

Afi2GO™

Hand held computer application for *AfiFarm* dairy herd management system

User Manual



for use in smartphones, Pocket PC and PDAs
operating under a *Windows Mobile*® operating system



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- Any use of the smartphone, pocket PC, or PDA (into which Afi2GO is installed) other than the use described in this manual, is the user's responsibility.

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Afi2GO Active (freq. 80/200 kHz) ass'y

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

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- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

DISCLAIMER

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment under 47 CFR 2.1093 paragraph (d)(2), for use in a PDA. End users must follow the specific operating instructions for satisfying RF exposure compliance.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Some equipment in hospitals and aircraft are not shielded from radio frequency energy. Do not use the device onboard aircraft, or in hospitals, without first obtaining permission.

REVISION HISTORY

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2.0	March 2010	David Williamson	Instructions on how to install Afi2GO on a Psion PDA with Windows Mobile OS	Yigal Edrey, Ravid
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Chapter 1

Product Overview

Afi2GO™ is an afimilk® program installed on a smartphone, pocket PC or PDA (hand-held computer), as a field extension of AfiFarm™ and AfiShepherd™. Throughout this manual, the term PDA refers to all three of these devices. You prepare for an Afi2GO session in AfiFarm or AfiShepherd, and then transfer the relevant data and settings to Afi2GO. Afi2GO supports the following areas:

- Animal and herd events
- Veterinary issues
- Fertility events
- Animal characteristics

The most efficient and accurate way of using Afi2GO is when your animals are marked by passive or active RFID tags: You point the PDA's antenna at the tag, press a button, and view a concise summary of what field actions are required for that animal. (You can also manually enter the animal ID.)

As you implement the day's plan, you tap the information into Afi2GO, taking advantage of the many intuitive shortcuts supported for entering the data.

When the field session is over, you transfer the changed data back into AfiFarm or AfiShepherd.



NOTES: For support of Afi2GO, make sure that your version of AfiFarm/AfiShepherd is 3.07 or later.

In this document, AfiShepherd refers to either AfiSheep or AfiGoat.

Afi2GO can be used in most devices that operate under a Windows Mobile operating system. Clarify with S.A.E. Afikim as to which devices may be used. S.A.E. Afikim recommends using a specially built Psion TEKLOGIX® *Workabout Pro G2 7527*® PDA.

The interface in this manual is from a Workabout Pro device. If using a different device, the interface may vary slightly.



NOTE:

Before charging or using the battery pack, read instructions in the Workabout Pro Hand-Held Computer With Windows Mobile User Manual , Psion part number 8100144.

Batteries must be fully charged before use.

The backup battery can be charged only after the main battery is fully charged.

Charge both batteries, (including the backup battery) for 36 hours before use.

As Lithium Ion batteries age, their capacity decreases gradually, and they are generally considered depleted after approximately 2 years of use (less than 60% of original capacity remaining). Keep in mind however that heavy usage or operating the unit at temperature extremes will shorten the battery life.

Chapter 2

Preparations for working with Afi2GO

This chapter includes the following topics:

- "WORKABOUT PRO preparations" (below)
- "Synchronizing PDA and AfiFarm/ AfiShepherd computer clocks" on page 5
- "Preparations in AfiFarm/ AfiShepherd for Afi2GO" on page 5

WORKABOUT PRO preparations

This section deals with getting the WORKABOUT PRO ready to work with Afi2GO.

Preparing the WORKABOUT PRO for Operation

For cautions and explanations about charging the WORKABOUT PRO batteries, see the "Preparing the WORKABOUT PRO for Operation" section of the WORKABOUT PRO user manual supplied (on disk) with this product.

Installation of Afi2GO

In general, the Psion WORKABOUT PRO is shipped from S.A.E. Afikim with the Afi2GO software installed and configured. For other options, please contact S.A.E. Afikim or your local distributor.

Localization and personalization

Stylus

If you need to adjust the sensitivity of the WORKABOUT PRO to your stylus touch, see the Stylus properties section of the WORKABOUT PRO user manual supplied (on disk) with this product.



NOTE:

In addition to the stylus, the only other object recommended for tapping the screen is your finger!

Setting the local date and time

Use this procedure to set the local date and time.



To set the local date and time

1. On the lower right-hand corner of any PDA screen, double-tap the displayed time.
2. On the Date/Time Properties screen, if you need to change the date, make sure that the current month is displayed, and then tap the current date.
3. If needed, change the time zone and the current time.
4. Tap **OK**.

Changing the date format

The format in which dates are displayed in Afi2GO (day-month-year or month-day-year, for example) is determined by the Windows CE operating system definitions on your PDA. Use this procedure to examine the current settings and to change the settings, if needed.

To change the date format

1. In the lower left-hand corner of any PDA screen, tap the Windows icon .
2. On the menu, tap **Settings > Control Panel**.
3. Double-tap **Region & Language**.
4. On the **Region** tab of the Region & Language screen, in the **Your locale** list, change the value if needed.
5. Tap **OK**.
6. Tap the Close box  to close the Control Panel screen.

Creating a Total Recall backup profile

Total Recall is a Psion Teklogix utility developed to back up applications and settings, with an option of restoring applications and settings if needed.



NOTE:

Before performing this procedure, make sure that you have access to the WORKABOUT PRO user manual supplied (on disk) with this product. If you later need to restore the profile that you created, you will also need to refer to the same manual.

To create a Total Recall backup profile

1. In the "Total Recall" section of the WORKABOUT PRO user manual (supplied with this product), begin the "Creating a Backup Profile" procedure.
2. In general, accept the defaults displayed in the Create Backup Profile screens. However, on the Profile Information screen, in the **Profile Type** box, select **AutoRestore for this and other devices**.
3. Finish the "Creating a Backup Profile" procedure.

Synchronizing PDA and AfiFarm/ AfiShepherd computer clocks

Follow these procedures when you first connect the AfiFarm/ AfiShepherd computer and the PDA on which Afi2GO is installed. The time synchronization effected by this procedure is required for error-free Afi2GO operation.


To synchronize clocks between the PDA and the AfiFarm/ AfiShepherd computer

1. Connect the USB cable from the PDA into the computer on which AfiFarm or AfiShepherd is installed. (If the AfiFarm/ AfiShepherd installation is on both a controller computer and a reporter computer, connect the USB cable to the reporter computer.)
2. In the New Partnership wizard, in response to the prompt regarding setting up a partnership, select the **Yes** option and then click **Next**.
3. In the Select Number of Partnerships screen, select **Yes, I want to synchronize only with this computer**.
4. In the Select Synchronization Settings screen, if you are using the WORKABOUT PRO only for synchronization with AfiFarm/ AfiShepherd, make sure that all of the checkboxes are unselected, and then click **Next**.

The Microsoft ActiveSync dialog box opens, indicating that the AfiFarm/ AfiShepherd computer and the PDA are connected.

5. Close the Microsoft ActiveSync dialog box.

To verify clock synchronization between the PDA and the AfiFarm/ AfiShepherd computer

1. Make sure that the Afi2GO PDA and the computer on which AfiFarm/ AfiShepherd is installed are connected by the supplied USB cable, and that both computers are running.
2. On the taskbar of the AfiFarm/ AfiShepherd computer, double-click .
3. In the Microsoft ActiveSync dialog box, click the Options icon.
4. On the **Sync Options** tab of the Options dialog box, make sure that the **Synchronize mobile device clock upon connecting** check box is selected.
5. Click **OK**.
6. Close the Microsoft ActiveSync dialog box.

Preparations in AfiFarm/ AfiShepherd for Afi2GO

For information on preparations in AfiFarm/ AfiShepherd for data transfer to Afi2GO, see *Guide to AfiFarm/ AfiShepherd Synchronization with Afi2GO* (supplied on disk with this product).

