

DITUS MC PrimeSense Depth Sensor

Body Scanner

Quick Start Manual

Version 1.1

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Introduction

This manual describes how to scan with the Depth Sensor Scanner and how to register/calibrate the DITUS MC Body Scanner sensors with ANTHROSCAN software.

The ANTHROSCAN software can be downloaded at Human Solutions' website. <http://anthroscan.human-solutions.com>

Installation process is described in the Scanner and Software Setup Manual.

After installation of ANTHROSCAN an icon has been created on the desktop.

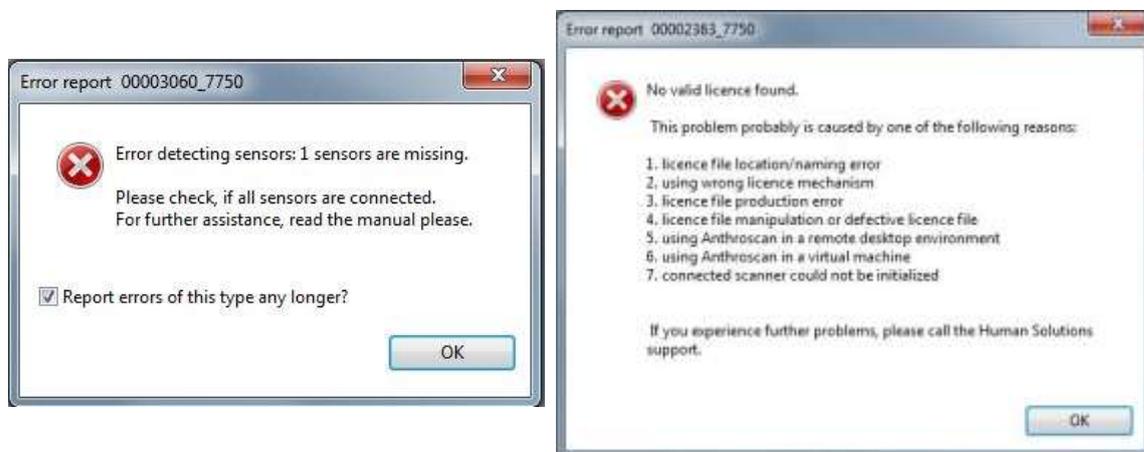
Precaution

Like other electronic devices the sensor cameras work best in warmed state. To support this, open the "Remote Control / PrimeSense - Scan Wizard". After doing this, the sensors are in operation and will be warmed up. For best results remain in this state for approx. 30 minutes before carrying out registration and scans.

