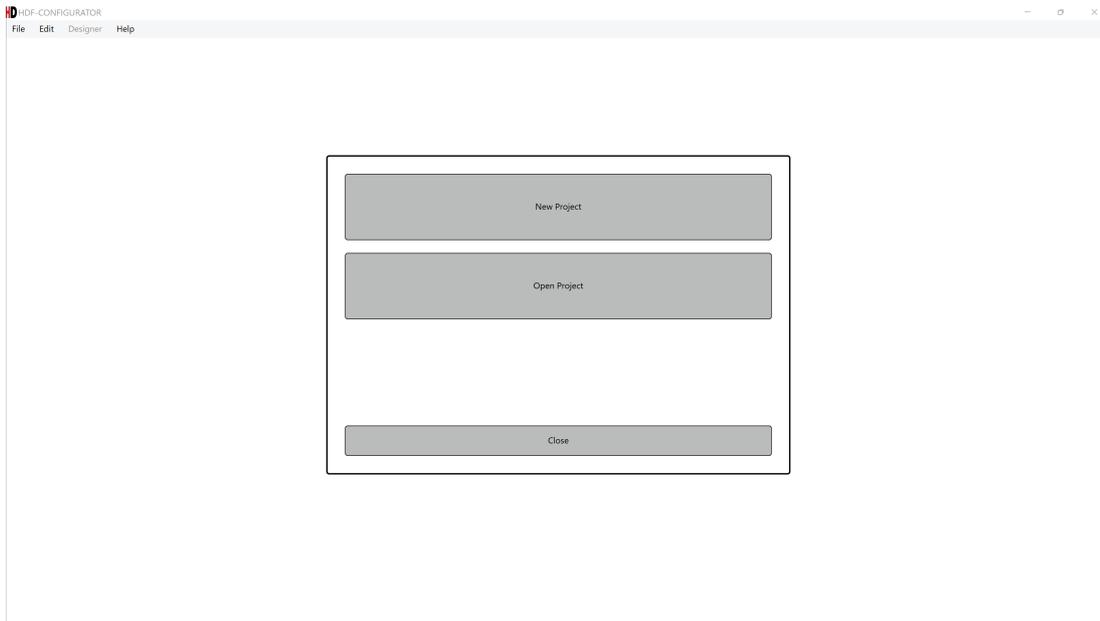
The repair only applies to programme files. Projects you have created cannot be edited with this function. If you store your project files under the installation directory, they will also be deleted when you "remove" these.

### **Updating the HDF-CONFIGURATOR software**

Start the installation software first, if you wish to carry out an update. If the software version is newer, the update will automatically be carried out. If the installation software corresponds to an older version, this will be indicated by an error message and the installation process will be aborted.

## Starting HDF-CONFIGURATOR

After starting the **HDF-CONFIGURATOR** software, the following screen appears:



You can choose one of the following three options in the action window:

### **New Project**

Creates a new **Human Detector Flex** project.

### **Open Project**

Opens an existing **Human Detector Flex** project.

### **Close**

Closes the central selection window and provides access to menus and functions of the **HDF-CONFIGURATOR** software that can be used at this time.

### ***Note:***

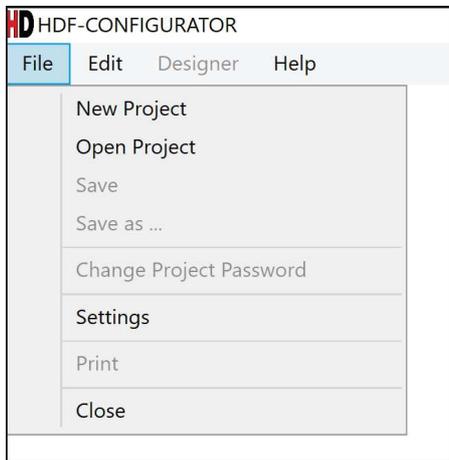
If you want to exit the **HDF-CONFIGURATOR** software, you first need to close the central action window.

## HDF-CONFIGURATOR menus

The **HDF-CONFIGURATOR** software offers four function blocks in the main menu. These are grouped together in the usual way in a menu bar at the top of the screen.

### File menu

The **File** menu contains the following functions.



### New Project

Creates a new **Human Detector Flex** project. This function corresponds to the action window at the start of the programme.

### Open Project

Opens an existing **Human Detector Flex** project. This function corresponds to the selection menu at the start of the programme.

### Save

Saves the current project under the previously selected project name. There will be no additional prompt.

### Save as

Saves the current project under a project name, which can be defined in a selectable directory.

### Change Project Password

If a password already exists for the project, it can be changed here. If the project has been saved without a password so far, a password can be assigned to the project here.

### *Notes:*

The password consists of at least 6 characters. Please choose a "**strong**" password, e.g. consisting of a random combination of numbers and letters.

The selected password is the project password. It is used to store and protect the project. It is not to be confused with the passwords of the alarm centres (**HDF-BUZZER** and **HDF-SPEECH**) and the password of the alarm management system (**HDF-AMD**).

Save the password in a secure location. **If the password is lost, the project can no longer be opened and edited.**

### Settings

Enables the selection of the language for the guidance of the user of the **HDF-CONFIGURATOR** software.

### Print

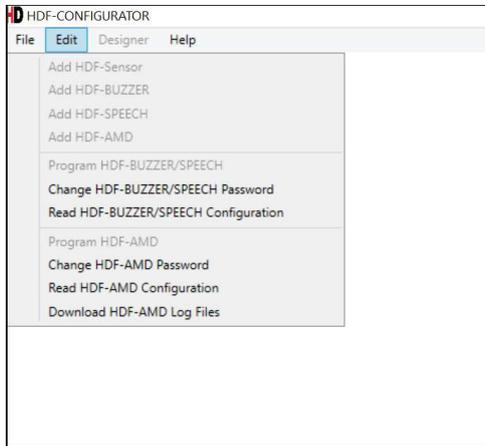
Prints the complete documentation of a **Human Detector Flex** project. The print output can be set within the scope of the Windows options.

**Close**

Exits the **HDF-CONFIGURATOR** software. If the project has not been saved, a confirmation prompt will be displayed.

**Edit menu**

The **Edit** menu contains the following functions.

**Add HDF-Sensor**

Enables the addition of new **Human Detector Flex** sensors.

**Add HDF-BUZZER**

Enables the addition of a new **HDF-BUZZER** alarm centre.

**Add HDF-SPEECH**

Enables the addition of a new **HDF-SPEECH** alarm centre.

**Add HDF-AMD**

Enables the addition of a new **HDF-AMD** alarm management device.

**Programming HDF-BUZZER/SPEECH**

Enables the transfer of project data to an **HDF-BUZZER** or **HDF-SPEECH** unit.

**Change HDF-BUZZER/SPEECH Password**

Enables changing the password of an **HDF-BUZZER** or **HDF-SPEECH** unit.

**Read HDF-BUZZER/SPEECH Configuration**

Enables reading the project data of an **HDF-BUZZER** or **HDF-SPEECH** unit.

**Programming HDF-AMD**

Enables the transfer of project data to an **HDF-AMD** unit.

**Change HDF-AMD Password**

Enables changing the password of an **HDF-AMD** unit.

**Read HDF-AMD Configuration**

Enables reading the project data of an **HDF-AMD** unit.

**Download HDF-AMD Log Files**

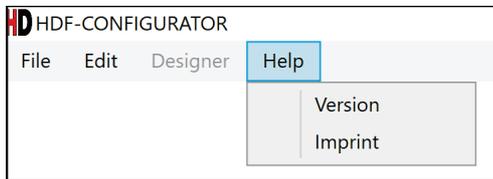
Enables downloading the log files of an **HDF-AMD** unit.

### Designer menu

The **Designer** menu is deactivated in the current **HDF-CONFIGURATOR** software. **HDF-DESIGNER** is a future software module to support the graphical design work of building services planners and architects.

### Help menu

The **Help** menu contains the following functions.



### Version

Displays the current version number of the **HDF-CONFIGURATOR** software.

### Imprint

Displays information about the **HDF-CONFIGURATOR** software manufacturer.

In addition to the described menu bar in the upper area of the screen, the software contains additional operating elements in the lower area.

### Zoom slider

The [**Zoom**] slider allows you to zoom in and out of the project display in the configuration area. This enables the convenient display of large projects. As soon as the display is enlarged, a horizontal or vertical scroll bar is automatically displayed - depending on the orientation.

Depending on the selected project mode, a maximum of three additional menu items are displayed in the lower corner of the screen (additional menu).

### Project Summary

After selecting this function, the "**General Information**" of the project can be edited and displayed. This menu item is visible in all operating modes (**PROFI**, **MULTI** and **EASY-Mode**).

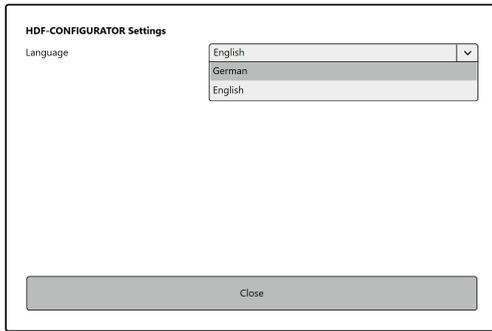
### Alarm Area

This function maps the room layout of the building in which the objects to be secured are located. The rooms can be named individually. A hierarchical structure in the form of a tree structure is available. This function is required to simplify the classification of alarms. This menu item is only visible in **PROFI-Mode**.

### Programming

Enables the transfer of project data to an **HDF-BUZZER**, **HDF-SPEECH** or **HDF-AMD** unit. This menu item is visible in all operating modes (**PROFI**, **MULTI** and **EASY-Mode**).

## Settings



In the **Settings** menu the language of the **HDF-CONFIGURATOR** software can be set. Additional languages can be added to the software. Please contact our technical sales department for more information about language extension. Changing the set language will become effective after restarting the software.

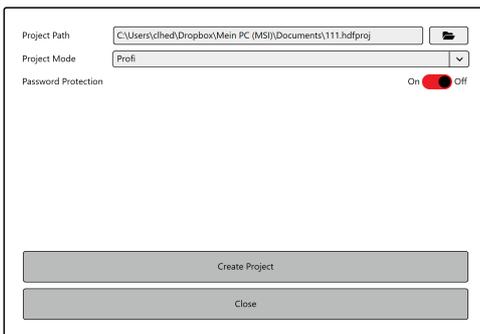
## Manage HDF projects

All important settings for securing exhibits with the **Human Detector Flex** technology are stored in 'projects'. The associated files are stored on your computer with the file extension **\*.hdfproj**. This extension is unique and should only be used by the **Human Detector Flex** systems.

