

This firmware upgrade applies to Touch Pro Serial Numbers 55-3000 and on. Verify this by looking at your current firmware version: go to “About” and verify that “Firmware” starts with 2.xx

### **Upgrading firmware –**

From the Radcal.com website click on Support. Under Downloads click on Accu-Gold Software. On the Accu-Gold Software page and under Accu-Gold Touch Pro Firmware, choose the second link [Accu-Gold Touch Pro V2.66.0](#).

Have a flash drive available and plugged into your computer. Navigate to your Downloads directory and double-click on the zip file **Touch2.xxiImageX(Update).zip**. It will open in Windows File Explorer. Select all of the files including the folders, choose copy, then open up the folder for your flash drive. Choose paste. (Note: it must be FAT32 format, not NTFS)

### **The Touch**

Have the charger plugged into the Touch while doing the upgrade.

Plug the USB flash drive into the Touch. Power the unit on and it will start the update process. The process may take a few minutes. When done it will say:

*“Successfully updated firmware!*

*Please remove USB drive and restart device!*

Turn the power off and remove the flash drive before powering the unit on again,

Go to *Start Display/settings/About* to verify the current firmware version.

If you have any questions, please do not hesitate to call (626)357-7921 x 123 for Customer Support or email at [Cust\\_Sup@Radcal.com](mailto:Cust_Sup@Radcal.com).

Thank you,  
Radcal

## Changes

V2.66.0	Fix: Long firmware boot-up time when many measurements saved Fix: mA probe not recognized properly on T2 Fix: Data Loss errors with other noisy signals on T2 Fixed "Data Loss" errors for fast pulsed IC measurements by updating AgHost to version 2.01.3037	13-Oct-23
V2.63.1	Changed:ESP will only be activated and powered when the Wifi mode is activated	13-Mar-23
v2.63.0	Migrate firmware to IMX7 module, migrate ESP wifi driver, include SD-card fix from Toradex Display overlay when activating WiFi mode. Prevent accidental installation on T1/T3 devices. Read wifi configuration from disk. Turn off display backlight after 10s in wifi mode Fixed a bug that loopthru mode. Hide raw data recording button. Power down device after period of inactivity in wifi mode	27-Feb-23
V1.62.0	Fixed kV Free Run bug Updated AgHost to version 2.01.2947 (new DLL does not affect UI) Prevent End results display in Free Run Mode	11-Feb-22
V1.60.0	Added AgHost DLL version in the About screen Updated AgHost DLL to version 2.01.2634 Added Siemens Mammomat, Pan-Dental and General CT calibrations Low Dose and kV/Filtration out of range warnings are displayed during measurement Added support for 512MB modules (displayed on About screen) The maximum measurement duration on 512MB modules was set to 300 seconds The touch areas of most buttons have been enlarged for better response Displayed calibrations are filtered depending on the connected sensor Implemented End measurements Added PPV result for selection Added On-Screen Keyboard	1-Jun-21
V1.52.0	Updated AgHost to version D201-2485 Added Siemens W/Ti Mammomat Revolution calibration	13-Nov-20
V1.51.1	The trigger settings have been adjusted so that only for AGMS and DD in level high the zeroing is suppressed Updated maximum measurement duration to 2.4 days Revert changes of Light sensor trigger settings due to unwanted behavior Updated trigger setting accordingly Added Titanium calibration	16-Oct-20
V1.45.1	Fixed reading of serial numbers	5-Aug-20
V1.45.0	Add error messages when export produces error. Export session files into separate folders Export the last 10,000 saved measurements to USB Added DLP result (3CT chamber only) Added Pulse Rate Display reasons for no wave Highlight exposure trigger points Display waveform as a preview wave	23-Jun-20
V1.39	Update AgHost to version 2317 Redesigned results of custom pages Added Raw Data Recording to About Screen Changed icon of delete button Removed second IC result page Added 10X6-60DAP and DAPChk support Removed button to restore profile configuration Added color to the profile buttons Redesigned buttons to switch between the profiles Introduced Auto Profiles which are changing depending on sensors Updated trigger settings for light sensor Enabled Rapid Mode for measurements on Trigger Level High and Standard Bug fixes	18-May-20
V1.24.1	[KC-18] - Improved measurement thruput time. [KC-20] - Added 'Min' delay (typically 0.2 sec) instead of 1s or 3s [AGT-1269] - Added additional keystrokes from the external keyboard to manipulate what is showing on the screen [KC-12] - Changed display update rate to every 2 seconds [AGT-1231] - Added single measurement delete capability Minor bug fixes	7-Jun-19
V1.19	[KC-10] - Fix: Wave mode off on Klondike shows glitch [AGT-1232] - Page through measurements in measurement info dialog [AGT-1225] - Unlock keyboard commands of Touch firmware via unlock code [AGT-1250] - Include comment when exporting measurement to USB [KC-7] - Fix: When filtration is too high kV & HVL need to be suppressed	2-Apr-19

