Accutome, Inc.

4Sight
Service Manual

P/Ns : 24-8000

Summary Description

The 4sight device is designed to combine the functionalities of Accutome's A-scan Plus (K123349), B-scan Plus (K070943) and Accupach Pachymeter (K042752) devices into a combined, stand-alone platform.

The device performs axial length measurements, corneal thickness measurements and images the internal structure of the eye using these 3 modalities.

The 4Sight is a stand-alone system which runs on a Windows 8 platform consisting of a 4Sight control unit, transducers, footswitch, and keyboard
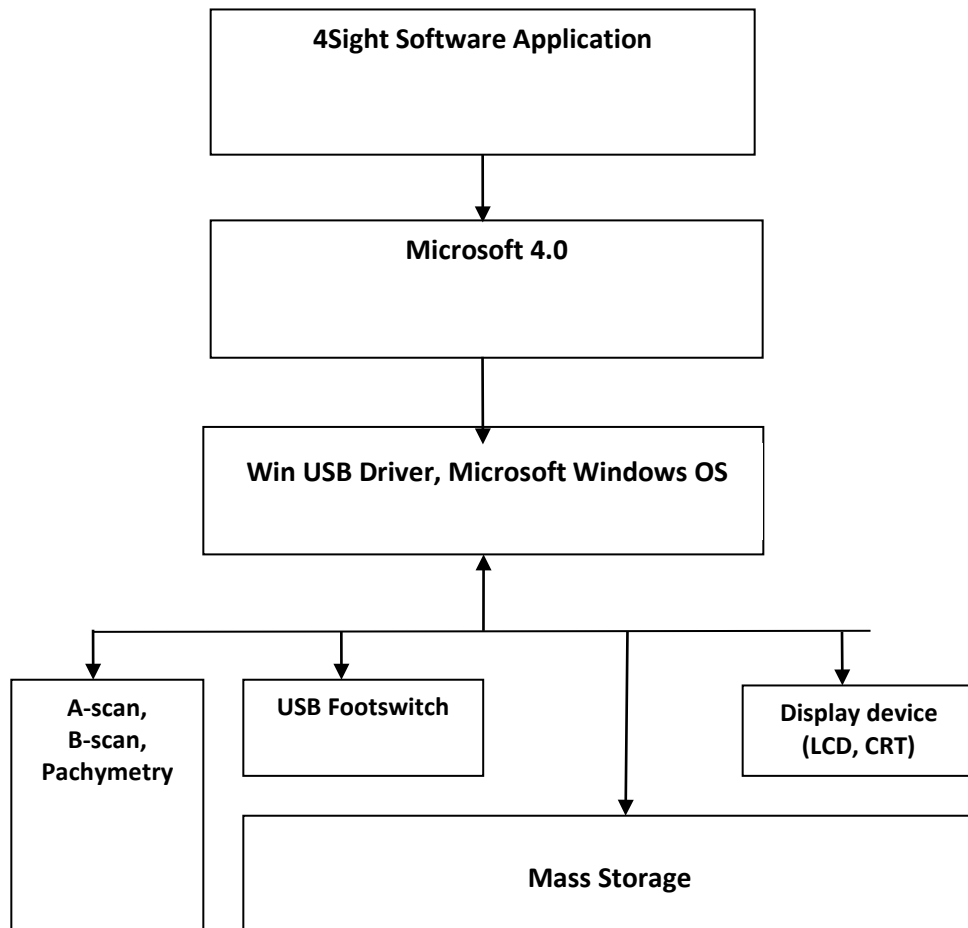

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Software Context

4Sight Application Software System Context

The following system architecture diagram shows the architecture in the context of the 4Sight system. The interaction between the complete 4Sight system and the larger environment is beyond the scope of this section. The 4Sight application is written in Microsoft C# .NET version 4.0. The WinUSB® device driver is used to connect USB based devices, such as the B-Scan device, with the Windows OS.

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│      4Sight Software Application     │
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┌─────────────────────────────────────┐
│           Microsoft 4.0             │
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┌─────────────────────────────────────┐
│  Win USB Driver, Microsoft Windows OS│
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- A-scan, B-scan, Pachymetry
- USB Footswitch
- Mass Storage
- Display device (LCD, CRT)

Troubleshooting Guide

Below are things to check for various Accutome 4Sight problems. If these suggestions
do not cure the problem, return the unit to Accutome, Inc for repair. Alteration, repair or
modification of any product that is performed by persons not authorized by Accutome,
Inc., will result in immediate loss of warranty.

Troubleshooting
Troubleshooting Guide

Message	Cause
Error loading configuration file	File may be corrupted. Contact Accutome for assistance.
"Can't find the right type of probe for this exam"	Make sure you are using the correct probe for the modality selected. Re-check USB connection. Contact Accutome if problem persists.
Error deleting snapshots	Make sure snapshot files are not in use by another program or open. Close if open and re-try.
Entered value out of range/ invalid	Re-check values being entered to make sure they are correct.
Failed to initialize DICOM	There may be an issue with the DICOM connection. Re-try connecting the device to the server. If problem persists contact Accutome support.
Could not locate the folder which contains….	Wrong file path may be specified in setup or folder may have moved. Check to make sure folder is in the right location and make sure file path is correct.
Failed to print to specified printer	There may be an issue with the printer connection. Re-try connecting printer to the control unit. Contact Accutome if problem persists.

Service and Repair

Before returning instruments for service or repair, contact the Accutome Technical service Group for a Return Authorization (RA) number.

>   Toll Free (in USA): 1-800-979-2020
>   Tech Service: 1-610-889-0200
>   Fax: 1-610-889-3233

After receiving authorization, print the RA number on the outside of the package and send the instrument to:

>   Technical Service Group
>   Accutome, Inc.
>   3222 Phoenixville Pike
>   Malvern, PA 19355

Replacement Parts

The table below lists user replaceable items that are available from Accutome, Inc. Please be sure to use the Accutome part number for the item when placing an order.

4Sight Replacement Parts

Description	Accutome Part No.
Standard Parts	
Control Unit	24-8000
4Sight A-scan Probe	24-8000A
4Sight B-scan Probe	24-8000B
4Sight Pachymeter Probe	24-8000P
Footswitch	8000-0260
User Manual	24-8016
Keyboard	8000-0270
Mouse 6100-0020	6100-0020