MicaSense Sensor RedEdge-MX <u>Multispectral</u> <u>Camera for drone</u>

With its compact size, RedEdge-MX works well with both multirotor and fixed-wing platforms. One flight is all it takes to generate RGB color, NDVI, and advanced vegetation index layers. And, because it is calibrated, you can get an accurate picture of change over time in every output.

Item:Multispectral Camera Brand Name:Micasense Place of Origin:United States Size:8.7cm x 5.9cm x 4.54cm(3.4in x 2.3in x 1.8in) Weight:231.9 g (8.18 oz.)(Includes DLS 2 and cable) External Power:4.2 V DC - 15.8 V DC 4 W nominal, 8 W peak



Phenotyping

Manually measuring plant characteristics is time-consuming. RedEdge-MX captures more data in less time, allowing researchers to understand how different breeds react to certain environments and modify desirable traits in order to improve yield.

Crop Health Mapping

Low chlorophyll content is often an early indicator of plant stress. RedEdge-MX captures both visible and invisible spectral bands. From the different bands, it is possible to generate indices to see individual chlorophyll levels in the plants and compare over time.

Water Management

RedEdge-MX can provide powerful insights into water management. For example, color composites using the NIR band (like CIR) can help users identify overly damp areas. In addition, areas that are benefiting from excess irrigation will be highlighted.

Fertilize Management

RedEdge-MX not only allows for easy identification of areas low in nutrients but also help monitor the effects of fertilizer applications throughout the season and determine if, when, and where a new application is needed.

Disease Identification

RedEdge-MX captures a critical part of the light spectrum for studying plants (712-722 nm), called the red edge band. It is in this section of the spectrum that the first signs of stress start to show. Using analytics generated with the red edge band, growers can identify disease sooner and act faster to stop the spread.

Calibrated Multispectral Imagery



From one flight, gain insight from RGB imagery



Packing & Shipping



