avamech

User Manual

For Daisy Application

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1. INTRODUCTION

1.1 Daisy – Overview

Daisy is an application specially designed for B1000-M to interface with a Windows PC. It processes height and weight readings received from the B1000-M machine, records the information into a Microsoft Excel workbook which allows the information to be retrieved for reports generation.

1.2 System Requirements

Windows XP/Vista/7 (x86)
Microsoft .Net Framework 3.5 or later
Non-virtual Serial Port (and necessary drivers)

1.3 System Variants

Depending on the version of the windows, .Net Framework, visual settings etc, procedures and graphics presented in this manual may varies in different computer systems. The general concept of this user manual provides sufficient validity to the application.

2. SETUP

2.1 Initiating Setup

Explore the CD and click on the icon with the name setup or setup.exe.

Figure 1 Setup Icon

Affected by the security settings of the system, installation is required to be done in full administrative mode. This may not only imply logging on as a system administrator. User may need to right-click on setup or setup.exe icon and select "Run as administrator" to perform the installation.

Setup will begin by displaying a welcome window on the screen.

Figure 2 Daisy Setup Welcome Screen

Click Next to continue with the setup.

2.2 Installation Folder

Figure 3 Determine where to install Daisy

By default, the installation folder is pointed to C:\Program Files\avamech\Daisy. Since the Daisy program will record the measurement into the Microsoft Excel workbook, the Daisy application must have full read and write access to the installed folder. For newer windows operating system such as Windows Vista or Windows 7, applications are usually refrained from modifying files in the Program Files folder. Hence it is advisable to install Daisy to the Desktop or Document Folder where the application has full read and write access. This can be done by clicking on Browse and select the designated folder to install Daisy. User may also choose to install Daisy for local account only, or for all accounts accessing to the computer.

After the user made the choices, click Next to continue.

Figure 4 Confirm before installation

Click Next to continue.

2.3 Completing Setup

Figure 5 Installation in proress

Wait for Daisy to be installed into the system. Depending on the speed of the computer, this process may take a few minutes.

Figure 6 Installation completed

When installation is completed, click Close to end the installation program. User may verify the installation by browsing into the installation folder. If installation is successful, two objects are created in the installed folder.

Figure 7 Installed objects

The icon with a Daisy flower is the executable and the Excel file is the Microsoft Excel workbook which will contain all the measurements.

Warning! Do not meddle with the content in the Templates folder as it contains all the necessary templates required for report generation.

3. EXECUTION

3.1 Activate Daisy

Double-click on the Daisy icon which can be found in the Start Menu under the program group Daisy (B1000-M) to run the application.

Figure 8 Daisy application

Depending on the version and security settings of the Windows operating system, Daisy may be required to "Run as administrator" in order to function properly. Upon activated, the following screen would be displayed.

Figure 9 User interface of Daisy application

Daisy is designed to be a highly user-friendly application. User may move the mouse over any object in the Daisy windows and a tip on the functionality would be displayed.

Figure 10 A tip showing that B1000-M is not connected

If this is the first time Daisy is executed, some configurations need to be done in order for the application to function properly.

3.2 Configuration

Click on the Configuration tab to configure Daisy.

Figure 11 Configuring Daisy

The field Organisation is for the user to key in the name of the Organisation using the B1000-M machine. This piece of information would be used while generating the

report. User can change this information at any point of time, but do not leave this field empty.

The field COM Port denotes the COM Port where the B1000-M machine is connected to. Before clicking on Auto Scan, please make sure the B1000-M machine is power-on and the machine is connected securely to the computer. The Auto Scan function will attempt to find the port number where the B1000-M machine is connected to. A successful search will return a prompt to the screen and the COM Port field would be updated accordingly.

Figure 12 System returned the port number

Please Save the new setting before measurement.

Depending on the security setting of the system, detecting and retrieving the correct COM Port number may fail under certain circumstances. Consult the system administrator if necessary.

The field BMI Standard denotes the kind of BMI standard used for measurement and report generation. If user is not sure of the standard used in the organisation, accept the default value.

Figure 13 Enter the correct configuration

After information is entered into the respective fields, click Save for the configuration to take effect.

If the configuration is correctly entered, Daisy will automatically switch to the Measurement tab and a connected icon will be displayed.

Figure 14 Daisy is ready to receive measurement

3.3 Measuring

Once the B1000-M machine is connected, Daisy is ready to take in and record readings. After the B1000-M machine is used, information will be sent to Daisy and it will be displayed on the application.

Figure 15 Height and weight readings display on screen

3.4 Hiding the User Interface

Daisy does understand that a computer is most of time serving more than the purpose of listening to a height weight measuring machine. Daisy comes with a Hide function which when activated, will minimise the user interface into the system tray. Click on Hide to trigger the function.