Starting ANTHROSCAN

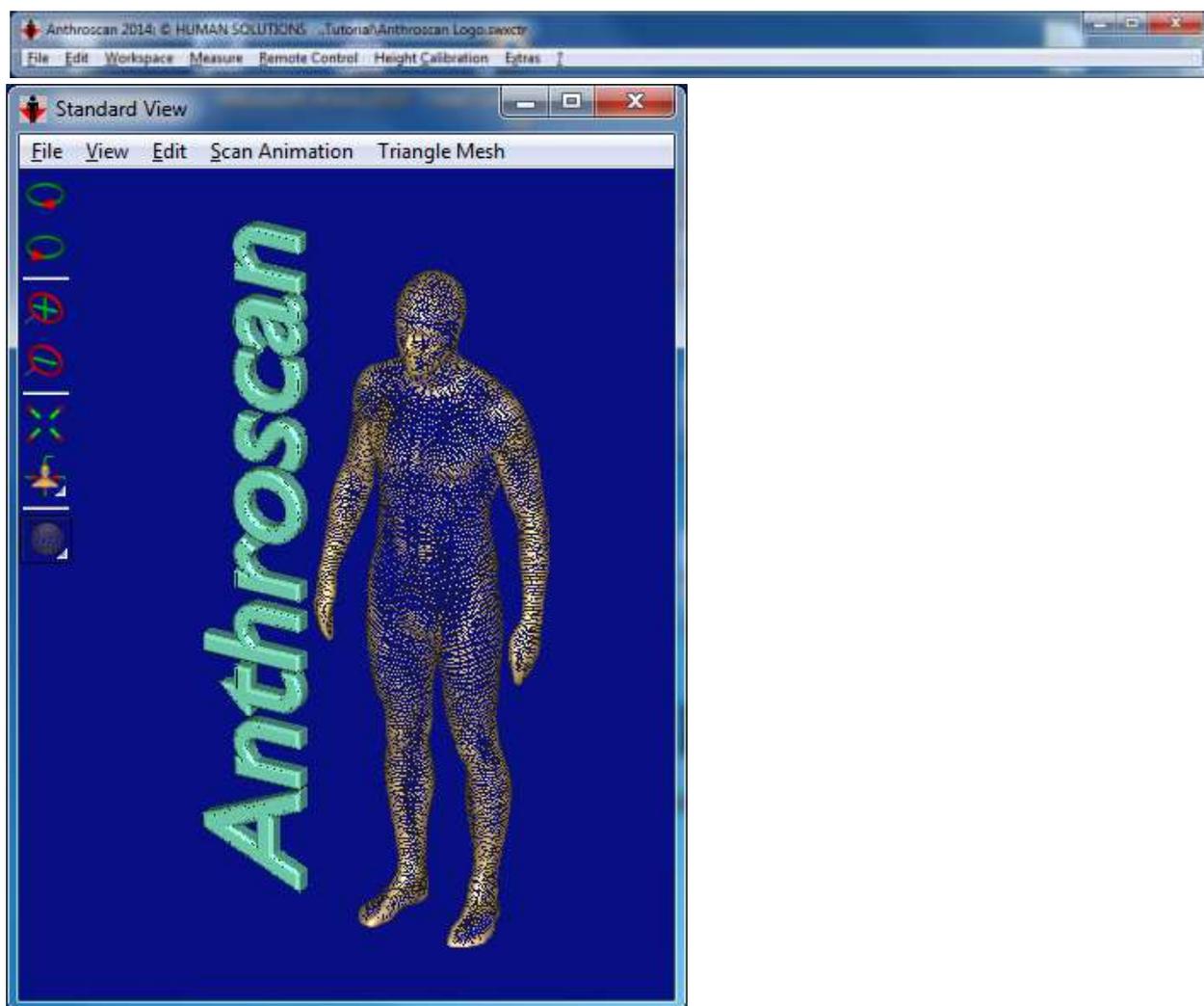


To start ANTHROSCAN please double-click on the icon. The software is now searching for the 12 sensors. If the sensors are not connected yet or one or more of the sensors seems to be not recognized properly, a message window will inform you accordingly.



In that case, please follow the procedure outlined in the Scanner and Software Setup Manual.

If the sensors are detected properly, ANTHROSCAN will start up with Main Menu and Standard View window.



During ANTHROSCAN's first start up a warning reminds user to register the sensors for the first time.



System warmup

For best results the sensors need an amount of time to reach steady state of operation. To achieve this, select „PrimeSense – Scan Wizard“ under „Remote Control“ in the Main Menu. All sensors are now in active operation and warmup procedure is in progress. Let the scanner work in this state for approx.. 60 minutes. Then continue with any operation. Let then Scan Wizard active while scanning and registration to keep the warming state.

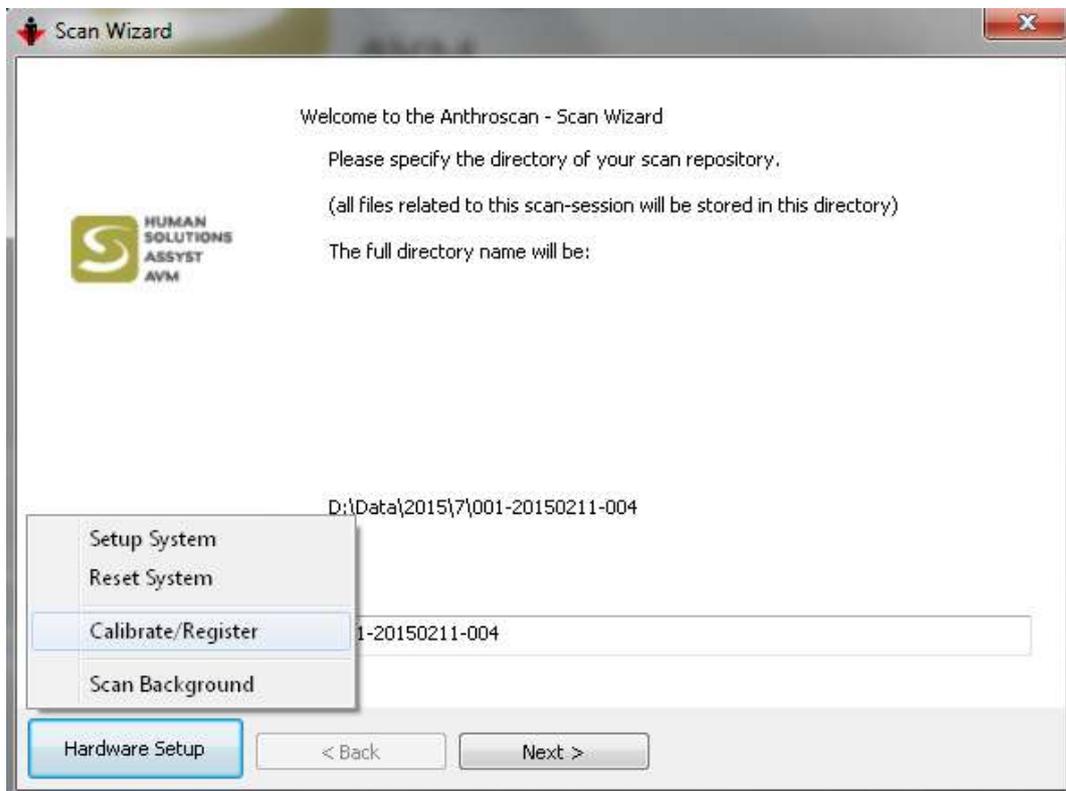
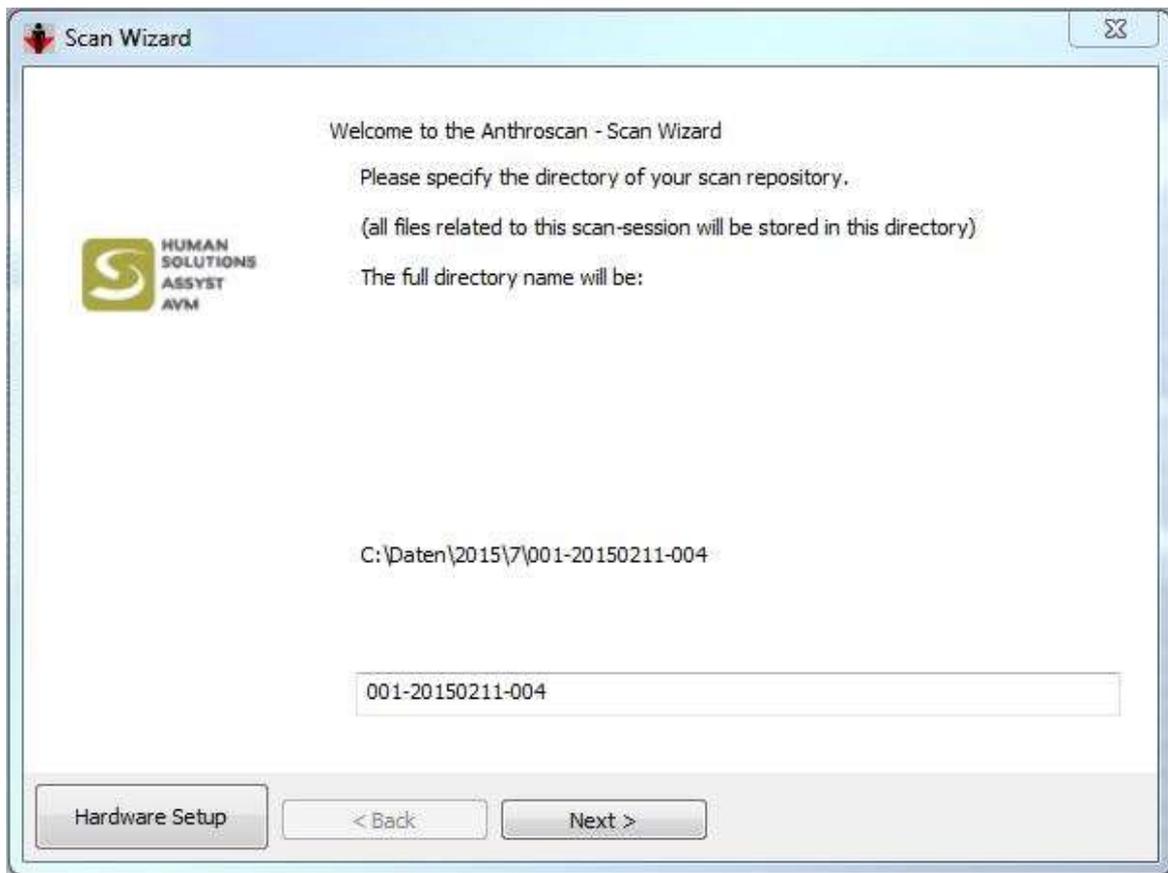


