# The F@rmsoftwarepack



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1. Preface	4
1.1 Introduction	4
1.2 Description of the F@rmsoftwarepack	4
2. Installation	6
2.1. Installation with Active Sync	6
2.1.2 Installation with a Cab-file	7
2.2 Program start	7
3. Guidomat	8
3.1 Activation	9
3.2 Setup	.10
3.2.1 Settings	.11
3.2.2 GPS-Settings	.12
3.2.3 Data transfer via E-Mail	.14
3.3 The Main screen	15
3.3.1 GPS Status	16
3.4 Guidomat functions	.17
3.4.1 Navigating with Guidomat	.17
3.4.2 Using Surveyomat files in Guidomat	20
3.4.3 Data transfer via E-Mail	21
3.4.4 Evaluation on the Pocket PC	22
3.4.5 Navigation back to a track	23
3.4.6 Exit	25
3.4.7 Evaluation in Google Earth	.26
4. Surveyomat	28
4.1 Activation	29
4.2 Setup	30
4.2.1. Settings	30
4.2.2 GPS-Settings	31
4.2.3 Datatransfer via E-Mail	33
4.3 The Mainscreen	34
4.3.1 GPS Status	35
4.4 Surveyomat functions	36
4.4.1 Surveying a field	36
4.4.2 Recording Soilsamples and Obstacles	38
4.4.3 Working with Surveyomat.files	40
4.4.4 Navigating with Surveyomat	42
4.4.5 Evaluation in Google Earth	44
4.4.6 Draw an Area in Google Earth with Add Path	45
4.4.7 How to print in Google Earth	47
5. Imprint	49



# Preface

Welcome to the F@rmsoftwarepack userguide. This Softwarebundle contains the fieldnavigation / guidance tool Guidomat and the area measurement tool Surveyomat.

### **1.1 Introduction**

**Guidomat** is a software programme for Pocket PCs. With this software you can increase your accuracy in parallel navigation on a field similar to a foammarker. You can choose between parallel and contour driving.

The received data is saved in a \*.kmz file and can be sent via mail and be evaluated in Google Earth.

**Surveyomat** is an application for recording field surveys and soil samples, Using Google Earth, the recorded data can be displayed over satellite pictures. The actual size is directly calculated on the Pocket PC. Recorded data may be sent to your PC via mail.

If you have purchased a satconsystem kit like the F@rmphone or the F@rmPDA, the device is ready for use! The software is already installed and all important settings (like the GPS Setup) have been made.

#### **1.2 Description of the F@rmsoftwarepack**

Guidomat is a parallel/contour driving-aid, when spraying, spreading fertiliser and harvesting. Depending on the field boundary a choice between parallel and contour driving is available. For parallel driving, point A is recorded at the beginning point B is recorded at the end of the first line. From this line Guidomat calculates the parallels for the rest of the field. The generated file is saved as a \*.kmz file which can be opened in Google Earth and evaluated.

Surveyomat is software for surveying your fields by GPS. By driving around the field, field boundaries are recorded and the areas are calculated. Field areas, Soilsample positions and Obstacles are recorded. This date can be used to return to the Soilsample positions and avoid Obstacles.

The software automatically records data in \*.kmz files, which allows the data to be overlaid on the free PC software Google Earth. Importantly the data can be used in the Pocket-PC software Guidomat, which is for parallel driving.

The Google Earth software can be downloaded free at <u>www.earth.google.de/downloads.html</u>.

If a version of Google Earth is already installed on your PC, please check if it's the latest version. Start Google Earth and click <help> and <check for updates online>. Google Earth will automatically check if a new version is available.



# Attention: To view and evaluate Guidomat Data properly Google Earth 4.0 or higher is recommended

All kinds of Pocket PC's, Mobile phones with a Pocket PC operating system with an integrated GPS receiver, as well as devices with a serial port or Bluetooth GPS Receiver can be used.

The Screenshots in this manual are taken from a Pocket PC ASUS P526.

The Software is built for Windows Mobile 2003; Windows Mobile 5.0 or higher, with a resolution of 320x240, 240x240 and 640x480. All Pocket PCs with or without integrated phone/ GPS receiver which have been tested work without error.

