
The leading optimization platform for greenhouse management, powered by computer vision and A.I.

# Collect Crop Data

**Mobile Cameras:** LUNA's primary data source are NASA grade cameras traveling on a track in 30 ft increments. A series of images are taken with a poviting camera and then stitched together to form a superset. These are continuous high-definition of your entire room or bay.

**Sensor Shrubs & Area Cameras:** LUNA's also collects, measures, and analyzes temperature, light, humidity, absolute humidity, vapor pressure deficit (VPD), light, and the daily light integral (DLI) using sensor shrubs.

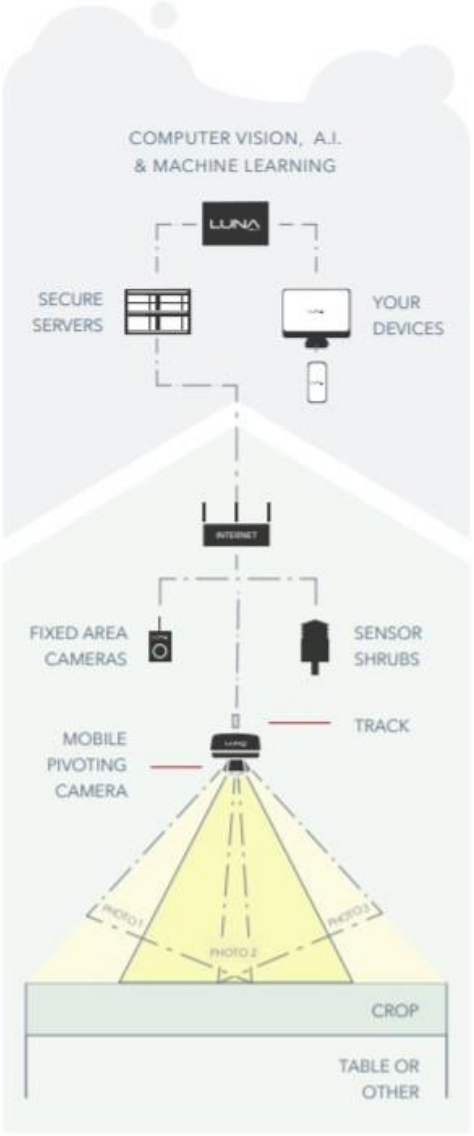
Fixed cameras are also used so you can monitor your employee and crop-related activitiies.

# Delivering Crop Insights

**Transmission & Storage:** Mobile cameras, sensors, and area cameras
all relay information wirelessly or directly over your
local internet service. Data is stored securely on remote Google or Amazon servers but can be stored onsite also if desired.

**Digitized Data:** The shapes and colors from the "superset" images are turned into structured data that LUNA can understand and analyze through Computer Vision. LUNA, then, performs complex tasks like comparing plant performance with previous crops, detect anomalies, and determine the growth rate and yield of your crops. Using the other environmental and activity data, LUNA compiles and creates a perfect record of your crop.

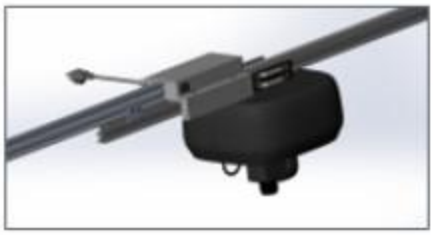
**Data Delivered:** LUNA compiles and delivers your crop data
back to you on your desktop or mobile device in an easy to use software interface and reports delivered over email. You can access your entire facility and real-time reporting from your device - anywhere in the world.



# Technical Specifications

## Mobile Camera

Mobile Camera are installed on track 10-35 ft above the crop. Track is powered by 3-prong US, grounded plug.



| | |
|---|---|
| Size (in) | 10 x 11 x 12 |
| Weight (lbs) | 7.75 |
| Temp Max (C) | 65 |
| Environment Protection | Water mist and dust tolerant |
| Input Voltage | 100-240 |
| Input Frequency (Hz) | 50-60 |
| Input Current (A) | 1.5 |
| Input Power (W) | 150 |
| Networking | 802.11 Wireless (2.4 or 5 GHz) |

## Static Camera

| | |
|---|---|
| Size (in) | 3.5 x 2.5 x 5.5 |
| Weight (lbs) | 0.5 |
| Temp Max (C) | 65 |
| Environment Protection | Water mist and dust tolerant |
| Input Voltage | 100-240 |
| Input Frequency (Hz) | 50-60 |
| Input Current (A) | 1.5 |
| Input Power (W) | 150 |
| Outlet Power | NEMA 1-15 (2-prong, non-polarized) |
| Power Over Ethernet | 802.3at Type 1 (CAT 5e communication) |

## Sensor

| | |
|---|---|
| Size (in) | 4.75 x 3.25 x 4.75 |
| Weight (lbs) | 1.5 |
| Input Voltage | 100-240 |
| Input Frequency (Hz) | 50-60 |
| Input Current (A) | 1.5 |
| Input Power (W) | 150 |
| Solar Charging | 6.25 x 9.25in |
| Networking | 802.11 Wireless (2.4 GHz) |

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