



ANX 3.0 Version L

Release Notes

Document: Revision B
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Introduction

These release notes are a supplement to the following manuals:

- ANX 3.0 Technician Training Manual
- ANX 3.0 User Operations Manual

New and Changed Features in This Release

Overview

ANX 3.0 Version L is a major release that improves upon earlier versions in the following areas:

1. Redesigned Report Pages
2. Redesigned Report Configuration Options
3. New Print to PDF option
4. Modified Data Acquisition Module
5. Improved Test Interpretation Algorithm

Redesigned Report Pages

The ANX 3.0 Test Report Pages have been completely redesigned as follows:

- The new **ANS Test Results** page combines and replaces the old **ANS Test Results** and **ANS Bar Graph** pages.
 - The new page does not include the Summary Diagnostic Implications
 - The normal ranges and interpretation for the Deep Breathing, Valsalva, and Stand phases (based on CHANGES in parameters compared to the Baseline phase) are now presented consistently to ensure better readability and ease of interpretation.
 - The changes in Systolic and Diastolic BP are now interpreted individually
 - Secondary parameters (E/I Ratio, Valsalva Ratio, 30/15 Ratio, FRF) are eliminated from this report page [They still appear on the Multi-Parameter Graphical Report]
 - The Body Mass Index (BMI) is computed and included with the patient information
- The new **Diagnostic Implication Summary** page prints out an improved description of the various parameter values and their implications. These implications are organized by test phase and separated by parameter to improve readability of the report.
- If a more detailed description is desired, the physician has the option of printing out a detailed version of the above page - **Diagnostic Implication Summary – Detailed**. This page is organized such that the descriptions correspond line by line to the parameters in the **ANS Test Results** page.
- The **Possible Therapy Options** page has also been redesigned and the options organized by condition to improve readability.

- The **List of References** has been moved to a separate page that may be optionally printed by selecting it from the **Report Configuration Window**, Optional Pages.

Redesigned Report Configuration Options

The Report Configuration Window has also been redesigned to reflect the changes made to the report pages. The organization of the options has changed as shown in the screenshot in Fig. 1. There are three main tabs: **Report Pages**, **Optional Pages**, and **Legacy Pages***. All the pages of interest are on the **Report Pages** tab, where they are subdivided as **Main Report Pages** and **Supplementary Report Pages**. Technically, you will only need the **Main Report Pages** (can be selected by pressing the *Default* button).

* The Legacy Pages are password protected and you will not need access to these pages.

The screenshot shows the 'REPORT CONFIGURATION' window with the following elements:

- Header:** REPORT CONFIGURATION
- Instruction:** (Select the items you would want to include in your report)
- Options:**
 - Patient's Name
 - Gender
 - Height
 - Times Tested
 - Date of Birth
 - Weight
 - Doctor's Name
 - Today's Date
 - Time
 - Date of Test
 - Start Time of Test
 - End Time of Test
 - Type of Test
- Tabs:** Report Pages (selected), Optional Pages, Legacy Pages, and a search icon with an asterisk.
- Main Report Pages:**
 - ANS Test Results
 - Summary Diagnostic Implications
 - Possible Therapy Option
 - Multiparameter Graphs (Typical)
 - ECG Graph
- Supplementary Report Pages:**
 - Cardio-Respiratory Coupling
 - Time Domain Ratios
 - Summary Diagnostic Implications - Detailed
- Buttons:** SAVE (as PDF), Default, CANCEL
- Footnote:** * Legacy Pages are password protected

Fig. 1: Screenshot of the Report Configuration Window

New Print to PDF Option

The ANX 3.0 software now can export report pages directly to PDF format for the purposes of easier high-quality backup, portability, and better integration into modern EMR systems. This functionality replaces the previous “Save to Hard Disk” or “Save (as HTML)” option.

Modified Data Acquisition Module

The user interface for the test remains similar to the familiar interface in the previous versions. To make the data entry and testing process seamless, the following changes have been made:

- Option to enter height and weight in metric units OR US customary units
- Patient Height and Weight fields are now *required*
- Technician Instructions during the test have been modified. In the new version, thirty seconds before the end of any phase, the instructions will change color to red and include any special instructions to reflect the transition between that phase and the next.

