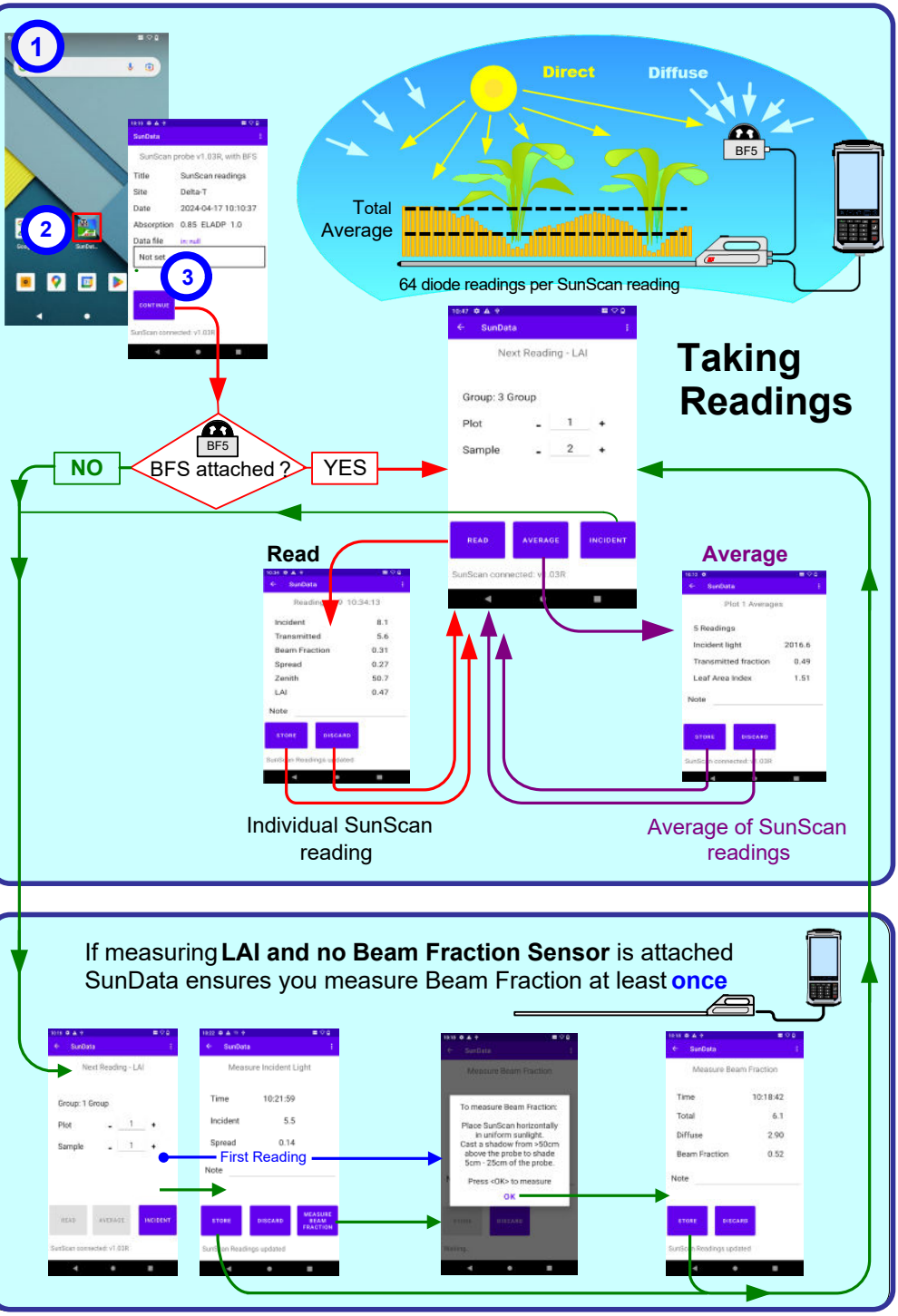
SS1 SunScan

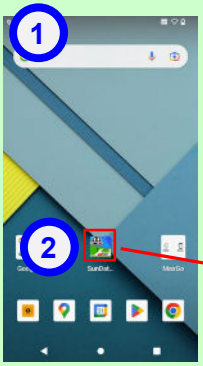
Canopy Analysis System

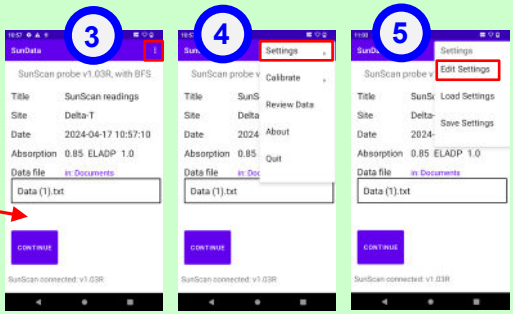
Quick Start Guide Version 3.2

Delta-T Devices


1
2
3
SunScan probe v1.03R, with BFS
Title SunScan readings
Site Delta-T
Date 2024-04-17 10:10:37
Absorption 0.85 ELADP 1.0
Data file
Not set
CONTINUE
Direct
Diffuse
BF5
Total Average
64 diode readings per SunScan reading
Taking Readings
BF5
BFS attached ?
NO
YES
SunData
Next Reading - LAI
Group: 3 Group
Plot 1
Sample 2
READ
AVERAGE
INCIDENT
Read
Incident 8.1
Transmitted 5.6
Beam Fraction 0.31
Spread 0.27
Zenith 50.7
LAI 0.47
Note
STORE
DISCARD
Average
Plot 1 Averages
5 Readings
Incident light 2016.6
Transmitted fraction 0.49
Leaf Area Index 1.51
Note
STORE
DISCARD
Individual SunScan reading
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 Group
Plot 1
Sample 1
READ
AVERAGE
INCIDENT
Measure Incident Light
Time 10:21:59
Incident 5.5
Spread 0.14
Note
STORE
DISCARD
MEASURE BEAM FRACTION
First Reading
Measure Beam Fraction
To measure Beam Fraction:
Place SunScan horizontally in uniform sunlight.
Cast a shadow from >50cm above the probe to shade 5cm - 25cm of the probe.
Press <OK> to measure
OK
Measure Beam Fraction
Time 10:18:42
Total 6.1
Diffuse 2.90
Beam Fraction 0.52
Note
STORE
DISCARD

Example: Set up to measure Leaf Area Index





You must connect the PDA to a Wi-Fi network first, then adjust the Date & Time settings to match below:
Settings->System->Date & Time->

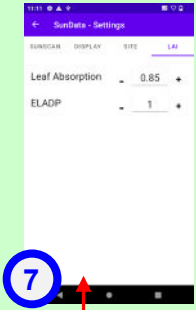
Set Time automatically - set to:
Use network-provided time

Use location to set time zone:
