## Accu-Gold Touch Pro READ ME----- V2.67.1

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 <u>Accu-Gold</u> <u>Touch Pro V2.67.1</u>.

Have a flash drive available and plugged into your computer. Navigate to your Downloads directory and double-click on the zip file **Touch2.xxImagex(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 <u>Cust\_Sup@Radcal.com</u>.

Thank you, Radcal

	Changes	
2.67.1		20-Feb-25
-	Fix: Firmware sometimes not loading (desktop displayed)	
	Update calibrations	
	Display correct hardware generation and revision	
	Updated Basic firmware to use T2 hardware	
2.66.0	Fix: Long firmware boot-up time when many measurements saved	13-Oct-23
	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	
2.63.1	Changed: ESP will only be activated and powered when the Wifi mode is activated	13-Mar-23
2.63.0	Migrate firmware to IMX7 module, migrate ESP wifi driver, include SD-card fix from Toradex	27-Feb-23
	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	
1.62.0	Fixed kV Free Run bug	11-Feb-22
	Updated AgHost to version 2.01.2947	
	(new DLL does not affect UI)	
	Prevent End results display in Free Run Mode	
1.60.0	Added AgHost DLL version in the About screen	1-Jun-21
	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	
1.52.0	Updated AgHost to version D201-2485	13-Nov-20
	Added Siemens W/Ti Mammomat Revolution calibration	
1.51.1	The trigger settings have been adjusted so that only for AGMS and DD in level high the zeroing is suppressed	16-Oct-20
	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	
1.45.1	Fixed reading of serial numbers	5-Aug-20
	Add error messages when export produces error.	23-Jun-20
	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	
1 39	Highlight exposure trigger points Display waveform as a preview wave	18-May-20
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1 10	IKC 101 - Eix: Wayo mode off on Klandika shows ditch	2-Apr-19
V1.19	[KC-10] - Fix: Wave mode off on Klondike shows glitch	2-Api-13
	[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	
	[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-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	
12	Added ability to change the result that is being displayed and restore default if necessary	7-Dec-18
12		7 Dec 10
	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?"	
V1.10	Fixed bug which sometimes prevents settings to open	10-Nov-18
	Fixed scaling and unit label of filtration depending on selected calibration	
	• Match IC and DD pulse count handling to AGX	
	Added logging to identify cases in which no dose is reported	
	Updated AgHost to version D201-1724  Final graphical issues in calibrations contributions	
	Fixed graphical issues in calibrations settings page	
	Suppress "Data Loss" when block timeout happens on first block	46 4 10
.9	Export all measurements in one session file (300 max)	16-Aug-18
	Report valid kV result, even if filtration is out of range	
	Trigger AGMS Mammo Low at 0.5	
	Disable export button when no measurements are available	
	Set end of exposure delay via settings menu	
	· Bug fixes	
		19-Jun-18
7	Adds Light Sensor support	15 Juli 10
7	Due Due	
	· Bug Fixes	15 14 40
L.7 L.6	· Update trigger thresholds	15-May-18
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	<ul> <li>Update trigger thresholds</li> <li>Show dose when in dose only mode</li> </ul>	15-May-18
	<ul> <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> </ul>	15-May-18

		IC dose/pulse is shown as 0.0 nGy when given 3 pulses - should be n.A.	
	•	Exposures with 3 or less pulses are displayed as 0 pulses	
	•	AGMS+ low threshold didn't take effect	
		Wave mode can't be switched off	
	•	Allow firmware update whenever charger is connected	
	•	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	
V1.5	•	Show measurement timestamp in info screen	26-Apr-18
	•	Fixes for issues found in intermediate releases	
		Enable wave mode by default	