



VibroLine Recorder® 1.0

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Table of contents

VibroLine Recorder® - Intended use.....	4
Overview and data recording	5
Program settings.....	9

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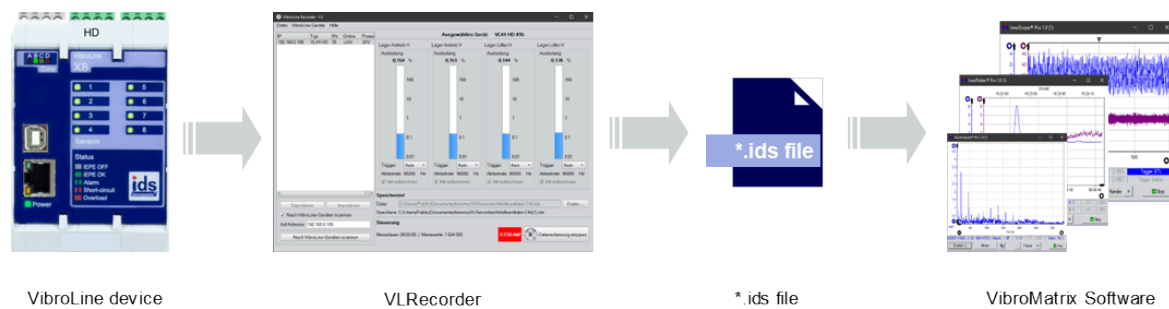
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VibroLine Recorder® - Intended use

The VibroLine devices reliably monitor vibrations on machines and systems around the clock. Exceedances of alarm and limit values are reliably detected. If such an exceedance occurs, the DataInspect option can be used to determine the cause of the exceedance. The VLRecorder and the VibroMatrix software environment are used for this purpose. Raw data from VibroLine VLX devices are exported to a *.ids file. These *.ids files can then be evaluated with the analysis modules of the VibroMatrix software.

Note: To use this type of data evaluation, both the **DataStream** option and the **DataInspect** option are required.

The procedure of a recording and evaluation is as follows:



If a data recording is to be carried out, the VLRecorder requests the raw data from the corresponding device (the raw data output via the VLDAQ API must be activated). The data are written into a *.ids file. This *.ids file can then be used on any computer to evaluate the data. All that is required is to download the VibroMatrix software and read the *.ids file into the InnoMaster Replay.

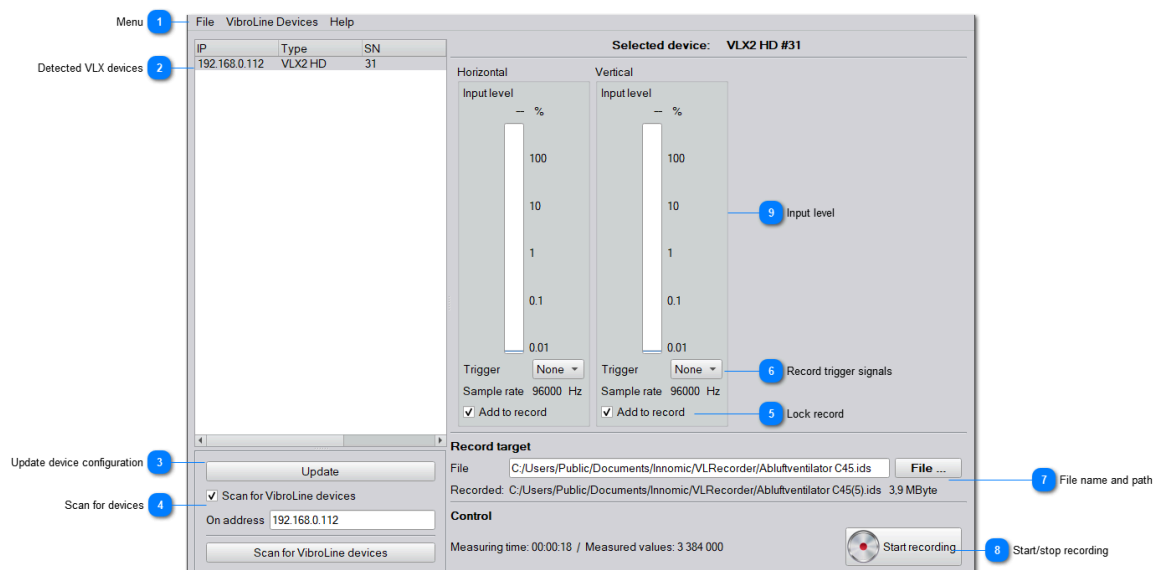
The use of the *.ids file is documented in detail in the VibroMatrix user manual.

