

Shock Alarm software

User Guide



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Preface

This software is designed to operate with the shock alarm sensor from the Laboratories company. The sensor detects the tilt and shocks in two axes. Recognizable maximum angle for each axis is 30°. Software allows the user to fully configure the sensitivity to tilt and shake. In addition, the software provides a configuration of up to four independent actions when alarm is triggered:

- Audio siren,
- Warning images,
- Emails,
- TCP messages to the Alarm Receiving Centre (ARC).

Software installation

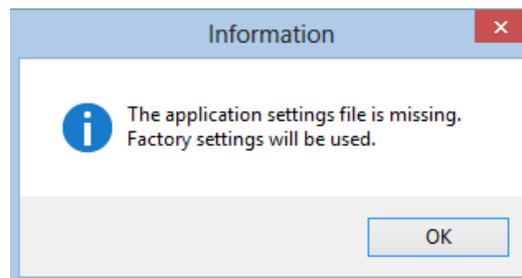
Software installation is described in detail in the **Installation Guide.pdf**. If the manual is not available, contact the vendor of your shock alarm sensor devices or ask at info@laboratories.cz.

Firs time use

After a successful installation, perform the first run of the software using the icon created on the desktop:



When you run the software, an information window appears. Click "OK".



Depending on whether the sensor is connected or not in the system tray displays one of the following info messages.



