

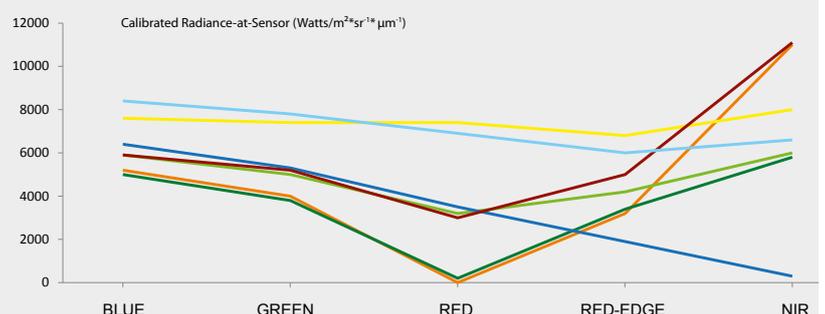
# OIL PALM AND RUBBER PLANTATION MAPPING

Many land cover types have unique spectral signatures which can be delineated, identified, and mapped with RapidEye's **five bands** (blue, green, red, red-edge and near infrared). RapidEye's spectral detail allows for quick visual and spectral separation of major mapping units. The combination of these five spectral bands is ideally suited for land cover classification, monitoring vegetation conditions, and detecting growth anomalies. RapidEye was the first com-

mercial system to offer the **red-edge band**, which gives users important indicators on vegetation health. RapidEye imagery can be applied in the Forestry arena; specifically for detailed vegetation mapping applications. RapidEye also offers a distinct spatial advantage over comparable satellite systems, with its system's 5 meter pixels imaging across all 5 spectral bands.



Major land cover classes shown in this false-color RapidEye image (Bands 5,4,1) over Perlis, Malaysia, indicate distinctive spectral responses. The chart shows spectral differences between oil palm, rubber, forest, water, clearings, vigorous regrowth (weeds), and built-up surfaces. In its class of satellites, **only 5 band RapidEye imagery** can achieve this spectral class separation.



## I Satellite Image Product Specification

	SPECIFICATION		
Spectral Bands	Blue	440-510 nm	
	Green	520-590 nm	
	Red	630-685 nm	
	Red Edge	690-730 nm	
	Near Infrared	760-850 nm	
Ground Sampling Distance (Nadir)	6.5 m (Level 1B Product)		
Pixel Size (orthorectified)	5 m (Level 3A Product)		
Swath Width	77 km		
Revisit Time	DAILY		
Equator Crossing Time	11:00 a.m. (approximately)		
Image Capture Capacity	4 Million km <sup>2</sup> DAILY		

## I RapidEye

RapidEye is a provider of quality high-resolution satellite imagery and derived geo-information products. With a constellation of five Earth Observation satellites, RapidEye images over 4 million square kilometers of earth every day, and amasses over 1 billion square kilometers of imagery every year!\* With an unprecedented combination of wide area repetitive coverage and five meter pixel size multi-spectral imagery, RapidEye is a natural choice for many industries and government agencies.

## I At Your Service Where and When You Need It

RapidEye can quickly and reliably deliver multi-temporal data sets in high resolution, making it unrivaled within the industry. By collecting and delivering large areas of interest in near real-time, RapidEye assures maximum value for your applications. Two levels of Satellite Image Products are available for purchase. Both can be delivered in a format that will easily integrate into any GIS system.

Content for this Data Sheet provided by RapidEye's Distributor for Australia, New Zealand, Papua New Guinea, New Caledonia and South Pacific Island nations



[www.aamgroup.com](http://www.aamgroup.com)