on

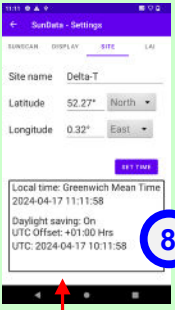
Set PDA **COM** port.

Declare if **BFS** sensor connected.

Create a **new data file.**



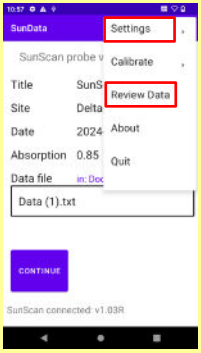
Specify Leaf Area Index **Constants.**

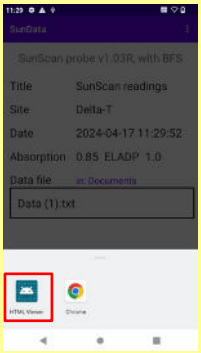


Specify the **Site** and set the **Time.**

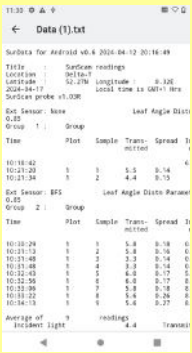
Display type: select **LAI**, **PAR** or All (64 individual readings). **Title**, **Group**, **Sample** and **Plot** names are optional.

Review Current Data File

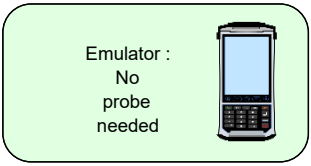




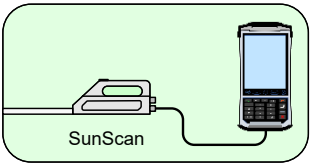
and scroll



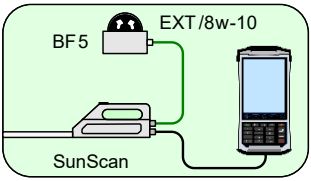
Possible SunScan System Combinations



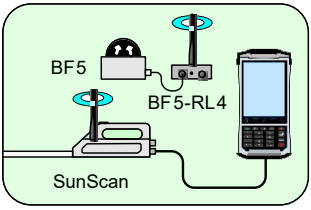
In Emulator mode the PDA running SunData software can simulate SunScan and BF5 sensor



SunScan SS1 + PDA running SunData

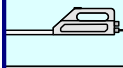
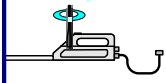
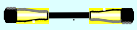


SunScan SS1 + BF5 + PDA running SunData



Radio version SunScan SS1-RL4 + BF5 + BF5-RL4 + PDA running SunData

SunScan Parts

	SS1	SunScan probe no radio
	SDA2	SunData software for Windows Mobile
	RPDA-3	Rugged PDA
	BF5	Sunshine Sensor
	BF5-RL4	Radio transmitter for BF5 links to SS 1-RL4
	SS1-RL4	SunScan Probe + radio receiver (434 MHz) links to BF 5-RL4
	SS-TD	Telescopic tripod for BF5
	SS-HB1	Holster Belt for PDA and SunScan
	SS-PC1	PDA carry case
	SCC1	Carry case for SunScan system
	EXT/8w-10	BF5 to SunScan cable
	EXT/8w-xx	BF5 to SS1 extension cable , x = 5, 10 or 25 m

Delta-T Devices

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