

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



Pest and Insect 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