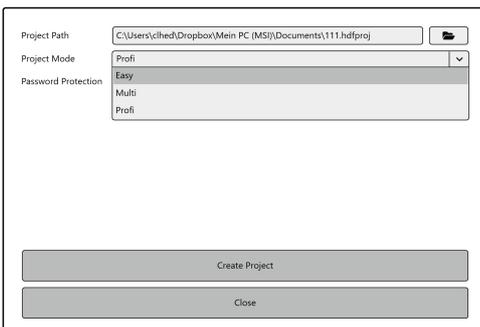
Several functions are available for the administration and maintenance of HDF projects.

## Creating a new HDF project

Use the function from the action window when starting the programme or from the **[File]** menu, if you wish to create a new HDF project. In both cases, you will first be shown a selection window. The storage location and project name can be set in this window.



Another window will be displayed where you can select the desired operating mode.



You can choose from the following:

**EASY-Mode**

**EASY-Mode** is the most simple operating mode. It is intended for small security system installations. In **EASY-Mode** up to 30 alarm sensors can in principle be connected to one or more alarm centres (**HDF-BUZZER** or **HDF-SPEECH**). The connection only requires a simple pairing at the push of a button on the respective sensor. All alarm sensors on an alarm centre have the same alarm behaviour. An individual alarm form is not possible for individual alarm sensors. Alarm sensors that have already been created cannot be deleted individually.

The **HDF-CONFIGURATOR** software in **EASY-Mode** is only required for changing the alarm behaviour of the respective **HDF-BUZZER** or **HDF-SPEECH** unit. This change is then valid for all "paired" alarm sensors.

**MULTI-Mode**

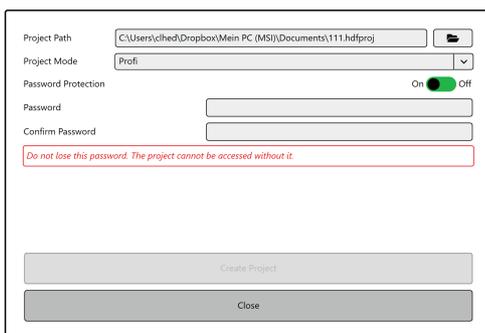
The use of the **HDF-CONFIGURATOR** software is mandatory in **MULTI-Mode**. The complete installation of the security system is initially planned with the software. After completion of the planning the user can enter the hardware identifiers (ID codes) of the individual **Human Detector Flex** components. The project data generated in this way can then be transferred to the various alarm centres (**HDF-BUZZER** or **HDF-SPEECH**) with the **HDF-CONFIGURATOR** software via USB cable.

The **MULTI-Mode** provides the user with a high degree of flexibility. Each sensor and each alarm centre can be individually programmed. The maximum number of alarm sensors per alarm centre is 200. The **HDF-CONFIGURATOR** software also generates up-to-date project documentation.

**PROFI-Mode**

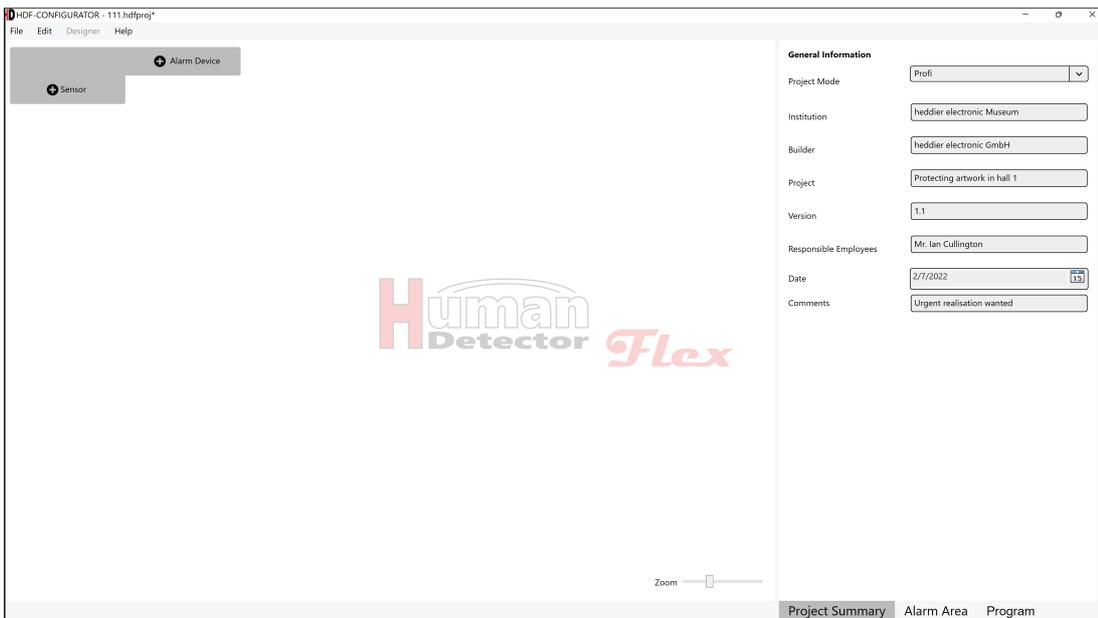
The use of the **HDF-CONFIGURATOR** software is also mandatory in **PROFI-Mode**. The **PROFI-Mode** is a powerful extension of the **MULTI-Mode**. An **HDF-AMD** alarm management system is installed in addition. The device monitors and evaluates all alarm and system messages. The information obtained in this way is forwarded specifically to a local or external control center. The settings required for commissioning are made with the **HDF-CONFIGURATOR** software. The functions of the **MULTI-Mode** installation are completely retained in **PROFI-Mode**. Updating from **EASY** to **MULTI-Mode** or from **MULTI** to **PROFI-Mode** is possible at any time. Moving in the opposite direction is feasible, but will always lead to restrictions in functionality.

The project password can then be assigned. Move the "Password Protection" slider to the ON position.



Re-enter the password after the first entry. It is important that both password entries are identical. Only then can the project be created by pressing the **[Create Project]** button.

"General Information" is now displayed in the communication window. These can be completed or changed at any time.



The following entries are possible:

**Project Mode**

Three operating modes (**EASY**, **MULTI** and **PROFI-Mode**) are available. The display of the function area and the selection of menu items in the additional menu change depending on the selected mode.

**Institution**

Input field for the name of the institution (e.g. Art Gallery XYZ, new annex)

**Builder**

This field may contain the name of the installing company (e.g. Smith Security Technology).

**Project**

Input field for the project name (e.g. Securing new picture hall)

**Version**

Input field for a version number. It may be necessary to plan different versions, depending on the project.

**Responsible Employees**

Input field for the responsible employee in the project

**Date**

The date can be entered manually (format: dd.mm.yyyy) or selected from a calendar. The date format adjusts automatically in other languages.

**Comments**

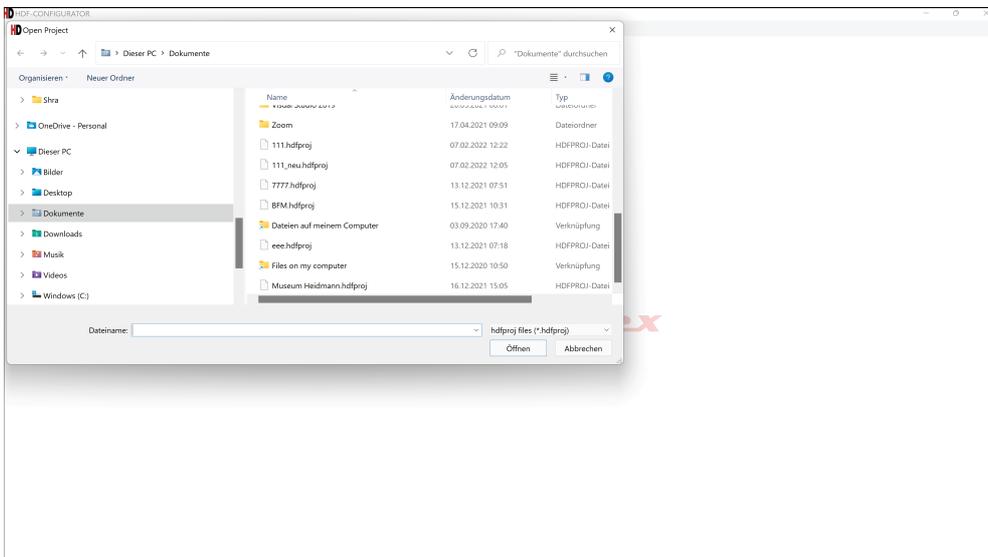
Comments can be saved in this input field.

***Note:***

All input fields have a maximum length of 500 characters. If these cannot be displayed completely, place the cursor in the field and scroll through the input field with the **[Left Arrow]** and **[Right Arrow]** keys.

## Open HDF project

Use the function from the action window when starting the programme or from the **[File]** menu, if you want to open an existing **[HDF project]**. In both cases a selection window will be displayed.



Select the desired project file (file extension \*.hdfproj) and confirm your selection by pressing **[Open]**.

## Save HDF project

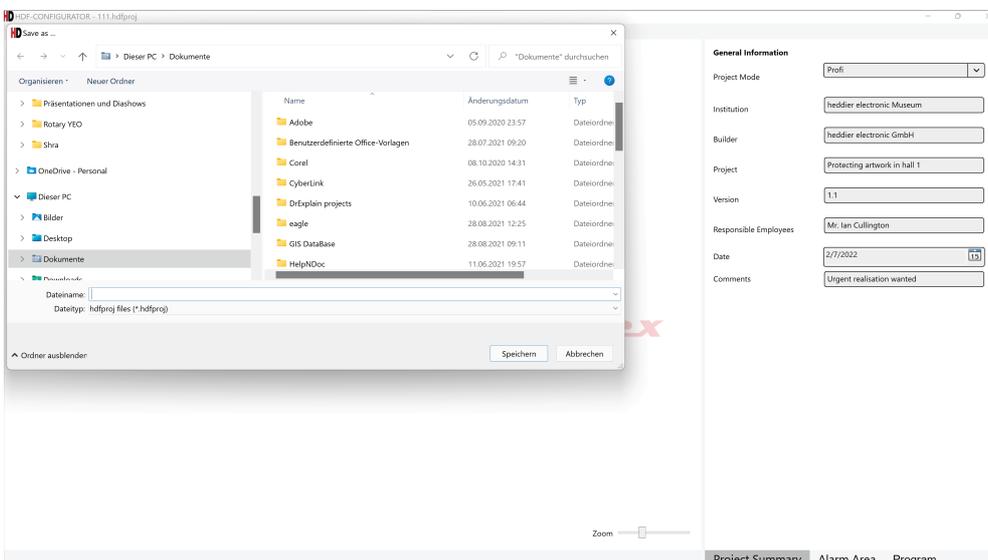
The project is automatically saved by selecting this menu item. No additional window is displayed. The HDF project is saved under the current name. Older files are overwritten without a confirmation prompt.

