CT-8000 PC Software Revision Log

**Rev 2.0**

# Original Release

## Rev 2.1

# Improve file handling features

## Rev 2.2

# 1. Add buffer for USB–RS-232C adapter

2. Improve “Over ride” and “Save As” commands

## Rev 2.3 (02/25/07)

# 1. Add “no timer message” under computer control mode

# 2. Add 10 Sec and 20 Sec timing windows under computer control

Add contact time over-ride command. To over ride contact time; place cursor at the desired position then press “F8” key.

## Rev 2.4 (3/14/07)

Print CT channel graph.

**Rev 2.5 (06/28/07)**

1. Allow CT-8000 PC program to play back old CT-7000 shots

2. Allow over-ride O-C & C-O timing results.

3. Reset Color for main menu

**Rev 2.6 (07/20/07)**

1. Program will sometimes hangs when print graphic to pdf.

**Rev 2.7 (08/12/07)**

1. Test plan will not attach to test record under computer control mode.

2. Can not transfer the first test plan to CT-8000 using the USB port bug. This bug is specifically on the USB port!

**Rev 2.8 (09/24/07)**

1. Allow user to load test-plan with or without header information.

2. Fix bug on test-plan limits. The program will flag “F” when the data equals the limits.

3. Display resistor choices under “Toggle Resistor Flag”

**Rev 2.9 (10/19/07)**

1. Display “Awaiting Trigger” message for external trigger on the PC screen.

2. Increase the delay for external trigger from 15 seconds to 30 seconds.

**Rev 2.10 (11/01/07)**

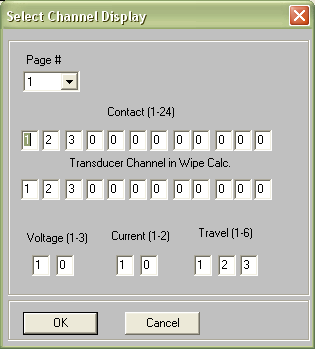
1. Display stroke and velocity for both shots under overlay mode.

2. Correct wipe over-ride reading problem

**Rev 2.11 (12/17/07)**

1. Allow wipe calculation based on travel transducer selection.

2. User now can select transducer used in calculation in “Channel Display Menu”.



New in Rev 2.11

**Rev 2.12 (01/06/08)**

1. Found bug in “Contact + Distance” for AP2.under metric mode.

**Rev 2.13 (04/19/08)**

1. When retrieve test records from timer, the file name shall be “s/n Date Shot number”.

Ex: 70005-041808-shot001.

**Rev 2.14 (05/16/08)**

1. Fix manual contact velocity calculation to work with formula.

**Rev 2.15 (06/20/08)**

1. Remove manual setting for insertion resistor value from 20-200 Ohm.

**Rev 2.21 (07/01/10)**

1. Put border around numerical display in graphic mode **Rev 2.16 (10/4/08)**

1.If a CT-7000 shot was recalled and closed. The user then retrieved a CT-7xxx S2 or CT-8000. The shot will stamp as a CT-7000 record. The timing results are calculated at 10 Khz. Timing data is twice as long.

2. Correct Export to EXCEL problem.

**Rev 2.17 (12/16/08)**

1. Program crashed when try to print a test plan.

2. Create c:/vanguard/VCBA-S2 directory

3.Executable file is VCBA-S2.exe

**Rev 2.18 (03/12/09)**

1. When retrieve test records to PC. The fil name use timer’s s/n, date, & time in the actual file name. The release rev 2.13 use the first date for all the file name.

