

# Crop Circle Phenom

## The NEW Holland Scientific Crop Circle Phenom

is the quintessence of measurement instrumentation for studying plant canopy radiative transfer and biophysical characteristics.

Measurements include: NDVI and NDRE vegetation indices, LAI and canopy chlorophyll content estimation, incident and canopy reflected PAR, canopy and air temperature, sensor to canopy distance estimation, relative humidity and atmospheric pressure. Sensor data can be utilized for screening new plant varieties or for studying plant physiological behavior. Because the system can be vehicle mounted, plant canopy data can be rapidly collected over large agricultural landscapes or research study areas. Sensor measurements are geospatially tagged and stored using a GeoSCOUT X data logger.



### Uses

- High Throughput Phenotyping
- Nutrient and fertilizer studies
- Herbicide effect/performance studies
- Plant biomass quantification
- Trend/detect plant vigor changes
- Early disease detection
- Leaf senescence studies
- Turf and agricultural landscape mapping
- Hybrid selection

### GeoSCOUT X

Log Phenom data using the new GeoSCOUT X GPS data logger. The GeoSCOUT X has 2GB of internal memory and internal GPS. All data is stored in a comma-separated-variable text format for easy export to third party GIS mapping and analysis software. The GeoSCOUT X can support two Phenom sensor suites plus two additional RS232 serial devices. Position offsets for each sensor can be readily configured.



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