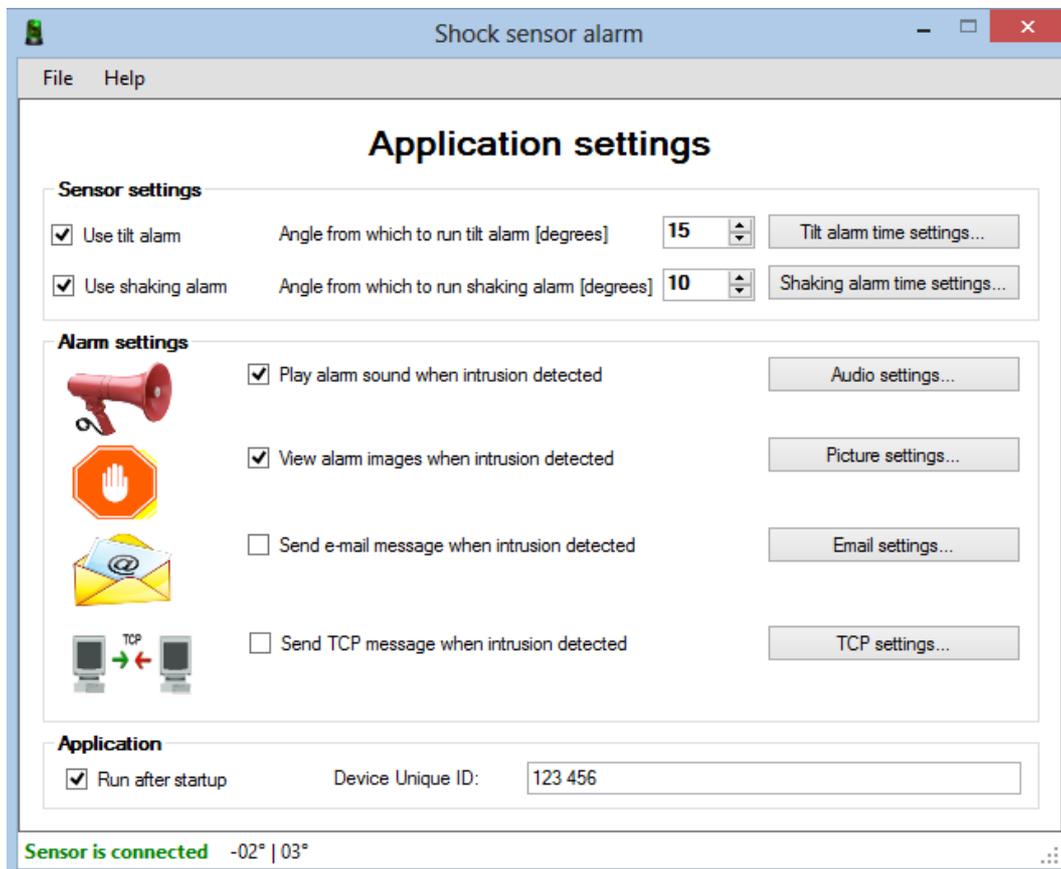
Sensor is connected



Sensor is not connected or sensor driver is not properly installed

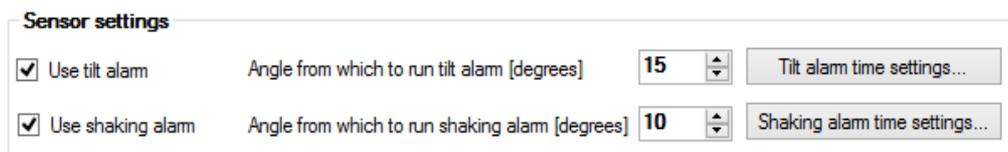


Click on the info message or on the green beacon icon in system tray to view application settings window.



Sensor settings

Application allows you to independently enable the detection of tilt and shake.

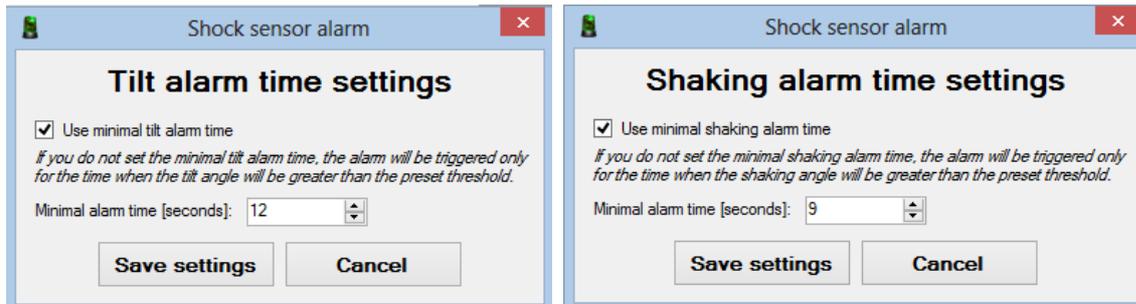


- To enable the tilt detection check the box “Use tilt alarm”.
- To enable the shake detection check the box “Use shaking alarm”.

You can set any threshold of sensitivity separately for tilt and shake in the range of 1 to 30 degrees. When exceeding the angle of tilt or shake over preset threshold of sensitivity an alarm is triggered. Remember that the angle of the tilt sensor sensitivity must always be greater than the angle of the shake sensor sensitivity.



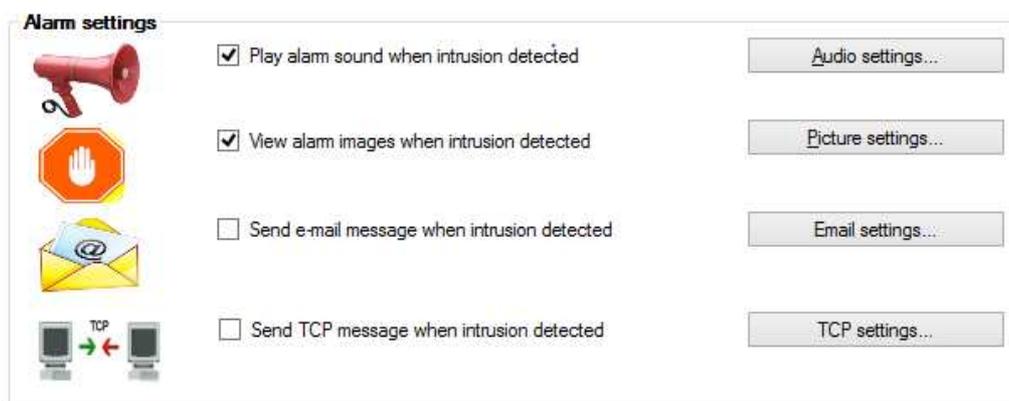
Software offers two types of behavior after an alarm is triggered and these types can be combined. The first option is not to use the minimal alarm time, it means that the alarm will be triggered only for the time when the tilt (shake) angle will be greater than preset threshold. The second option is to use minimal alarm time, it means that alarm will be running for a user configurable time period from alarm triggering. To configure minimal alarm times click on "Tilt alarm time settings..." or "Shaking alarm time settings...". The configuration window appears.



