



CROPSPEC
CROP MONITORING TECHNOLOGY



Specifications	
Dust/Water Rating	IP67
Laser safety	Class 1 or Class 1M
Dimensions	200 x 80 x 80 mm
Mounting Height	2 - 4 meters
Viewing angle	45° - 55°
Operating Temp	0 - 60°C
Operational wavebands	730-740 nm and 800-810 nm
Supply voltage	10-32 VDC
Supply current	2 A

On-the-Go Crop Canopy Sensor



- Reduced fertilizer costs
- Create prescription maps, or prescribe and apply in a single pass
- 24/7 operation
- Cab mounted sensors
- Largest sensor footprint in the industry
- Compatible with X25 and X30 consoles

Just-in-time crop management

CropSpec is a real-time integrated crop monitoring and application system for agriculture. CropSpec operates with the VRC program MapLINK or any of the application controllers and allows the user to monitor in-field variability, treat on-the-go, or keep data for future analysis or prescription applications. CropSpec was developed in cooperation with Yara International, a leading world supplier of nutrients.

CropSpec is a two-sensor configuration that is light and easy to install. The sensors mount on the cabin roof, out of harm's way with less potential for damage to crops or equipment. With technology based on Topcon's core competency of optics, CropSpec uses pulsing laser diodes for sensing. The sensor measures plant reflectance to determine chlorophyll content, which is closely related to the nitrogen concentration in the leaf. This non-destructive, non-contact method provides accurate, stable readings and repeatable values.

CropSpec features three different modes of operation:

Read and Record - Read and record data for analysis and creating prescriptions. Scanning the crop creates a map to indicate nitrogen levels, including nitrogen rich and deficient areas. This information can be used to construct a variable rate prescription application to be used immediately or at a later date. Perform relative crop monitoring over time or create application programs based on health stages.

User Determined Rate Control - Hi/Low Basic mode - with a simple two-point calibration, the user can set high and low points then perform actual on-the-go application using field averaging. Target rate can be determined by the user.

Real-Time Variable Rate Application - Operators can subscribe to optional Yara software which processes the CropSpec readings using crop specific algorithms to determine optimum site-specific fertilizer rates. This system allows the farmer to perform variable rate application at the same time nitrogen levels are determined, controlling the output of fertilizer in one pass over the crop.



For more information:
topconpositioning.com/cropspec

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