

# Ansurs Read Me



Fluke Biomedical's Ansur is a software application facilitating automatic test and inspection of medical instruments. Ansur is designed to be used with plug-ins that are available for different Fluke Biomedical test instruments.

## Introduction

This read me file contains last minute information for Fluke Biomedical's Ansur. It also describes the changes made between each new released version.

## Installation Prerequisites

1. If a version of the Ansur Executive prior to v2.7.0 is already installed, it should be uninstalled using the "Add or Remove Programs" tool in the Windows Control Panel.
2. Before installing newer versions of Plugins, you may uninstall older version Plugins installed with the Ansur Executive prior to v2.7.0 using the "Add or Remove Programs" tool in the Windows Control Panel.

## File Locations

Read me files for the different plug-ins installed on your system will be stored in the directory named [Help](#). Language files are stored in the [Language](#) directory.

## Known Issues

If the standards selections made in the Test Initialization window are changed after a test has been performed the status of the test may no longer be valid. Every test should be re-run after changing the standards selections.

When the browse toolbar is displayed in the test guide the shortcut keys for the main test guide toolbar sometimes does not work.

When creating procedures that links to other files, certain file types may not be displayed inside the procedure, but rather be loaded in a separate window. This depends on your system's configuration.

In some situations Ansur seems to hang when displaying linked files in the procedure. This may be caused by a dialog box shown underneath the Ansur windows. This is known to happen when displaying PDF files and the PDF reader starts a search for online updates. Try to use Alt+Tab to change focus to Adobe's download manager.

The printed report does not support all HTML tags. Consequently, when using an external editor to create HTML procedures that are pasted into Ansur's procedure editor the layout may not be preserved on the printed report.

## History

### Release 2.7.1

- Firmware Upload patch is included.
- Preview of the test element is fixed.

### Release 2.7.0

- Made compatible with TNT12000 Plug-In v1.1.2.
- Ansur MLC v3.3.3 is updated which includes QA-ES and ESA612 firmware upload.

### Release 2.6.0

- Very critical bugs are fixed
- Made compatible to work with TNT12000 Plug-In

### Release 2.5.0

- Ansur MLC v3.3.2 is updated which includes Impulse 6000D/7000DP and ESA620 firmware upload.
- Implemented change in date format for the print report.
- Bug fixes made in AVPI.

### Release 2.4.3

- Recompiled with the new version of a component compatible to windows Vista.
- Ansur MLC v3.3.1 is updated which includes Impulse 6000D/7000DP and ESA620 firmware upload.
- Includes USB Driver installation.

### Release 2.4.2

- Conditional Test Container now supports boolean operators 'And' and 'Or' when creating new rules.
- Items added to visual tests (Checklist, Numerical List and General List) now have a 'Required' attribute. All items with the 'Required' attribute set must be answered by the operator before the test is marked as complete.
- Fixed a problem in the Numerical List where limits written with % as unit would not compute correctly.
- Values entered in a Numerical List will now preserve decimal digits as it was entered.
- Improved report printing so that HTML procedures that are created using another HTML editor and then pasted into Ansur's procedure editor are better supported.

### Release 2.4.0

- Link procedure format is now included. This enables the user to write test procedures in external files and link them into the test guide.
- Test guide is updated with inline web browsing. If the user clicks a link in an HTML or Link format procedure, the contents of the link is displayed inside the test guide.
- Browse toolbar is included in the test guide to navigate inline browsing.
- Added new toolbar for all test guide windows. The new toolbar provides customization options like button size, text labels and button positions.
- The size of the general list's input field has been increased to 20 characters. It will automatically expand vertically if more lines are added.
- When a numerical or general list is performed, focus is set on the first input field.
- When editing a visual test's step descriptions, Ctrl+Enter will create a new step.
- Pressing Ctrl and Up or Down arrow when editing a visual test's steps will select the step above or below.
- In test summary, it is now possible to select which standard to display.
- Fixed a problem where the condition 'not equals' was unavailable on the conditional test container.
- Fixed a problem where limits for lagu infusion pump tests where not printed using the correct units.
- Fixed a problem where Ansur would hang if a result was entered in test guide preview.