**Rev 2.19 (03/31/10)**

1. Correct bug in 20 second shots. Program did not display contact time.

**Rev 2.20 (06/23/10)**

1. Correct bug in overlay shots with 10Khz and 20 Khz sampling rate.

**Rev 2.22 (11/17/10)**

1. Found bug in Slow-Close report

2. Found bug in Static Resistance report

3. Add print tabulated and graphic command

**Rev 2.23 (04/07/11)**

1. Add Degree as unit for stroke and velocity calculation

**Rev 2.24 (06/05/11)**

1. Correct CT channel timing problems on the OPEN

2. Correct Slow-Close tabulated report on PC printout

**Rev 2.25 (09/29/11)**

1. Found bug on Manual velocity calculation (Bill Hanlon)

**Rev 3.0 (05/15/12)**

1. Re-design Graphic report

2. Display Timing results on graphic report

3. Re-design the contact color selection menu

4. Allow user to select color or B&W on graphic printout

5. Add new analysis points for new ABB breaker (Distance +/- time)

6. Allow export test report to PDF, EXEL, XML format

Note: To expand graph, hold left mouse key, drag mouse then release.

**Rev 3.1 (06/4/12)**

1. Add printer selection menu for print graphic report

**Rev 3.2 (06/20/12)**

1. Correct long file name problem on graphic display

**Rev 3.3 (07/20/12)**

1. Found Bug in Resend command with DIGITMR S2

2. Change messages CT-8000 to VCBA-S2

3. Found bug in Contact bounce time in O-C-O. There should be no bounce time in dual or triple operation

**Rev 3.4 (07/28/12)**

1. Finalize Excel, PDF export file format

2. Allow user to select CT channel color

**Rev 4.0 (07/28/12)**

1. Redesign all menus and graphic for VCBA-S2

2. First release on 07/28/2012

3. For best results, we recommend a 1920 x 1080 resolution screen

**Rev 4.1 (08/31/12)**

1. Correct manual stroke under “Manual Over-ride”

2. Add manual velocity calculation

3. Select default color if “Default Test Plan” is not available

5. Correct logo issues on direct printout

6. Interface to Digitmr S2

**Rev 4.2 (09/20/12)**

1. Allow test plan to be transfer to Digitmr S2 via USB thumb drive.

2. Found bug on CT-8000 Static resistance test command

**Rev 4.3 (10/10/12)**

1. Change setting on the CT channel for online close test

2. Update cursor time display after graphic expansion. The 4.2 rev require the user to move cursor to see new cursor time

**Rev 4.4 (11/28/12)**

1. Allow users to merge shots

2. Allow users to dump shot data

3. Allow users to convert Doble new test plans to VIC test plans

**Rev 4.5 (01/03/13)**

1. Correct re-send command problems

**Rev 4.6 (04/06/13)**

1. Match the contact time calculation with the stand alone timer

2. Add “Pass/Fail” turn on/off feature

**Rev 4.7 (05/30/13)**

1. Correct CT graph for the Open & Close.

**Rev 4.8 (09/12/13)**

1. Found bug in “Use Test Plan”. Program used default test plan instead

2. If the shot has the same color (trace and back ground), program will change color

**Rev 4.9 (09/28/13)**

1. Add V3 to the program. The V2 & V3 time display is also shown on the tabulated report.

**Rev 4.10 (10/15/13)**

1. Add COM port message for CT-7000/8000 S3 to “Setting Menu”

**Rev 4.11 (12/23/2013)**

1. Allow user to “Click” on sub-folder, the program will display shots.

2. Correct On-Line timing on PC program

**Rev 4.12 (01/13/2014)**

1. Found bug on O-C-O shots retrieved from USB drive.

**Rev 4.13 (03/6/2014)**

1. Allow read CT-8000 S3 thumb drive shots

2. No comments on test report!

3. Correct P/F on O-C-O

**Rev 4.14 (03/27/2014)**

1. A bug was introduced when we change from Rev 4.11 to 4.12 under external trigger.

**Rev 4.15 (03/28/2014)**

1. Correct velocity reading using cursor

**Rev 4.16 (04/07/2014)**

1. Correct CT-8000-S3 pdf printout. AP1 & AP2 were out of alignment.

**Rev 4.17 (04/21/2014)**

1. Allow P/F on O-C and C-O

**Rev 4.18 (08/22/2014)**

1. If user recall test record from several folders and each folder contains more than 50 files, the program will freeze up.

