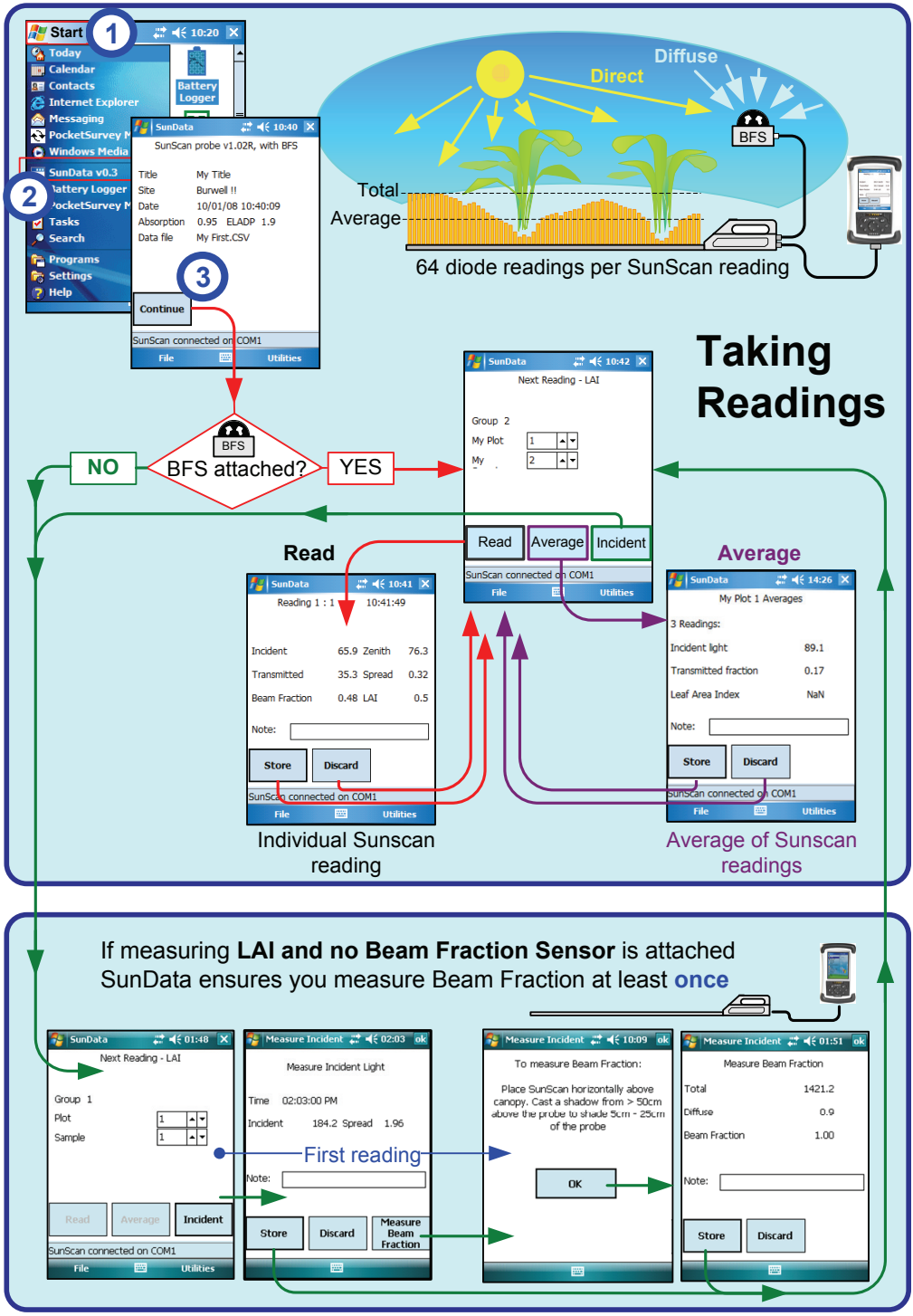
SS1 SunScan

Canopy Analysis System

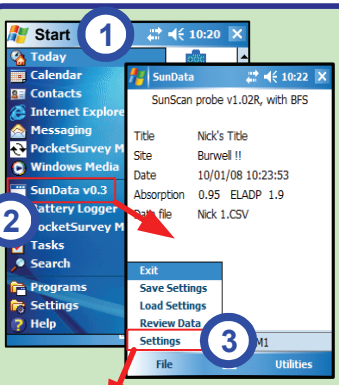
Quick Start Guide *Version 2.0*

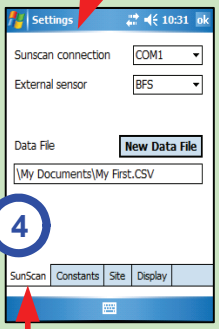
Delta-T Devices Ltd


Start
Today
Calendar
Contacts
Internet Explorer
Messaging
PocketSurvey
Windows Media
SunData v0.3
Battery Logger
PocketSurvey
Tasks
Search
Programs
Settings
Help
Battery Logger
SunData
SunScan probe v1.02R, with BFS
Title My Title
Site Burwell !!
Date 10/01/08 10:40:09
Absorption 0.95 ELADP 1.9
Data file My First.CSV
Continue
SunScan connected on COM1
File
Utilities
1
2
3
Direct
Diffuse
BFS
Total
Average
64 diode readings per SunScan reading
Taking Readings
BFS
BFS attached?
NO
YES
Next Reading - LAI
Group 2
My Plot
Read
Average
Incident
SunScan connected on COM1
Read
Reading 1 : 1
10:41:49
Incident 65.9 Zenith 76.3
Transmitted 35.3 Spread 0.32
Beam Fraction 0.48 LAI 0.5
Note:
Store
Discard
Individual Sunscan reading
Average
My Plot 1 Averages
3 Readings:
Incident light 89.1
Transmitted fraction 0.17
Leaf Area Index NaN
Average of Sunscan readings
If measuring LAI and no Beam Fraction Sensor is attached
SunData ensures you measure Beam Fraction at least once
Next Reading - LAI
Group 1
Plot
Sample
Measure Incident Light
Time 02:03:00 PM
Incident 184.2 Spread 1.96
First reading
Measure Beam Fraction
To measure Beam Fraction:
Place SunScan horizontally above canopy. Cast a shadow from > 50cm above the probe to shade 5cm - 25cm of the probe
OK
Total 1421.2
Diffuse 0.9
Beam Fraction 1.00

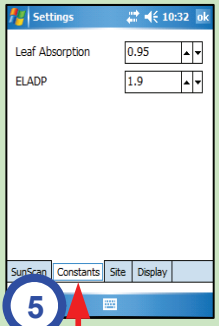
v0.d 24/4/08

Example: Set up to measure Leaf Area Index

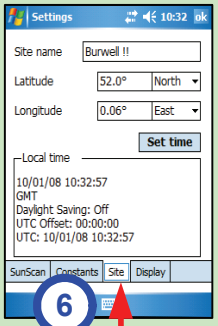




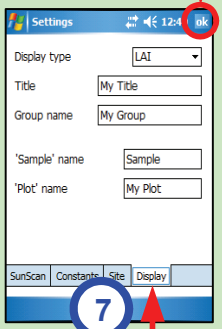
