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





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.



not properly installed



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

8	Shock sensor alarm	- 🗆 🗙
File Help		
	Application settings	
Sensor settings		
✓ Use tilt alarm	Angle from which to run tilt alarm [degrees]	Tilt alarm time settings
 Use shaking alarm 	Angle from which to run shaking alarm [degrees] 10 🚖	Shaking alarm time settings
Alarm settings		
	✓ Play alam sound when intrusion detected	Audio settings
	View alarm images when intrusion detected	Picture settings
	Send e-mail message when intrusion detected	Email settings
→ ←	Send TCP message when intrusion detected	TCP settings
Application		
 Run after startup 	Device Unique ID: 123 456	
Sensor is connected	-02° 03°	.:

Sensor settings

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

Sensor settings				
✓ Use tilt alarm	Angle from which to run tilt alarm [degrees]	15	*	Tilt alarm time settings
✓ Use shaking alarm	Angle from which to run shaking alarm [degrees]	10	-	Shaking alarm time settings

- 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.

8	Shock sensor alarm	×	Shock sensor alarm
Tilt	alarm time settings		Shaking alarm time settings
Use minimal til <i>If you do not set ti</i> <i>for the time when</i> Minimal alarm time Save	t alarm time he minimal tilt alarm time, the alarm will be trig the tilt angle will be greater than the preset th [seconds]: 12 - e settings Cancel	gered only vreshold.	✓ Use minimal shaking alam time If you do not set the minimal shaking alam time, the alam will be triggered only for the time when the shaking angle will be greater than the preset threshold. Minimal alam time [seconds]: 9 Save settings Cancel

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).

Play alarm sound when intrusion detected	<u>A</u> udio settings
View alarm images when intrusion detected	<u>P</u> icture settings
Send e-mail message when intrusion detected	Email settings
Send TCP message when intrusion detected	TCP settings

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.

Shock se	ensor alarm
Audio	settings
 Use factory sound 	
O Use user-defined sour	nd 🕨 📕 Open
Save settings	Cancel

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.

8	Shock sensor alarm
	SMTP server settings
SMTP server	address: out.smtp.org Port: 25
User Name:	testusemame
Password:	•••••
Use secu	re connection (SSL)
	E-mail settings
 Send e Send e when t 	only user defined e-mail (subject, body) when the alarm is triggered. e-mail when the alarm is triggered and send e-mail with list of events the alarm stops.
E-mail From:	john.smith@example.org
E-mail To:	jsmith@example.org.johns@example.org
	Use a semicolon to separate more recipients. Example: iohn.smith@example.org:ismith@example.org
Subject:	Shock sensor alarm
Body:	Security issue
Set e-mail	format to HTML
Save se	ettings Send test e-mail Cancel

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:	This is an automatically generated message:
ALARM HAS BEEN TRIGGERED!	>>> 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.

8	Shock sensor alarm
	TCP settings
Server IP addre	ss: 127.0.0.1
Server port:	54370 + Factory settings is 54370
Save	settings Cancel

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.

1				Shock alarm	supervisor	-	×
Г	Monitoring	Settin	ngs				
			Sta	tus of conn	ected clients		
L	Device ID)	IP Address	Status time	Status		
	123 456		127.0.0.1	2014-02-27 10:11:35	OK - protection is active.		
	Explanato	ory no	otes:				
	Device is r Device is r	respon not res	ponding and alarm v ponding.	was not launched. De	vice is responding and alarm was	s launched	
S	erver statu	s: 0	K Connect	ed clients : 1			

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.

Application		
 Run after startup 	Device Unique ID:	123 456



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.

Ş	Do you want unknown pul	to allow the following program from an blisher to make changes to this computer?
	Program name: Publisher: File origin:	ShockAlarm Unknown Hard drive on this computer
@ s	how details	Yes No

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.

Information	Information
Software is up to date!	A new software version is available. CURRENT VERSION: 1.3 NEW VERSION: 1.4 Do you want to download the update?
ОК	>>> SOFTWARE UPDATER WILL START <<<
	Ano Ne
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