Examples of commercially available remote sensing sensors and data sources for marine, terrestrial and athmospheric environments.   CSER, UQ, Date: 9th April 2010

A listing of the commercially available remote sensors of their: data type, sensor (platform), spatial scale, extent (GRE), resolution (spectral & radiometric & temporal), frequence (time of day), source/cost and archive. See for more details: on airborne and satellite sensors also: http://database.eohandbook.com/database/instrumenttable.aspx, and under water acoustic sensors: http://www.ozcoasts.org.au/geom_geol/toolkit/technical.jsp#aeos

Platform		Sensor	Spatial Scales - extent - pixel size	Spectral Resolution and Range	Radiometric Resolution	Temporal Resolution - repeat frequency - time of acquisition	Source(s) for Data	Cost (Indicative only and subject to change. Additional costs may be applicable)	Archives of Data
Field		Field spectrometers	Field sample plots < 1m2	High (5-10 nm) Range:350 – 2500nm #bands: > 1000	High > 10 bit (>1024 levels)	User controlled	Hire From: universities (Univ.of Qld, Univ. NSW, USQ) A.Dekker (CSIRO Land & Water) Purchase starting at AU$10k Or hire via	Field time, car and/or boating	http://www.ozcoasts.org.au/nrm_rpt/library.jsp
		Visual spot check surveys	Field sample plots vary depending on method	Not applicable	Not applicable	User controlled	Various organisations	Field time, car and/or boating	Not applicable
		Georeferenced photo snorkel or diving transects	Field sample plots < 1m2 depending on field of view lens but repeated over along transect (100 m - 2000 m)	Multispectral (blue, green, red)	Medium	User controlled	Various organisations See also: http://www.gpem.uq.edu.au/CRSSIS/publications/GeoPhotoTransects.pdf)	Basic high quality cameras and housing cane be purchased for < $1000. Use with analysis software - http://www.nova.edu/ocean/cpce/	Not applicable
		Georeferenced video transects	Continous field sample plots < 1m^2 depending on field of view lens and length of transect	Multispectral (blue, green, red)	Medium	User controlled	Various organisations	Basic high quality cameras and housing cane be purchased for < $1000. Use with analysis software - http://www.nova.edu/ocean/cpce/	Not applicable