

# Field Measurement of Effective Leaf Area Index using Optical Device in Vegetation Canopy

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## URL

jove.com/video/62802

## Materials

Name	Company	Catalog Number	Comments
AccuPAR	METER Group, Inc., Pullman, WA, USA	AccuPAR LP-80	<a href="https://www.metergroup.com/environment/products/accupar-lp-80-leaf-area-index/">https://www.metergroup.com/environment/products/accupar-lp-80-leaf-area-index/</a>
DEMON	CSIRO, Canberra, Australia	DEMON	
File Viewer	LI-COR Biosciences Inc., NE, USA	FV2200C Software	<a href="https://www.licor.com/env/products/leaf_area/LAI-2200C/software.html">https://www.licor.com/env/products/leaf_area/LAI-2200C/software.html</a>
FluorPen	Photon System Instruments Ltd. (PSI), Czech Republic	FluorPen 1.1.2.3 Software	<a href="https://handheld.psi.cz/products/laipen/#download">https://handheld.psi.cz/products/laipen/#download</a>
Hand-held GPS device	Garmin Ltd., Czech Republic	Garmin eTrex 32x Europe46	<a href="https://www.garmin.cz/garmin-etrex-32x-europe46/80117">https://www.garmin.cz/garmin-etrex-32x-europe46/80117</a>
Hand-held device for leaf area index estimation(LP 110)	Photon System Instruments Ltd. (PSI) Czech Republic	LaiPen LP 110	<a href="https://handheld.psi.cz/products/laipen/#info">https://handheld.psi.cz/products/laipen/#info</a>
Plant Canopy Analyser	LI-COR Biosciences Inc., NE, USA	LAI-2000 PCA	LAI-2200 PCA or LAI-2200C as improved versions of LAI-2000 PCA can be used, see: <a href="https://www.licor.com/env/products/leaf_area/LAI-2200C/">https://www.licor.com/env/products/leaf_area/LAI-2200C/</a>
Statistical software	Systat Software Inc., CA, USA	SigmaPlot 13.0	<a href="https://systatsoftware.com/products/sigmaplot/sigmaplot-version-13/?gclid=Cj0KCQjwzYGGbHCTARIsAHdMTQzgf42vv0mWmcbVcfINOUvrLI802Lrhkfh23Qie2mlZfw4O8kp7p0aAsoiEALw_wcB">https://systatsoftware.com/products/sigmaplot/sigmaplot-version-13/?gclid=Cj0KCQjwzYGGbHCTARIsAHdMTQzgf42vv0mWmcbVcfINOUvrLI802Lrhkfh23Qie2mlZfw4O8kp7p0aAsoiEALw_wcB</a>
Statistical software	StatSoft Inc., OK, USA	STATISTICA 10.0	For LAI visualization, wafer-plots in STATISTICA 10.0 were employed.
SunScan	Delta-T Devices, Ltd., Cambridge, UK	SS1 SunScan	<a href="https://www.delta-t.co.uk/product/sunscan">https://www.delta-t.co.uk/product/sunscan</a>
TRAC	3 <sup>rd</sup> Wave Engineering, Ontario Canada	Tracing Radiation and Architecture of Canopies	<a href="http://faculty.geog.utoronto.ca/Chen/Chen's%20homepage/res_trac.htm">http://faculty.geog.utoronto.ca/Chen/Chen's%20homepage/res_trac.htm</a>
Tripod	Any	NA	Tripod with standard nut
Water level	Any	NA	