Chapter 3

Using Afi2GO on WORKABOUT PRO

This chapter includes the following topics:

- "Important keyboard functions" (below)
- "Starting Afi2GO on the WORKABOUT PRO" on page 8
- "The graphic menus" on page 9
- "The menu bar" on page 12

Important keyboard functions



Note: In general, for questions on using WORKABOUT PRO, see the WORKABOUT PRO user manual supplied (on disk) with this product.

This section deals with the following:

- The WORKABOUT PRO keyboard functions that are most important for using Afi2GO
- Keyboard functions that are used for Afi2GO in ways not described in the WORKABOUT PRO user manual

Figure 1 describes the keyboard features most relevant for Afi2GO.

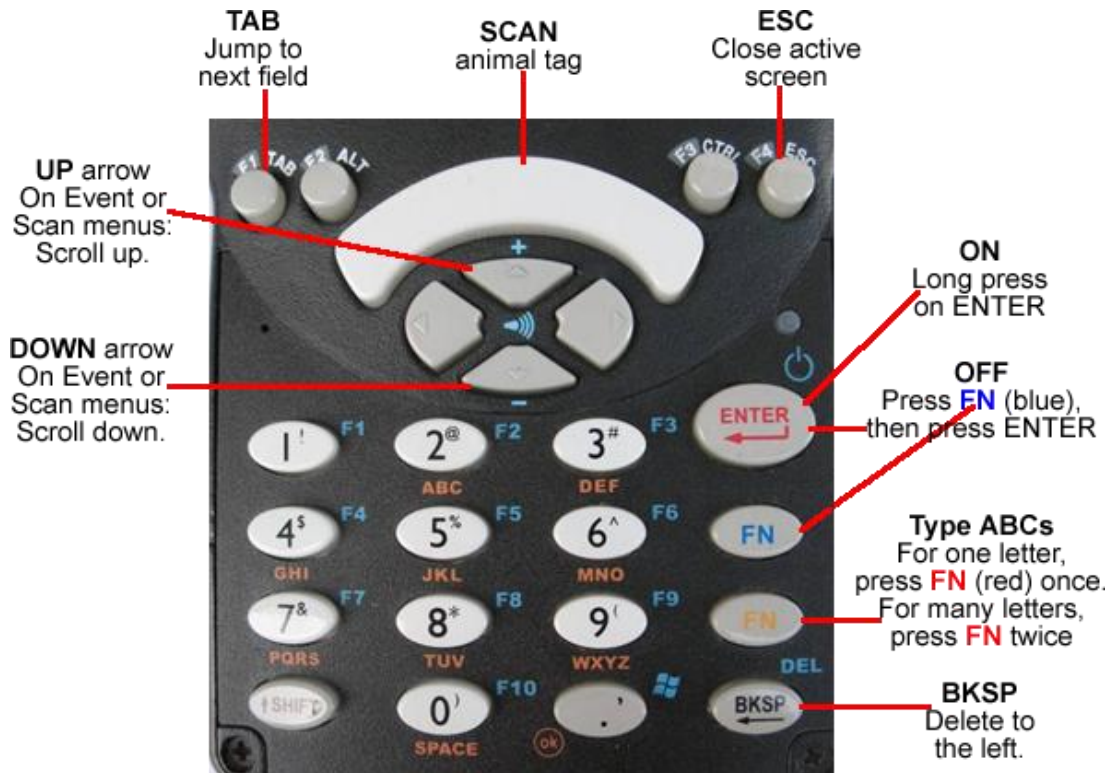



Figure 1: WORKABOUT PRO keyboard

 **Note:** The Up and Down arrows are also useful for scrolling through a drop-down list.

Starting Afi2GO on the WORKABOUT PRO

Use this procedure to start the Afi2GO application on your WORKABOUT PRO.

To start Afi2GO on the WORKABOUT PRO

1. If needed, press Enter for several seconds to turn on the PDA.
2. On the PDA Desktop, double-tap the Afi2GO icon.

The Afi2GO opening screen is displayed (Figure 2).

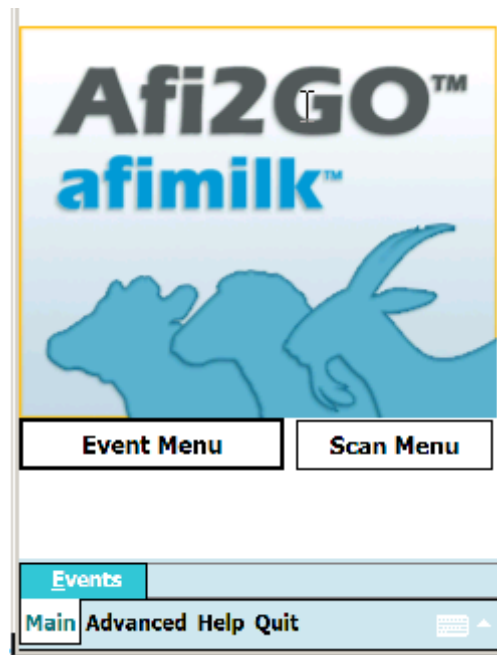


Figure 2: Opening screen

The graphic menus

There are two graphic menus in Afi2GO, the Event Menu and the Scan Menu. The current sections include the following:

- An overview of the preparations that you need to do in AfiFarm/ AfiShepherd to populate the graphic menus
- How to use the graphic menus

The Event Menu

The Event Menu is a graphical menu that displays up to nine tap-sensitive event squares, with an option of scrolling down to display additional squares. Each square include text and an icon. In general, you specify Event Menu items that you usually frequently use.

Preparing settings for the Event Menu

This procedure gives basic instructions regarding what you need to do in AfiFarm/ AfiShepherd to populate the Afi2GO Event Menu. For more information, see *Guide to AfiFarm/ AfiShepherd Synchronization with Afi2GO* (supplied on disk with this product).

To prepare settings for the Event Menu

1. In the navigation tree, click **AfiTools > Afi2GO**.
2. In the Afi2GO Synchronization dialog box, click **Edit Event Menu**.

3. In the Short Event List dialog box, select the items that you want to appear in the Afi2GO Event Menu, and then click **OK**.

When in the Afi2GO Synchronization dialog box you later click **Send to Afi2GO**, the items that you specified determine the Afi2GO Event Menu.

Accessing events from the Event Menu

Following preparation in AfiFarm/ AfiShepherd and sending data to Afi2GO, a sample Event Menu screen might look as follows:

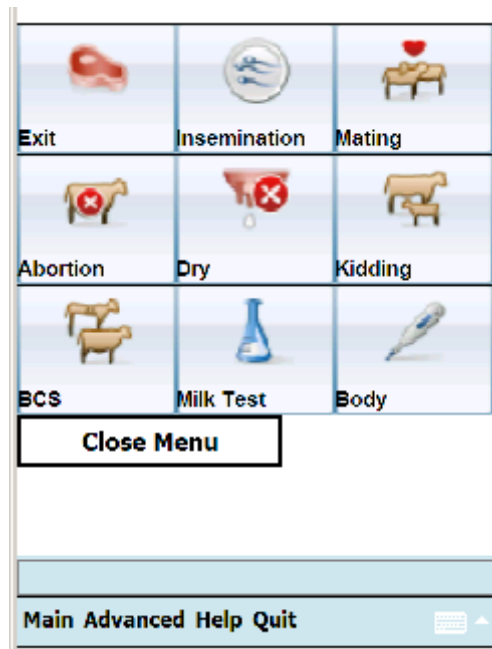


Figure 3: Event Menu

To access events from the Event Menu

1. On the Afi2GO opening screen, tap **Event Menu**.
2. On the Event Menu or Scan Menu, tap the menu item that you need.
3. To scroll down to hidden menu items, press the WORKABOUT PRO Down arrow, as shown in Figure 1 on page 8.

