N5SHIELD™

WILDFIRE DETECTION SYSTEM

USE CASES

Wildfire Detections, Air Quality, Protection of Infrastructure, Chemical Security

SENSE

Fast detection of wildfires (minutes).
Patented SPH™ sensors combined with AI enable accurate detection.
Intuitive dashboard and push notifications provide real-time, actionable insights.

INFORM

Multiple communication options work in all locations.
Solar rechargeable battery operates up to 7 days without sunlight.

PROTECT

Low maintenance, and easy to install and use.
Advanced software features enable air quality monitoring and detection of unexpected chemical events.

Contact Us:

info@n5sensors.com +1 877-451-3473

N5SHIELD™

SPECIFICATIONS

SENSORS

Particle Sensor Type: Laser Particulate Matter Sensor
Mass Concentration Size Range: 1.0, 2.5, 4.0, 10 µm
Mass Concentration Range: 0 to 1000 µg/m3
Heat Sensor Type: Infrared Array Sensor
Heat Sensor Dimensional Area: 8 x 8 (64 pixels)
Heat Sensor Viewing Angle: 60°
Gas Sensor Type: Custom Semiconductor Photocatalytic Hybrid Array + Photoacoustic CO2

POWER

Battery: 30,000 mAh
Solar Charger: 20W
Dimensions (Solar Panel): Approximately 17" x 14" x 1"
Weight (Solar Panel): Approximately 3.8 lbs

CONNECTIVITY

LoRa: 168dB maximum link budget+20dBm - 100mW constant RF output vs. Vsupply +14dBm high efficiency PA
LTE: Multimode LTE-M/NB-IoT modem with integrated RFFE, certified LTE Bands including B1, B2, B3, B4, B5, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, and B66.

SYSTEM

Data update rate: 18 seconds
Detection Range: 1-2 miles
Recharge time: 4 hours
Operating time: Up to 1 week without sun

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