

ADC Multispectral Camera

Vegetation Indexing Made Easier

- ☐☐ See a raw grayscale or color-palletized vegetation index displayed on the viewfinder within seconds
- ☐☐ Portable hand-held or host-triggered
- ☐☐ Software included for camera control, image processing and extraction of NDVI, SAVI, IPV and NIR/G indices



Performance Features, Affordable Price

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| ☐☐ 1280x1024 pixel Motorola CMOS Sensor | ☐☐ Optional firmware for GPS control |
| ☐☐ RS-232 interface for GPS attachment | ☐☐ Compact Flash memory card |
| ☐☐ Available Tracker software allows record and replay of entire flight path | ☐☐ Weighs less than one pound with 4 AA batteries and 8.5mm C-Mount lens |

Applications

Tetracam's versatile ADC is a multispectral camera designed specifically for the needs of Farmers, Agronomists, Crop Consultants, Viticultureists, Agricultural Engineers and others who need to study vegetation canopies for agricultural purposes. At Tetracam, we understand that our agricultural customers need to spend their time analyzing and acting on data, not acquiring it. Our portable, hand-held ADC produces high-resolution images in the red, green and near-infrared bands. Users can see Normalized Difference Vegetation Index (NDVI) data within seconds of acquiring images. Knowing they have the kind of data they need, they can avoid costly and time-consuming "re-flies". With these data and the analysis tools provided, crop specialists of all kinds can make accurate decisions about watering schedules and environmental control for optimum yield.

Using removable CompactFlash memory cards up to 256MB, the ADC can take large numbers of images that can be analyzed on a computer station at a convenient time while the camera is deployed again on another imaging run with another CompactFlash card.

The ADC Multispectral Camera is easy to use, and supported by integrated image processing and analysis software that helps the user get the information they need. Although it is portable and hand-held in regular operation, the ADC can also operate in tethered mode, and supports an optional GPS interface through the camera's serial port.

For more information, see the Tetracam web site at www.tetracam.com

Specifications

Input/Output

Resolution: 1280 x 1024 pixels
Format: Proprietary lossless compression
Image Data: Red, Green, and Near-Infrared
Host Interface: USB

Lens Options

Interchangeable C-mount

Control Options

External trigger input
Camera control software (Tracker)
Optional firmware for GPS control

Hardware

Motorola CMOS Sensor
Color LCD Viewfinder
CompactFlash Adapter (cards up to 256Mb)
USB Interface
RS-232 Serial Port

Power

4-AA batteries
6VDC input

Dimensions

5.5 x 3.1 x 2.0 inches

Weight

Less than 1.0 pound (with batteries and 8.5mm lens)

Software

The ADC Multispectral Camera ships with two powerful Windows-based support programs, Briv32 and PixelWrench, and can also include the optional Tracker GPS Tracking and Waypoint Triggering Module. Here are some of the many features available in these three programs.

Briv32

- Extract NDVI, SAVI, IPVI and NIR/G index data in grayscale or colorized format
- Generate RGB color separations
- Determine percent canopy cover by two methods
- Histogram and scatterplot image measurement

PixelWrench

- Extract NDVI, SAVI, IPVI and NIR/G index data in grayscale or colorized format
- Resize Images
- Label images
- Save in bitmap or JPEG format

Tracker (optional)

- Build, save, retrieve and print waypoint tables
- In the air, monitor position, distance and heading to each waypoint along with camera activity
- Trigger camera at closest intercept and log time/location on waypoint table

Tracker Software

This screen shot shows Tracker in flight mode