If your Pocket PC should have problems with displaying or software functions please send a mail with a short description of the error to <u>info@satconsystem.de</u>. Please don't forget to specify exactly which Pocket PC is used.

Trademarks in text like Pocket PC, Windows Mobile, Google Earth, Guidomat etc. are the properties of the different companies.

We are delighted that you have decided to install the F@rmsoftwarepack on your PDA.

The following Manual is very extensive and will help untrained Pocket PC users step by step through installation and use of the software.



### 2. Installation

#### 2.1 Installation with ActiveSync

Attention: Activesync must be installed first and the Pocket PC has to be connected to the PC

Start the application Guidomat on your PC with a double click.

arm_Software		Haricateorian	X
Pocket PC installation			
Farm_Software will be installe	ed on your Pocket PC n	wc	
Farm Software by SATCONSYS	TEM.		
SATCONSYSTEM			
Bundesstrasse 7			
97531 Obertheres Germany			
			Course
	< <u>B</u> ac	K. <u>Next&gt;</u>	Lancel

Click **<Next>** to start Installation.

License Agreement Please read the following license ag	reement carefully.
050 5	1 Si 10
You and satconsystem agree that your	order is an offer to purchase the products listed in your
order ("Products") on the terms and cor ("Agreement") when accepted by satoc order or when satconsystem ships to yo and the banking, negotiation or other u satconsystem. When you send your ord constitute your agreement to these term the legal authority to enter into this Agree This Agreement may not be altered, sup	nditions listed below which will become a contract onsystem via confirmation that specifically references your to the Products you ordered, whichever occurs earlier, se of any payment shall not constitute an acceptance by fer to purchase Products to satconsystem, that order shall as and conditions of purchase. You represent you have sement on behalf of yourself or any party you represent. optimented, or amended by the use of any other
order ("Products") on the terms and cor ("Agreement") when accepted by satoc order or when satconsystem ships to yo and the banking, negotiation or other u satconsystem. When you send your ord constitute your agreement to these term the legal authority to enter into this Agre This Agreement may not be altered, sup C Laccept the terms in the license agr	nditions listed below which will become a contract onsystem via confirmation that specifically references your in the Products you ordered, whichever occurs earlier, se of any payment shall not constitute an acceptance by fer to purchase Products to satconsystem, that order shall is and conditions of purchase. You represent you have sement on behalf of yourself or any party you represent optimented, or amended by the use of any other eement

In the next window the **License Agreement** appears. If you accept the terms in the Licence agreement of Satconsystem, please click **<I accept>.** 

Then click <finish>.



wendunger	ı werden installiert	
SATCONSYS	TEM Farm Software wird installiert	
<u> </u>		
	Abbrechen	
	Abbrechen	



If the Pocket PC is on and connected to the PC, the software is installed automatically.

> When the Installation is finished, please click **<OK>.** All further steps are performed on your Pocket PC.



On Your Pocket PC an installation window appears. Please Confirm with **<Yes>**. The next screen asks you to choose a destinationpath. Select device if possible.





After a successful installation, this screen appears. Please click **<OK>** in the upper right corner of your display to get back to the Main Menu.



### 2.1.2 Installation with a Cab file

狩 Datei-Explorer	<b>a</b>	Ÿ, <b>4</b> € 🗙
📱 Storage Card 🗸		Name 🗸
DestinatorApps		
📙 My Documents		
Parmsoftware	11.08.08	3,96M
Storagecard	12.08.08	44,6K

The Installation via a \*.cab file is recommended only for advanced users.



#### 2.2 Program start



The F@rmsoftwarepack creates 2 Buttons on the mainscreen of your PDA. To access one of the programs click the button.







# 3.1 Activation

😽 Guidomat	# ◀€ 11:49 🗙
Activation code	
5bbf16303e	1
Activation passwor	d
Please, activate G	uidomat. You'll have
your track cleane until you acti	d every 15 minutes vate your copy.
Ok	Cancel
	Page 1

After starting Guidomat, this window appears. To use Guidomat in Demo Mode click **<Cancel>.** 

After you have purchased the programme, get your Activation password from info@satconsystem.de.