Overview and data recording

Data recording with the VibroLine Recorder is easy to handle:

1. Find the selected VLX device by IP address.
2. Configure the measurement channels for recording.
3. Start data acquisition.

The possible actions for each step are explained below:



1 Menu

File VibroLine Devices Help

All program menus can be selected in the menu bar. The following submenus can be selected by clicking on the individual items:

File

- Open [settings](#)
- Close the VL Recorder

VibroLine Devices

- Scan for VLX devices
- Start the recording

Help

- Show help file
- Show irogram info

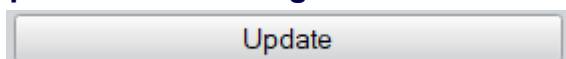
2 Detected VLX devices

IP	Type	SN
192.168.0.112	VLX2 HD	31

The table lists the detected VLX devices. This includes the following information:

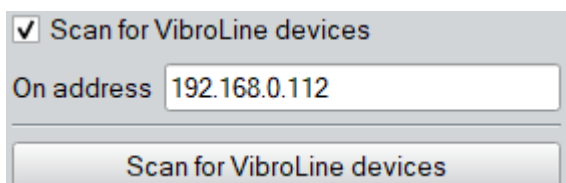
- IP address (as assigned in the VLConfigurator).
- Device type (depending on type and number of channels, VLX1, VLX2, VLX4, VLX6 or VLX8 is displayed)
- Serial number SN (assigned by the manufacturer)
- Online status
- Status of power supply (for raw data recording a 24 V supply must be connected)

3 Update device configuration


 A rectangular button with the text "Update" centered on it.

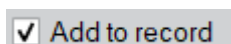
If changes are made to the configuration of the device using the VLConfigurator, these can be applied to the VLRecorder by clicking on "Update".

4 Scan for devices


 A form with a checked checkbox labeled "Scan for VibroLine devices". Below it is a text input field containing "192.168.0.112". At the bottom is a button labeled "Scan for VibroLine devices".

To find a device in the network, the check mark is activated and the IP address assigned in the VLConfigurator is specified. Click on "Scan for VibroLine devices" to search the network. If the searched device is found, it appears in the table above. So that the device can be found in the VLRecorder, the "Raw data transfer via VLDAQ API" must be activated in the LAN menu of the VLConfigurator.

5 Lock record


 A checkbox with a checkmark and the text "Add to record" next to it.

For each measuring channel of the VLX device it can be decided whether a raw data recording is to be carried out or not. If the respective channel is not to be considered for recording, the check mark is removed.

6 Record trigger signals


 A dropdown menu with the label "Trigger" and a selection box showing "None".

In addition to the raw data of the vibration signals, speed information (trigger data) can also be recorded. For each measurement channel for vibration signals, you can select whether trigger input ST1, ST 2 or ST3 is to be used.

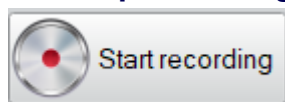
This allows, for example, speed signals to be displayed in VibroMatrix or order analyses to be performed.

7 File name and path



The file path of the *.ids file is defined here. This is done by clicking on "File ..." and selecting the preferred folder in the file dialog or by manual input. The file name is also entered here. If there is a name identity for several recordings, the file name is provided with an up-counting index (1, 2, 3, ...), as shown in the example above. A data loss by accidental overwriting of files is prevented in this way.

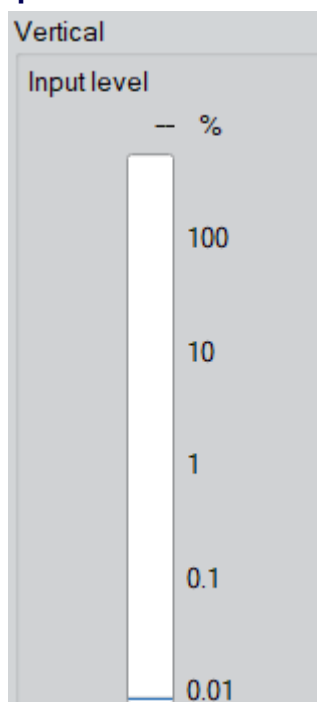
8 Start/stop recording



Clicking on this button starts or stops the data recording and thus the generation of the *.ids file.