The Scan Menu

The Scan Menu is a graphical menu that displays up to nine tap-sensitive event squares, with an option of scrolling down to display additional squares. Each square include text and an icon. When you scan an animal's tag, the Scan Menu displays only the events that were scheduled for that animal in AfiFarm/ AfiShepherd.

Tag scanning options

There are several ways to activate WORKABOUT PRO scanning of animal RFID tags. In general, the procedures in the current guide mention only one option. But in any screen that supports scanning, you can also press any one of the scan buttons shown in Figure 4. For an active antenna, see the additional scan button illustrated in Error! Reference source not found..



Note: For tips on scanning animal tags, see "Tag scanning tips" on page 37.

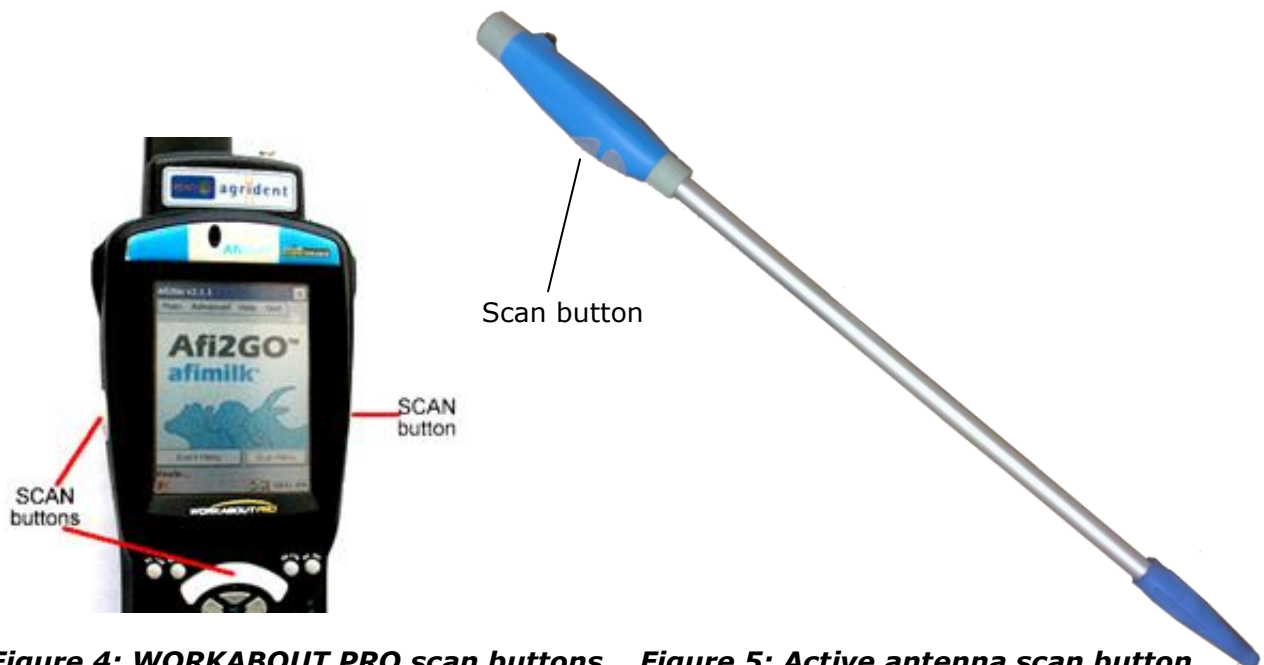


Figure 4: WORKABOUT PRO scan buttons **Figure 5: Active antenna scan button**

Preparing settings for the Scan Menu

For information on how to schedule events for animals in AfiFarm/ AfiShepherd, see *Guide to AfiFarm/ AfiShepherd Synchronization with Afi2GO* (supplied on disk with this product).

Accessing events from the Scan Menu


For an animal for which events are defined, use this procedure to scan the animal's RFID tag and display the Scan Menu.

To access events from the Scan Menu

1. On the Afi2GO opening screen, do one of the following:
 - * Tap **Scan Menu**.
 - * Press one of the scan buttons shown in Figure 4Error! Reference source not found..
2. On the Scan Menu, tap the menu item that you need.

The appropriate screen is displayed, containing the animal ID and tag number.

3. Perform the appropriate procedure in this guide, ignoring the scan step.

 **TIP:** To scroll down to hidden menu items, press the WORKABOUT PRO Down button, as shown in Figure 1 on page 8.

The menu bar

From the Afi2GO menu bar, you can access various commands and information.

Accessing events from the tree menu

Use this procedure to access, in an Afi2GO hierarchical tree menu, events that you specified in AfiFarm/ AfiShepherd.

 **Note:** You specify such events by choosing **Tools > Parameters > General > Display > Visible > Events**.

To access events from the tree menu

1. On the opening screen of Afi2GO or on the graphical Event Menu screen, on the top menu bar, choose **Main > Events**.
2. In the screen that is displayed, open the branches of the Events tree to display the events of interest. For example:

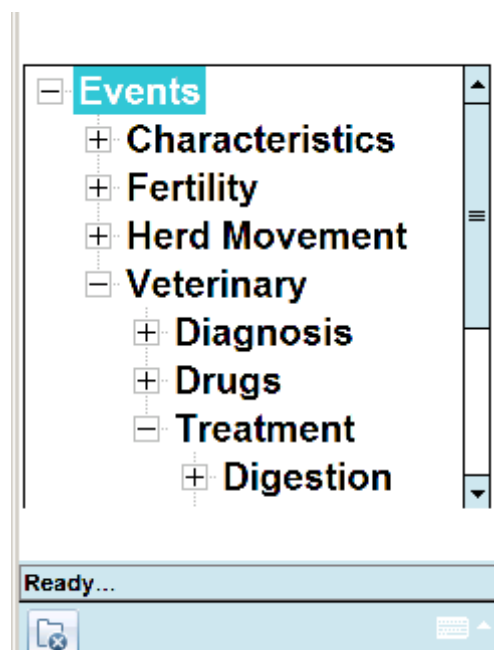


Figure 6: Event tree menu

3. Tap the event that you need.
The screen that you need is displayed.

Accessing the Vet Visit summary from the menu bar

See "Viewing the Vet Visit summary" on page 25.

Displaying the About Afi2GO screen

Use this procedure to display the About Afi2GO screen. If there is an Afi2GO issue for which you need to contact S.A.E. support, you will need the information displayed on this screen.

To display the About Afi2GO screen

1. On the opening screen of Afi2GO or on the graphical Event Menu screen, on the top menu bar, choose **Help > Afi2GO**.
2. On the About Afi2GO screen record the version and build information.
3. Tap **OK**.

Chapter 4

Animal and herd events

This chapter includes the following topics:

- "Animal ID and tag management" (below)
- "Herd management" on page 17
- "Reviewing work-in-progress" on page 18

Animal ID and tag management



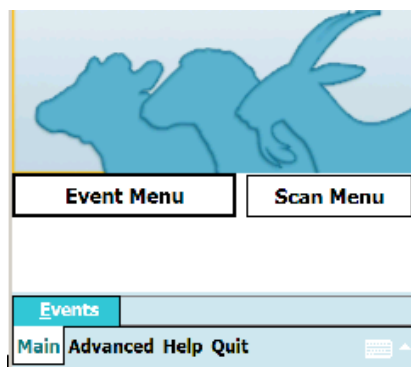
Note: For tips on scanning tags, see "Tag scanning tips" on page 37.