20	Gui	don	nal				-	4	÷ 1	1:5	1	×
Activ	vat	ion	co	de								
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oci al o	11		<del>"</del>		E	-	ŝ.		<b>▼</b>			

After you have received your Activation Code, please type it in the field below **<Activation password>.** Please confirm by clicking **<OK>.** 







#### 3.2 Setup

If you have purchased a satconsystem kit like the F@rmphone or the F@rmPDA the device is ready for use! The software is already installed and all important settings (like the GPS Setup) have been made.

Settings	No Fix	Jobs	×
	0 m		
0 ha		01	m/h
NMEA		D	)P: 0

Before using Guidomat, you should customize it to your requirements. Please click **<Settings>** to enter the Settings Menu.





#### 3.2.1 Settings

😽 Guidomat	at 7ji 4€ 🗵			
Language:	English	¥		
Unit:	Metric (Ha)	~		
Min speed:	1 km/h	~		
Offset: 🔍	1 - 0 m	+		
Guiding:	contour			
Working width:	😑 12 m	+		



Attention: After installation, the software is in the English language.

To change the **Language**, click on the arrow, scroll up or down to select your preferred language in the Menu.

Caution: Only select a known language or it may not work with your Operating System.

If your language is not integrated in the software please write us an E-Mail to info@Satconsystem.de. We will contact you to find a solution.

Units of measurement:	For Europe; metric units (Km/h, m) For U.S. and UK; imperial units (mph and ft) At sea; (Nautical miles) can be selected.
Minimum Speed:	Select here to record the Minimum Speed for the Guidomat.
Offset adjustment:	For advanced users. To alter the calculation position of the GPS ahead or behind of its true position.
Guiding:	For irregular edged fields select Contour, and for straight boundaries use Parallel.
Working width:	The working width of the farm machine which is currently in use.
NMEA:	A GPS protocol. Most devices on the market and all satconsystem devices use this protocol as standard.
SiRF:	Another GPS protocol, which finds use in our software only for very special needs. This protocol is not described in detail, for switching into this mode and the use of it requires great know how and an in-depth knowledge of the GPS system.



## 3.2.2 GPS-Settings

SIRF

**GPS** Setup

😽 Guidomat	# 7∥ +€ 🗵			
Language:	English 🔻	-		
Unit:	Metric (Ha) 🛛 🔻	1		
Min speed:	1 km/h 🔻			
Offset:	/ 🗖 🕤 Öm 🤘			
Guiding:	contour			
Working width:	😑 12 m 🔶	1		

NMEA

Back

Click on **<GPS Setup>** to perform further change of settings.

If your Pocket PC is not a F@rmphone or a F@rmPDA select the connection to the GPS receiver.



Click **<Scan>** to find a suitable port automatically.

Info: The blue circle indicates from which satellites your GPS is receiving signals

GPS Status: No GPS Data received.

No Fix: Connected but no position data received.

**GPS Fix:** Position Data received and ready to use.



😚 Guidomat	<b></b>	Ÿ <u>i</u> 4€ 🔀
		2
	N	
W	K	
	s	
Sear	china	
		Cancel

On the display you can see the progress of the scan.

😚 Guidomat		Y₁ ◀€ ok
GPS found		
GPS found on COM1: @	¥800.	Use it?
Ye	s	No

If a GPS signal was found confirm with **<Yes>.** 



#### 3.2.3 Data transfer via E-Mail



Back

GPS Setup

In **<Email>** settings a maximum of 3 E-mail addresses may be selected to receive records of work done.

at 7 🕂 🗙
atconsystem.com
Back

Here full E-Mail Addresses can be entered.

Set up an E-Mail account in your Pocket PC before entering the addresses.

Consult the User Manual of your Pocket PC for further Guidance.



#### 3.3 The Mainscreen





#### 3.3.1 GPS Status

Without a valid GPS signal, the Guidomat will not start recording. Check in the middle of the screen at the top for the GPS status to make sure of a consistent recording. Three states of GPS connection can be displayed.