### Release 2.3.2

- Module setup are now displayed for both QA-90 and ESA601 tests when they are included in the same test template.
- When a test element is added to a test container it will now be assigned the same standards as the container.
- When a template is started, all standards used in the template will be selected by default.
- If there are no more than one service event in the template, the Test Initialization window will be skipped. If there exists one service event it will be selected by default.

### Release 2.3.1

- Updated test sequence window to support ESA601 module setup.
- Updated Test Guide wizard to support comment with QA-90 tests.
- Changed HTML procedure in Test Guide wizard to work around a problem with default Internet Security Zone introduced with Internet Explorer 6 service pack 1.

### Release 2.3.0

- Updated with Fluke text and graphics.
- Fixed a problem where a conditional test container would not execute if one of its criteria test elements was deleted.
- Checklist's test results (pass/fail) are now being translated before printed.
- Added new french language files for Ansur and the visual plug-in.

### Release 2.2.0

- Command line interface now supports multiple files.
- Ansur files can be loaded by dragging them from Windows Explorer and onto Ansur's main window.
- Test results and limits can now be expressed in time format (hh:mm:ss) in plug-ins where this data type is supported.
- Improved custom setup and expected result dialog boxes to reduce load time when creating test elements.
- Fixed a problem where service events with no activity could be created.
- Fixed a problem that made the QA-90 plug-in unable to perform QA-90 tests when loading a job order with no module setup.
- Removed help text from 'expected results' and 'apply when' pages.
- Test time and key DUT info data (e.g. serial number) is now printed on each page of the report.
- Test result handling is updated so that plug-ins can calculate and validate their own limits.
- Test result window has been updated so that test elements can display the currently selected limits in their detailed result view.

### Release 2.1.0

- Test guide will now maintain size and position between different tests.
- In the test guides, the Enter key shortcut has been replaced with F9 as this is used in other parts of Ansur.
- Limits are now displayed in test summary.
- Numerical test's limits are now maintained in the same order as the steps.

- Language translation updated.
- Removed default procedure from general tests.
- Removed help text from general setup.
- Upgraded report engine so that pictures can be included both in procedures and in the report header.
- Establishment name now printed on the report.
- Status 'NA' is now printed on the report for test elements that are not applicable.
- Bugfix: Short cut keys now works when editing HTML.
- Bugfix: Hyperlink now works in test guides.

### Release 2.0.0

- Test Guides are upgraded with new layout.
- Test element's now have only one procedure text field. The description has been removed. The new procedure can be edited in HTML as well as in RTF and plaint text.
- Ansur now supports CSS and XSL in all documents. They can be changed from the options menu.
- All visual tests now supports multiple measurements. Hence a checklist test element can now contain multiple check items.
- Conditional execution have been added to the test container.
- The test container can now display a test guide. It will look exactly as the User Message.
- Test result view has been extended with filter functionality so it is possible to view only failed tests or only tests that has not been run. This filter is available through a popup menu.
- Test element preview has been added to the View menu for the test templates.
- Improved saving of RTF data. It is now possible to paste pictures into the procedure when working in RTF mode. The pictures will be saved and loaded properly.
- Test Guides are upgraded with new layout.
- Test element's now have only one procedure text field. The description has been removed. The new procedure can be edited in HTML as well as in RTF and plaint text.
- New test elements for checklist and multiple row numeric and alphanumeric tests are provided.
- Added functionality for using test sequences with work orders. If DUT info or module info is specified in the test sequence it will not be copied into the test record. Any info present in the job order will override the settings in the test sequence.

## Language Changes

This chapter describes the changes made to the language file in each new version. The list includes only versions where the language file was changed.

### Release 2.4.2

In English (ansur).lng:

- New: 3527
- Altered: 208

In English (AVPI).lng:

- New: 20303 - 20306, 20318 - 20319, 21070, 21102, 21505
- Altered: 21100, 21150 - 21153, 21501 - 21504
- Removed: 20200 - 20222

### Release 2.4.0

- New: 204 - 208, 221, 250 - 262, 270 - 291, 501 - 505
- Altered: 210 - 217,
- Removed: 218, 219

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