Register / Calibrate the scanner

Register/Calibrate procedure will be started as follows:



Select „PrimeSense – Scan Wizard“ under „Remote Control“ in the Main Menu. The “Scan Wizard” opens up.

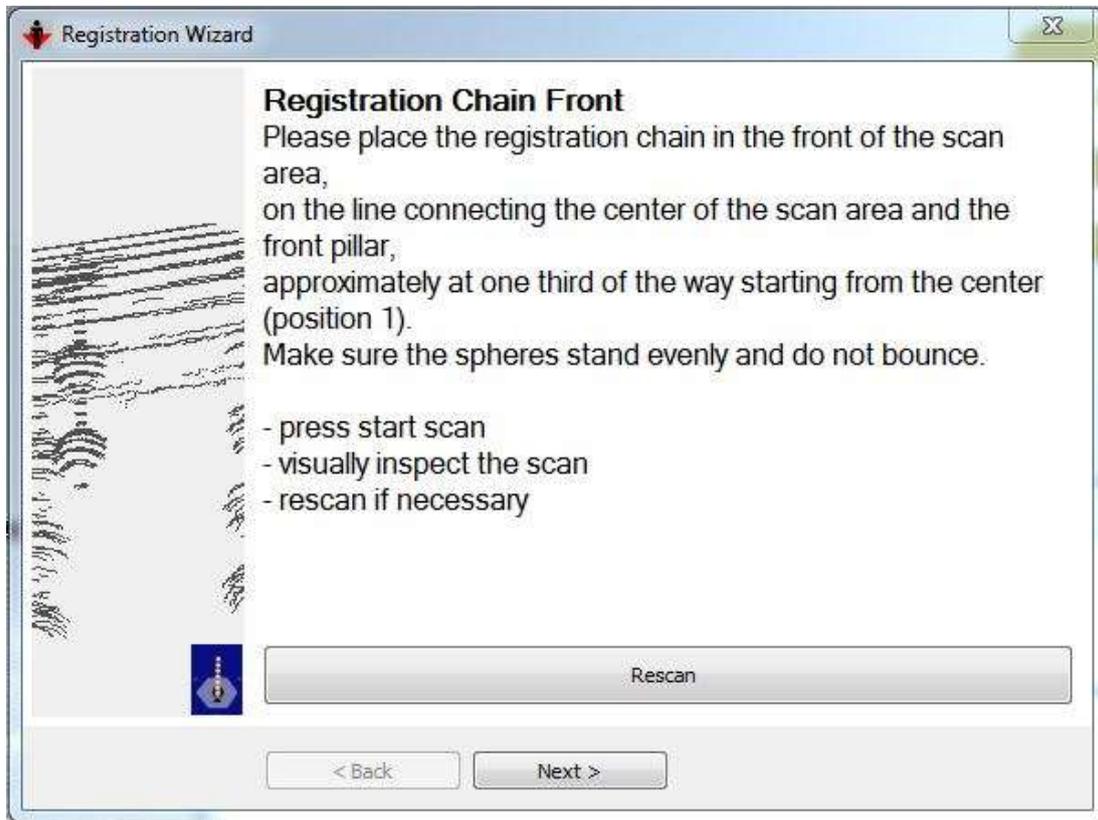


Please select „Hardware Setup“ and then „Calibrate/Register“. The “Calibration Wizard” starts immediately.

The calibration requires scanning of the calibration chain on three different positions within the scan area. The “Calibration Wizard” guides the user through the necessary steps.

