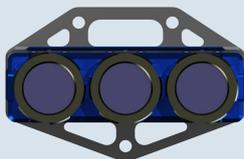


SIMERA

technology group

SIMERA MX CAMERA



Description

The SIMERA MX multispectral camera is a high resolution multispectral camera optimised for UAV applications. The base configuration has three camera heads. The first head is configured as a high resolution colour Bayer pattern (Red Green Blue), the second a monochromatic Red Edge and the third a monochromatic Near Infrared channel. Various other spectral bands can be implemented to suit the imaging mission. (Optional upgrade to eight multispectral channels).

The cameras are supplied together with a controlling and data recording compact form PC. When required, the camera head housing can be altered to suit UAV gimbal or mount constraints.

The MX Camera captures 5 or optionally 9MP still images, synchronised for five different spectral bands. What sets the MX camera apart from its competition, is the size of the captured images. With over 10-million pixels in each image, the capabilities set the MX camera in a league of its own. With on-board processing and storage of 120 GB, images can be processed on the fly, and downloaded post-flight with no extra processing required.

With Gorilla Glass protecting the filters and cameras, the rugged housing for the processing computer (and IP68 rated cables between the cameras and computer) the camera is weatherproof in every sense of the word. Designed for harsh environments, there is very little that will bring the mechanical structure down.

Key Features and Specifications

Light Weight Design, 1 to 2 kg (depending on lens and resolution choice)

High Resolution

Gorilla glass protective window

Robust and Splash Proof

SoC TEGRA GPU and CPU core controller

120 GB to 1 TB solid state storage options

RGB - 5/9 MPix

Red Edge - 5 / 9 MPix

NIR - 5 / 9 MPix

Frame rate: 1-20 FPS, depending on resolution
synchronised imaging



For more information visit:

www.simera.co.za