### Note:

If there is an "\*" after the project name in the top line of the screen, this means that the project still contains unsaved data. Example: **HDF-CONFIGURATOR - Backup.hdfproj\***

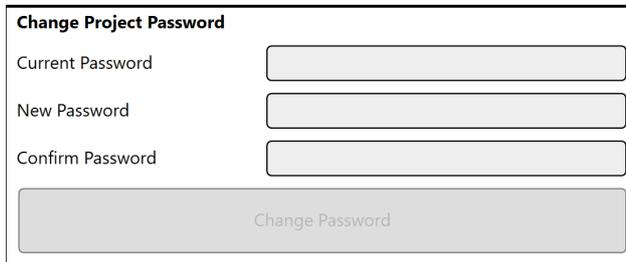
## Save HDF project as

A selection window appears after selecting the menu item **[Save HDF project as]**. There you can enter the project name and select a suitable storage location. Confirm your entry by pressing the save button.



## Change HDF project password

The HDF project password can be changed at any time. The current password needs to be entered first. Then the new matching password needs to be entered twice. The entries are confirmed by pressing [**Change Password**].



Change Project Password

Current Password

New Password

Confirm Password

Change Password

The function can still be executed, even if a password has not been set yet for the project. A current password does not need to be entered in this case.

### *Notes:*

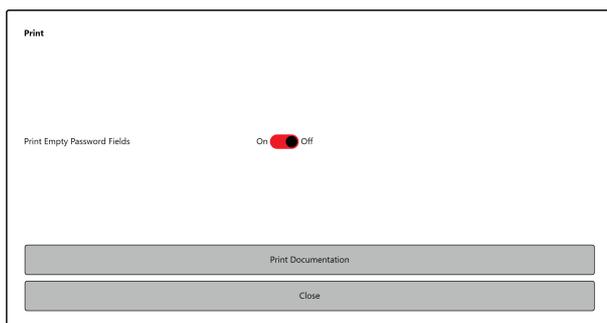
The password consists of at least 6 characters. Please choose a "strong" password, e.g. consisting of random combinations of numbers, letters and special characters.

The selected password is the project password. It is used to store and protect the project. It is not to be confused with the passwords of the alarm centres (**HDF-BUZZER** and **HDF-SPEECH**) and the password of the alarm management system (**HDF-AMD**).

Save the password in a secure location. **If the password is lost, the project can no longer be opened and edited.**

## Print HDF project

A Project created with the **Human Detector Flex** system can be printed at any time. All components and their links and dependencies are clearly described in the project documentation. The documentation shall be in the respective language selected.



Print

Print Empty Password Fields  On  Off

Print Documentation

Close

If desired, password fields can be added to the documentation. The respective passwords can be entered **manually** in these fields by the user. The **"General Information"** is also printed out. There is a signature field at the end of the document. There the user can confirm the data correctness by entering date, name and signature.

The Windows system outputs the print. Various printers and also PDF tools can be controlled.

The **Human Detector Flex** system is one of the few systems that automatically generates complete and seamless project documentation.

### *Safety instructions:*

Handle the project printouts with care and diligence. These contain all security-relevant information, excluding passwords.

Only enter the passwords **manually** if you absolutely wish to do so. Please note that the passwords of the HDF alarm units are not stored in the **HDF-CONFIGURATOR** software. Store the passwords in a different location for a **higher** level of security.

If you forget the passwords, there is **no** possibility to bypass a missing password.

The **Human Detector Flex** system - or individual parts of it - must be reset to the delivery state in this case. All programming steps need to be carried out again. A project documentation which was created previously would be of great help here.

### Add and manage HDF sensors

There are two ways to access the function for adding HDF sensors:

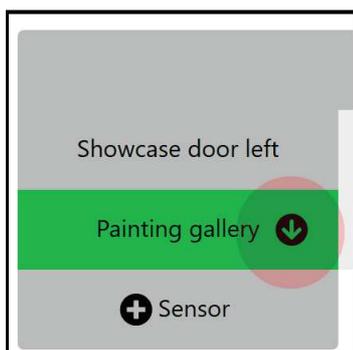
- Select **[Add HDF Sensor]** from the **[Edit]** menu.
- Press the **[Sensor]** Button in the configuration window (on the left of the screen).

In both cases, a menu with various configurable input fields opens in the communication window. A new sensor is added to the vertical sensor list displayed in the configuration window. It is initially called **"Sensor"** and is highlighted in **green** for enhanced detectability.



If a HDF sensor was added by mistake or an already existing HDF sensor needs to be deleted, press the red **recycle bin symbol** or the right mouse button and select **[Delete]**. Before the deletion process takes place, you need to confirm a security query with **"Yes"**. This prevents the accidental deletion of items.

Adding the different HDF sensors is described in the following two chapters. In larger installations with a high number of HDF sensors it could be of use to change the sensor order. Move the mouse cursor to the left or right of the sensor name in this case. A **⬆[arrow-up]** or **⬇[arrow down]** symbol appears. If you press the left mouse button on one of the arrow symbols, for example, the HDF sensor is moved accordingly in the sensor list.







The following entries are necessary to add an HDF sensor with one channel:

### Sensor Type

Press the input field to select the sensor type. A window is displayed in which you can determine the desired sensor type.

### Name

Create and enter a short and meaningful name. The word "**Sensor**" will be replaced in the sensor list by your specified name. Examples of meaningful names: "**Rubens painting, Hall 1**" or "**Laser scanner left wall**".

### *Note:*

The sensor name "**Laser scanner left wall**" indicates an **HDF-EXTERN** sensor to which a laser scanner is connected.

### Hardware ID

The hardware ID consists of a letter followed by a 6-digit hexadecimal number. The letter in the first position is determined by the sensor type and cannot be changed at this point. The 6-digit hardware ID can be found on the housing of the sensor module (sticker on the bottom), inside the sensor module (small sticker on the circuit board) and on the sensor packaging. The hardware ID can consist of the numbers 0...9 and the letters A, B, C, D, E and F.

Enter the hardware ID in the field highlighted in red. It doesn't matter whether you write the letters in upper or lower case. The **HDF-CONFIGURATOR** software converts all entries into capital letters.

### *Important notes:*

Entering the hardware ID is mandatory if you want to transfer the data of your project to the alarm centres (**HDF-BUZZER** or **HDF-SPEECH**) or to the alarm management system (**HDF-AMD**). If you want to plan different configurations without a direct transfer you can initially forgo entering the hardware ID.

**Make sure that you enter the hardware ID correctly. Errors in the input lead to a malfunction in the evaluation of the alarm messages.**

The following additional input fields are displayed, if the project you are planning is running in **PROFI-Mode** or if there is an **HDF-AMD** alarm management system in the installation:

### SIA-DC09 configuration

The forwarding of alarm messages to a **SIA DC09-Server** can be enabled via a slide switch. If this function is activated the following entries are displayed.

### **Assigned HDF-AMD in Range**

Click on the input field. If you have created one or more **HDF-AMD**, they will appear in the selection field. Select the **HDF-AMD** that is placed within safe range (good reception) of the sensor module. Only one **HDF-AMD** can be assigned per sensor module.

### **Alarm Area**

Click on the input field. If you have created alarm areas, they now appear in the selection field. Select the alarm area where the **HDF** sensor is located. If you cannot find a suitable alarm area, you can create one in the **[Alarm areas]** menu. Only one alarm area can be assigned per sensor module.

### **Message**

The entry of a message is mandatory and limited to a maximum of 500 characters. In the case of an alarm in **PROFI-Mode** the message will be appended as additional information to the **SIA-DC09** message and serves to facilitate the classification of the alarm. A meaningful message could be: „**Rubens painting in room 3, right hand wall**“.

### **Event qualifier**

The event qualifier in the sense of Ademco CID can have the values 1, 3 or 6 depending on the use case.

**1 = New event**

**3 = Cancellation alarm**

**6 = Recurring event**

### **Event code**

The individual meanings can be found in the relevant CID event code tables.

### **Group**

Two hexadecimal digits to classify the alarms into groups.

### **Zone**

Three hexadecimal digits to classify the alarms into zones.

Save the project after entering all relevant information.

## **Add HDF sensors with 2 alarm channels**

In addition to the sensors with one alarm channel, the **Human Detector Flex** system also has alarm modules with two channels. These sensors can transmit two different alarm messages.

Sensors with two alarm channels are:

**HDF-EXTERN**            alarm module for connecting external sensors and laser scanners

**HDF-WIRE**             alarm module for the evaluation of tear-off wires

Adding an alarm module with two alarm channels is identical to adding only one alarm channel.



HDF sensors with two channels offer the possibility of switching each individual alarm channel (channel 1 and channel 2) on and off via one slide switch each.

If an alarm channel has been switched on, an individual message with a maximum length of 500 characters can be saved. Examples of meaningful messages are: **"Gallery wall left hand side alarm"** or **"Gallery wall right hand side alarm"**. These alarm messages could belong to an **HDF-EXTERN** alarm module connected to two laser scanners. Sensors with two outputs (pre-alarm and main alarm) can also be connected to an **HDF-EXTERN** alarm module.

Save the project after entering all relevant information.

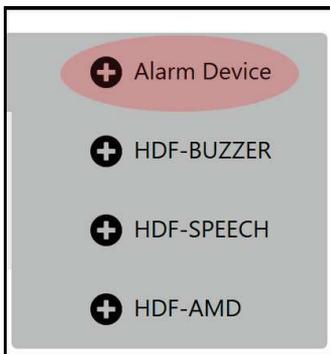
## Add and manage HDF alarm centres

Adding HDF alarm control units follows the same procedure as adding HDF sensors. All created alarm centres are displayed in the horizontal bar of the configuration field.

