Pest and Insect Detection

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Feature Description

Farmdeck uses various sensors for insect and pest detection on crops. A trap is set which attracts insects to it, images are then either captured remotely and sent to the dashboard or manually captured.

Farmdeck's machine learning capabilities to detect and identify different types of insects and pests



Features

- Determine insect population numbers and plan for crop protection
- Identify areas that need more crop protection against pest
- Identify and record different species of insects around specific areas

Applications

- Crop spraying management
- Pest detection



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Mechanical Features	
Housing	
Dimensions (mm)	350 x 140 x 220 mm
Weight	1100 gm
Case Material	metal
Device Power Supply	
Battery	Solar panel with 1000 mAh battery
Expected battery life	n/a
Operating Conditions	
Temperature	-40°C to +125 °C
Radio/Wireless Connection	
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
Optional Cellular Connection	
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

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