Figure 16 Daisy can be minimised to the system tray

To restore the user interface, right click on the Daisy icon in the system tray and click on Restore.

4. DATABASE

4.1Database Structure

Daisy is using a Microsoft Excel workbook as the database storage. This workbook can be found under the application folder, with the file name Full.xls. User may open the file to view the content. Manual modification to the file content needs to be extra careful as it may cause error to the Daisy application.

ID	Height	Weight	BMI	Status	Range	Target	Date	Time
D0000007A	1.56	71.5	29.36	Overweight	45 - 60.8	-10.7	01/02/2012	12:23:28 PM

Figure 17 Data would be captured into Full.xls

Warning! Do not change the name of the worksheets, the cell formats and the header rows. Do not add or delete column from the worksheets. If modification is inevitable, create a backup copy before edition.

4.2 Personal Information

Daisy provides database storage for personal particulars. This is done by having a second worksheet in the Full.xls Excel file. Open up Full.xls and click on the tab named Personal Particulars.

Figure 18 Worksheet to store personal particulars

Since Daisy is capable of generating reports in department level, there exists a field in Personal Particulars to allow Department to be entered. Information entered is not case sensitive but is strictly restricted by how a word is spelt. For example, "Sales" and "Sale" will put two persons into two different departments whereas "it" and "IT" will put two persons into the same department.

Entering information into the Personal Particulars is not compulsory in order to record measurement, but is necessary if reports are to be generated.

5. REPORTS

5.1Type of Reports

Daisy provides 3 types of reports to be generated: Individual Report to see weight progress and status of individuals, Departmental Report to see a statistics report of weight status within a department and Full Report to see a statistic report on the weight status within the entire organization.

Report generation does not require the B1000-M machine to be connected, but it requires personal particulars to be filled into the database.

Figure 19 Types of reports Daisy can generate

5.2 Individual Report

An Individual Report is a report which shows the weight progress of an individual with past height weight records. In order to generate this report, user will need to have the ID number of the individual on hand.

To start, click on Individual Report.

Figure 20 Prompt for the ID number

Enter the ID number of the individual whose report needs to be generated. The ID number entered is not case sensitive.

Click OK to continue. Depending on the system performance of the computer and amount of data to be processed, generating an individual report can take up to a few minutes. Please wait patiently for the report to be generated.

Once the generation is completed, a message box will pop out showing the name of the report.

Figure 21 A message box showing the file name of the report

User may go to the respective location to open up the report for viewing.

5.3 Departmental Report

A Departmental Report shows the statistics and the weight status of the entire department. Each department will be generated into one separated report.

At the Report Tab, click on Departmental Report to begin and Daisy will prompt for a department name. The department name entered though not case sensitive must exists in the Personal Particulars of Full.xls.

Figure 22 Enter the department name into the prompt box

Click OK to continue. Depending on the system performance of the computer and amount of data to be processed, generating a departmental report can take up to a few minutes. Please wait patiently for the report to be generated.

Once the generation is completed, a message box will pop out showing the name of the report.

Figure 23 A message box showing the file name of the report

User may go to the respective location to open up the report for viewing.

5.4 Full Report

A Full Report shows the statistics and the weight status of the entire organisation. To generate a Full Report, click on Full Report at the Report Tab.

Figure 24 A progress bar will appear on Daisy

Depending on the system performance of the computer and amount of data to be processed, generating a Full Report can take as long as an hour. Please wait patiently for the report to be generated.

Figure 25 A message box showing the file name of the report

6. TROUBLESHOOTING

6.1Setup Failed

Most of the time problems during installation are caused by absence of pre-requisite software such as the right version of .NET Framework. If setup failed, check that the .NET Framework installed is compatible to version 3.5, close all opened application and retry again. Some times, performing a clean reboot may solve the problem.

6.2 Machine Failed to Connect

Nowadays, most home used terminals do not come with serial port. The only solution to this is to use a USB-to-Serial dongle which converts a USB port to serial. This requires a third party driver to be installed into the computer for the dongle to function properly. Due to the different versions of windows operating system, some of these drivers may appear to be working properly in the system, but the communication can be unstable. This can be verified by using a port logger software or terminal program and creating a loop-back on the serial port.

Standard RS-232 protocol recommends communication within 50 feet. Using a USB port, the maximum length is shortened to 2m. Subjected to interference, the total length of the communication cable should be kept as short as possible.

6.3 Data Failed to Log

Daisy requires to be installed into a location where Daisy has read/write permission. Whenever a measurement is done, data need to be recorded into the database residing in the installation folder. If Daisy is not able to log any measurement, check the permission on the installation folder.

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