The function for adding HDF alarm centres can be used in two ways:

- Select **[Add HDF-BUZZER]** or **[Add HDF-SPEECH]** from the **[Edit]** menu.
- Press the **[+ Alarm Device]** button in the configuration window (top of the screen). You can now select from the list displayed. As soon as you edit a project that is in **PROFI-Mode**, you can also add the alarm management system **HDF-AMD** with this function.

In both cases, a menu with various configurable input fields opens in the communication window. The horizontal list of alarm devices displayed in the configuration window is thereby extended by one alarm unit. This is initially called "**BUZZER**" or "**SPEECH**" and is highlighted in **green** for enhanced detectability.



### *Note:*

The settings described on the next pages show the basic setting of the respective alarm centre. These initially apply to all linked HDF alarm sensors. However, the settings of individual sensors can be set differently, if required. It is **not** possible to change details of the basic configuration. It is rather a matter of switching complete functions of the basic configuration on or off. Any changes to the details would lead to confused operational behaviour.

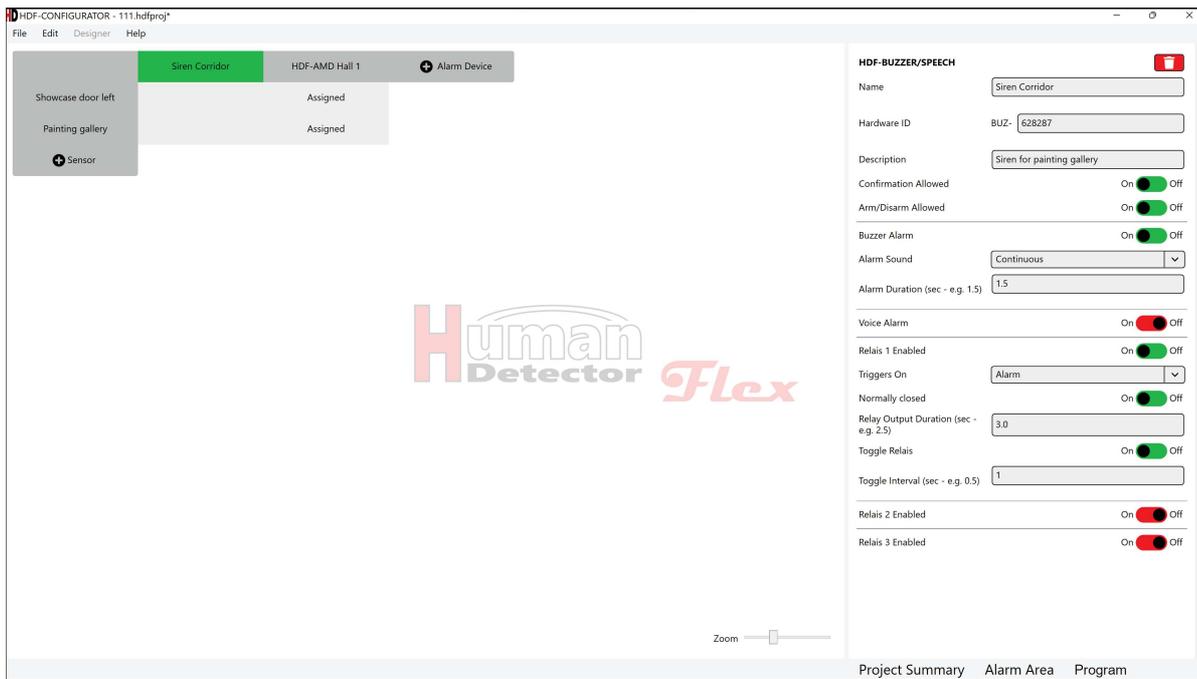
## Add HDF-BUZZER

After you have added an **HDF-BUZZER** alarm centre, you can start setting up the alarm centre in the communication window.

### *Note:*

The appearance of the entries in the communication window can vary greatly from case to case. At the time of the initial call, most inputs are deactivated by slide switches and are not visible. If you change the status of the slide switch with the mouse (switch on function), more and more input fields become visible.

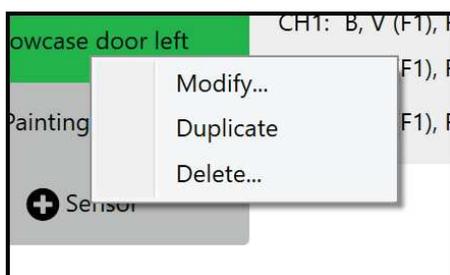
In this manual we will describe all inputs in their order sequence.



If you have added an HDF alarm centre by mistake or an already existing component needs to be deleted, press the red **recycle bin symbol** or the right mouse button and select **[Delete]**. Before the deletion process takes place, you need to confirm a security query with **"Yes"**. This prevents the accidental deletion of items.

Adding **HDF-BUZZER** and **HDF-SPEECH** is described in the following two chapters. In larger installations with a high number of HDF alarm centres it could be useful to change the alarm centre order. Move the mouse cursor to the left or right of the alarm centre name in this case. A **➡ Right arrow** or **⬅ Left arrow** symbol is displayed. If the left mouse button on one of the arrow symbols is pressed, the HDF alarm centre is moved accordingly in the alarm devices list.

As long as the mouse is placed on a field in the line with the HDF alarmed devices, you can press the right mouse button. The following action window is displayed.



You can edit the settings of the alarm device and duplicate or delete the HDF alarm device. The **[Duplicate]** function enables you to quickly create similar alarm devices without having to re-enter details each time. This is useful for larger backup tasks.

The following entries are necessary to add an HDF alarm centre:

**Name**

Create and enter a short and meaningful name. The words **"Buzzer"** or **"Speech"** are replaced in the alarm device list with your specified name. Examples of meaningful names: **"Alarm siren main building, hall 1"** or **"Siren gallery wall"**.

**Hardware ID**

The hardware ID consists of the letters **BUZ-** followed by a 6-digit hexadecimal number. The first letters are determined by the alarm centres and cannot be changed at this point. The 6-digit hardware ID can be found on the housing of the alarm device (sticker on the bottom), inside the alarm device (small sticker on the circuit board) and on the alarm centre packaging. The hardware ID can consist of the numbers 0...9 and the letters A, B, C, D, E and F.

Enter the hardware ID in the field highlighted in red. It doesn't matter whether you write the letters in upper or lower case. The **HDF-CONFIGURATOR** software converts all entries into capital letters.

### ***Important notes:***

Entering the hardware ID is mandatory if you want to transfer the data of your project to the alarm centres (**HDF-BUZZER** or **HDF-SPEECH**) or to the alarm management system (**HDF-AMD**). If you want to plan different configurations without a direct transfer you can initially forgo entering the hardware ID.

**Make sure that you enter the hardware ID correctly. Errors in the input lead to a malfunction in the evaluation of the alarm messages.**

### **Description**

The description field allows for additional explanatory information. Further information about the alarm centre can be stored here.

### ***Note:***

Most input fields have a maximum length of 500 characters. If these cannot be displayed completely, place the cursor in the field and scroll through the input field with the **[Left Arrow]** and **[Right Arrow]** keys.

### **Alarm Confirmation Allowed**

With the slide switch set to On, the alarm centre supports the direct acknowledgement of alarms at the HDF alarm centre. For this purpose, a switch needs to be connected to the corresponding input of the alarm centre.

### ***Note:***

Further information can be found in the operating instructions for the **HDF-BUZZER** and **HDF-SPEECH** alarm centres.

### **Arm/Disarm Allowed**

With the slide switch set to On, the alarm centre supports the direct arming and disarming at the HDF alarm centre. For this purpose, a switch needs to be connected to the corresponding input of the alarm centre.

### ***Note:***

Further information can be found in the operating instructions for the **HDF-BUZZER** and **HDF-SPEECH** alarm centres.

### **Buzzer Alarm**

With the slide switch for the buzzer alarm switched to On, the following input fields are displayed:

### **Alarm Sound**

Execute a mouse click in the input field. The various alarm sounds are displayed. You can choose the following:

- Continuous alarm sound
- Alarm sound with 0.25 second interval
- Alarm sound with 0.5 second interval
- Alarm sound with 1.0 second interval

### ***Note:***

The interval time indicates the respective length of the on and off phase of the siren sound. A 1.0 second interval means that the siren sound changes every second from on to off (and vice versa).

### **Alarm Duration**

The alarm duration indicates the total length of the alarm sound. It is independent of the selected alarm sound.

#### ***Note:***

Independent of the input (e.g.: 3.567 seconds), the actual value is calculated to one decimal place (here e.g.: 3.5 seconds). If you want to use an alarm sound with interval, it is recommended to select a significantly longer alarm duration than the interval duration.

### **Voice Alarm**

If you install an **HDF-BUZZER** alarm centre, you can make entries here, but they are if no effect. Alarm messages in voice form (mp3 format) are reserved for the **HDF-SPEECH** device. **In this case, the slide switch should be set to Off.**

#### ***Note:***

The reason why the menu item is listed with the **HDF-BUZZER** configuration is due to the compatibility of the two alarm centres. If desired, you can replace the **HDF-BUZZER** with a **HDF-SPEECH** at a later time. The basic programming can then be retained.

The following inputs and functions are identical for all three relays. Each HDF alarm centre has three relays that are programmed completely independently of each other. **This manual will therefore be limited to a detailed description of the functions based on relay 1.**

### **Relay 1 Enabled**

Use the slide switch to set relay 1 on or off. With relay 1 activated the following additional input fields are displayed:

### **Triggers On**

Execute a mouse click in the input field "**Triggered On**". A selection window appears with possible reasons for the triggering. Select a reason for triggering from the following list:

- Triggers on "Alarm"
- Triggers on "Alarm Confirmation"
- Triggers on "System Armed"
- Triggers on "System Disarmed"
- Triggers on "Battery empty"

#### ***Note:***

With this powerful function, external status indications can be realised via indicator lights, for example.

### **NC (normally closed)**

The option "**NC (normally closed)**" determines the idle state of the relay. The relay is closed when the slide switch is set to On. If the reason for tripping then occurs, the relay drops out and opens. The same would happen if the power supply to the HDF alarm centre is interrupted.

