

# Advanced Features

## Real Time Analysis

Real time detection and quantification of important heart and lung sounds can be enabled via the menu. Tap **Tools > Recording Options**

## Adjust Filters

The STG software includes filters that reduce or eliminate certain sound frequencies. To access the filters screen, tap **Tools > Filter Sounds** and then make your filtering selection.

## Adjust Pocket PC Microphone Level

The recording levels should be adjusted for optimal recording. Under the Settings menu item, select iPAQ Audio. For the iPAQ 5450, we recommend the following settings:

<u>Stethoscope</u>	<u>auto gain</u>	<u>mic gain</u>
Andromed	off	-3
Cardionics	off	-3
Stethographics	off	+27

See the Pocket PC manual for more information.

## Activate or Deactivate Patient Information

STG software allows you to save sound recordings along with the patient's identifying information, relative location of the chest piece and comments. This feature can be activated or deactivated using **Tools > Recording Options > Show Patient Information Dialog**

## Heart Sounds & Lung Sounds Pocket Guides

Stethographics has produced a pocket guides for heart and lung sounds. These guides provide textual information, illustrations and recordings examples. These products are available at no charge when you register your software with stethographics. They can also be purchased at [www.handango.com](http://www.handango.com).

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# File Management

## Overview

After you have mastered the basic operations of recording, displaying and analyzing chest sounds, you are prepared to use the optional File Management features of Handheld STG.

## Backup

We recommend weekly use of the iPAQ Backup program to save a full copy of this application and your data. Be sure to save the backup file on an SD Card or to the **iPAQ File Store**.

## Saving & Deleting Files on Pocket PC

Patient recordings can be saved on the Pocket PC using the command **File > Save**. The recording will be saved using the patient's name and exam date. These files can be later redisplayed using **File > Open**. To Delete files, use the Pocket PC **File Explorer**, tap and hold on the file to be deleted, then select delete from the menu.

## Moving Files to and from PC

Microsoft provides powerful file management and synchronization software with each Pocket PC. We encourage you to read your Pocket PC's documentation in order to use these features. Refer to the Pocket PC documentation for additional information.

## STG for PC

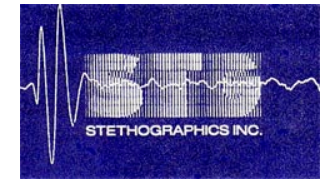
Many editions of Handheld STG include a copy of STG for PC. Handheld STG users can use STG for PC to archive, retrieve and analyze chest sounds using a standard Windows PC.

## Printing

Using STG for PC, waveforms and analysis (e.g. counts of wheezes and crackles) can be printed using the **File > Print** menu within STG for PC.

Email: [support@stethographics.com](mailto:support@stethographics.com)

Web Site: [www.stethographics.com](http://www.stethographics.com)



# Handheld STG QUICK START GUIDE

## Introduction

This Quick Start Guide provides a fast way to start using your Handheld STG™ system. Instructions for recording, display and analysis of heart and lung sounds are found on inside of this guide. Brief descriptions of advanced features are also included.

## Requirements

- Pocket PC 2002
- Compatible electronic stethoscope (visit our web site for the latest list)
- STG software
- Windows® PC

## Setup

To install STG software, first establish a connection between your PC and PocketPC using software supplied by Microsoft, then run the file HandheldSTG which is on the supplied CD or from [www.stethographics.com](http://www.stethographics.com). If your STG software was supplied on an SD card, use file explorer to open the file HandheldSTG.

## Help

Use the ? icon to access the STG help system on the Pocket PC.

## Record and Display Heart or Lung Sounds

Connect stethoscope to Pocket PC. Adjust recording levels.

Press **Start** button or use menu to select STG application

Press left side of **Navigation** button to start recording

Enter Patients name. This step can be skipped or disabled.

Indicate chest piece position. Click **OK** - recording begins.

Press right side of **Navigation** button to stop recording.

## Replay and Visualize Heart or Lung Sounds

Insert headphones into audio output of Pocket PC and adjust Pocket PC volume

Press center of **Navigation** button to play sounds.

Press right side of **Navigation** button to stop playback.

## Phonocardiogram Example - Faint Heart Murmur

Tap stylus on suspected murmur.

Tap **zoom** icon to expand the signal horizontally.

**Zoom** available for vertical and horizontal display.

## Lung Sound Analysis

Record sound or open previous recording using **file > open**

Select **Tools > Analyze Heart Sounds or Lung Sounds**

Important sounds are identified and counted

Select **zoom** icon to expand waveform

## Activate Real Time Analysis

Select **Tools > Recording Options**

Check the box **Analyze Sounds in real time**