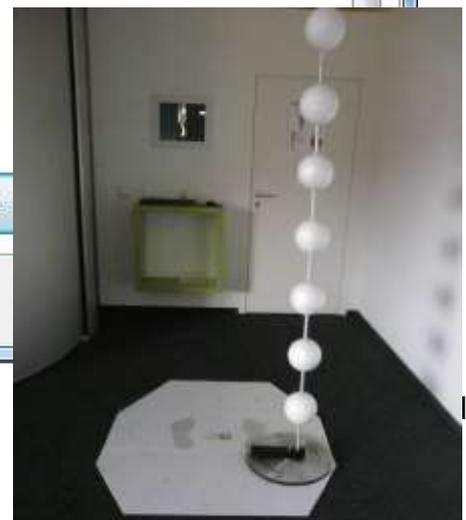
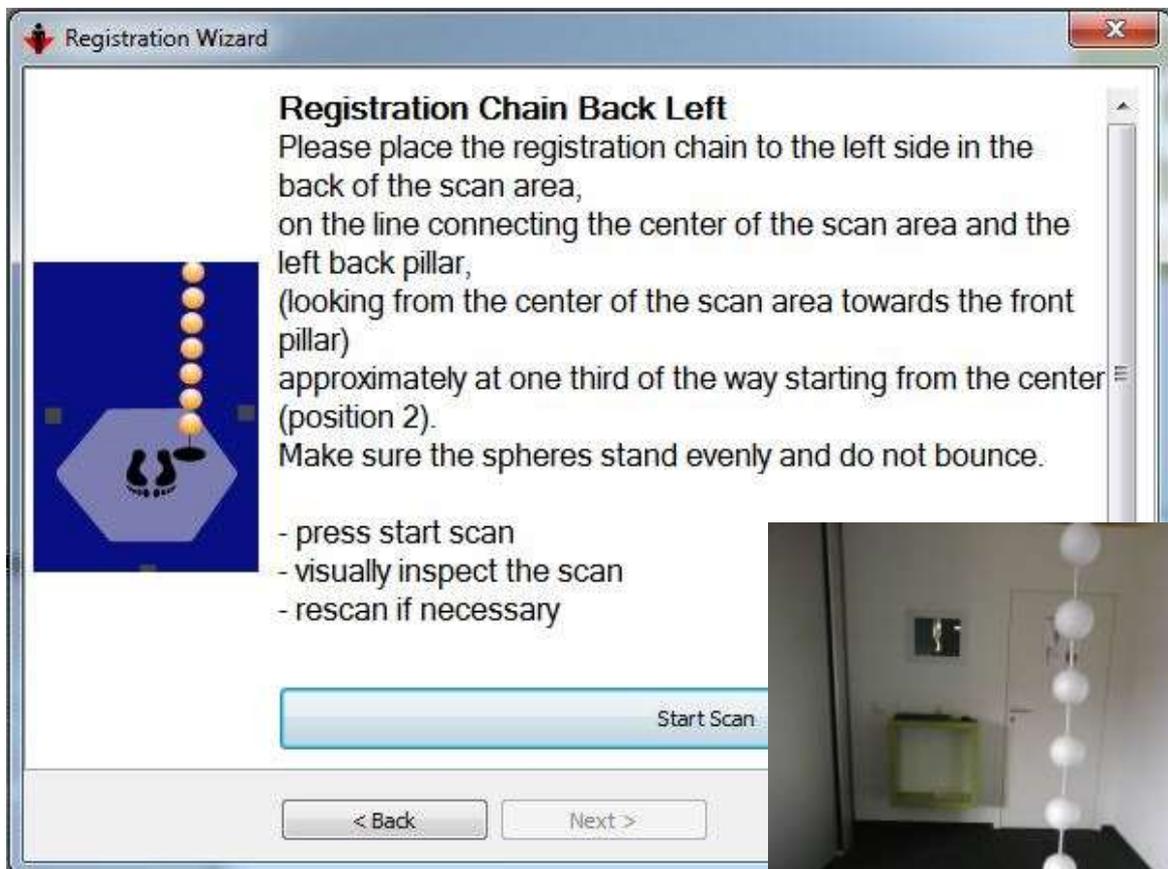