Adding an animal and tag



Use this procedure when you want to add a new animal and its RFID tag at the same time.

To add an animal and tag

1. Make sure that the tag is correctly fastened to the animal (for a bolus tag: in the animal).






2. On the main screen tap **Event Menu**. Then tap **New Animal** .
3. On the New Animal screen, make sure that the antenna is correctly oriented to the tag, and then do one of the following:
 - * Tap .
 - * Press one of the WORKABOUT PRO scan buttons.
4. In the **Animal ID** box, type the Animal ID.

5. (optional) In the **Reg. number** box, type the government registration number.
6. (optional) Specify the group number and the herd number.
7. To the right of the **Birth date** box, tap  to select the actual birth date.
8. Tap  to save the information that you entered.

Adding an animal

Use this procedure when you want to add a new animal. (To scan an RFID tag added later, see "Adding a tag" on page 17.)





To add an animal

1. On the Event Menu, tap **New Animal** .
2. On the New Animal screen, in the **Animal ID** box, type the Animal ID.
3. (optional) In the **Reg. number** box, type the government registration number.
4. (optional) Select the group number and the herd number.
5. To the right of the **Birth date** box, tap  to select the actual birth date.
6. Tap  to save the information that you entered.

Assigning a permanent ID and tag

Use this procedure when you want to change a temporary animal ID to a permanent animal ID. You can also add the animal's RFID tag.




To assign a permanent ID and tag

1. On the Event Menu, tap **Change ID** .
2. On the Change ID screen, in the **Animal ID** box, type the temporary ID.
3. In the **New Animal ID** box, type the new animal ID.
4. (optional) In the **Reg. number** box, type the governmental registration number.
5. Tap  to save the information that you entered.
6. To add the animal's RFID tag, do the following:
 - a. Press one of the WORKABOUT PRO scan buttons or tap .
 - b. In response to a message that the tag does not exist in the database, confirm that you want to add it.
 - c. On the Add New Tag screen, tap  to save your changes.

Adding a tag

Use this procedure to add an RFID tag for an animal for which the permanent animal ID is already defined.

To add a tag

1. On the Event Menu, tap **Add New Tag** .
2. On the New Animal screen, make sure that the antenna is correctly oriented to the tag, and then do one of the following:
 - * Tap .
 - * Press one of the WORKABOUT PRO or active antenna scan buttons.
3. In the **Animal ID** box, type the animal ID.
4. If a message is displayed asking if you want to edit the record, tap **Yes**.
5. (optional) In the **Reg. number** box, type the governmental registration number.
6. Tap  to save your changes.



Herd management

Changing Herd and Group number in Animal Card

The Animal Card displays a subset of the AfiFarm/ AfiShepherd information available for a given animal. You can also change the Herd number and the Group number.

For information on how to edit the animal card items in Afi2GO, see *Guide to AfiFarm/ AfiShepherd Synchronization with Afi2GO* (supplied on disk with this product).



To change the Herd and Group number in the Animal Card

1. Use the appropriate of the following options to display the Animal Card:
 - * On the Event Menu or Scan Menu, tap **Animal Card** .
 - * On any relevant screen, tap .
2. (from Event Menu only) On the Animal Card screen, do one of the following:
 - * In the **Animal ID** box, type the animal ID.
 - * Scan the animal ID.
3. In the **Group** box, type the new group number.
4. In the **Herd** box, type the new herd number.

Recording an animal exit from the herd

Use this procedure to record the exit of an animal from the herd.


To record exit from herd

1. On the Event Menu or Scan Menu, tap **Exit** .
2. (from Event Menu only) On the Exit screen, do one of the following:
 - * In the **Animal ID** box, type the animal ID.
 - * Scan the animal's ID tag.
3. Enter the appropriate values.
4. Tap  to save your changes.


Reviewing work-in-progress

Use this procedure when you want to do one or more of the following:

- Review a list of animals that received a given treatment or action
- Modify the current records

 **NOTE:** You can also use this procedure following actions described in the other chapters in this book.




To review work-in-progress

1. In any screen in which you have saved an action since the last data upload to AfiFarm/ AfiShepherd, press .
- The Records List screen is displayed.

Animal ID	Date	Drug	Co...
323	2010.10.06		Bull...
357	2010.10.06		Bull...
362	2010.10.06		Bull...

Record Count:
3

Figure 7: Records List screen

2. In the **Records List** screen, view the list of new and changed records.
3. To examine or edit a record, do the following:
 - a. Tap the record that you want to examine.
 - b. Tap .
 - c. In the screen that is displayed, change values as needed and then do the appropriate of the following:
 - ◇ Tap  to save your changes.
 - ◇ Tap  to return to the menu screen.

Chapter 5

Veterinary issues

This chapter includes the following topics:

- "Vet Visit" (below)
- "Veterinary events" on page 26
- "Diagnosing pregnancy" on page 29

Vet Visit

Vet Visit functionality in AfiFarm/ AfiShepherd allows you to do the following:


- Specify animals that need attention during an upcoming veterinarian visit (You can specify animals individually or by criteria.)
- Specify keyboard shortcuts for data entry
- Record diagnoses, recommended treatment, and so forth for the animals to be examined by the vet

After you prepare a vet visit in AfiFarm or AfiShepherd and then download that information to Afi2GO, you can do the following in Afi2GO:

- View a list of animals that need veterinary examination and treatment
- Scan an animal's tag (or enter the ID manually), which displays a screen that offers the following:
 - * List of the reasons for an animal to have a vet visit
 - * Additional information about the animal
 - * Ability to enter the results of the vet visit
 - * The number of dry days or session yield of the animal
- Upload the results of the vet visit (together with all new data from the session) from Afi2GO to AfiFarm/ AfiShepherd

Accessing the Vet Visit WorkSheet


The Vet Visit Worksheet is a version of the Animal Card. When you access Vet Visit for an animal, WorkSheet is the first screen displayed. Use one of these procedures to access an animal's WorkSheet.


 **NOTE:** In *AfiFarm* or *AfiShepherd*, you specify the fields displayed on the Afi2GO Animal Card and WorkSheet from **Folder List > AfiTools > Afi2GO > Worksheet Card > Worksheet Card List**.

Accessing the WorkSheet by scanning the animal ID

Use this procedure for fool-proof identification of an animal for a vet visit.

To access the WorkSheet by scanning the animal ID

1. On the Afi2GO opening screen, do one of the following:
 - * Tap **Scan Menu**.
 - * Press one of the scan buttons shown in Figure 4 on page 11.
2. On the Scan Menu, tap **Vet Visit** .

The WorkSheet screen is displayed, as in Figure 8.
3. To view multiple reasons for the vet visit, tap  to open the **Reasons** list.

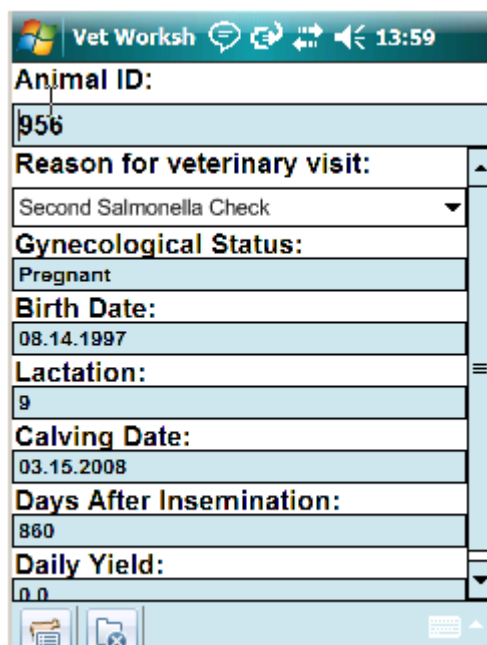


Figure 8: WorkSheet screen

Accessing the WorkSheet by typing the animal ID

Use this procedure to access the WorkSheet by typing the animal ID.

