



GreenValley International

Kokyo

株式会社光響

住所：京都市下京区烏丸通四条下ル水銀屋町637番地 第5長谷ビル2階

Email : info@symphotony.com

TEL : 070 - 6925 - 5558

Web : <https://www.symphotony.com/>

FAX : 075 - 320 - 1604



LiCrop + LiPlant

Phenotyping Data Acquisition System & Software

LiCrop

LiCrop is a revolutionary phenotyping system developed by GreenValley International. LiCrop integrates a variety of sensors including LiDAR, RGB camera, multispectral, hyperspectral and thermal imaging. Custom mounting to agricultural scaffolding allows LiCrop to acquire highly accurate and precise information and measurement data.

LiDAR Specifications

Data Points Generated	<i>97,600 points/second</i>
Accuracy	<i>±2 mm @ 25 m</i>
Field of View	<i>305°</i>
Angular Resolution	<i>±0.009°</i>

RGB Imaging Specifications

Resolution	<i>2448*2048 mm</i>
Output	<i>24bit RGB</i>

Multispectral Imaging Specifications

Resolution	<i>0.35 cm/pixel (5 m)</i>
Field of View	<i>47.2°</i>
Bands	<i>475nm, 560nm, 668nm, 840nm, 717nm</i>

Hyperspectral Imaging Specifications

Hyperspectral Wavelength	<i>450 nm - 950 nm</i>
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Thermal Imaging Specifications

Resolution	<i>640*480 mm</i>
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LiPlant

LiPlant utilizes machine learning and GPU parallel computing to quickly process and analyze large datasets. The point cloud and imaging modules are able to extract crop parameters such as height, width, quantity of leaves, leaf length, leaf angle, canopy cover, leaf area index (LAI) and more. LiPlant is the perfect choice for precision agriculture.

Phenotypic Parameters

Crop Parameters	<i>CHM</i>
	<i>Canopy Cover</i>
	<i>Leaf Area Density</i>
	<i>Individual Plant Segmentation</i>
Plant Parameters	<i>Height</i>
	<i>Crown Width</i>
	<i>Steam & Leaf Segmentation</i>
	<i>Leaf Number, Width, & Length</i>
	<i>Projected Leaf Area</i>
	<i>Total Leaf Area</i>
	<i>Volume</i>





2120 University Ave, Berkeley, CA, USA 94704

Web: greenvalleyintl.com

Email: info@greenvalleyintl.com

Phone: +1 (510) 345-2899

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