- **GPS Status:** No GPS receiver is connected or a wrong port is selected. Please check your GPS receiver and settings.
- No Fix: A GPS signal was received, but a valid position could not be calculated. If the equipment has been moved a large distance, the receiver may take time in calculating the new position, please wait a few minutes. Reception may be blocked by tall buildings. Please check whether there is unobstructed view of to the sky".
- **GPS FIX:** Valid GPS position data is received.



## **3.4 Guidomat functions**

Navigation on the field and evaluation in Google Earth are now explained in detail. A Voice module has been integrated in this software which gives acoustic navigation instructions.



Attention: If this feature distracts you please mute your PDA. We will improve this feature in future updates.

# 3.4.1 Navigating with Guidomat



Click <Jobs>.





😚 Gu	idoma	t			<b></b>	ĭ ≺	< 🗙
Do	you w	ant	to s	tart	nev	v jol	0?
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oryjoyii	<u> '' </u> #		91111 91111 10000	¢.	1+	<u> </u> T	



Please click <New.>

After a new field is opened, a \*.kmz file and all progress of measurement are automatically saved to the Memory of your PDA or your Storage card. (Program must be ended regularly or a new field has to be started)

Guidomat automatically prompts a field number. If you wish to write another name or number, write it.

Click < +/- > to record the working width of the machine.

Click <OK>

This Screen appears on your display and you can start guidance.







Click **<Start>** to begin the recording and then click **<A>**.

Drive to near the end of the field and click  $\langle B \rangle$ .

This sets up parallel lines for the entire field.

At the headland click <Pause>.

Click **<Start>** when ready to start new row.

While working the tracks are recorded in green.

The green circle, green line and red Bar signify the width and position of your machine. The green arrows of the lightbar direct you to the correct parallel position.



The lightbar guides you to the next row.

Remember to click **<Start>** at the beginning of the next row.



DGPS

0 m

Guidomat\_2007-10-17\_02

Jobs

×

9.5 km/h

DOP: 1.6

Settings

0 ha

NMEA







## 3.4.2 Using Surveyomat files in Guidomat

If the fields have already have been measured with Surveyomat, this Data can be used and processed in Guidomat.

Settings	)? No Fix	Jobs 🗙
	0 m	
0 ha NMEA		0 km/h DOP: 0
Q	. 100 m	÷
Start	Load field	A B Exit

Click **<Load field>** to look for Surveyomat Data you want to access.

Caution: Make sure that you retain your Fielddata on your Pocket PC after copying the data to your Desktop PC.



Click the relevant field.

Click **<OK>** to open that field.

Now you can work in the selected field.



#### 3.4.3 Datatransfer via E-Mail



Click <Jobs> to send field data.



Statistics		Send	X
J Guidomat_	2008-08-01	_02	
🍠 Guidomat_	2008-08-01	_01	
🍠 Guidomat_	2008-03-06	_06	
🍠 Guidomat_	2008-03-06	_07	
🍠 Guidomat_	2008-03-06	_08	
🍠 Guidomat_	2008-03-06	_09	
🍠 Guidomat_	2008-03-06	_05	
${\it J}$ Guidomat_	2006-09-01	_01	
Select	Now	Dal	lata
Belett	New	De	lete

After you have finished your work in the field, you can select it and others and send via E-mail (refer to 2.3.3) By clicking on **<Send>.** 



# 3.4.4 Evaluation on the Pocket PC



Click on **<Jobs>** to evaluate Fielddata.



Statistics		Send	×
J Guidomat_	2008-08-0	1_02	
🍠 Guidomat_	2008-08-0	1_01	
🍠 Guidomat_	2008-03-0	6_06	
🍠 Guidomat_	2008-03-0	6_07	
🍠 Guidomat_	2008-03-0	6_08	
🝠 Guidomat_	2008-03-0	6_09	
🝠 Guidomat_	2008-03-0	6_05	
🝠 Guidomat_	2006-09-0	1_01	
Select	New	De	elete

Choose a field and click **<Statistics>** to display the evaluation of the field.





In Statistics, you find the recorded data, the area, the distance travelled and the maximum speed.

3.4.5 Navigation back to a track



After clicking **<Jobs>** you get in this screen.

Select a field and click <Statistics>.





