## Satellite remote sensing for weed detection and notification

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### **Feature Description**

Farmdeck uses Satellite images and machine learning to identify weed types in complex landscapes and remotely calculate weedy areas on a farm which can help producers and crop advisors make appropriate management decisions.

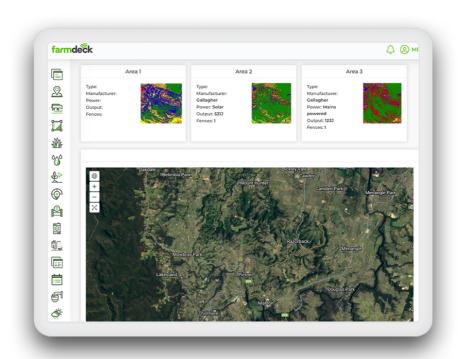


#### **Features**

- Calculate the size of weed patches
- Detect different types of weeds
- Notifications with specific weeds are detected

#### **Applications**

- Monitor the impact of herbicide or cultural practices
- Observe trends across farmland
- Use trends for rotation plans to take advantage of summer cropping opportunities



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Mechanical Features	
Housing	
Dimensions (mm)	
Weight	
Case Material	
Device Power Supply	
Battery	Solar panel with 1000 mAh battery
Expected battery life	
Operating Conditions	
Temperature	-40°C to +125 °C
Radio/Wireless Connection	on
Wireless technology	LoRaWAN 1.0.3/1.1
Supported LoRaWAN device type	Class A End-device
Supported LoRaWAN Regions	US902 - 928,AS923, AU915 - 928, KR920-923
Configuration	OTAA, ABP, ADR
Data Type	
Voltage	Latitude / Longitude, 6 axes gyroscope (m/s).
Optional Cellular Connect	tion
Wireless Technology	LTE-M/NB/IoT
Supported LTE Bands	LTE-M (Cat-M1): B1, B2, B3, B4, B5, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B66 NB-IoT (Cat-NB1/NB2): B1, B2, B3, B4, B5, B8, B12, B13
SIM card and format	Internal Nano 4FF SIM