To access the WorkSheet by typing the animal ID

1. On the Event Menu, tap **Vet Visit** .
2. On the Vet Visit Results screen, in the **Animal ID** box, type the Animal ID.




The WorkSheet screen is displayed, as in Figure 8 (above).

3. To view multiple reasons for the vet visit, tap  to open the **Reasons** list.

Accessing a WorkSheet from the list of scheduled animals

Use this procedure to access an animal's WorkSheet from a list of animals scheduled for a vet visit. (You can also use this procedure to view the list without proceeding to the Vet Visit Results screen for a specific animal.)

To access a WorkSheet from the list of scheduled animals

1. On the Event Menu, tap **Vet Visit** .
2. On the Vet Visit Results screen, tap .
3. On the list screen, select the appropriate animal and then tap .


The WorkSheet screen is displayed, as in Figure 8.

4. To view multiple reasons for the vet visit, tap  to open the **Reasons** list.




Managing Vet Visit for an animal



Use this procedure to allow the veterinarian to view the reasons that an animal needs the vet's attention, and for recording the results of the vet visit.

To manage Vet Visit for an animal

1. Perform one of the procedures to access the animal's WorkSheet:
 - * "Accessing the WorkSheet by scanning the animal ID"
 - * "Accessing the WorkSheet by typing the animal ID"
 - * "Accessing a WorkSheet from the list of scheduled animals"
2. Examine the WorkSheet, and then close it by tapping .

The **Diagnosis** tab of the Vet Visit Results screen is displayed. Note that the Reason box displays the reason or reasons for including this animal in the vet visit.

3. For each item in the **Reason** list, do the following:
 - a. On the **Diagnosis** tab, do one of the following:
 - ◇ If the diagnosis is *normal*, tap **Diag OK**.
 - ◇ If a Default Protocol is defined in AfiFarm/ AfiShepherd for this diagnosis, you can tap **Def. Protocol**.
 - ◇ Tap **Protocol** to display the Select protocol screen, where you select a protocol and then tap .
 - ◇ To the right of the **Protocol** button, use the spinners () to select a protocol by number.
 - ◇ Manually enter a diagnosis by tapping ; on the Select Diagnosis screen select a diagnosis and then pressing Enter.

- ◇ If in AfiFarm/ AfiShepherd you assigned VetResult shortcut keys, you can manually enter a diagnosis by tapping in the **Diagnosis** box and then pressing a shortcut key.
 - b. If you selected a diagnosis manually, then on the **Details** tab you also need to specify treatment and drug manually, using the manual options described for **Diagnosis**.
 - c. On either the **Diagnosis** tab or the **Details** tab, tap  to save the set of diagnosis, treatment, and drug values that you just specified.
 - d. To view a list of the reason-diagnosis-treatment-drug sets that you specified so far, tap **View**.
4. On the **Details** tab, enter values in the following boxes, as needed:
- * **Recheck (days)**
 - * **Cond**
 - * **BCS**
 - * **Comment**
 - * **Vet Name**
5. Tap .

Viewing the Vet Visit summary

Use this procedure to view a summary list of vet visit drugs and treatments.

To view the Vet Visit summary

1. On the opening screen of Afi2GO or on the graphical Event Menu screen, on the menu bar, press **Advanced > Vet Visit summary**

A window similar to the following is opens:

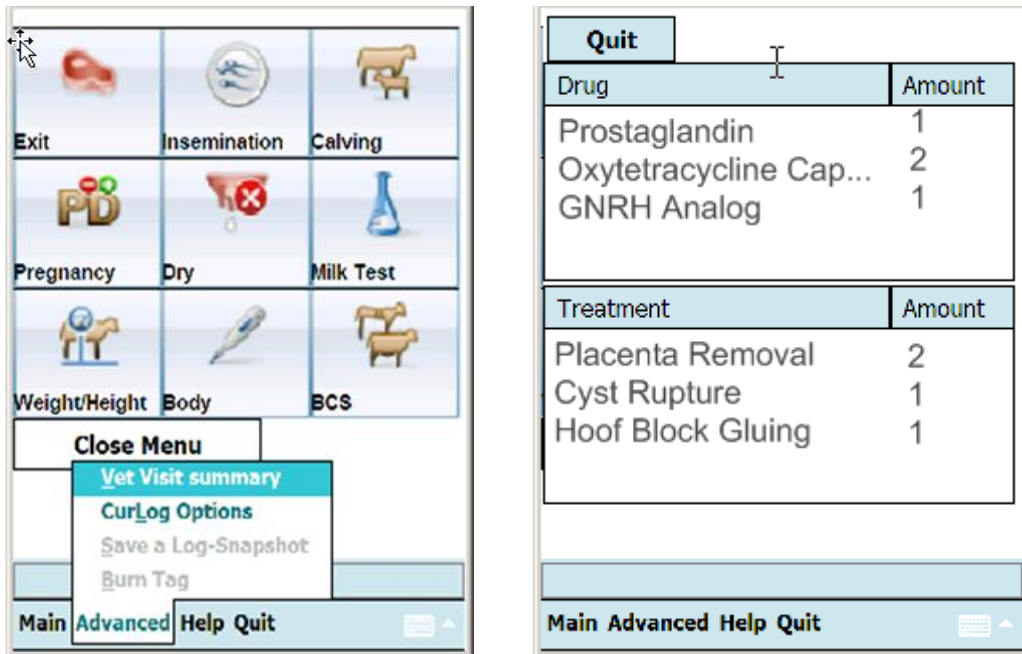


Figure 9: Vet Visit summary screens

2. View the information that you need, and then tap the **Quit** button.

Veterinary events









This section deals with veterinary events that field-staff need to perform or record. You can set these events in AfiFarm/ AfiShepherd (under Data Entry) as reminders for field action, or record them in the field. These events fall into the following categories:

- “Recording a diagnosis, treatment, or drug that you specify” (below)
- “Diagnosis events” on page 27
- “Treatment events” on page 28

Recording a diagnosis, treatment, or drug that you specify

Use this procedure for recording a diagnosis, treatment, or drug that you specify in Afi2GO.

To record a diagnosis, treatment, or drug that you specify

1. On the Event Menu or the Scan Menu, tap Veterinary Events .
2. (from Event Menu only) On the Veterinary Events screen, do one of the following:
 - * In the **Animal ID** box, type the animal ID.
 - * Scan the animal ID.
3. To specify a diagnosis, tap  to the right of the **Diagnosis** box, and then do the following:
 - a. On the Select Diagnosis screen, open the navigation tree to display the diagnosis that you need.
 - b. Tap the diagnosis that you need, and then tap .
4. To specify a treatment, tap  to the right of the **Treatment** box, and then do the following:
 - a. On the Select Treatment screen, open the navigation tree to display the treatment that you need.
 - b. Tap the treatment that you need, and then tap .
5. To specify a drug, tap  to the right of the **Drug** box, and then do the following:
 - a. On the Select Drug screen, open the navigation tree to display the treatment that you need.
 - b. Tap the treatment that you need, and then tap .
6. On the Veterinary Events screen, tap  to save your changes.

Diagnosis events

In this section is a sample procedure for recording a specific diagnosis on the Veterinary Events screen.









NOTE:

This procedure is an example of how to use an Event Menu Diagnosis item that you specified in AfiFarm/ AfiShepherd > **Folder list > AfiTools > Afi2GO > Edit Event Menu > Short Event List > Veterinary > Diagnosis.**

Recording a downer animal

Use this procedure for recording a downer animal (an animal that is lying down and makes no effort to get up).