Square: 0.0890 ha Circumference: 178 m Max DOP: 0.8 Max Speed: 16.2 km/h

Click <Navigation>

The software will navigate you back to the track

Now you find the Buttons **<Prev>** and **<Next>.** Here you can select between the different set points eg. "A" the start point of Tracknavigation.



### 3.4.6 Exit



Click **<Exit>** you can leave the application and return to the Mainwindow.



😚 Guidomat	#‡ ¥i ∢€ 🔀
Warning	

	Do you	want to	o exit?	
	Yes		No	
_				

Click <Yes> to confirm



#### 3.4.7 View in Google Earth

To import Fielddata in Google Earth, connect your Pocket PC to your desktop PC and start Active Sync.

Now you have access to your Pocket PC via the File explorer.

Open the Explorer.

😂 Surveyomat			
Datei Bearbeiten Ansicht Favoriten Extras	7		
🔇 Zurück 🔹 🕥 - 🎓 🔎 Suchen 👔	> Ordner		Adresse
Ordner	< Name 🔺	Größe Typ	Geändert
	<ul> <li>Surveyomat_2006-09-01_01</li> <li>Surveyomat_2006-09-01_01</li> <li>Surveyomat_2007-09-10_01</li> <li>Surveyomat_2007-09-10_02</li> <li>Surveyomat_2007-09-10_04</li> <li>Surveyomat_2007-09-10_04</li> <li>Surveyomat_2007-09-10_06</li> <li>Surveyomat_2007-09-10_06</li> </ul>	2,27 KB Goog 115,8 KB Goog 16,7 KB Goog 16,7 KB Goog 16,7 KB Goog 16,6 KB Goog 17,2 KB Goog 17,2 KB Goog 17,0 KB Goog	e Earth-KM2 01.09.2006 19:51:36 e Earth-KM2 05.11.2007 20:39:58 e Earth-KM2 10.09.2007 15:03:12 e Earth-KM2 10.09.2007 08:29:10 e Earth-KM2 10.09.2007 08:29:10 e Earth-KM2 10.09.2007 20:16:16 e Earth-KM2 10.09.2007 20:12:22 e Earth-KM2 05.11.2007 20:32:20
( Objekt/e) markiert	Mobiles Gerät		

Double click My Computer, then Mobile Device. Your F@rmphone data is stored in the SDMMC folder within the Mobile Device folder (For other Pocket PCs the files will be in the Mobile Device folder)

Here all field data are located in \*.kmz files ready for illustration in Google Earth. Please copy them.



Please put the data in a folder which is suitable for field measurement.

By Double-clicking on the file Google Earth is started and directly shows the processed field.

Attention: Google Earth must be installed on your PC



Soogle Earth			
Datei Bearbeiten Ansicht Tools Hinzufügen	Hilfe		
▼ Suchen	🔲   🛠   🧷 🍪 🥪   🚦   (		
Anfliegen Branchen Wegbeschreibung		T	Guidomat_2007-10-30_01
Anfliegen Bsp: München			
) I X	A CAR	E E	
▼ Orte Inhalt hinzufügen	1 Alt Marsh		
B			
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Ansicht: Hauptebene			1
Celânde     Gegrafie im Web     Straßen     Straßen     Gebädde     Geografie im Udeb     Geobädde     Gerzen und Labels     Gelarie     Goldene Denken	Zeiger 47°30'43.13° N 8°03'49.91° O	© 2007 Europa Tochnologies © 2007 Tole Atlas Hohe 588 m Obertragung (IIIIII) 99%	*## Google Sichtfröhe 2,29 km

Here you can see the field and the recorded Track. In Google Earth further notes can be inserted.