#### ***Note:***

The NC output generated in this way is the standard output for connecting to external-intruder alarm systems (EMA). In this case, the HDF alarm centre behaves like a standardised NC detector.

### **Relay Output Duration**

The relay output duration indicates the total length of the switching process. It is independent of the setting selected under "**Toggle Relay**".

**Note:**

Independent of the input (e.g.: 3.567 seconds), the actual value is calculated to one decimal place (here e.g.: 3.5 seconds).

**Toggle Relay**

You can use this slide switch to set the relay on and off for a toggling behaviour. If the relay is toggled, you can set the switching interval in the next input field.

**Toggle Interval**

You can choose any toggle interval. The toggle interval indicates the time for the relay changing from on to off (and vice versa). A toggle interval of 1.0 second means that the relay changes its switching state every second.

**Note:**

Independent of the input (e.g.: 3.567 seconds), the actual value is calculated to one decimal place (here e.g.: 3.5 seconds). If you want to toggle the relay, it is advisable to select a significantly longer switching duration than the interval duration.

**Relay 2 Enabled**

All entries are identical to the functions described above in "**Relay 1 Enabled**". However, they now refer to relay 2.

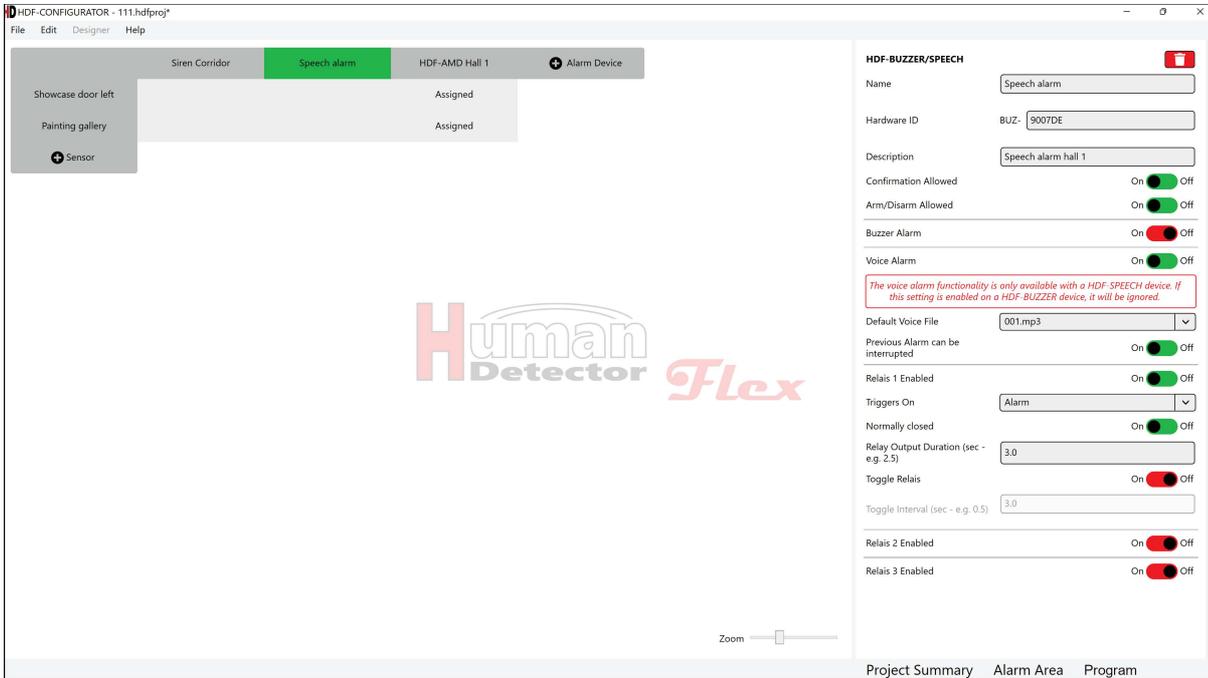
**Relay 3 Enabled**

All entries are identical to the functions described above in "**Relay 1 Enabled**". However, they now refer to relay 3.

Save the project after entering all relevant information.

## Add HDF-SPEECH

Adding the **HDF-SPEECH** is identical to adding the **HDF-BUZZER**. With the only exception that voice alarm is supported. The **HDF-SPEECH** alarm centre has an additional mp3 voice output card. Up to three different voice or sound messages can be stored in mp3 format. Different voice or sound messages can therefore be assigned to different HDF sensors.



The individual steps for adding the **HDF-SPEECH** are not repeated here for reasons of simplicity. Please refer to the previous chapter "Add **HDF-BUZZER**". The steps described there are identical.

The following additional inputs are only supported by the **HDF-SPEECH**:

### Default Voice File

After clicking in the input field, you can select the desired alarm file from the voice and sound messages **001.mp3**, **002.mp3** and **003.mp3**.

To replace the mp3 voice files, connect the voice card to your personal computer using the micro-USB cable supplied. You can now open the voice card memory with the Windows Explorer App and replace the mp3 files.

The memory of the voice card contains the mp3 files **001.mp3**, **002.mp3**, **003.mp3** and **004.mp3**. If other files are present here, they are of no relevance for the **HDF-SPEECH** speech output.

The mp3 files **001.mp3**, **002.mp3** and **003.mp3** contain the three alarm messages. They can be selected with [**Default Voice File**]. The file **004.mp3** contains a confirmation tone. It sounds when an alarm on an **HDF-SPEECH** is acknowledged via a connected switch.

You can replace all four mp3 files. **However, the four mp3 files may only be copied together.** This is important because the four files are indexed in the order in which they are copied. If you want to replace a single file, download all four mp3 files from the language card and replace one of them on your personal computer. Then copy all four mp3 files back to the language card **in one**. The language map then indexes them in the correct order.

In order to do this the housing of the **HDF-SPEECH** first needs to be opened.

### Previous Alarm can be interrupted

This slide switch allows you to set a possible interruption of long alarm outputs of the voice unit on or off in case of a new alarm within the current voice output.

**Important notes:**

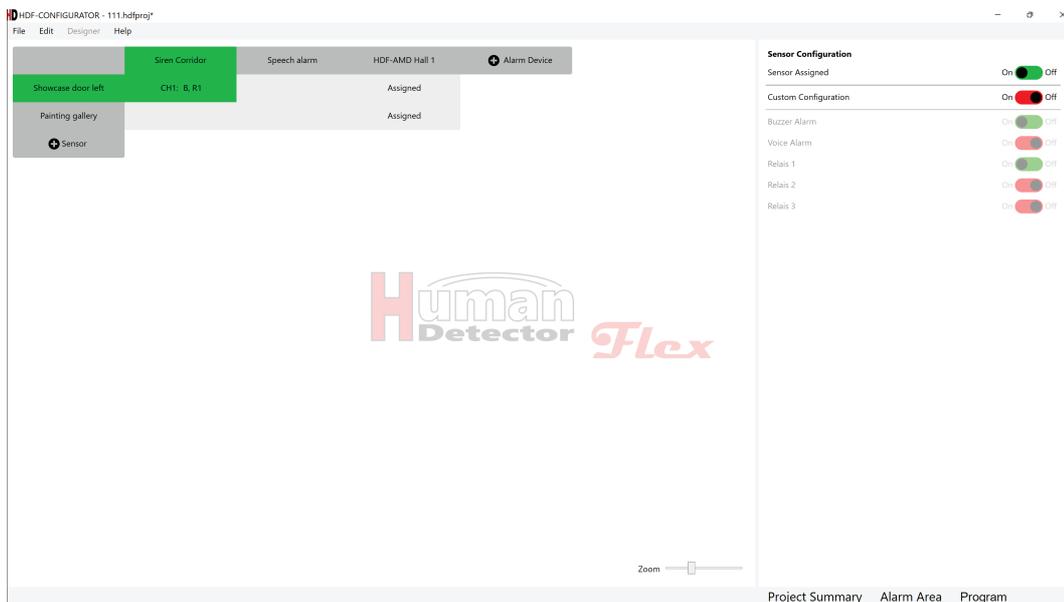
If you want to issue long voice alarms without interruption with the **HDF-SPEECH**, it is recommended that you also switch on the buzzer alarm with a short siren tone. If another alarm is triggered during the long voice output, it is indicated by the short siren tone. The sound only slightly interferes with the voice output.

**The follow-up alarm would not be reported without the short buzzer alarm.**

Save the project after entering all relevant information.

Sensor configuration

After you have created all HDF sensors and HDF alarm centres, start linking the components. The **HDF-CONFIGURATOR** software offers the convenience and flexibility to expand existing configurations at any time or to cancel or change links. There is no need to follow any particular order or procedure. The flexible **HDF-CONFIGURATOR** software provides support for every phase of your project.



The picture above shows a simple installation in **PROFI-Mode**. The alarm module **"Showcase door left"** is linked to the **"Siren Corridor"** and **"Speech alarm"**. The **"Painting gallery"** sensor is currently not yet connected to one of the alarm centres. Both HDF sensors are assigned to the **HDF-AMD**.

As long as you click in the horizontal and vertical crossing point, you are able to unlock or change the link.

Provided the link field is empty, a slide switch appears first that enables you to activate the assignment of the HDF sensor for the selected HDF alarm device. As long as this has not been done, alarm messages from the alarm sensor at the said alarm device are not processed.

To assign the HDF sensor the slide switch needs to be activated. The input field in the communication field expands as a result. The slide switch **[Custom Configuration]** is initially set to **"Off"**. This means that the sensor uses the default settings of the alarm centre. All alarms issued correspond to the default setting of the respective **HDF-BUZZER** or **HDF-SPEECH**.

If you set the slide switch for **[Custom Configuration]** to **"On"**, the colours of the slide switches below change. Functions that were enabled in the basic configuration of the alarm centre can now be changed individually for the selected HDF sensor.

With the exception of the mp3 file for the voice alarm on the **HDF-SPEECH**, however, basic settings (such as alarm times or switching times) cannot be changed. This can be used to output different voice messages for different sensors. It is also possible, for example, to connect external sensors with a pre-alarm detector (e.g. laser scanner with several curtains) to an **HDF-EXTERN** alarm module. In this case, there could be a two-stage alarm with a pre-alarm.

Any changes to the details beyond this, such as the alarm, interval and switching times, would lead to a completely confused operational behaviour. The **Human Detector Flex** technology therefore does not utilize these functions.