Alarm settings

As described above, the software provides a configuration of up to four independent actions when alarm is triggered:

- Audio siren,
- Warning images,
- Emails,
- TCP messages to the Alarm Receiving Centre (ARC).

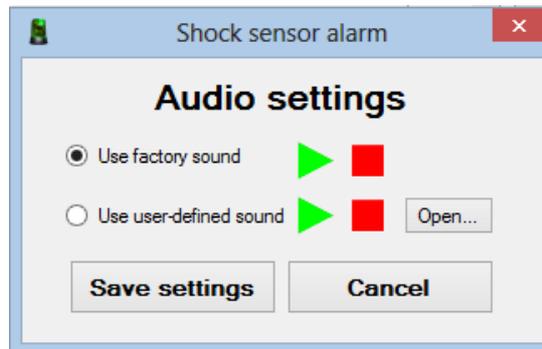


The following text describes the settings of individual types of actions.

- To enable audio siren check the box "Play alarm sound when intrusion detected".
- To enable warning images check the box "View alarm images when intrusion detected".
- To enable email sending check the box "Send e-mail message when intrusion detected".
- To enable TCP messages to the ARC check the box "Send TCP message when intrusion detected".

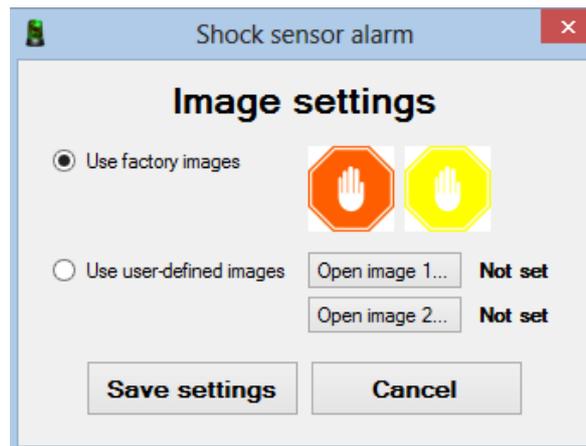


For detailed audio siren settings click on “Audio settings...”. The configuration window appears.



You can use factory sound or user-defined sound. To play a sound, click the green arrow symbol. To stop playback, click the red square symbol. If you want to define user-defined sound, click on “Open...” and choose your preferred audio track. Application supports Waveform Audio File Format (WAV).

For detailed warning images settings click on “Picture settings...”. The configuration window appears.



You can use factory images or user-defined images. Factory images are two images that are alternately displayed. If you choose only one user-defined image, the image is displayed statically. If you choose two user-defined images, then they are displayed alternately. Application supports following image types: BMP, JPG, PNG.



For detailed emails settings click on “Email settings...”. The configuration window appears.

You can verify the correct email settings by clicking on “Send test e-mail”.

There are distinguished two types of email messages in the section “What would you like to send?”:

- Fully user-defined (Subject, Body) emails are send only when alarm is triggered.
- By software generated email send when alarm is triggered and by software generated email with list of event send when alarm stops.

Example of by software generated emails:

This is an automatically generated message:

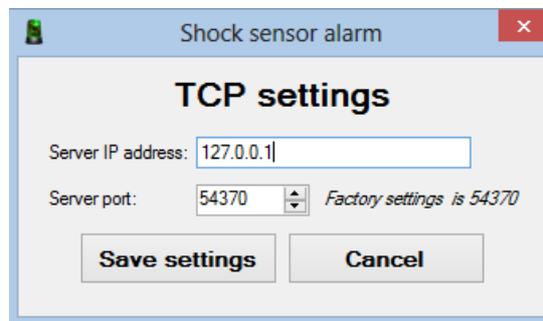
ALARM HAS BEEN TRIGGERED!