# Surveyomat Manual





# 4.1 Activation

<b>%</b> 5	urveyo	mat	4	<b>* 4</b> € 11	:44 🗙
Activ	ation co	de			
5bbi	f16303	Be			12
Activ	ation pa	assword	1		10
	- OÀ				
Pleas not met	se, activ measur sers² ur	vate Su e fields Itil you	rveyoi great activa	mat, You er than : te your (	u can 1000 topy.
	Ok	Ē		Cance	
Series	urveyo ation co	mat ode	÷	<b>* 4</b> € 11	:46 🗙
5bbt	16303	3e			
Activ	ation pa	assword	i i		
3					
Pleas not met	se, activ measur :ers² ur	/ate Su e fields htil you	irveyoi great activa	mat. You er than : te your (	и сап 1000 сору.
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123 1	23	1 5 6	78	90	6 · 🔶
<u></u>	a s d	fg	h j	k   l	ö ä
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strg  syl	I ^ #	1		+ .	·   ←   →
-		-	00		
Setti	ings	3 St	atus	Fields	
Se	ollsam	ple		Obsta	le
	Congr	atulati	on!	ol	
0 ha NME/	You h activa progra	iave sui ted you am!	ccessfi ur cop	ully y of the	km/h DP:0
$\Theta$		10	0.0		<b>(</b>
-		10	UM	and the second	
Meas	stire	Delet	16	Clear	Exit

After starting Surveyomat this window appears. To use Surveyomat in Demo Mode click **<Cancel>.** 

After you have purchased the programme, get your Activation password from info@satconsystem.de.

After you have received your Activation Code please type it in the field below <Activation password>.

Please confirm by clicking **<OK>**.



### 4.2 Setup



Before using the Application, you should customize it to your requirements. Please click **<settings>** to enter the Settings menu



#### 4.2.1 Settings

😽 Surveyomat	#* 7¦  4€ 🗵	]
Language:	English 🔻	7
Unit:	Lithuanian Czech	
Min speed:	English	
Offset: 🬾	Suomi 🔹 🚽	



# Attention: After installation the programme is in the English language.

To Change the Language, click on the arrow, scroll up or down to select your preferred language in the Menu.

Language: Only select a known language or you may not be able to return to the operating system!

If you find a language not integrated in the software please write us an E-Mail to <u>info@satconsystem.de</u>. We will contact you to find a solution.

Units of measurement:	For Europe; metric units (Km/h, m) For U.S. and UK; imperial units (mph and ft) At sea; (Nautical miles) can be selected.
Minimum Speed:	Select the minimum speed here, recommended "0" to record corners of fields
Offset:	If the GPS receiver in not over the boundary of the field, measure that distance and click the arrow Left or Right and $< +/- >$ to adjust the offset distance.



#### 4.2.2 GPS Settings

😚 Surveyomat	# %  4€ 🗵			
Language:	English	▼		
Unit:	Metric (Ha)	∀		
Min speed:	0 km/h	~		
Offset:	⇒ -) 0 m	+		

Click on **<GPS Setup>** to perform further change of settings.

If your Pocket PC is not a F@rmphone select the connection to the GPS receiver.





Click **<Scan>** to find a suitable port automatically

Info: The blue circle indicates from which satellites your GPS is receiving signals

No GPS Data received
Connected but no
position data received
Position Data received
and ready to use



😚 Surveyomat	🚓 🖓 剩 🔀
	1900 - Contract - Cont
" A	
s	
Searching	9
	Cancel

On the display you can see the progress of the scan.

😚 Surveyomat		Ÿı ∢€ ok
GPS found		
GPS found on COM	41: @ 4800	. Use it?
	Yes	No
Yes		No

If a GPS signal was found, confirm with **<Yes>.** 



#### 4.2.3 Data transfer via Email

😚 Surveyomat	# %i ◄	< 🗙
Language:	English	▼
Unit:	Metric (Ha)	~
Min speed:	0 km/h	⊽
Offset:	⇒ -) 0 m	+

In **<Email>** settings up to 3 E-Mail Addresses can be selected, where the measurement data will be sent to



😚 Surveyomat	#* ¥i 4€ 🔀
Address 1	atconsystem.com
Address 2	
Address 3	
EMail account	~

Here full E-Mail Addresses can be entered

Set up an E-Mail account in your Pocket PC before entering the addresses.

Consult the User Manual of your Pocket PC for further Guidance.