**Note:**

Relays that trigger for a reason other than "alarm" are excluded from the custom configuration. This makes sense since higher-level processes are monitored here.

A possible input field (without voice alert) could have the following layout:

Sensor Configuration	
Sensor Assigned	On <input checked="" type="checkbox"/> Off
Custom Configuration	On <input checked="" type="checkbox"/> Off
Buzzer Alarm	On <input checked="" type="checkbox"/> Off
Voice Alarm	On <input type="checkbox"/> Off <input checked="" type="checkbox"/>
Relais 1	On <input checked="" type="checkbox"/> Off
Relais 2	On <input checked="" type="checkbox"/> Off
Relais 3	On <input checked="" type="checkbox"/> Off

New links and changes to the components or links are displayed in the respective fields of the box. The entire behaviour of the installation is therefore visible at a glance.

	Siren Corridor	Speech alarm	HDF-AMD Hall 1	+ Alarm Device
Showcase door left	CH1: B, R1, R2, R3	CH1: V (F1), R1	Assigned	
Painting gallery	CH1: B, R1, R2, R3 CH2: B, R1, R2, R3	CH2: V (F1), R1	Assigned	
+ Sensor				

Explanation of the abbreviations in the link fields of the alarm centres:

- CH1:** Alarm channel 1
- CH2:** Alarm channel 2 (only for **HDF-EXTERN** and **HDF-WIRE**)
- B** Buzzer alarm
- V ( )** Voice or sound alarm (mp3 file)
- F1** Voice and sound file 001.mp3
- F2** Voice and sound file 002.mp3
- F3** Voice and sound file 003.mp3
- R1** Relay 1
- R2** Relay 2
- R3** Relay 3

Save the project after entering all custom settings.

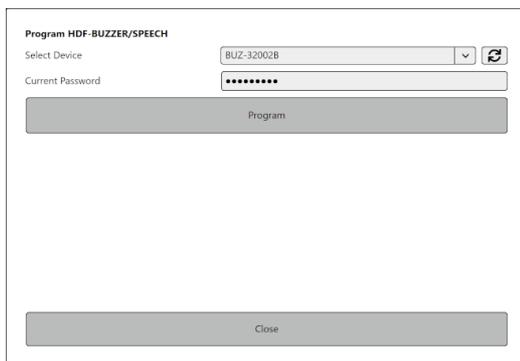
**Important notes:**

**HDF-ANTIJAM** should only be used in conjunction with **HDF-AMD**. **HDF-ANTIJAM** generates coded signals at regular intervals that are used to monitor the radio room. Monitoring is automatically activated as soon as **HDF-ANTIJAM** is linked with **HDF-AMD**.

**HDF-ANTIJAM** must not be linked to an HDF alarm centre (**HDF-BUZZER** or **HDF-SPEECH**). In this case, it would produce alarm messages at short intervals.

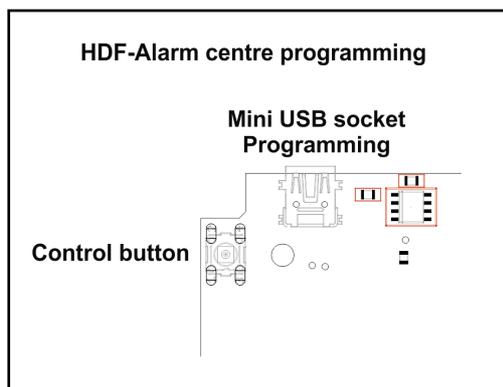
Programming HDF-BUZZER/SPEECH

After having specified all settings and links, they can be transferred to the HDF alarm centres. Programming the **HDF-BUZZER** and **HDF-SPEECH** is necessary in all operating modes (**EASY**, **MULTI** and **PROFI-Mode**). The **HDF-AMD**, on the other hand, only needs to be programmed in **PROFI-Mode**.



Follow these steps to program the HDF alarm centres:

- Open the housing cover of the alarm centre.
- Connect the mini-USB socket for publishing to your personal computer. The required cable is included in the scope of delivery of the HDF alarm centre.



- Switch on the alarm centre and wait a moment until the **green operating LED** illuminates.
- The **yellow indicator LED** illuminates when a data transmission is in progress.
- In the **HDF-CONFIGURATOR** software, press the "**rotating arrow**" next to the input field "**Select Device**".
- The corresponding HDF alarm centre is detected and displayed.
- Enter the correct password.

**Notes:**

Programming is not possible without the correct password.

The default password is: **HDF-Admin**

- Press the **[Programming button]** in the **HDF-CONFIGURATOR** software.
- The software indicates the successful programming of the HDF alarm unit.
- You can now switch off the alarm centre, remove the mini-USB cable, close the casing of the unit and mount the unit in its original position.

If you have changed the configuration in your project, the update of the HDF alarm centres should be carried out on all units that are affected by the changes. Alarm centres that operate in other areas, for example, and have not been changed or have not undergone any changes in the linked sensors do not need to be reprogrammed.

**Important notes:**

Opening the housing of the HDF alarm centre constitutes an additional security measure to prevent system tampering. The enclosures should not be left open for convenience or quick access.

Ensure that the USB connection between the personal computer and the HDF alarm centre is not disconnected during programming. Also ensure that the programming process is not interrupted for any other reason. Otherwise, data loss or even complete failure of the alarm centre can occur.

**Check all settings after programming has been carried out. Test the programmed HDF alarm centres for this. Possible errors can then immediately be detected.**

**Change HDF-BUZZER/SPEECH password**

Passwords should be changed at regular intervals or after irregular events (e.g. the departure of an employee with knowledge of passwords). Changing the password of the HDF alarm centres follows largely the procedure for changing the project password.

The screenshot shows a software dialog box titled "Change HDF-BUZZER/SPEECH Password". It contains the following elements:

- Select Device:** A dropdown menu showing "BUZ-32002B" with a refresh icon to its right.
- Current Password:** A text input field with masked characters (dots).
- New Password:** A text input field with masked characters (dots).
- Confirm Password:** A text input field with masked characters (dots).
- Change Device Password:** A large grey button.
- Close:** A large grey button at the bottom of the dialog.

Follow these steps to change the passwords of the HDF alarm centres:

- Open the housing cover of the alarm centre.
- Connect the mini-USB socket for changing the password to your personal computer. The required cable is included in the scope of delivery of the HDF alarm centre.
- Switch on the alarm centre and wait a moment until the **green operation LED** illuminates.
- The **yellow indicator LED** illuminates when a data transmission is in progress.
- In the **HDF-CONFIGURATOR** software, press the "**rotating arrow**" next to the input field "**Select Device**".
- The corresponding HDF alarm centre is detected and displayed.
- Enter the "Current Password".

***Important note:***

The default password is: **HDF-Admin**

***Note:***

It is not possible to change a password without the correct password.

- Enter the new password and confirm the password.

***Notes:***

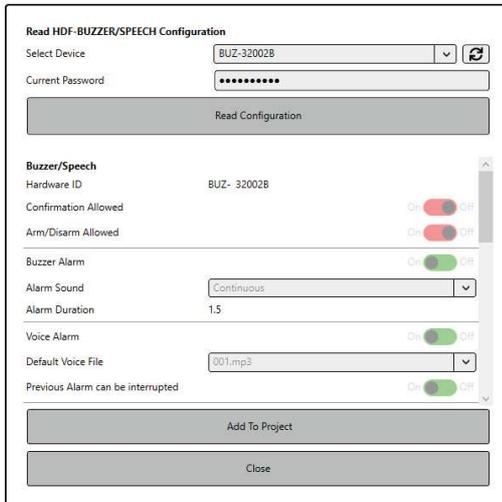
The password consists of at least 6 characters. Please choose a "strong" password, e.g. consisting of a random combination of numbers and letters. The selected password is the device password of the HDF alarm centre. It is used for programming the devices. It is not to be confused with the project password and the password of the alarm management system (**HDF-AMD**). Save the password in a secure location.

**If the password is lost, it can no longer be changed.** The device will then have to be reset to factory settings.

- Press the [**Change Device Password**] button in the **HDF-CONFIGURATOR** software.
- The software indicates that the device password has been successfully changed.
- You can now continue with your work or switch off the alarm centre, remove the mini-USB cable, close the casing of the unit and mount the unit in its original position.

## Read HDF-BUZZER/SPEECH configuration

The basic steps for reading out the configuration of an HDF alarm centre are identical to programming the unit.



Follow these steps for reading out the configuration of an HDF alarm centre:

- Open the housing cover of the alarm centre.
- Connect the mini-USB socket for reading to your personal computer. The required cable is included in the scope of delivery of the HDF alarm centre.
- Switch on the alarm centre and wait a moment until the **green operation LED** illuminates.
- The **yellow indicator LED** illuminates when a data transmission is in progress.
- In the **HDF-CONFIGURATOR** software, press the "**rotating arrow**" next to the input field "**Select Device**".
- The corresponding HDF alarm centre is detected and displayed.
- Enter the correct password.

**Note:**

It is not possible to read the configuration without the correct password.

- Press the [**Read Configuration**] button in the **HDF-CONFIGURATOR** software.
- The software displays the configuration of the HDF alarm centre in the centre of the window. You can scroll through this window to view all entries.
- You can add the configuration to the existing project, if desired. To do so, press the [**Add To Project**] button in the **HDF-CONFIGURATOR** software.
- You will be asked whether the existing project information should be retained or whether the settings in the project should be overwritten.

**Note:**

Before rewriting the data, you should backup the current project with [**Save as**].

- You can now continue with your work or switch off the alarm centre, remove the mini-USB cable, close the casing of the unit and mount the unit in its original position.

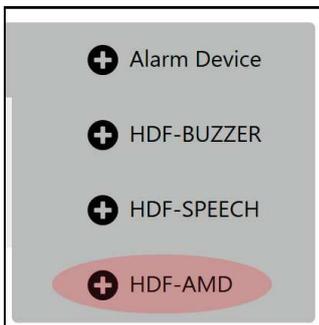
## Setting up HDF alarm management

The **Human Detector Flex** Technology enables the user to utilize a cost-effective and very efficient alarm management system. All alarm messages are monitored here by one or more central alarm management devices (**HDF-AMD**). The alarm messages are forwarded to various smartphones and other end devices.