This is an automatically generated message:

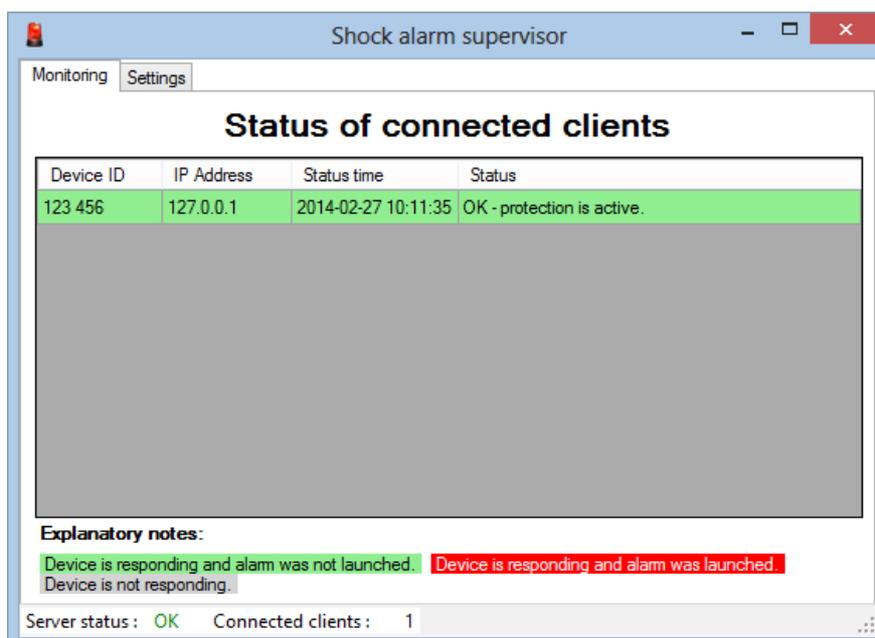
```
>>> LIST OF EVENTS DURING THE ATTACK - DEVICE UNIQUE ID: 123 456 <<<
-----
2014-02-24 08:27:56 TILT ALARM WAS ACTIVATED
2014-02-24 08:28:10 ALARM WAS DEACTIVATED
```



For detailed TCP messages settings click on “TCP settings...”. The configuration window appears.



If set “Send TCP message when intrusion detected”, application automatically connects to the **ShockAlarm Supervisor software** and send its status. Detailed description of the ShockAlarm Supervisor software can be found in **Shock Alarm Supervisor User Guide**. The figure below shows the ShockAlarm Supervisor software with one connected client.



Application settings

To each device on which the Shock Alarm application is running can be assign a unique identifier “Device Unique ID”. The identifier is used to identify the device when sending e-mail messages and when sending TCP messages. We recommend to set the identifier for each device unique.



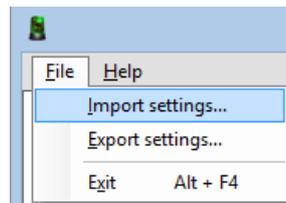


If you want to automatically run the application after system startup, check the box “Run after startup”. For this task, the application needs administrator privileges so you may be asked to confirm the “User Account Control” message.



Import and Export of the application settings

To simplify application configuration you can export settings to XML file and import it to another computers. After the successful import do not forget to set "Device Unique ID" on each device.



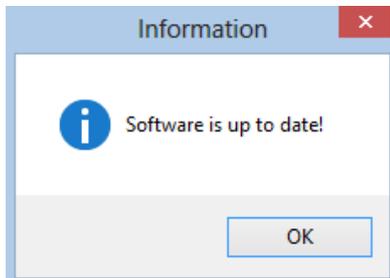
Software update

Application allows you to check whether you have installed the latest Shock Alarm software version. For this step, it is necessary to have internet access. Click on “Help” and “About”. The following about dialog appears.