To record a downer animal

1. On the Event Menu or the Scan Menu, tap **Downer** .
The Veterinary Events screen is displayed, with Downer animal displayed in the **Diagnosis** box.
2. (from Event Menu only) On the Veterinary Events screen, do one of the following:
 - * In the **Animal ID** box, type the animal ID.
 - * Scan the animal ID.
3. To specify a treatment, tap  to the right of the **Treatment** box, and then do the following:
 - a. On the Select Treatment screen, open the navigation tree to display the treatment that you need.
 - b. Tap the treatment that you need, and then tap .
4. To specify a drug, tap  to the right of the **Drug** box, and then do the following:
 - a. On the Select Drug screen, open the navigation tree to display the treatment that you need.
 - b. Tap the treatment that you need, and then tap .
5. Tap  to save your changes.

Treatment events

In this section is a sample procedure for recording a specific treatment on the Veterinary Events screen.




NOTE:






This procedure is an example of how to use an Event Menu Diagnosis item that you specified in AfiFarm/ AfiShepherd > **Folder list > AfiTools > Afi2GO > Edit Event Menu > Short Event List > Veterinary > Treatment.**

Recording insertion of a progesterone device

Use this procedure to record insertion of a CIDR progesterone device.

To record insertion of a progesterone device


1. On the Event Menu or the Scan Menu, tap **Progesterone device insertion** .

The Veterinary Events screen is displayed, with Progesterone device insertion displayed in the **Treatment** box.
2. (from Event Menu only) On the Veterinary Events screen, do one of the following:
 - * In the **Animal ID** box, type the animal ID.
 - * Scan the animal's tag.
3. To specify a diagnosis, tap  to the right of the **Diagnosis** box, and then do the following:
 - a. On the Select Diagnosis screen, open the navigation tree to display the treatment that you need.
 - b. Tap the diagnosis that you need, and then tap .
4. To specify a drug, tap  to the right of the **Drug** box, and then do the following:
 - a. On the Select Drug screen, open the navigation tree to display the treatment that you need.
 - b. Tap the treatment that you need, and then tap .
5. Tap  to save your changes.

Diagnosing pregnancy

Use this procedure to record a pregnancy diagnosis.

To record a pregnancy diagnosis

- 1 On the Event Menu or Scan Menu, tap **Pregnancy Diagnosis** .

The Pregnancy Diagnosis screen appears:

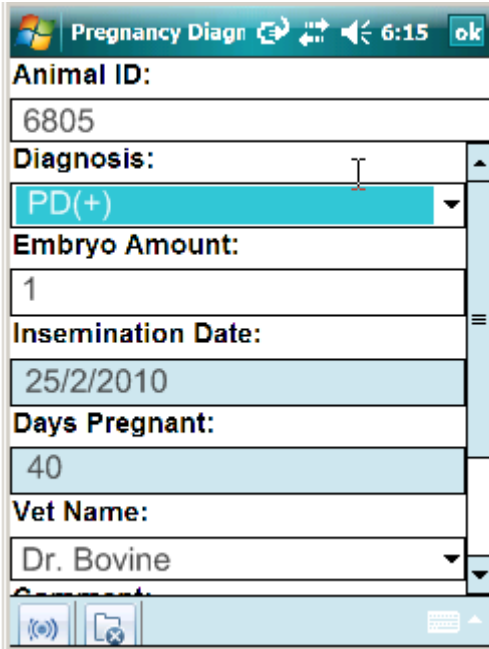





Figure 10: Pregnancy Diagnosis screen

2. (from Event Menu only) Do one of the following:
 - * Scan the animal's tag.
 - * In the **Animal ID** box, type the Animal ID.
3. In the **Date** box, accept the current date displayed or enter a different date.
4. In the **Diag.** box, type the pregnancy diagnosis or tap  to select a pre-defined diagnosis in the list.
5. In the **Veterinarian** box, type the name of the veterinarian or tap  to select the appropriate name in the list.
6. (optional) In the **Comment** box, select a pre-defined comment or type a comment.
7. In the **Embryos** box, type the number of embryos.
8. Tap  to save the entry.

Chapter 6

Fertility Events




This chapter includes the following topics:

- "Recording insemination" (below)
- "Recording a mating" on page 30
- "Recording births" on page 31
- "Specifying an animal to be dried" on page 32

Recording insemination

Use this procedure to record an insemination event.

To record insemination


1. On the Event Menu or Scan Menu, tap **Insemination** .
2. (from Event Menu only) On the Insemination screen, do one of the following:
 - * Scan the animal's tag.
 - * In the **Animal ID** box, type the Animal ID.
3. In the **Date** box, enter the insemination date.
4. (optional) In the **Insemin. name** box, type the name of the staff who performed the insemination or tap  to select a name in the list.
5. (optional, if recommended males were specified in AfiFarm/ AfiShepherd) Do one of the following to specify the bull, ram, or buck:
 - * In the **Bull ID, Ram ID, or Buck ID** list, select the animal ID.
 - * In the **Bull name, Ram name, or Buck name** list, select the animal.
6. (optional) In the **Semen amt.** list, select the appropriate value.
7. (optional) In the **Comment** box, select a pre-defined comment or type a comment.
8. Tap  to save the entry.

Recording a mating

Use this procedure to record a Natural Breeding (mating) event.

To record a mating


1. On the Event Menu or Scan Menu, tap **Mating** .

2. (from Event Menu only) On the Mating screen, do one of the following:
 - * Scan the animal's tag.
 - * In the **Animal ID** box, type the Animal ID.
3. In the **Date** box, enter the mating date.
4. (optional, if recommended males were specified in AfiFarm/ AfiShepherd) In the **Bull, Ram, or Buck** box, select the male.
5. (optional) In the **Comment** box, select a pre-defined comment or type a comment.
6. Tap  to save the entry.

Recording births


Use this procedure to record births to an animal in the herd.

To record a birth

1. On the Event Menu or Scan Menu, tap **Calving, Lambing, or Kidding** .

2. (from Event Menu only) On the **Calving, Lambing, or Kidding** screen, do one of the following:

- * Scan the animal's tag.
- * In the **Animal ID** box, type the Animal ID.

3. In the **Date** box, enter the birth date.
4. In the **Manner** box, tap  to select a pre-defined manner.
5. If there were no live offspring, continue with step 7 below.

If the manner that you selected supports live offspring, the Add button is displayed, as in Figure 11.

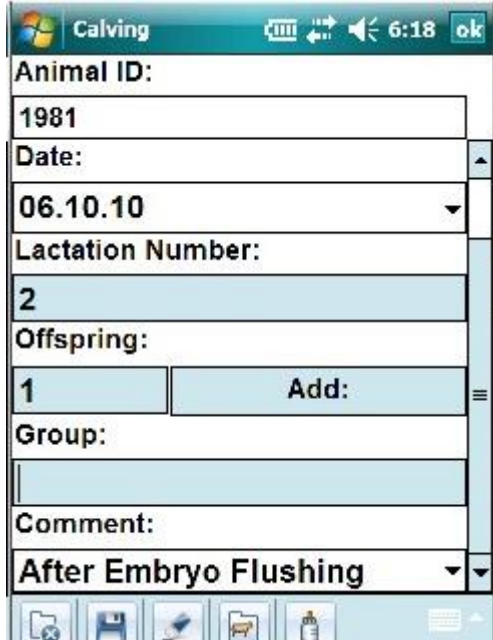




Figure 11: Calving/Kidding/Lambing Screen

6. To the right of the **Offspring** box, tap **Add**.
7. On the Offspring screen, do the following:
 - a. In the **Sex** list, select the appropriate value.
 - b. In the **Animal ID** box, do one of the following:
 - ◇ Accept the unique ID number generated by Afi2GO.