The so-called **PROFI-Mode** provides the option to forward alarm messages silently to the respective security personnel. "**Alarm-by-Silence**" delivers a high level of protection, relieves your security personnel and leads to a relaxed exhibition atmosphere that is not disturbed by alarm messages.

Provided you use the **Human Detector Flex** Alarm management, you should create the project in **PROFI-Mode** (see "**Creating a new HDF project**") or switch to **PROFI-Mode** at a later time (see "**Project Summary**"). You can add an **HDF-AMD** device by pressing the button shown below.

You can also press the **[Add HDF-AMD]** button in the **[Edit]** menu.



### *Important safety note!*

The installation of the **HDF-AMD** should only be carried out by a trained and experienced technician.

## Add HDF-AMD

An input screen appears in the communication window, which is used to enter the **HDF-AMD** configuration data.

HDF-AMD Device	
Name	HDF-AMD Hall 1
Hardware ID	AMD- 9007AE
Description	Device Great Hall
Network Configuration	
DHCP	On <input checked="" type="checkbox"/> Off
Static IP	10.0.0.2/24
Gateway	10.0.0.1
DNS-Server	10.0.0.5
SIA-DC09 configuration	
SIA-DC09 server (IP/FQDN)	192.168.160.1
Port	8080
Transmission Protocol	UDP
Report missing sensors	On <input checked="" type="checkbox"/> Off
Report weak batteries	On <input checked="" type="checkbox"/> Off
Transmit timestamp	On <input type="checkbox"/> Off
Encryption	On <input checked="" type="checkbox"/> Off
Algorithm	AES128-CBC
Key (HEX-Representation)	1234567890ABCDEF1234567890ABCDEF
Link supervision	On <input checked="" type="checkbox"/> Off
Supervision interval (sec)	1200
Resend failed messages	On <input checked="" type="checkbox"/> Off
Number of resend attempts	3
Interval between resend attempts	10
Account number	0002
Account prefix	
Receiver number	

If you have added an **HDF-AMD** by mistake or an already existing component needs to be deleted, press the red **recycle bin symbol** or the right mouse button and select **[Delete]**. Before the deletion process takes place, you need to confirm a security query with **"Yes"**. This prevents the accidental deletion of items.

The following entries can be made:

### Name

Create and enter a short and meaningful name. The word **"AMD"** will be replaced in the alarm device list by your specified name. A meaningful name could be, for example, **"HDF-AMD Main Building"**.

### Hardware ID

The hardware ID consists of the letters **AMD-** followed by a 6-digit hexadecimal number. The first letters are determined by the alarm management unit and cannot be changed at this point. The 6-digit hardware ID can be found on the housing of the alarm management unit (sticker on the bottom), inside the alarm management unit (small sticker on the circuit board) and on the alarm management unit packaging. The hardware ID can consist of the numbers 0...9 and the letters A, B, C, D, E and F.

Enter the hardware ID in the field highlighted in red. It doesn't matter whether you write the letters in upper or lower case. The **HDF-CONFIGURATOR** software converts all entries into capital letters.

### *Important notes:*

Entering the device ID is mandatory if you want to transfer the data of your project to the alarm management system (**HDF-AMD**). If you want to plan different configurations without a direct transfer you can initially forgo entering the hardware ID.

**Make sure that you enter the hardware ID correctly. Errors in the input lead to a malfunction in the evaluation of the alarm messages.**

### Description

The description field allows for additional explanatory information. Further information about the **HDF-AMD** can be stored here.

Once the **HDF-AMD** is automatically connected to the internet via DHCP (Dynamic Host Configuration Protocol) all required entries have been made.

If you want to use a static IP address, the **[DHCP slide switch]** needs to be set to **"Off"**.

The following additional entries are required for this:

### Static IP

Enter the IPv4 address followed by a suffix for the subnet mask.

### Gateway

Enter the IPv4 address of the gateway here, if you use a gateway to connect to the internet.

### DNS-Server

Enter one or more DNS servers here. Multiple DNS servers are entered separated by a space.

### *Important notes:*

Setting up a static IP address for your **HDF-AMD** should only be performed by an experienced network engineer. Appropriate expertise and a detailed knowledge of the IP structure of your home network, including the security settings used (firewall, filter, whitelist, etc.), are mandatory.

### SIA-DC09 server (IP/FQDN)

Enter the IP address or URL of the SIA server here.

### Port

Here the port at the SIA server is required.

### Transmission Protocol

Your choices are TCP or UDP. Information on which protocol to choose can be obtained from your control center operator.

**Report missing sensors**

Activate this slide switch if you want the control center to be informed every time a sensor skips a heartbeat. The alarm will be repeated every twenty minutes until the next signal from sensor is received.

**Report weak batteries**

Activate this slide switch if you want the control center to be informed in case of a sensor's weak battery. The alarm will be repeated every twenty seconds until the battery is replaced.

**Transmit timestamp**

This function attaches a timestamp to the SIA-DC09 message. This is mandatory with encrypted messages.

**Encryption**

Activate this slide switch to encrypt messages. If this option is active the next two options will be available. Otherwise you can skip the next two options.

**Algorithm**

Choose between AES128-CBC and AES256-CBC. The choice must be identical with the settings in the control center.

**Key (HEX-Representation)**

Enter your key in hexadecimal representation. Mind the key length of the different algorithms.

**Link supervision**

With this slide switch you can activate a periodic message to the control center to test the connection. If this option is active another option called **Supervision interval (sec.)** appears with which you can set the interval between the periodic messages.

**Resend failed messages**

With this function you can resend messages which have not been acknowledged by the control center. If this function is active the following two options appear. Otherwise you can skip them.

**Number of resend attempts**

Enter a number of retries to send a message before it is considered failed.

**Interval between resend attempts**

Enter a timespan that will be waited until the next resend attempt will be undertaken.

**Account number**

Enter the unique Identifier of the **HDF-AMD** at the control center here, which you will get from the control centers operator. This identifier is mandatory.

**Account prefix**

This optional value helps classifying devices at the control center. If you did not get a value for this from your control center operator, leave this field empty.

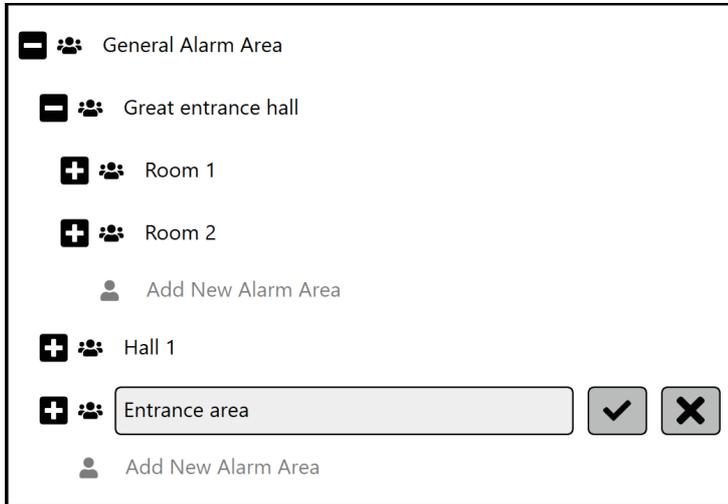
**Receiver number**

This optional value helps classifying devices at the control center. If you did not get a value for this from your control center operator, leave this field empty.

Save the project after entering all relevant information.

## Creating alarm areas

In order to structure and organise a large number of sensors, it is possible to locate sensors in alarm areas. The **HDF-CONFIGURATOR** software enables you to completely map your property with several buildings, exhibition halls, rooms and room areas, if applicable. This enables the detailed allocation of alarm areas.



Familiarise yourself with the various editing options and symbols.



The **[confirmation symbol]** completes an saves the entry. If it is a confirmation prompt (confirmation when deleting an entry), the **[confirmation symbol]** is highlighted in red.



The **[cancel symbol]** exits an entry without saving it.



The **[edit symbol]** opens a saved entry and enables its editing.



The **[delete symbol]** deletes an entry. Before the final deletion, there is a confirmation prompt which needs to be confirmed by pressing the **[confirmation symbol]** highlighted in red.

### ***Important notes:***

If you delete an entry that has subordinate entries (sub-entries), these will be automatically deleted as well.

In addition, symbols such as **[+]** and **[-]** are available. Use these to open and close the respective sub levels. With the button **[Add New Alarm Area]** a new alarm area is created on the same level.

Familiarise yourself with the input system. With a little practice, you will succeed in transforming any building structure into a clearly organized structure. Only assign building, room and area names that enable unambiguous allocation. Ensure at the end of your work that all entries are completed. Then safe your project.

### ***Note:***

If you have protection tasks that cover several buildings or areas and a comprehensive alarm management system (e.g. museums with branch offices) is not required, it would be best to divide the project into several projects.

## Assign alarm areas to HDF sensors

After adding the **HDF-AMD** and setting up the alarm areas, the individual sensors need to be linked to the alarm areas and the **HDF-AMD**.

Sensor Configuration For HDF-AMD	
Sensor Assigned <span style="float: right;">On <input checked="" type="checkbox"/> Off <input type="checkbox"/></span>	
Alarm Area	<div style="border: 1px solid gray; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px;">\\ Great entrance hall</div> <div style="background-color: #e0e0e0; padding: 2px;">General Alarm Area</div> <div style="background-color: #d0d0d0; padding: 2px;">\\ Great entrance hall</div> <div style="background-color: #c0c0c0; padding: 2px;">\\ Hall 1</div> <div style="background-color: #b0b0b0; padding: 2px;">\\ Entrance area</div> <div style="background-color: #a0a0a0; padding: 2px;">\\ \\ Room 1</div> <div style="background-color: #909090; padding: 2px;">\\ \\ Room 2</div> </div>
Message	
SIA-DC09 configuration (ADM-CID)	
Event qualifier	
Event code	
Group	01
Zone	001

The required action window is displayed when you click on the desired sensor in the sensor list.

You can apply the following settings:

### SIA-DC09 configuration

The forwarding of alarm messages to a SIA-Server can be enabled via a slide switch. If this function is activated the following entries are displayed.

### Assigned HDF-AMD in Range

Click on the input field. If you have created one or more **HDF-AMD**, these will appear in the selection field. Select the **HDF-AMD** that is within safe range (good reception) of the sensor module. Only one **HDF-AMD** can be assigned per sensor module.