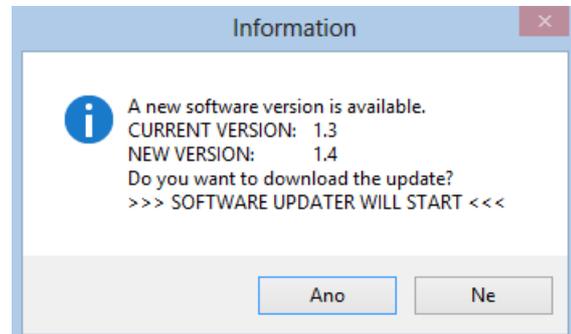




To check the latest Shock Alarm software version click on “Check for updates”. Depending on whether or not the update available you may receive one of the following messages.

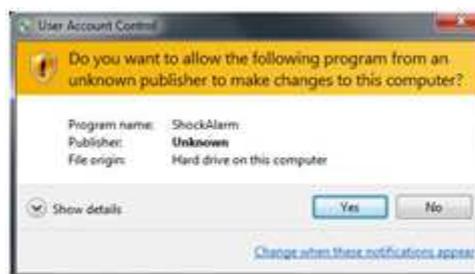


Software is up to date

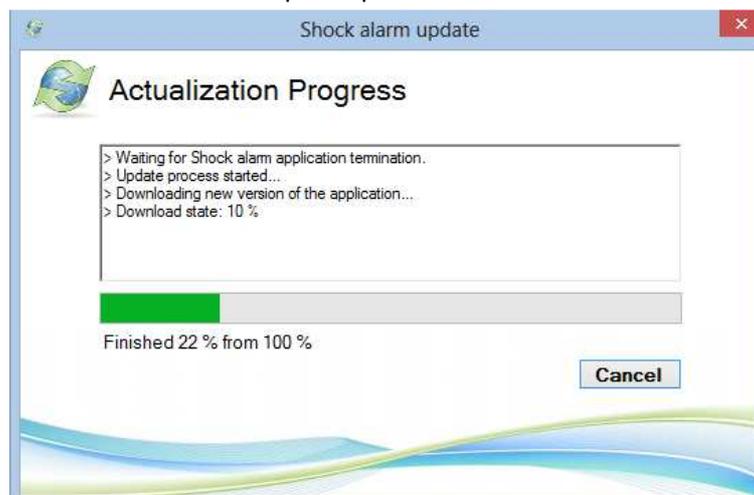


A new update is available

If a new update is available and you click on "Yes", then will start the update process. ". For this task, the application needs administrator privileges so you may be asked to confirm the “User Account Control” message.

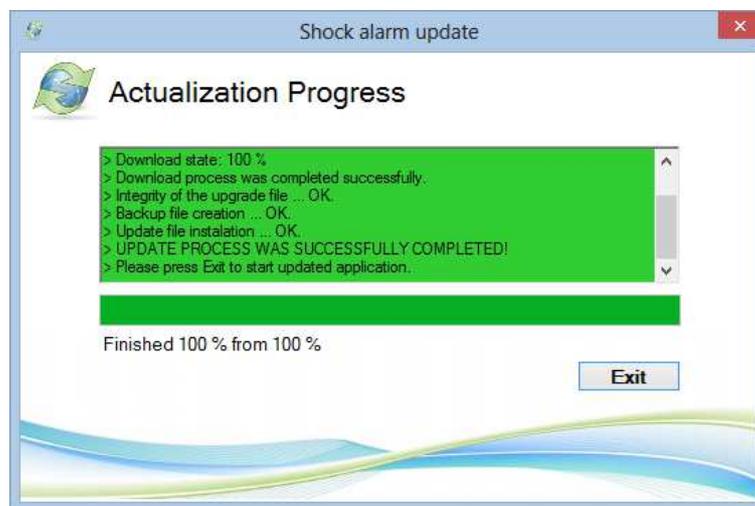


The figure below shows the Shock alarm update process.





After a successful update click on "Exit". Updated Shock Alarm version will be launched.



Technical support

In case of any problems, please contact technical support Laboratories s.r.o.

E-mail: info@laboratories.cz