Quick Reference, Vismach 3D Digitizing System, 2010.02.03

This Quick Reference organizes various aspects of the 3D Digitizing System into a condensed cue list. The end user is still advised to go over the complete User Guide, Tutorial, and related documentations. Otherwise, this Quick Reference won't make much sense.

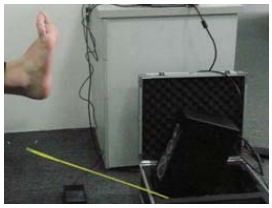
Software Installation

This include camera drivers, application software, license file, and key file installations.
Windows XP, Vista, and Win7, 32 bit operating system only. Camera drivers are not compatible with 64bit OS.
The user can simply GUI interface by View->Tool bar, you can turn off all toolbar except the Navigation Toolbar.
The Navigation Tool Bar contains the most frequently used functions, as shown below.

Hardware Setup

Connect the USB cable to the computer, the power adaptor to an outlet, and turn on the power switch.
Working range is 350mm (14 inch) to 530mm (21 inch). Please use a tape measure to control range.
To capture more of the heel, the digitizer is tilted slightly backward in relation to the plantar surface.
Foam impression is captured straight on. The user can build a simple enclosure to maintain the working range and consistent lighting conditions. This can be a simple structure with black cloth around to shield outside lights.

Stationary Setup
Standard Tripod
5Kg Capacity



Mobile Setup
Optional Carrying Case as Support

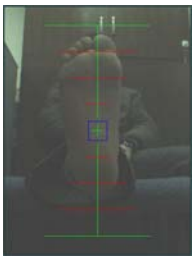
Foam

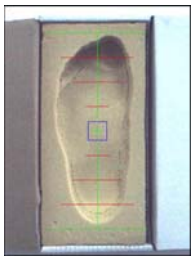
Working Conditions

Dim, not bright, just below reading level. Close the drapes on a sunny day.
Not pitch black, or you can't see the foot in the preview window.

Capture

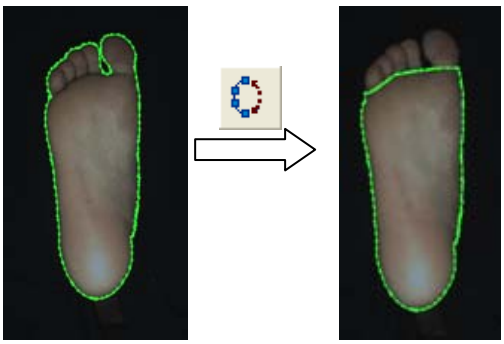
Open application software,
Click "Open Preview" to preview objects. 
Light Sensing Square should be blue and at the center of the object.
If Light Sensing Square is red, ambient lighting is too strong. Make it darker.
Click "Capture" to acquire images.  Or press the optional foot switch.

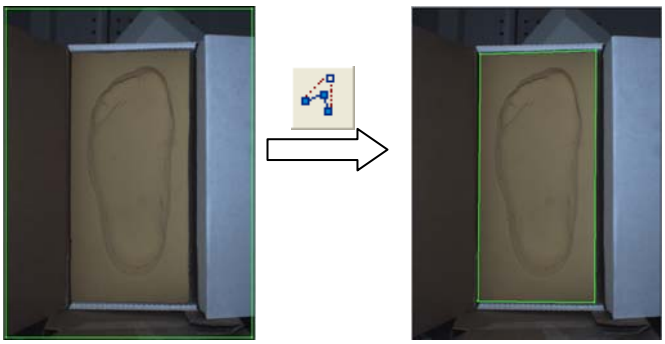




Outline Extraction

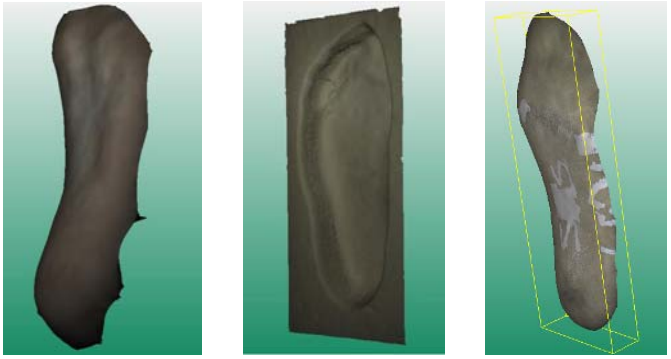
For foot plantar surface, under Settings->Processing Settings, turn "Automatic Outline Extraction" to "True".
For foam impressions, under Settings->Processing Settings, turn "Automatic Outline Extraction" to "False".
After capture, use outline manual correction tool  to refine outline.





3D Reconstruction

Click "Object 3D Reconstruction" 
3D results are shown on the right.
Save or export to desire 3D file formats.



Maintenance and Care

Precision 3D optical measurement device.
Avoid shock, vibration, and moisture
Transport with adequate cushioning.
Original optional carrying case is recommended