During recording, the elapsed time and the number of measured values are displayed.

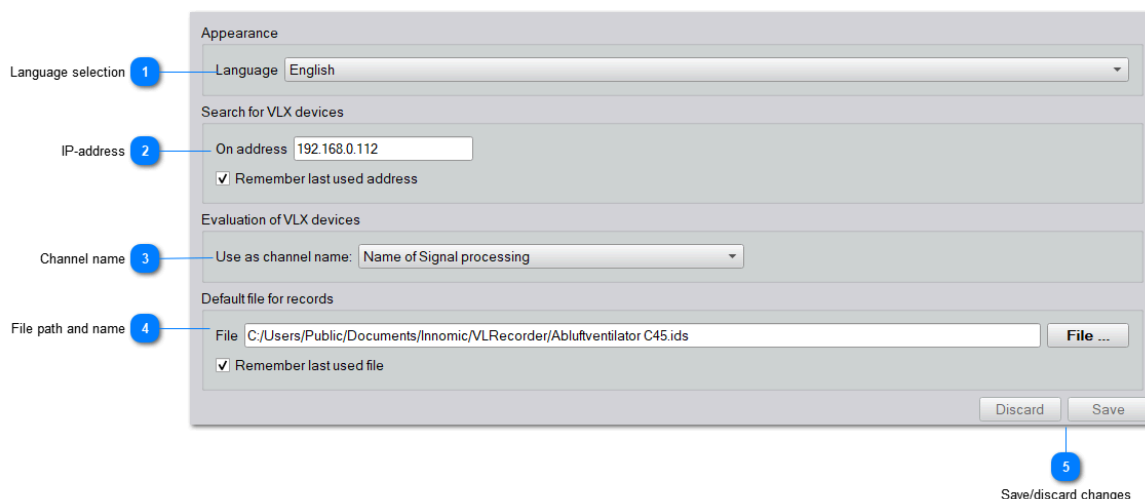
9 Input level



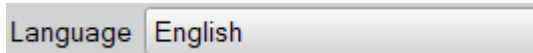
The bar graph display shows the current level taking into account the selected gain of each measuring channel. Here, 100% corresponds to the maximum voltage level of each input channel. The display represents the input signal band-limited to 0.1 ... 40000 Hz (= maximum frequency range of the VibroLine devices).

The naming of the measuring channels is done according to the selection made in the [settings](#).

Program settings

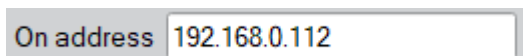


1 Language selection



The language of the user interface of the VL Recorder can be changed. German and English are available for selection.

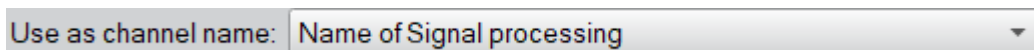
2 IP-address



An IP address can be entered here to [search](#) for VLX devices. The address used here is displayed in the "Scan for VibroLine devices" field in the recording menu.

If the "Remember last used address" checkbox is set, the address entered in the "Scan for VibroLine devices" field of the recording menu is placed here.

3 Channel name



The channel name can be selected here. The following are available for selection:

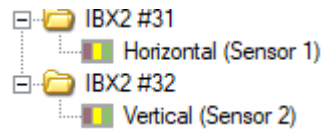
- Neutral name (channel 1, ...)
- Name of the signal processing (as defined in the VL Configurator)
- Name of the analog output (as defined in the VL Configurator)

This name then appears in the:

recording menu

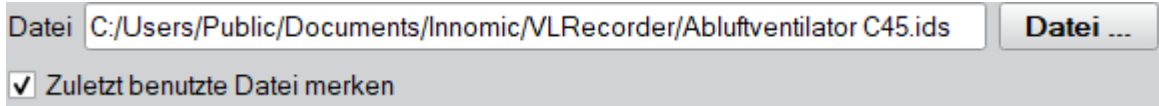
Horizontal

as well as in VibroMatrix



4

File path and name



The file path of the *.ids file is defined here. This is done by clicking on "File ..." and selecting the desired folder in the file dialog or by manual input.

The file name is also entered here. If the names of several recordings are the same, the file name is given an up-counting index (1, 2, 3, ...), as shown in the example above. This prevents data loss due to accidental overwriting of files.

If the checkmark "Remember last used file" is set, the path entered in the "[File](#)" field of the recording menu is placed here.

5

Save/discard changes



The changes made are accepted by clicking on "Save" or ignored by clicking on "Discard".