atLEAF

CHL BLUE
chlorophyll meter

Bluetooth®

What is it?

atLEAF CHL BLUE is a powerful, handheld, easy to use device for noninvasively measuring the relative chlorophyll content of green leaf plants. Chlorophyll content can be an indicator of the plant's condition.

for
- The agronomist researcher
- The lab technician
- The agriculturist
- The floriculturist

Great Quality... Low Price

How it works?

Plant chlorophyll content is measured by inserting a leaf into the device aperture. Green leaves of up to 0.1 inch (3mm) thickness can be measured. It only takes one press of the key to perform a basic measurement.

By utilizing the four atLEAF CHL BLUE keys you can:

- assign species names to the measurements; device can store up to 490 names
- view up to 9,554 measurements stored in the device's memory
- delete the most recently performed measurement
- delete all measurements
- transfer plant names to the device or measurements to a computer using the USB mode
- remotely command device and acquire measures through the Bluetooth connection
- display sensor temperature in °F and °C
- display time(*)
- perform and show average on selectable number of stored measurements
- modify multiplication factor and offset for measures (*) allowing e.g. device to output the measures in SPAD units
- each performed measure has associated device time and sensor temperature (*)

Specifications

Measuring System	Optical density difference at 2 wavelengths (640nm and 940nm)
Keys	4 keys to operate all functions; simple, one-key operation to perform measurements only
Display	2 lines x 16 characters
Data Memory Capacity	• 9,554 measurements composed by value, name, temperature(*) and acquisition time(*) • 490 names up to 32 characters displayed) characters long (28
Power Source	2 AA (1.5V) batteries
Battery Life	5,000-30,000 measures, depending on use and battery type
Time to perform a measure	Less than 1 sec
Dimensions (W x D x H)	164 x 78 x 49mm (6 1/2 x 3 x 2")
Weight	165g (5.8 oz)(not including batteries)
Interface	**USB** with FREE software for Windows **Bluetooth**® Low Energy (BLE) with FREE App
Auto power off	after 1 minute of inactivity (4 minutes in USB mode)

MEASUREMENTS VALUES: **0 … 99.9** atLEAF units

ACCURACY : **-0.6 …+0.5** atLEAF units

REPEATABILITY ON A GREEN PLANT : **50.2 ± 0.1** (std dev 0.054)

Content of the box:
- atLEAF CHL BLUE meter
- Two AA batteries
- USB cable
- Printed User Manual

Buy it at
atleaf.com

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(*) atLEAF FREE App or atLEAFSoft PRO sw is required to download temperatures and to sync date & time

Each atLEAF CHL BLUE device is assembled, tested and calibrated in the United States.

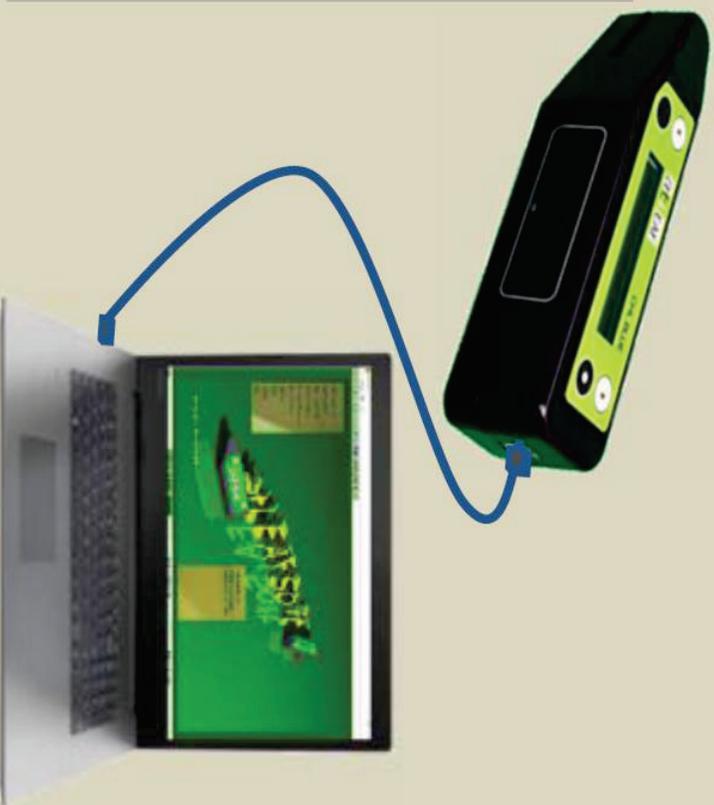# atLEAF CHL BLUE Working modes

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Stand-alone

- Acquire, store and view up to 9,554 measurements
- Perform measure with average value on up to 200 acquisitions
- Calculate average on the stored measures
- View sensor temperature in °F and °C
- View device time
- View device status

USB mode

The PRO atLEAFSoft Windows® software displays measures in forms of tables, graphs, and spider graphs. It calculates and displays statistics on measures, remotely commands device, and acquires and displays measures in real-time. It will also synchronize the date and time on device and read sensor temperature associated with the measures.

- Connect device to a PC with the FREE atLEAFSoft Windows® software
- Download measures to PC
- Upload up to 490 measure names to device
- Calibrate the device
- Show device status

Bluetooth® mode

atLEAF App available for FREE allowing user to:

- Connect atLEAF BLUE with mobile device
- Create groups with field (also on map), type and number of seeding definition
- Define names of measures
- Perform remote measures on device and download them with sensor temperature
- Associate the mobile location to each measure, display acquired measure on map or on a list
- Show measures on map
- Display measures as tables or graphs
- Show measure statistics for defined groups
- Synchronize/read date & time on device
- Weather, forecast data, unit conversions and atLEAF CHL values conversions