[KC-8] - Allow wave mode to be set for any ion chamber  
 [AGT-1244] - Fix: Comments can't handle commas  
 [AGT-1226] - Show indicator on measurement info button for added comment  
 [AGT-1227] - Save comment into measurement file  
 [AGT-1228] - Load comments from saved measurements  
 [AGT-1237] - Copy actual calibrations with update and priming script  
 [AGT-1220] - Add comment section to measurement info dialog  
 [AGT-1221] - Make measurement info dialog button bigger and update icon  
 [AGT-1223] - Prevent OS specific keyboard commands (i.e. WIN-Key)  
 [AGT-1224] - Disable keyboard commands of Touch firmware  
 [AGT-1230] - Show hint in comment section if no comment entered  
 [AGT-1235] - Fix: Trigger settings for low level are not loaded correctly  
 [KC-5] - Update AgHost to version D201-1837  
 [AGT-1193] - Fix "Data loss" error when trying to start the measurement a second time (for latest agHost code)  
 [AGT-1117] - Install new Straton Tube correction with update  
 [AGT-1120] - Prevent cross over installs with update script  
 [AGT-1151] - Update AgHost to version D201-1751  
 [AGT-1170] - Fix: Typo in matrix reset dialog  
 [AGT-1067] - Include sensor serials in measurement info screen  
 [AGT-1068] - Measurement info screen: IC shows a dash - shouldn't be there  
 [AGT-1168] - Result Picker: Show confirmation dialog when restoring results screen  
 [AGT-1172] - Revert export sort order: FIFO order  
 [AGT-1174] - Clear All Measurements: Ask "Are you sure?"  
 [AGT-1175] - Measurement Info Screen: Should show sensor names as capital "MS - IC - DD - mA" now "Ms - Ic - Dd - mA"  
 [AGT-1179] - Open result picker dialog to first page always  
 [AGT-1146] - Result Picker: Restore All to Default  
 [AGT-1148] - Add more result types and their formatters  
 [AGT-1165] - Polish sensor legend  
 [AGT-1141] - Result Picker: Open to page with selected result  
 [AGT-1117] - Install new Straton Tube correction with update  
 [AGT-1128] - Dynamic sensor legend for each page  
 [AGT-1129] - Set gripper color depending on result sensor type  
 [AGT-1130] - Empty result fields are shown empty with gray gripper  
 [AGT-1133] - Upon starting, load the result profile configuration from the sd-card  
 [AGT-1134] - Display the profile configuration  
 [AGT-1136] - When a result token is unknown, then treat the definition as "empty"  
 [AGT-1137] - Upon tapping on a result value area open the "result picker" window  
 [AGT-1139] - Result Picker: Show first 18 possible results

V1.12	Added ability to change the result that is being displayed and restore default if necessary Save last viewed measurement matrix page and load it after restart Include sensor serials in measurement info screen Measurement info screen: IC shows a dash - shouldn't be there Revert export sort order: FIFO order Clear All Measurements: Ask "Are you sure?"	7-Dec-18
V1.10	<ul style="list-style-type: none"> <li>Fixed bug which sometimes prevents settings to open</li> <li>Fixed scaling and unit label of filtration depending on selected calibration</li> <li>Match IC and DD pulse count handling to AGX</li> <li>Added logging to identify cases in which no dose is reported</li> <li>Updated AgHost to version D201-1724</li> <li>Fixed graphical issues in calibrations settings page</li> <li>Suppress "Data Loss" when block timeout happens on first block</li> </ul>	10-Nov-18
V1.9	<ul style="list-style-type: none"> <li>Export all measurements in one session file (300 max)</li> <li>Report valid kV result, even if filtration is out of range</li> <li>Trigger AGMS Mammo Low at 0.5</li> <li>Disable export button when no measurements are available</li> <li>Set end of exposure delay via settings menu</li> <li>Bug fixes</li> </ul>	16-Aug-18
V1.7	<ul style="list-style-type: none"> <li>Adds Light Sensor support</li> <li>Bug Fixes</li> </ul>	19-Jun-18
V1.6	<ul style="list-style-type: none"> <li>Update trigger thresholds</li> <li>Show dose when in dose only mode</li> <li>Use trigger level in physical units for AGMS trigger level low (80 nGy/s)</li> <li>Allow firmware update for battery level &gt;= 25%</li> <li>Remove "Add Demo Measurements" from System Settings</li> <li>Use avg kV instead of biased average kV</li> <li>IC dose/pulse is shown as 0.0 nGy when given 3 pulses - should be n.A.</li> <li>Exposures with 3 or less pulses are displayed as 0 pulses</li> <li>AGMS+ low threshold didn't take effect</li> <li>Wave mode can't be switched off</li> <li>Allow firmware update whenever charger is connected</li> </ul>	15-May-18

- Ensure wave scaling of mGy/s and As
- Update trigger thresholds for IC
- Set default end delay setting to 3s
- Change AGMS low trigger threshold from 80 nGy/s to 150 nGy/s
- Bug Fixes

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V1.5	<ul style="list-style-type: none"><li>· Show measurement timestamp in info screen</li><li>· Fixes for issues found in intermediate releases</li><li>· Enable wave mode by default</li></ul>	26-Apr-18
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