- ◇ Type the number that you need.
- c. (optional) In the **Destination** box, select a predefined destination or type the destination.
- d. (optional) In the **Condition** box, select a predefined condition or type the condition.
- e. (optional) In the **Herd Book num.** box, type the herd book number.
- f. (optional) In the **Herd** box, type the herd number.
- g. (optional) In the **Group** box, type the group number.
- h. (optional) In the **Name** box, type the name of the offspring.
- i. In the **Weight** box, type the weight.
- j. Tap  to save the offspring entry.
- 8. (optional) On the **Calving, Lambing, or Kidding** screen, in the **Comment** box, select a pre-defined comment or type a comment.
- 9. Tap  to save the entry.






NOTE: To view a list of all the births recorded in the current session, see "Reviewing work-in-progress" on page 18.

Specifying an animal to be dried

Use this procedure to specify an animal to be dried of milk.

To specify an animal to be dried

1. On the Event Menu or Scan Menu, tap **Dry** .
2. (from Event Menu only) On the **Dry** screen, do one of the following:
 - * Scan the animal's tag.
 - * In the **Animal ID** box, type the Animal ID.
3. In the **Date** box, enter the date that the drying treatment begins.
4. In the **Drug** list, select the appropriate value.
5. (optional) In the **Comment** box, select a pre-defined comment or type a comment.
6. In the **Vet. name** box, type the name of the veterinarian or tap  to select the appropriate name in the list.
7. Tap  to save the entry.

Chapter 7

Animal Characteristics



This chapter includes the following topics:

- "Recording BCS" (below)
- "Recording milk test results" on page 33
- "Recording weight and height" on page 34
- "Recording body temperature" on page 34

Recording BCS

Use this procedure to record BCS (body condition scoring).


To record body condition scoring


1. On the Event Menu or Scan Menu, tap **BCS** .
2. (from Event Menu only) On the **BCS** screen, do one of the following:
 - * Scan the animal's tag.
 - * In the **Animal ID** box, type the Animal ID.
3. In the **Date** box, enter the date for which you are recording BCS.
4. In the **BCS** box, type the appropriate value.
5. Tap  to save the entry.

Recording milk test results

Use this procedure to record milk test results.

To record milk test results



1. On the Event Menu or Scan Menu, tap Milk Test .
2. (from Event Menu only) On the **Milk Test** screen, do one of the following:
 - * Scan the animal's tag.
 - * In the **Animal ID** box, type the Animal ID.
3. In the **Date** box, enter the date for which you are recording the milk test results.
4. In the **Yield, Fat, SCC, Protein, Urea, and Lactose** boxes, type the test values.

5. Tap  to save the entry.

Recording weight and height

Use this procedure to record current weight, height, or weight and height.



To record weight and height

1. On the Event Menu or Scan Menu, tap **Weight/ Height** .
2. (from Event Menu only) On the **Weight/ Height** screen, do one of the following:
 - * Scan the animal's tag.
 - * In the **Animal ID** box, type the Animal ID.
3. In the **Date** box, enter the date for which you are recording the weight and height measurements.
4. In the **Weight** box, type the weight.
5. In the **Height** box, type the height.
6. Tap  to save the entry.

Recording body temperature

Use this procedure to record current body temperature of animals in your herd.

To record body temperature

1. On the Event Menu or Scan Menu, tap **Body Temperature** .
2. (from Event Menu only) On the **Body Temperature** screen, do one of the following:
 - * Scan the animal's tag.
 - * In the **Animal ID** box, type the Animal ID.
3. In the **Date** box, enter the date for which you are recording the weight and height measurements.
4. In the **Temperature** box, type the temperature.
5. Tap  to save the entry.

Appendix A

Tips and troubleshooting

This appendix includes the following topics:

- "Keyboard issues and resolutions" (below)
- "Afi2GO issues and resolutions" on page 36
- "Tag scanning tips" on page 37

Keyboard issues and resolutions

This section deals with PDA keyboard issues that you might encounter.

Keyboard issues

Freeing stuck arrow keys

As described in Figure 1 on page 8, you need the Up and Down arrow keys to scroll beyond the first nine items on the Event Menu or the Scan menu. Use this procedure if these keys change their function, preventing you from accessing all of the menu items.

To free stuck arrow keys

1. Tap **Close Menu**.
2. If this returns you to the Afi2GO opening screen, tap **Event Menu** or **Scan Menu** as needed.
3. If the above steps do not resolve the problem, try closing Afi2GO, turning off the PDA, turning on the PDA again, and restarting Afi2GO.
4. If the above steps do not resolve the problem, perform "Restarting the PDA with Warm Reset" on page 35.


Keyboard issue resolutions

Restarting the PDA with Warm Reset

If your keyboard reaches a state where you cannot get certain keys to work for you, use this procedure.

To restart the PDA with Warm Reset

1. If possible, close Afi2GO to save any work-in-progress.

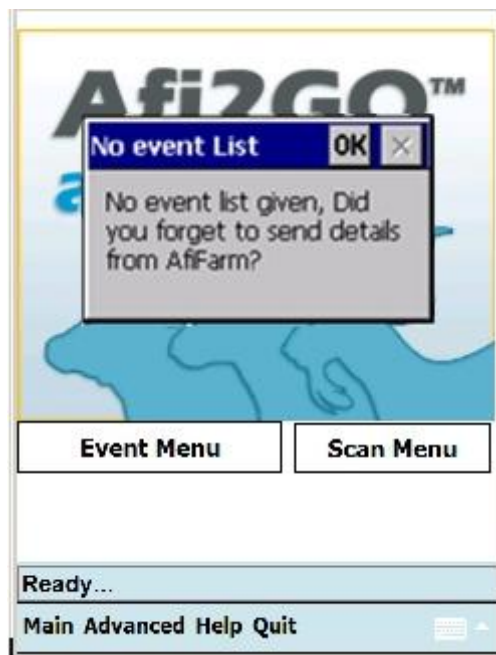
2. In the lower left-hand corner of any PDA screen, tap the Windows icon .
3. On the menu, tap **Shutdown > Warm Reset**.
4. In response to the unsaved data message, tap **OK**.

Afi2GO issues and resolutions

This section deals with Afi2GO issues that you might encounter.

Resolving a “No Event list ...” error

Use this procedure to resolve the following error message, which can occur after you tap the **Event Menu** button (and perhaps also the **Scan Menu** button):



To resolve the “No Event List given ...” error

1. Make sure that you performed the following, sending an Event List from AfiFarm/ AfiShepherd to Afi2GO:
 - a. “Synchronizing PDA and AfiFarm/ AfiShepherd computer clocks” on page 5
 - b. The instructions in *Guide to AfiFarm/ AfiShepherd Synchronization with Afi2GO* (supplied on CD) regarding sending data to Afi2GO.
2. If the error message returns, do all of the following:
 - a. Make sure that the USB cable connects the WORKABOUT PRO docking station and the computer on which AfiFarm/ AfiShepherd is running.
 - b. Make sure that the WORKABOUT PRO is turned on but that Afi2GO is closed.



- c. Press the eject button on the docking station; after the WORKABOUT PRO pops out, return it firmly to the docking station.
- d. If prompted, perform "Synchronizing PDA and AfiFarm/ AfiShepherd computer clocks" on page 5.
- e. Perform the instructions in *Guide to AfiFarm/ AfiShepherd Synchronization with Afi2GO* (supplied on CD) regarding sending data to Afi2GO.

Closing an Afi2GO screen

Use this procedure if you get to an Afi2GO screen that you want to close without saving data.