**Rev 4.19 (08/29/2014)**

1. Allow users to export test plans to thumb drive with folders (for CT-7000 S3, CT-8000-S3, Digitmr S2)

**Rev 4.20 (10/27/2014)**

1. Apply “Pass/Fail” selection in test plan to test report. If user recall a test plan to be use in a test, the “P/F” flag will be applied accordingly.

2. Increase the graphical resolution of the current plot.

3. Found bug on exporting test plan to thumb drive when using the same test plan to export the second time.

4. When export test plan to thumb drive, allow user to select the test plan number or increment test plan number automatically.

**Rev 4.21 (12/01/2014)**

1.Correct PC program will not graph initiate current waveform from records in thumb drive issue.

**Rev 4.22 (12/11/2014)**

1.Correct Over-Lay graphic issues.

2. Allow user to change graphic front size to accommodate high resolution screen.

**Rev 4.23 (01/06/2015)**

1.Correct Delta time overlapping with next field on graph

2. Auto-Detect on COM port

**Rev 4.24 (04/19/2015)**

1.Allow overlay shots from thumb drive shots

2. Make Auto-Detect lock to timers only

3. Test plan will allow 2 digits after decimal point on test parameters

**Rev 4.25 (07/14/2015)**

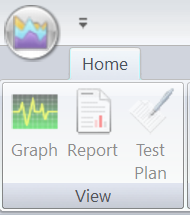
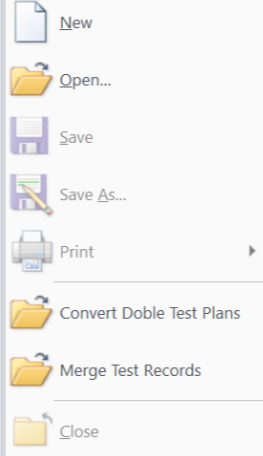
1.PASS/FAILDelta time on OPEN/CLOSE shots is always on

**Rev 4.26 (08/29/2015)**

1.Make Auto-Detect to save COM port setting. The first time executing the program, it will use this COM port to speed up connection.

**Rev 4.27 (11/02/2015)**

1.Revise “Merge Test Records” command from the “Home” button

2. To merge the 2 records, use mouse to select 1st record then “Control” and left mouse switch to select second record. The program will create a new record with the “Merge” prefix name.

3. The contact channels 1-12 will be populated with contact date (channel 1-12) of the 1st test record. Contact channels 13-24 will be populated with contact data (1-12) of the 2nd test record.

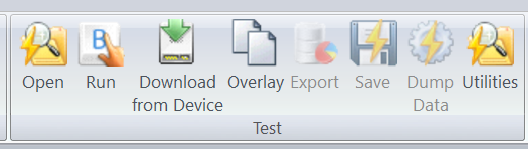
Transducer channel 1-3 will be populated with transducer data (channel 1-3) of 1st test record. Transducer channel 4-6 will be populated with the transducer date (Channel 1-3) of the 2nd test record.

**Rev 4.28 (11/10/2015)**

1.Remove “OK” button in the “Download” menu.

**Rev 4.29 (03/18/2016)**

1.Add “Utilities” command to the Test Menu.



2. Correct “Overlay” print issues.

**Rev 4.30 (04/07/2016)**

1.Allow overlay On-line shots

2. Dynamic resistance wave form was not displayed in Rev 4.29. Corrected in 4.30.

**Rev 4.31 (08/07/2016)**

1.Allow user to select trace thickness.

2. Allow all alphabet to be exported to PDF

3. Change font style on the “Open” menu

**Rev 4.32 (09/08/2016)**

1.Software will not communicate with CT-7500 S2 on RS-232C port.

2. Rev 4.32 corrected this problem

**Rev 4.33 (11/27/2016)**

1.When pointing cursor to 0 ms on graph, the software display a bad data point.

2. Resize “Setting” menu to fit the screen. Screen size change when we change the font size on this menu.