### Alarm Area

Click on the input field. If you have created one or more alarm areas, these will appear in the selection field. Select the alarm area where the HDF sensor is located. If you cannot find a suitable alarm area, you can create one in the **[Add Alarm Areas]** menu. Only one alarm area can be assigned per sensor module.

### Message

The entry of a message is mandatory and limited to a maximum of 500 characters. In the case of an alarm in **PROFI-Mode** the message will be appended as additional information to the SIA-DC09 message and serves to facilitate the classification of the alarm. A meaningful message could be: „**Rubens painting in room 3, right hand wall**“.

### Event qualifier

The event qualifier in the sense of Ademco CID can have the values 1, 3 or 6 depending on the use case.

- 1 = New event**
- 3 = Cancellation alarm**
- 6 = Recurring event**

**Event code**

The individual meanings can be found in the relevant CID event code tables.

**Group**

Two hexadecimal digits to classify the alarms into groups.

**Zone**

Three hexadecimal digits to classify the alarms into zones.

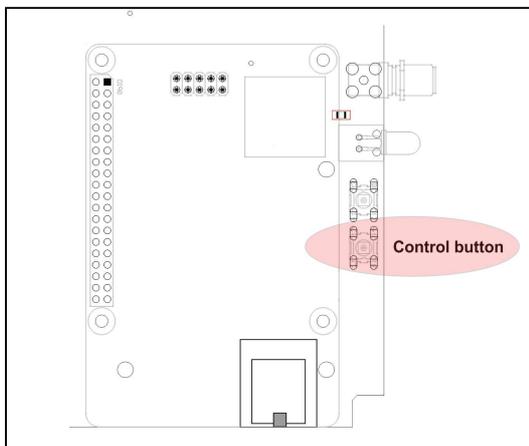
Save the project after entering all relevant information.

**Programming HDF-AMD**

After having applied all settings and links, they can be transferred to the **HDF-AMD**. Press the **[Programming HDF-AMD]** in the **[Edit]** menu or select the **[Program]** in the additional menu and then **[Programming HDF-AMD]**.

To program the HDF-AMD, proceed as follows:

- Open the housing cover of the **HDF-AMD**.



- Switch on the **HDF-AMD** and wait a moment until the **green operation LED** illuminates.
- Briefly press the control button near the right antenna. The **yellow control LED** illuminates and the **HDF-AMD** is in programming mode.
- The connection to the **HDF-AMD** is via the wireless network. It is therefore important that your personal computer is within radio range of the **HDF-AMD**. After five minutes of inactivity the wireless network will be shutdown automatically.

- In the **HDF-CONFIGURATOR** software press the “rotating arrow” next to the input field “**Select HDF-AMD**”.
- After a short moment the corresponding **HDF-AMD** can be selected from the drop-down-menu.
- If the **HDF-SUPERVISOR Server** was configured successfully the button to configure the server will vanish.

- Enter the password for the selected **HDF-AMD**.

**Notes:**

Programming is not possible without the correct password. The default password is: **HDF-Admin**

- Press [**Programming HDF-AMD**] button in the **HDF-CONFIGURATOR** software.
- The software indicates the successful programming of the **HDF-AMD**.
- Wait until the **green operating LED** illuminates and the **yellow control LED** is extinguished.
- Switch off the **HDF-AMD**, close the device housing and install the device in its original position.

If you changed the configuration in your project (e.g. the number of sensors), the programming described above needs to be carried out on all **HDF-AMD** in the project.

***Important notes:***

Also program the **HDF-AMD** to which no changes have been made. This is necessary because the alarm management systems monitor radio traffic to detect external emissions and interference.

Opening the **HDF-AMD** housing constitutes an additional security measure to prevent system tampering. The enclosures should not be left open for convenience or quick access.

**Check all settings after programming has been carried out. Test the programmed HDF-AMD for this. Possible errors can then immediately be detected.**

## Change HDF-AMD password

Passwords should be changed at regular intervals or after irregular events (e.g. the departure of an employee with knowledge of passwords).

To change the password of the **HDF-AMD**, proceed as follows:

- Switch on the **HDF-AMD** and wait a moment until the **green operation LED** illuminates.
- Briefly press the control button near the right antenna. The **yellow control LED** illuminates and the **HDF-AMD** is in programming mode (see also "**Programming the HDF-AMD**").
- The connection to the **HDF-AMD** is via the wireless network. It is therefore important that your personal computer is within radio range of the **HDF-AMD**.
- In the **HDF-CONFIGURATOR** software, press the "**rotating arrow**" next to the input field "**Select HDF-AMD**".
- The corresponding **HDF-AMD** is detected and displayed.
- Enter the correct current password.

### *Notes:*

Changing the password is not possible without the correct current password.

The default password is: **HDF-Admin**

- Enter the new password and confirm the password.
- Press [**Change Device Password**].
- The software indicates that the password has been successfully changed.
- Wait until the **green operating LED** illuminates and the **yellow control LED** is extinguished.
- Switch off the **HDF-AMD**, close the device housing and install the device in its original position.

### *Notes:*

The password consists of at least 6 characters. Please choose a "strong" password, e.g. consisting of a random combination of numbers and letters. The selected password is the device password of the **HDF-AMD**. It is used for programming the devices. It is not to be confused with the project password and the password of the alarm centres (**HDF-BUZZER** and **HDF-SPEECH**).

Save the password in a secure location. If the password is lost, it can no longer be changed. The device will then have to be reset to factory settings.

## Read HDF-AMD configuration

The basic steps for reading out the configuration of an **HDF-AMD** are identical to programming the unit.



Follow these steps for reading out the configuration of a **HDF-AMD**:

- Open the housing cover of the **HDF-AMD**.
- Switch on the **HDF-AMD** and wait a moment until the **green operation LED** illuminates.
- Briefly press the control button near the right antenna. The **yellow control LED** illuminates and the **HDF-AMD** is in programming mode (see also "**Programming the HDF-AMD**").
- The connection to the **HDF-AMD** is via the wireless network. It is therefore important that your personal computer is within radio range of the **HDF-AMD**.
- In the **HDF-CONFIGURATOR** software, press the "**rotating arrow**" next to the input field "**Select HDF-AMD**".
- The corresponding **HDF-AMD** is detected and displayed.
- Enter the correct current password.

**Note:**

It is not possible to read the configuration without the correct password.

- Press the [**Read Configuration**] button in the **HDF-CONFIGURATOR** software.
- The software displays the configuration of the **HDF-AMD** in the centre of the window. You can scroll through this window to view all entries.
- You can add the configuration to the existing project, if desired. To do so, press the [**Add To Project**] button in the **HDF-CONFIGURATOR** software.
- You will be asked whether the existing project information should be retained or whether the settings in the project should be overwritten.

**Note:**

Before rewriting the data, you should backup the current project with [**Save as**].

- Switch off the **HDF-AMD**, close the device housing and install the device in its original position.

## Download HDF-AMD log files

The basic steps for reading out the log files of an **HDF-AMD** are identical to programming the unit. The log files can provide interesting conclusions about the operation of the security device.

### *Note:*

Older log files are regularly deleted, since the storage space for log files on an **HDF-AMD** is limited. It is recommended to read out and archive the log files at regular intervals.



Follow these steps for reading out the log files of a **HDF-AMD**:

- Open the housing cover of the **HDF-AMD**.
- Switch on the **HDF-AMD** and wait a moment until the **green operation LED** illuminates.
- Briefly press the control button near the right antenna. The **yellow control LED** illuminates and the **HDF-AMD** is in programming mode (see also "**Programming the HDF-AMD**").
- The connection to the **HDF-AMD** is via the wireless network. It is therefore important that your personal computer is within radio range of the **HDF-AMD**.
- In the **HDF-CONFIGURATOR** software, press the "**rotating arrow**" next to the input field "**Select HDF-AMD**".
- The corresponding **HDF-AMD** is detected and displayed.
- Enter the correct current password.

### *Note:*

It is not possible to read the log files without the correct password.

- Press [**List Logfiles**] in the **HDF-CONFIGURATOR** software.
- The software displays the detected log files in the centre of the window.
- You can specify a storage location and download the log files individually.
- To view the log files, open these in any editor programme.
- Switch off the **HDF-AMD**, close the device housing and install the device in its original position.

## Miscellaneous

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## Help & Support

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Despite its simple operation, many users find modern security technology quite complex and can grasp the concept to some extent only. The diversity of museums and collections requires an expert and the task-related installation of the **Human Detector Flex** technology. The aim is to create a security system that is optimized to customer needs. If you are in charge of the installation, we would like to make the following suggestions:

**Suggestion** Thoroughly read the operating instructions to understand the various functions and special features of the individual components. Compare the delivered systems with the documentation.

**Suggestion** It often is beneficial to try out an installation outside the exhibition first. Build small functional units and put them into operation. Change the settings of the various components and observe the outcome.

**Suggestion** Plan your security system in advance. Create a diagram of which sensors collaborate with which alarm devices. Use your diagram as a guide during the installation. If you make changes to your concept - which is very likely - enter them immediately in your diagram. **Remember, accurate project documentation is a prerequisite for all future work on your security system.**

**Questions** Please direct any questions to your retailer first. They should be trained and be able to answer your questions. If not, they will receive the necessary support from us.

**Training** Take advantage of our training opportunities. We will train you and your colleagues in the installation and use of the **Human Detector Flex** security technology. The training courses can take place at your premises or at our training centre in Coesfeld (near Münster in North Rhine-Westphalia, Germany). Training can be combined with the initial installation of your security system, if required. Our sales department will be happy to inform you about costs, conditions and dates for technical training.

**Support** Do you need help quickly? Our technical support can be reached by phone **Monday to Thursday between 8.00 and 17.00 or on Friday until 15.00**. Training and technical support can be provided by email, phone or video conference (Microsoft Teams).

**Technical Support:**            **heddier electronic GmbH**  
   [support@heddier.com](mailto:support@heddier.com)  
   Phone: +49 2864 95 178-0

**Important!** **Check the functions of all installed components at regular intervals.** This is important in order to detect deviations from normal operation and possible errors at an early stage. Prepare and archive a test protocol. The tests can range from triggering a test alarm to checking the radio links and battery voltages. We will tell you about the exact procedure in our training courses.

**heddier electronic GmbH** reserves the right to make different service agreements with museums, collections, private collectors and other institutions. These agreements may include special services, response and repair times. All such agreements shall be in writing and signed. Verbal agreements outside the scope of the normal use of our systems and support are only valid after written confirmation.