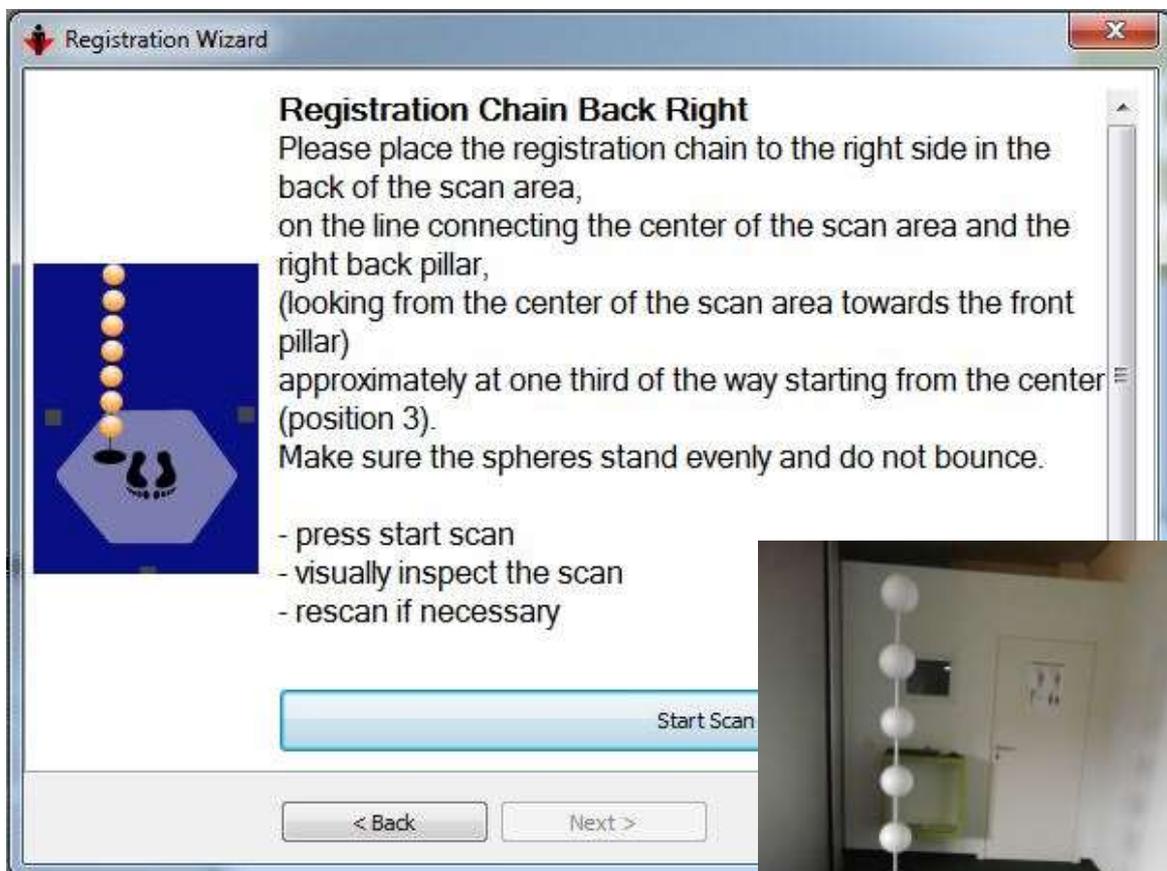
In the first step the calibration chain needs to be placed into the front position of the scan area. The button “Start Scan” starts the data acquisition.

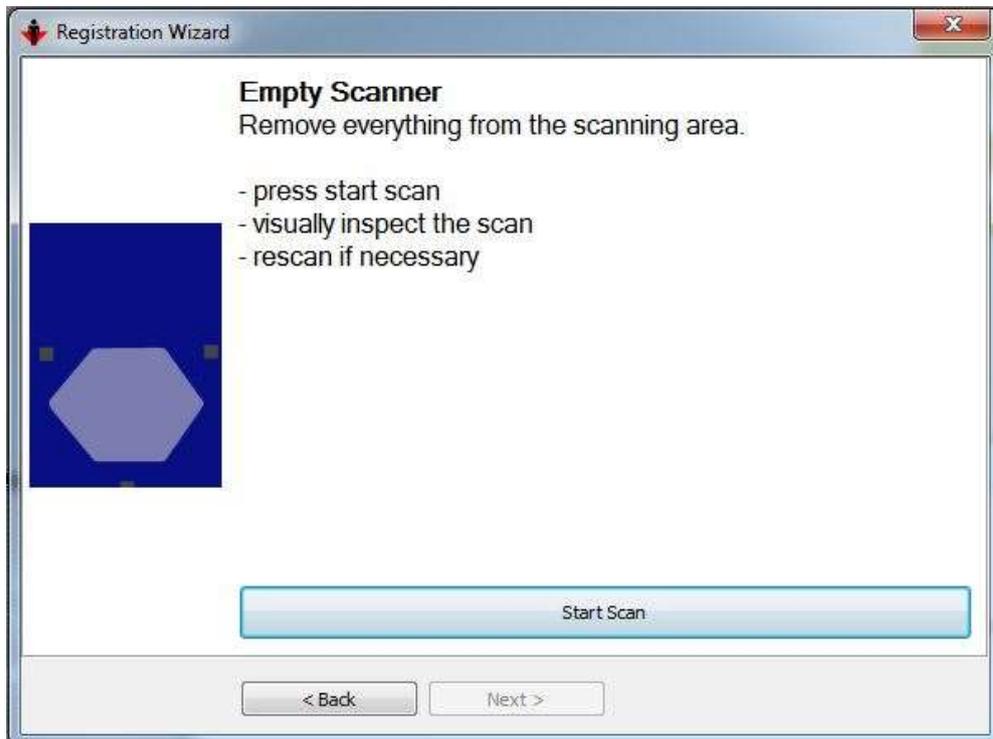
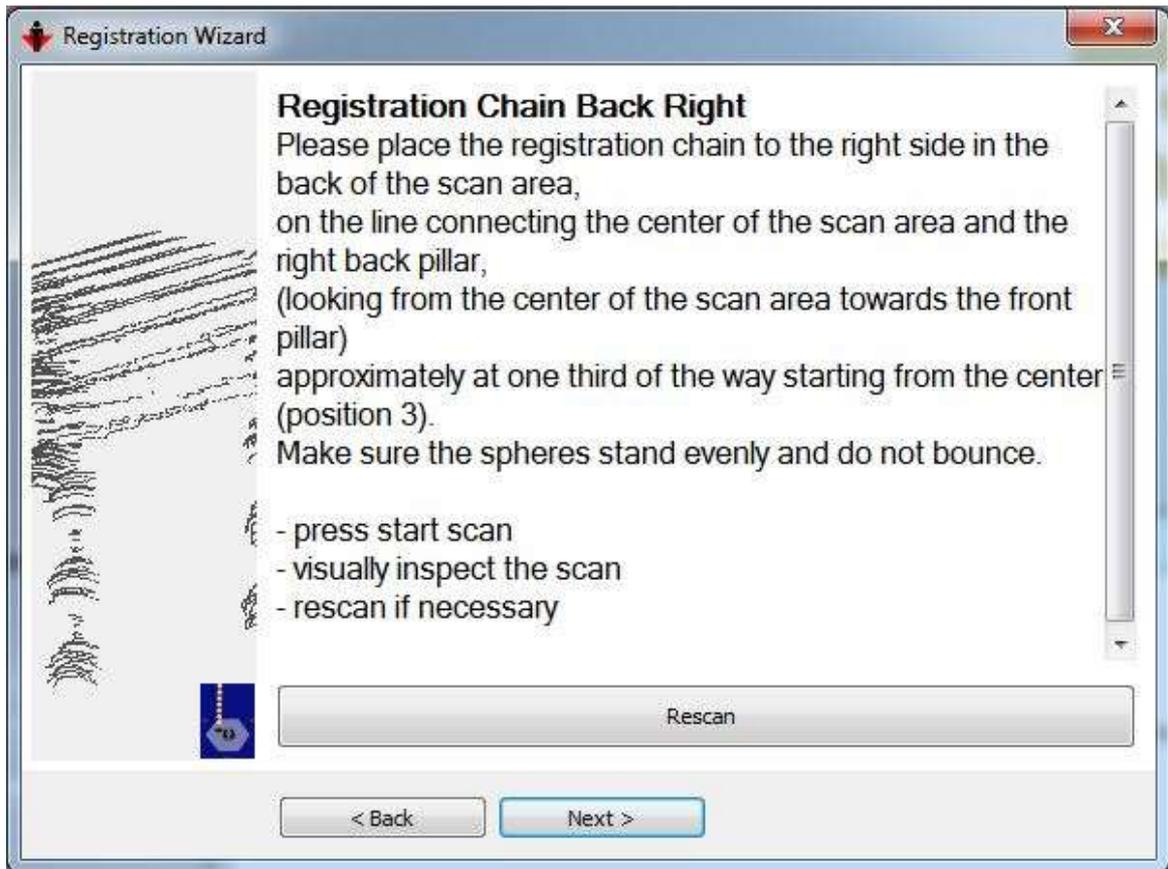


