# CROPREPORTER

The CropReporter from PhenoVation is specifically developed for integration into plant phenotyping systems. These are modular systems which can be used to assess plants in trays, pots, or other plant carriers on photosynthetic performances

A 12-position optical filter wheel is used to capture multispectral and color images. NIR, far red, red, narrow green, wide green, blue, and fluorescence filters are the standard set, however the set can be adjusted to your preferences.
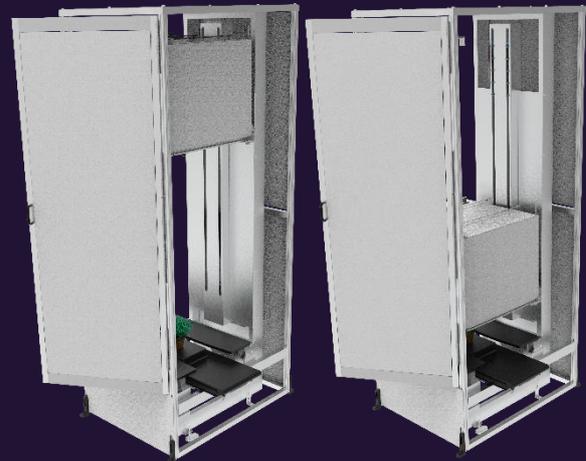
The system can calculate NDVI (normalized difference vegetation index), chlorophyll index, and anthocyanin index data using multi spectral observations. Furthermore, morphological metrics such as leaf area, border pixels, masks, and skeleton analyses can be measured.

Due to the use of the filters, it is possible to discriminate the plant from the background, making the obtained data highly accurate. This is due to the calculation based on the pixels showing fluorescence. Using the color filters, it can be shown what plant parts show discoloration of the leaves too. These functions combined makes the CropReporter a perfect integration in plant phenotyping systems.
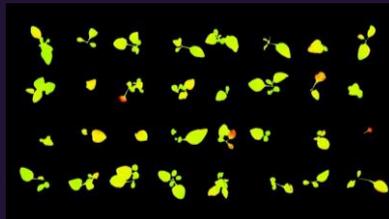
CropReporter specifications:

Measurement area	80 x 80 cm
Resolution	5 MP
Maximum frate rate	40 images per second on full resolution
Throughput	+/- 60 seconds
Electrical installation	1x 3Ph - 400VAC
Power consumption	10 kW
Operating temperature	+5°C till +40°C

Color

Fv/Fm

NPQ