	1	e	st							Ba	ack	¢	
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Ŷ	1	a	s	d	f	g	h	j	k	1	Ö	ä	
Û		Y	x	C	V	b	n	m	i,	e de			-
Strg	Sy	n -	~	#	,				-	4	1	+	+
						ţ,	iii -						



#### 4.3 The Mainscreen





#### 4.3.1 GPS Status

Without a valid GPS signal, the Guidomat will not start recording. Check in the middle of the screen at the top for the GPS status to make sure of a consistent recording. Three states of GPS connection can be displayed.

**GPS Status:** No GPS receiver is connected or a wrong port is selected. Please check your GPS receiver and settings.

- No Fix: A GPS signal was received, but a valid position could not be calculated. If the equipment has been moved a large distance, the receiver may take time in calculating the new position, please wait a few minutes. Reception may be blocked by tall buildings, please check whether there is "unobstructed view of the sky".
- **GPS FIX:** Valid GPS position data is received.



# 4.4 Surveyomat functions

Surveying of a field and evaluation in Google Earth are now explained in detail.

### 4.4.1 Surveying a field

Settings	No Fix	Fields 🗙
Soilsam	ple	Obstacle
NMEA		0 km/h D0P: 0
Q Measure	100 m Delete	Clear Exit
Statistics	iat 📇 🧎	All 4€ 15:39 X
F S F S Do yo	u want to s	tart new
F   S     F   S     F   S     F   S     Can     F   Surveyonia	field? nat_2007-1	0k
# S         # S         # S         # S         # S         # S         Can         # Surveyona         Select	field? mat_2007-: cel (_2007-10-0 New	Ok Delete

Click <Fields>

Click <New>

Surveyomat automatically prompts a field number. If you wish to write another name or number, write it.

Click **<OK>.** 

With the **<Delete>** button you can also delete existing fields





This Screen appears on your display and you can start surveying by clicking on **<Measure>.** 

Click **<Pause>** to do a break or stop surveying

As you record the boundary, an approximate area of the field is shown on the screen, on the left and near the top.

When the surveying is completed, record Soilsamples and Obstacles.



#### 4.4.2 Recording Soilsamples and Obstacles



When the surveying is completed the button **<Pause>** can be clicked. The surveying is stopped.

Now you can record a soil sample position

Click <Soilsample>.



Please give the Soilsample a name and confirm with **<OK>**.





To record obstacles, go to the tree, manhole cover, rock outcrop or other obstacle and at the position click **<Obstacle>.** 

Info: Recording obstacles assists other drivers at a later date.



Name the Obstacle.

Click <OK>.



# 4.4.3 Working with Surveyomat Files



You can re-examine details of surveyed fields at any time.

To do this please click **<Fields>.** 

Statistics Send X
F tzuide
F Surveyomat_2007-10-17_02
F Surveyomat_2007-10-17_01
F Surveyomat_2007-10-09_01
F Surveyomat_2007-10-08_04
F Surveyomat_2007-10-08_03
F Surveyomat_2007-10-08_02
F Surveyomat_2007-10-08_01
F Surveyomat_2007-09-25_01
F Surveyomat_2007-09-16_01
Select New Delete

Now please choose the relevant field and click **<Statistics>.** 





Square: 1.3575 ha Circumference: 509 m Max DOP: 2.9 Max Speed: 19.5 km/h Soilsamples: 3 Obstacles: 1

On this screen soil samples and obstacles can be seen.

The blue line shows a scale.

Below the area, circumference, max DOP, max speed, number of soil samples and number of obstacles recorded.

Statistics	Se	nd X
<b>F</b> tzuide		
$I\!$	_2007-10-17_02	2
$I \!$	2007-10-17_0	L
${I\!$	_2007-10-09_01	L
${I\!$	_2007-10-08_04	1
$I\!$	_2007-10-08_03	3
$I \!$	_2007-10-08_02	2
$I \!$	_2007-10-08_01	by the second
F Surveyomat	_2007-09-25_01	L
F Surveyomat	_2007-09-16_0	L
Select	New	Delete

Please click on **<Send>** to send field data via e-mail. *Reminder! The E-mail will be sent to those addresses already setup in the Settings.* 







To return to a specific soil sample position click the field and click **<Statistics>.** 



Circumference: 509 m Max DOP: 2.9 Max Speed: 19.5 km/h Soilsamples: 3 Obstacles: 1

Now, with a click on **<Navigation>** you can let the software guide you to certain points of your recording.