Proceed to the next step with „Next“

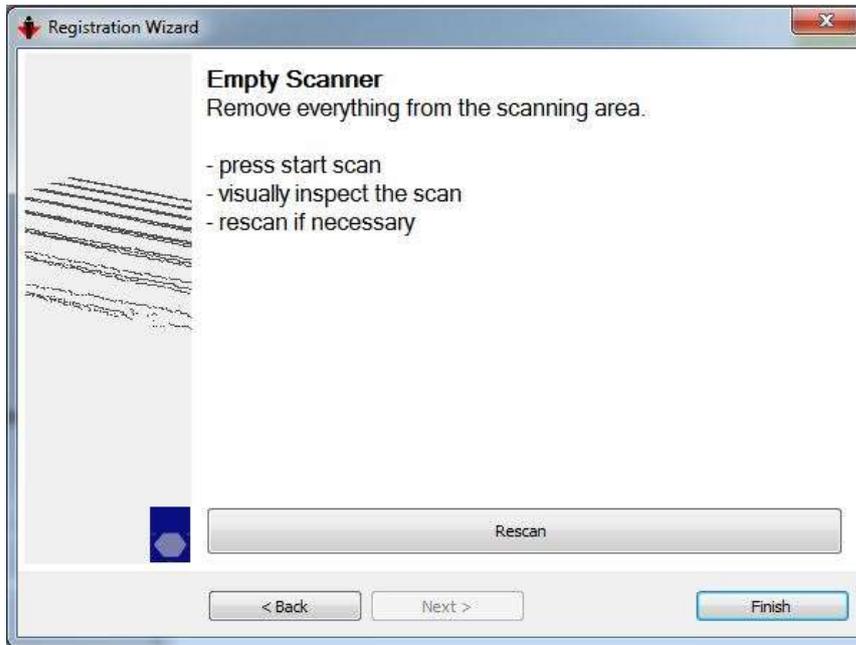
Please follow the instructions for the left and right position.







As a final step the calibration chain needs to be removed and the empty scan area will be scanned.