Improved Test Interpretation Algorithm

The ANX 3.0 Test Interpretation Algorithm has been substantially redesigned to reflect current scientific knowledge. Some specific modifications include:

- Ranges for interpretation of Blood Pressure have been updated based on AHA recommendations
- Paradoxical Parasympathetic Syndrome (PPS) is replaced by a functional description of the condition: **excess parasympathetic activity**
- Excess parasympathetic activity may also be observed during the Valsalva phase when the change is greater than six times compared to that during the Baseline phase. This is reflected in the new **ANS Test Results** and **Multi-Parameter Graphical Report** pages.
- Indications for the possibility or risk of **syncope** have been improved to reflect functional descriptions of the autonomic imbalances
- Ranges for other parameters have been adjusted to better account for borderline conditions

Troubleshooting Features: Special Usage

- A new troubleshooting solution: “**Reprocess Data**” has been added to the **Review Report** module. You will only need to use this feature in the case of the following rare software glitch.

Issue: After the test is completed, the Save test dialog appears normally and requests an entry for the filename. On pressing OK, a *Labview Error Dialog* appears and the system crashes. On the surface it appears that the data has been lost.

Solution: To recover from this situation follow the following steps:

1. Press OK on the *Labview Error Dialog*
2. Shutdown and Restart the computer using the START menu
3. On the ANX 3.0 Main Menu, select Review Reports
4. Find and select the patient being tested when the error occurred. You will see the table at the bottom mainly filled with zeroes
5. Click on Reprocess Data
6. Print report or Save Report to PDF as required

Please note that using this feature will re-compute all numbers for the patient and overwrite the patient file.

- Two troubleshooting utilities – **Delete RegKey** and **Reset Unit No** are provided separately with the software.

These are provided purely for your convenience and **ONLY** for use during troubleshooting sessions with qualified ANSAR technicians. Inappropriate usage will render your system temporarily inoperable. If such an event occurs, please contact Technical Support.

- For increased convenience during Technical Support calls, your ANX 3.0 software will display your UNIT No.

During the installation, you will be prompted to enter your UNIT No. It is **very important** that you enter the correct UNIT No. Otherwise your system may stop functioning properly. If you do not know your UNIT No. or have any questions or concerns regarding it, please contact Technical Support.

Installation Instructions

The installation process can take anywhere between 3 and 10 minutes based on the components that are currently installed on your system. Please follow the instructions below for error free installation:

PREPARATION:

1. Switch on the ANSAR laptop
2. It is strongly recommended that you backup your *Patients* folder before continuing. If you are not sure of the procedure, please contact Technical Support at ANSAR Medical Technologies, Inc.
3. Press **Ctrl + Alt + Delete** keys simultaneously and bring up **Task Manager**
4. Select **ANX30** in Task Manager
5. Click on **End Task**

Please wait for the task to be removed from the **Task Manager** window. At this point the ANX30 Main Menu should no longer be present on the computer screen.

6. Close the Task Manager Window.

PRE-INSTALLATION:

7. Insert the **ANX 3.0 Ver. L UPDATE CD**.
8. If the installation does not start automatically, you may be asked to select from a list of actions. Select **Install ANX 3.0** and proceed directly to Step 10.
9. Please wait for 30 seconds. If you do not see any activity, then Double Click on **Computer**, double click on **ANX 3.0 (D: or E:)**, double click on **INSTALLANX**. This will start the installation process
10. You may be prompted to **uninstall** a previous installation of Anx30. Press OK to continue. (NOTE: Windows Vista users may see slightly different prompts. If applicable, follow on-screen prompts to continue).
11. Wait until the Black Window (titled **C:\WINDOWS\system32\cmd.exe**) prompts "*Press any key to continue . . .*". Click on the Black window and Press **Enter**.

INSTALLATION:

At this point, the installation process will begin. Follow all on-screen prompts. As explained below in Steps 12 to 15, you will have to click **Next** four times.

12. Agree to the default Destination Directory. Click **Next**
13. Select *I Accept License Agreement*. Click **Next**
14. Click **Next** to Start Installation
15. Click **Next** after Installation is Complete

POST-INSTALLATION:

16. Enter your **Unit No.** when prompted
It is **very important** that you enter the correct Unit No. Otherwise your system may stop functioning properly. If you do not know your Unit No. or have any questions or concerns regarding it, please contact Technical Support.
17. Confirm the Unit No.
18. After the computer restarts, ANX 3.0 Ver. L will be installed and ready. (Check to make sure the ***Patients*** folder contains all patients. If not, restore from the backup folder.)
19. If on restarting you are asked for a new registration key, please contact Technical Support for a new key.

Technical Support

If you have any questions or need any assistance with the software release, please call Technical Support at ANSAR Medical Technologies, Inc. at 1-888-883-7804.