Set PDA **COM** port.
Declare if **BFS** sensor connected.
Create a **new data file.**



Specify Leaf Area Index **Constants**



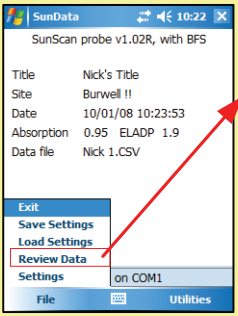
Specify the **Site** and set the **time**

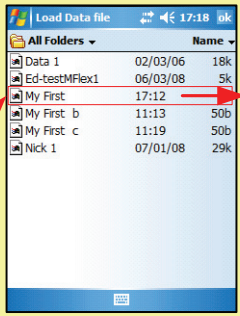


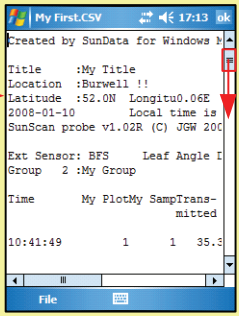
Display type: select **LAI, PAR** or **All** (64 individual readings).
Title, Group, Sample and **Plot** names are optional

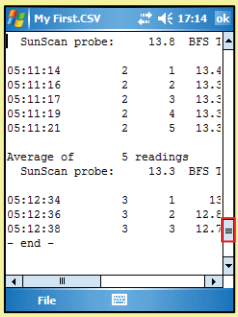
Review Data

Load file and scroll

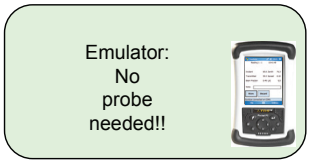




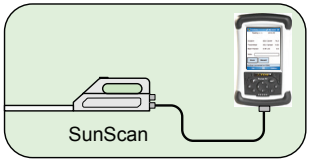




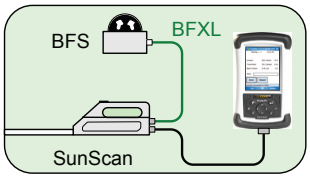
Possible SunScan System Combinations



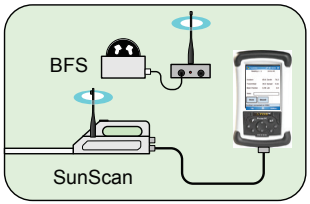
In Emulator mode the PDA running SunData software can simulate SunScan and BFS sensor



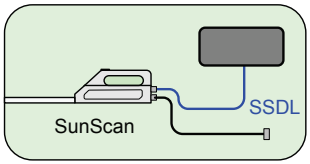
SunScan SS1
+ PDA running SunData



SunScan SS1
+ BF3 (any BFS)
+ BFDL cable
+ PDA running SunData

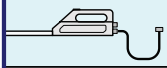
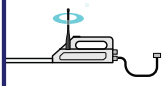


Radio version:
SunScan SS1-RL4
+ BF3 or BF2
+ BF-RL4
+ PDA running SunData



Sunscan
+ cable SSDL
+ analogue data logger.

SunScan Parts

	SS1	SunScan probe no radio
	SDA2	SunData software for Windows Mobile
	RPDA-1	Ruggedised PDA running Windows Mobile 5 or 6
	BF3	Sunshine Sensor
	BF-RL4	Radio transmitter for BF3 or BF2, links to SS1-RL4
	SS1-RL4	SunScan Probe + radio receiver (434 MHz) links to BF-RL4
	SS-TD	Telescopic tripod for BF3 (BF1, BF2)
	SS-HB1	Holster Belt for PDA and Sunscan
	SS-PC1	PDA carry case
	SCC1	Carry case for SunScan system
	BFXL-XX	BF3 to SS1 connecting cable XX=10, 25 or 50m
	SSDL10	Logger cable for SS1

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