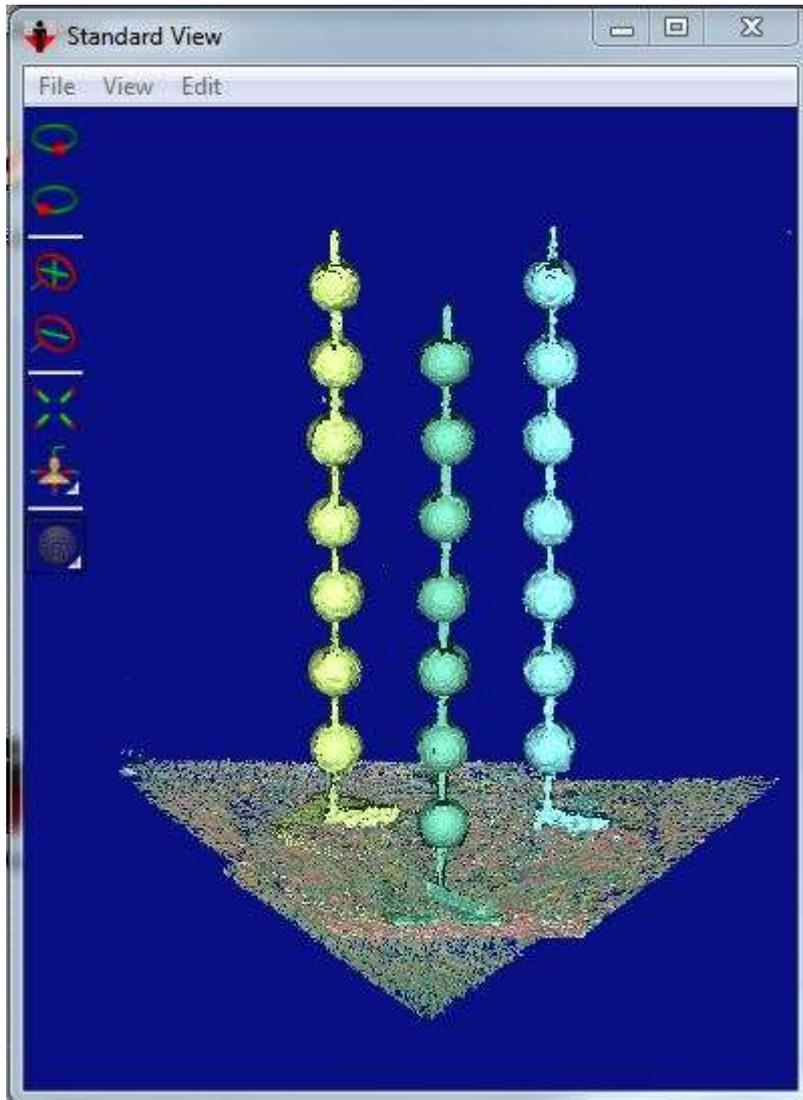


Registration / Calibration process will be concluded by clicking on „Finish“ .
A message window informs about the result.



The calibration procedure needs to be performed, every time the scanner has been moved from its original position.

After the calibration process has been finished successfully, the result is shown in the Standard View window as follows.



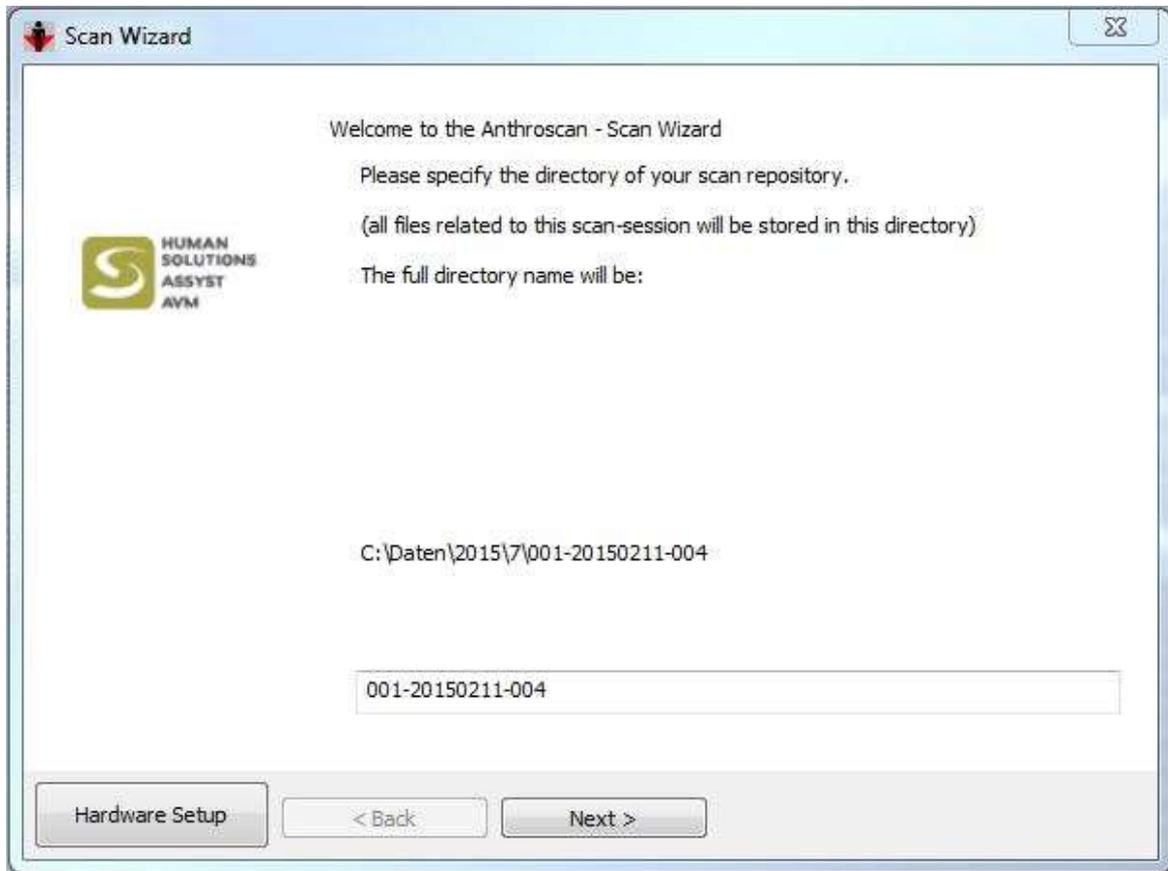
The scanner is now ready for body scans.

Body Scanning Process



To start the Scan Wizard select „Remote Control“ – „PrimeSense - Scan Wizard“.