By Clicking **<Next>** or **<Prev>** you can choose which of the different Soilsamples and Obstacles to return to.

Immediately after clicking the button navigation starts guides you to the position.



Click **<Back>** to return to the Start screen.



#### 4.4.5 Evaluation in Google Earth

To import Fielddata in Google Earth, connect your Pocket PC to your desktop PC and start Active Sync.

Now you have access to your Pocket PC via the File explorer.

#### Open the Windows Explorer.



Double click <My Computer>, then <Mobile Device>. Your F@rmphone data is stored in the SDMMC folder within the Mobile Device folder (For other Pocket PCs the files will be in the Mobile Device folder).

Here all Fielddata are located in \*.kmz files ready for illustration in Google Earth. Please copy them.



Please copy the field data files to a folder which you have prepared for this information.

By Double-clicking on the file Google Earth is started and directly shows the relevant field.

Reminder! Google Earth must have been installed on your PC!





Here you can see the field and the recording route. The Window in the middle gives Information about the acreage and other statistical values.

#### 4.4.6 Draw an Area in Google Earth with Add Path

You can draw free-form paths into the satellite image and save them in your *My Places* folder just as you would a placemark. Paths share all the features of placemark data, including name, description, style view and location. Follow the steps below to draw a path into the satellite image.

Position the satellite image so that it contains as much as possible of the region that you want to mark. The more detailed your view, the more closely your drawing can follow the land feature. From the Add menu, select *Path*. The New Path dialogue box appears and the cursor changes to a square drawing tool.

Change the style colour (Style, Colour tab) for the line from the default white to better visualise the shape that you are about to try. Click in satellite image to start your drawing and use the following methods to achieve your desired shape:



- Free-Form shape Click once, <u>hold and drag.</u> The cursor changes to an up arrow to indicate that you are using free-form mode. As you drag the cursor around the satellite image, the outline of the shape follows the path of your cursor. A line appears as a result
- Standard shape Click and release. Move the mouse to a new point and click to add additional points. In this mode, the cursor
   Add path remains a square drawing tool.

📚 Google Earth		
File Edit View Tools Add Help	x 0000 1 1 2 0 1 1 2 0	
Fly To Find Businesses Directions Fly to e.g., Reservoir Rd. Clayville, NY theres	a lie -	-
Google Earth - Edit Path Name: Schloonsystem Description Style, Color: View Atitude Description:		
OK Cancel	The Selfer was	

You can use a combination of these drawing modes to combine curved edges with straight edges. To transition from free-form mode to standard mode, just release the mouse button, position the pointer to a new place and click. A straight edge is drawn between the last point and the most recent one. Reverse the process to enter free-form drawing mode again.

Ede View Iools	Add Help	- 11 - 12 - 12 - 12 - 12 - 12 - 12 - 12	10
Open	Ctrl+O	🛄 😵	0.000
Save	¥.	Save to My Places	Ctrl+Shift+S
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imal 🕨		Save My Places	
Share / Post		Save Image	Ctrl+At+S
View in Google Maps	Ctrl+Ait+M		
Print	Ctrl+P	State of the	100
Server Log Out		100	
Ext		- C. C.	

To save the area please click **<File> - <Save> - <Save Place as>** and give the kmz file a name referring to the content of the file.



# 4.4.7 How to print in Google Earth

When the \*.kmz file oft he surveyed field is opened in Google Earth, it can be printed with all information like area, obstacles and soil samples.



In order to print, highlight the filename in the **<Places>** window (here Feld 1.kmz). Then click on <file> and then <print>





After clicking **<Print>** this window opens.

0	Graphic of 3D View
	Print the current 3D view at the desired quality.
	Screen (1028 x 706)
	🕐 Low (1000 x 687)
	Medium (1400 x 961)
	Most recent Search Results
	(No search results)
۲	Selected Folder in My Places
	Print descriptions of the Placemarks in the folder: edeka2.

Select the second Button and click <Print>.

Now Google Earth prints the statistic Data and the field (in colour).

Example:





# 5. Imprint

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