

## Powerful display tool for visualising and analysing spectrum data from RFeye spectrum monitoring nodes

- **Interactive analysis of raw data sets**
- **Mapping of data from fixed and mobile monitoring nodes**
- **Multiple, synchronised, data display windows**
- **World-level to street-level geographic display resolution**
- **Extensive data filtering options**
- **Built-in report generation tool**
- **Geographic points of interest overlays**
- **Flexible licensing options**

The RFeyeView software is designed to display data captured by RFeye nodes during spectrum surveys. This standalone application provides a user friendly interface to allow quick and easy visualisation and analysis of captured data from networks of both fixed and mobile spectrum monitoring nodes.

Data may be analysed at any desired geographic resolution, from country (or even world-) level, down to individual measurement positions on a specific street.

RFeyeView provides a number of tools that enable the user to interrogate the data in different ways. For example, the map view provides an overview of the data in a geographic area, whilst the spectra and spectrogram views provide alternative viewpoints on the same data. Selecting data on any one of the display windows automatically highlights the same data in the other windows.

Spectrum usage may be analysed for specific combinations of monitoring nodes or networks, frequency range of interest and signal characteristics (e.g. peak or average signal strength, or occupancy).

### Features

- Interactive zoom between geographical resolutions
- Multiple data windows with synchronised display and highlighting
- Signal levels displayed as power or field strength
- Display of peak and mean signal levels and band utilisation
- Stand-alone application: can be run directly off a USB stick
- Support for multiple displays
- Microsoft Windows XP, 2000 and Vista Compatible

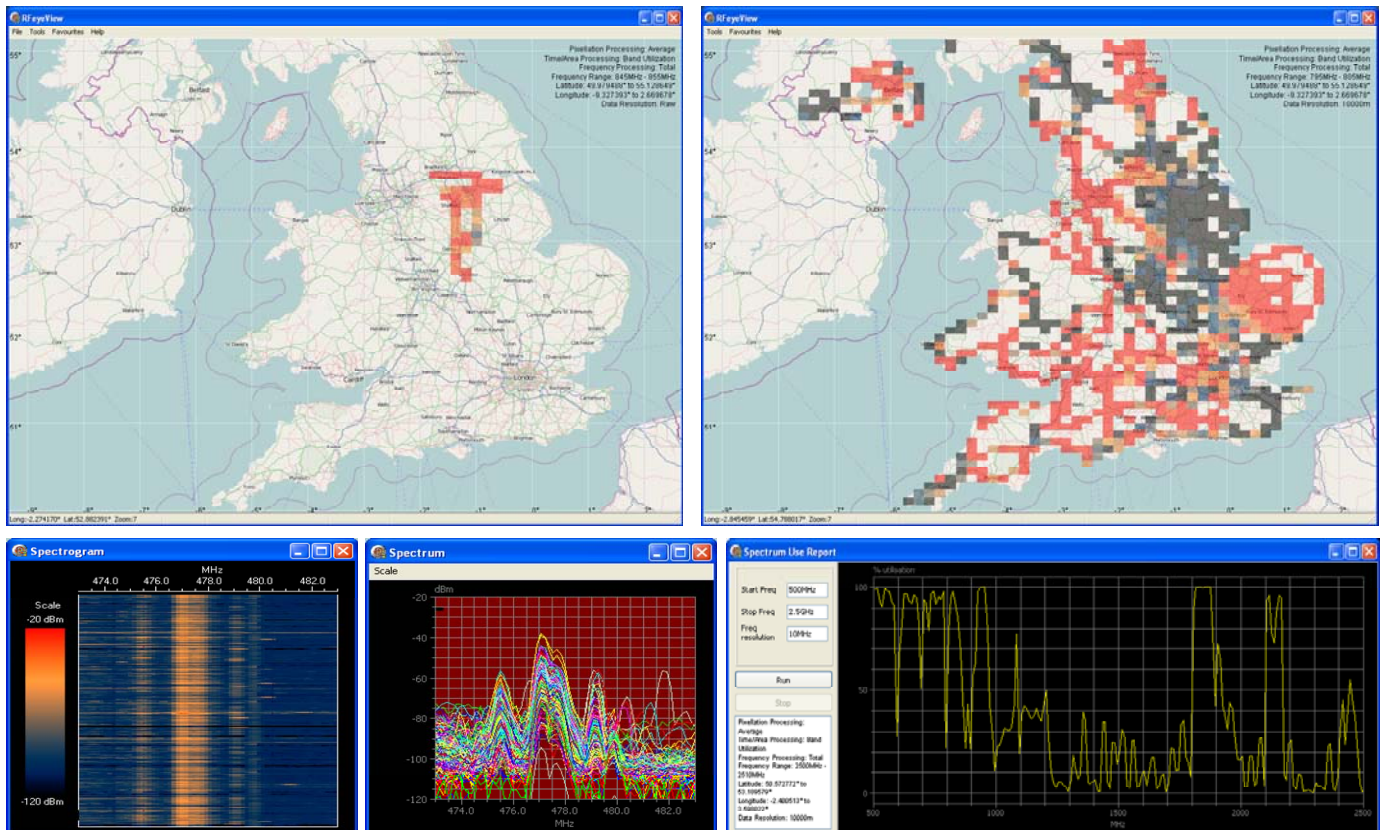
**File Support:** RFeyeView processes (in real time) data files generated by RFeye nodes. The maximum number of data files that can be imported at any one time is limited by the PC system memory (which is itself limited to 2 GB by the operating system), and will also depend on the specific file format, and analysis requested.

**Note:** Users with significant volumes of data are recommended to consider the use of the CRFS Spectrum Monitoring System which includes Data Manager and Data Analyser components specifically designed for very large data sets.

**Licensing Options:** RFeyeView is designed to run as a stand-alone application with no installation of the software being required. Flexible licensing software allows the application to be locked to a specific machine, or the application may be locked to a specific USB drive to allow usage on different hosts.

**Mapping Database:** Mapping is currently provided by openStreetmap.org (requires an internet connection), but alternative mapping libraries can be incorporated on request.

## Example Screen Shots



## Technical Specification

### Display Processing Options

Spatial	Peak, Average, Band Utilisation
Frequency	Peak, Average, Total
Pixellation	Peak, Average signal level
Filtering	Frequency, Time and Date, Area, RFeye Node

### PC Requirement

Operating System	Windows XP, 2000 or Vista
Hard Disk Space	4 GB (Map Cache) + File Storage
RAM	3 GB (recommended)

### Displays

Map	Whole world to street level
Spectrum and Spectrogram	All frequencies to individual bin
Report	All frequencies to individual bin
Overlay	Any KML Format File

## For more information