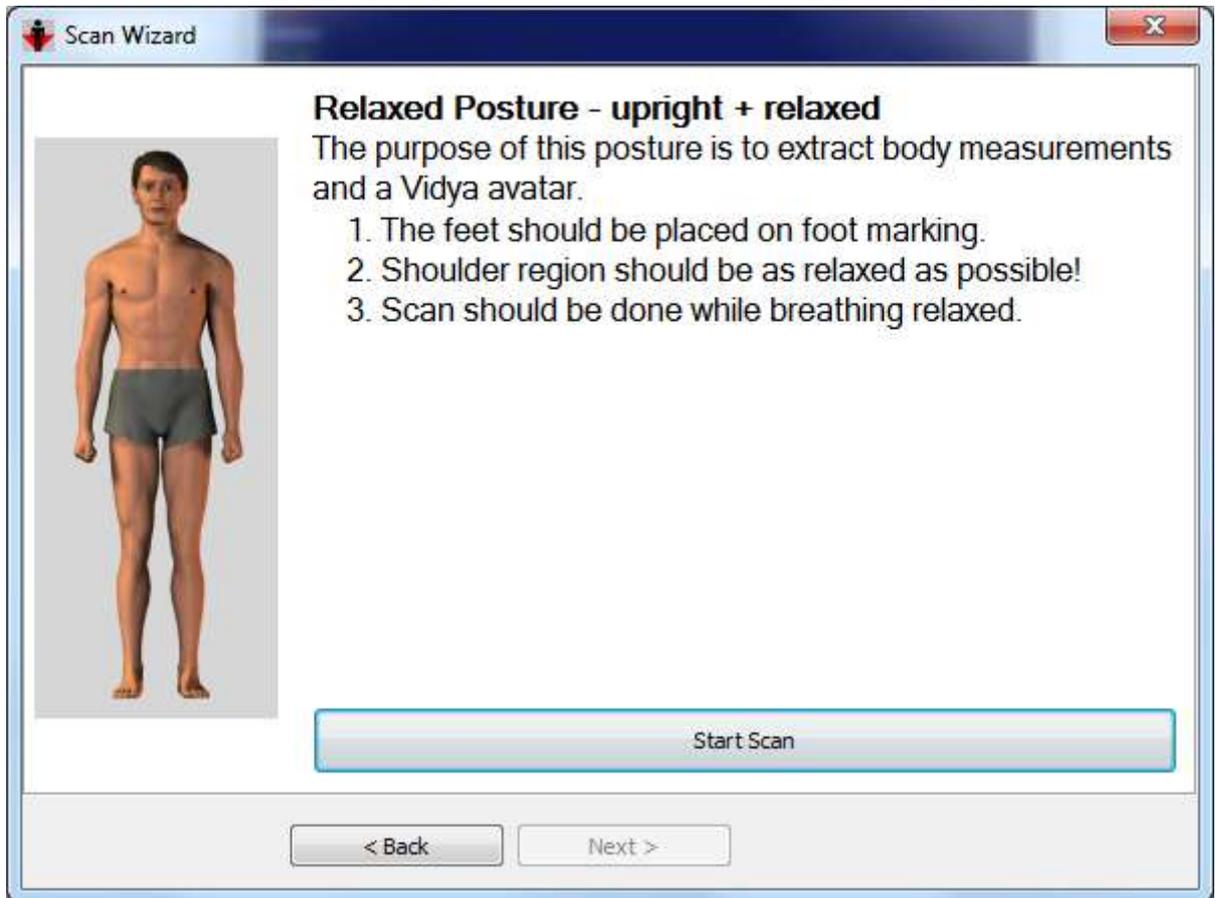
Please enter the folder name for the scan to be made.
This can be customer name, Subject ID etc.



By default the saving path is defined as
C:\Software\Human Solutions\Scanner\PrimeSense\Data\YEAR\WEEK].
??To change this path, ANTHROSCAN needs to be started in “Service Mode”??

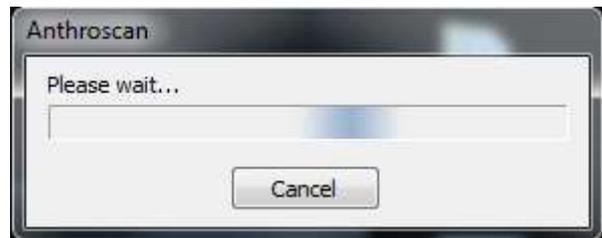
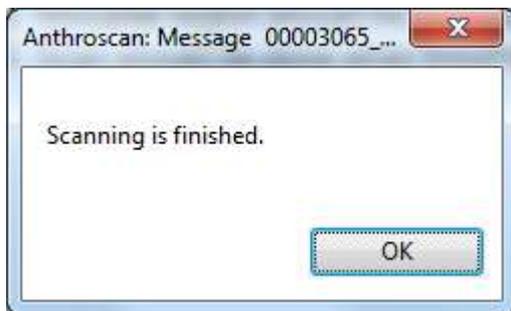


The person enters the scan area and follows the instructions given by the operator based on the “Scan Wizard” briefing.

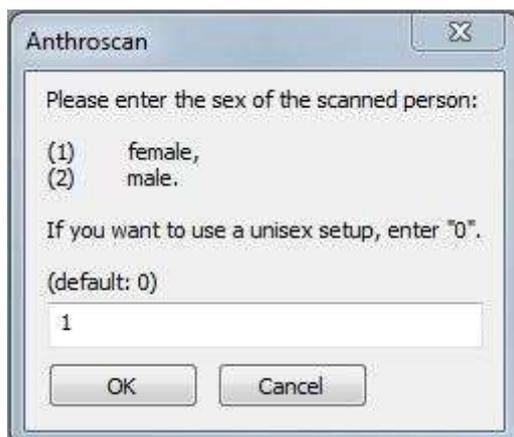


To start the scan, click on “Start Scan” ..

The scan process is finished after a few seconds,



and is followed by choosing the kind of avatar to be created (0= unisex, 1= female, 2=male)



then the automatic scanatar generation starts and takes approximately 30-40 seconds. Please be patient, even if Windows is displaying ANTHROSCAN is “not responding”.

After the avatar has been created and displayed on the screen, the scan can be measured and further processed. This procedure is commonly used for all scanner types and described in ANTHROSCAN manual. The manual can be opened by pressing <F1>.