To close an Afi2GO screen

To close an Afi2GO screen without saving data, do one of the following:

- Press **F4 Esc**.
- In the screen upper Toolbar, tap the  icon.
- Tap the Close box .
- In the Event Menu or the Scan Menu, tap the **Close Menu** button.

Tag scanning tips

There are two troubleshooting issues in scanning animal RFID (radio frequency identification) tags:

- Making sure that the scanner reads the tag
- Making sure that the scanner does not read the wrong tag

These sections provides guidelines and illustrations to help you succeed in reading the correct tag.

Passive tags and active tags

Both passive tags and active tags encode a unique electronic identification (EID) tag number. When you scan a tag, both active and passive tags respond by broadcasting the electronic tag number back to the scanner.

Active tags (an option for cows, but not in use for sheep or goats) gather information that helps diagnose health and fertility status. When you scan an active tag, the additional information is also broadcast back to the scanner.

For part information on the variety of scanning antennas (those for passive tags and those for active tags) available for the WORKABOUT PRO, see "Afi2GO assemblies and parts" on page 43.

Ear tags

All supported ear tags are passive, available for cows, sheep, and goats. Ear tags are fastened as illustrated in Figure 12.



Figure 12: Ear tag

Point the scanning antenna towards the flat face of the tag that you see on the inside of the ear. The distance from a scanning antenna to an ear tag should be less than 15 cm. (6 inches).

Bolus tags

The passive RFID ceramic bolus tag is orally administered by a trained operator. After being swallowed by the cow, sheep, or goat, it lodges in the reticulum (the second fore-stomach).

To read a bolus tag, point the antenna at the front left side of the animal, just behind the armpit. The distance from the tip of the scanning antenna to a bolus tag should be less than 15 cm. (6 inches).

Leg tags

Although passive RFID leg tags are available for cows, sheep, and goats, active tags are supported for cows only. Scan all RFID leg tags from above.

Active leg tags

For active leg tags, the distance from the tip of the scanning antenna to the tag should be less than 45 cm. (18 inches). The correct antenna orientation (from above), and the maximum distance, are illustrated in Figure 13.



Figure 13: Active leg tag

Passive leg tags

For passive leg tags, under ideal conditions (from above), the maximum distance from the tip of the scanning antenna to the tag is 15 cm. (6 inches). If many animals are crowding together, or if the antenna is not above the tag, in order to avoid mistaken identification, the maximum distance is 5 cm. (2 inches).

The correct antenna orientation (from above), and the maximum distance under crowded conditions, are illustrated in Figure 14.



Figure 14: Passive leg tag

Appendix B











Afi2GO Screen Icons






This appendix includes the following topics:

- “Event Menu and Scan Menu icons” (below)
- “Toolbar icons” on page 42
- “Screen icons” on page 42

Event Menu and Scan Menu icons

Table 1: Event Menu and Scan Menu icons

#	Icon	Name
1		Abortion
2		New Tag
3		BCS
4		Calving, Lambing, or Kidding
5		Dry
6		Exit
7		Heat
8		Weight/ Height
9		Insemination
10		Mating
11		Milk Test
12		New ID
13		Pregnancy Diagnosis
14		Body Temperature

#	Icon	Name
15		Treatment Diagnosis
16		Animal Card
17		Vet Visit
18		Not for Insemination
19		Reject Inseminator




Toolbar icons

Table 2: Toolbar icons

#	Icon	Name
1		Animal Card
2		Close
3		Delete
4		Discard
5		Edit
6		Scan
7		Save
8		View List
9		View Offspring

Screen icons


Table 3: Screen icons

#	Icon	Name	Result
1		Down arrow	Opens a drop-down list
2		Ellipsis	Opens another screen
3		Close box	Closes the current screen

Appendix C


Parts list

Afi2GO assemblies and parts

 **CAUTION:** Before connecting, charging, or using any of the equipment described below, see the cautionary information shipped with the equipment. For more information, see also the "PERIPHERAL DEVICES & ACCESSORIES" section in the WORKABOUT PRO user manual supplied (on disk) with this product.

Afi2GO assemblies






Table 4: Available Afi2GO assemblies









Name	Picture	Function	Catalog #
<p>Afi2GO passive EID assembly, including: WORKABOUT PRO S with ISO 11784/85 transponder, and Afi2GO installed, Agrident Air 200 134.2 KHz antenna, docking station assembly, universal AC wall adaptor</p>		<p>Implementing Afi2GO for passive RFID tags. The docking station recharges batteries, connects with the AfiFarm/ AfiShepherd computer, and eases desk work with Afi2GO.</p>	<p>4100000</p>
<p>Afi2GO active EID assembly (high frequency), including: WORKABOUT PRO S with Afi2GO installed, S.A.E. Afi2GO Active high-frequency antenna, docking station assembly, AC wall adaptor</p>		<p>Implementing Afi2GO for high-frequency active RFID tags. The docking station recharges batteries, connects with the AfiFarm computer, and eases desk work with Afi2GO.</p>	<p>4100030</p>







Name	Picture	Function	Catalog #
Afi2GO active EID assembly (low frequency), including: WORKABOUT PRO S with Afi2GO installed, S.A.E. Afi2GO Active low-frequency antenna, docking station assembly, AC wall adaptor		Implementing Afi2GO for low-frequency active RFID tags. The docking station recharges batteries, connects with the AfiFarm computer, and eases desk work with Afi2GO.	4100042

Parts and accessories

Table 5: Afi2GO parts and accessories

Name	Picture	Function	Catalog #
WORKABOUT PRO S with ISO 11784/85 transponder, and Afi2GO installed, Agrident Air 200 134.2 KHz antenna		Implementing Afi2GO for passive RFID tags.	4100400/ 4100002 + 4100000
Docking station assembly, with USB cable and universal AC wall adaptor		Recharges batteries, connects with the AfiFarm/ AfiShepherd computer, and eases desk work with Afi2GO.	4100018
WORKABOUT PRO S with Afi2GO installed		Implementing Afi2GO for active RFID tags (if an active antenna is attached).	4100400/ 4100002 +4108030 /4100030
High-capacity battery Psion No. WA3006 (installed)		3 Ah	4100016
Super high-capacity battery Psion No. WA3010		4 Ah	4100086

Name	Picture	Function	Catalog #
Battery cover for Pision No. WA3006		For 3 Ah battery	4100015
Battery cover for Pision No. WA3010		For 4 Ah battery	4100088
External passive stick antenna AEA080		External stick antenna (two-hand process)	4100020
External passive telescopic antenna AEA090		External telescopic antenna (direct mounting to WAPRO allows one-hand reading)	4100008
External passive stick antenna AEA121		External stick antenna (direct mounting to WAPRO allows one-hand reading)	4100089
S.A.E. Afi2GO external active stick antenna (high-frequency)		Reading high-frequency active tags	4100040
S.A.E. Afi2GO external active stick antenna (low-frequency)		Reading low-frequency active tags	4108040
Hand strap for WORKABOUT PRO		For holding the PDA comfortably	4100003
WORKABOUT PRO holster		Adjustable holder for the PDA.	4100078

Name	Picture	Function	Catalog #
Antenna belt hanger		Adjustable unit for carrying an external antenna.	4100079
Afi2GO Utility belt		Utility belt to carry Afi2GO and Afi2GO antenna.	4100077
Antenna harness		Adjustable leash to hold the Afi2GO antenna.	4100083
Elastic pullback extension		Elastic leash to extend the range of the harness.	4100082
Antenna hanger clips		Dual purpose clips: Connect the harness to the Afi2GO antenna and the antenna to the antenna belt hanger	4100081
Afi2GO holster and antenna hanger assembly		An assembly that includes all the Afi2GO holsters.	4100084
Afi2GO carry-on assembly		For storing all the Afi2GO assembly and accessories	4100087