




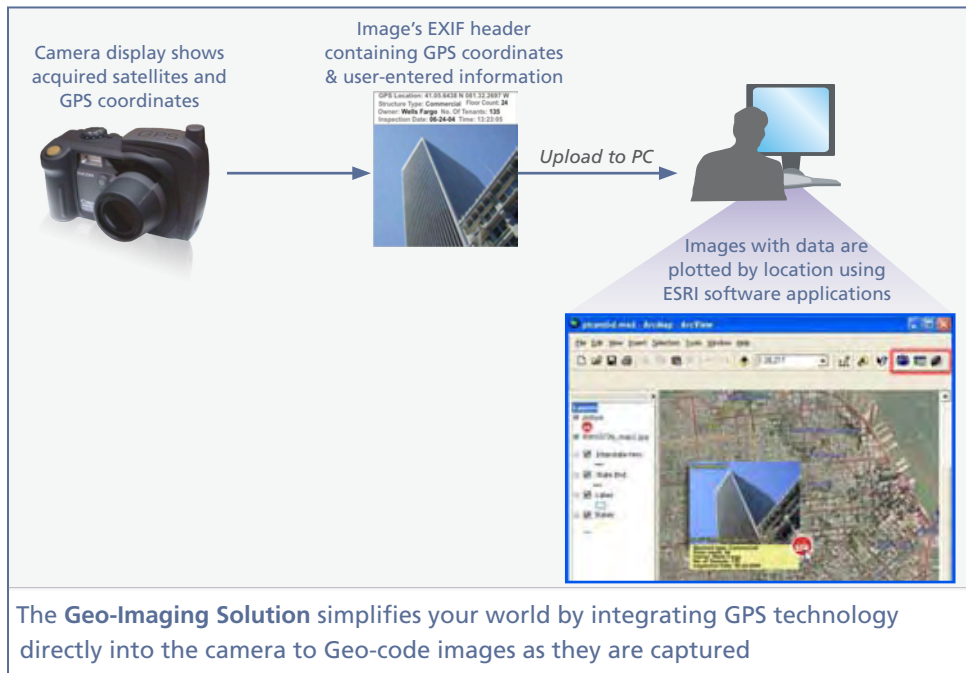
Camera Imaging Solutions At-a-Glance

500SE Camera	Major Applications
 <p>Intelligent Business Imaging</p> <ul style="list-style-type: none"> • Powerful digital photography • Intelligence to relate images to information • Full networkability 	<p>Geo-Imaging (GPS Positioning)</p> <p>Affordable and easy to operate, this Geo-Imaging solution provides the best alternative for GIS workflows that require quality image capture in the field.</p>  <p>Data-Imaging (Barcode Scanning)</p> <p>By combining a high-resolution digital camera with barcode-scanning, the problems of associating the image of an object with its related barcode documents are overcome.</p> 

Geo-Imaging

Camera Solution Integrates Images Into GIS Applications

Combining GPS technology with digital imaging, the 500SE GPS-ready digital camera provides a new level of efficiency for integrating digital images into map-based software applications. Affordable and easy to operate, this Geo-Imaging solution provides the best alternative for GIS workflows that require quality image capture in the field.



Who Should Use the Geo-Imaging Camera Solution

- Organizations with Geographical Information Systems (GIS) workflows involving images

Benefits

- Simplifies workflow and overcomes burdens of traditional methods

Using the Geo-Imaging Camera Solution

- Geo-codes images as they are captured
- Automatically stores GPS coordinates in the image EXIF header
- Additional meta-data can be associated with captured images through a user-configurable menu system on the camera
- Allows image imprinting with GPS coordinates and any associated data
- Upload images, coordinates and captured data directly from the camera
- Geo-coded images can be sent to a PC running ArcMap® where a plug-in tool extracts GPS data from images and generates standard ESRI "shape" layer files
- Images plus associated meta data are automatically linked to mapped points based on their GPS location

Implementing this Solution

- Use as a single unit solution using built-in GPS or in conjunction with external GPS devices via bluetooth
- For greater precision of accuracy, the 500SE can receive NMEA data wirelessly from Bluetooth enabled GPS devices
- Sends images, or file names of images, wirelessly to a Bluetooth enabled PDA
- For additional telemetry, such as laser range finders, the 500SE is able to support two Bluetooth devices simultaneously



Target Markets & Applications

- Government/Defense
- Construction
- Law enforcement
- Disaster assistance
- Transportation



Complementary Products
Use this Solution with:
eCabinet for electronic file storage

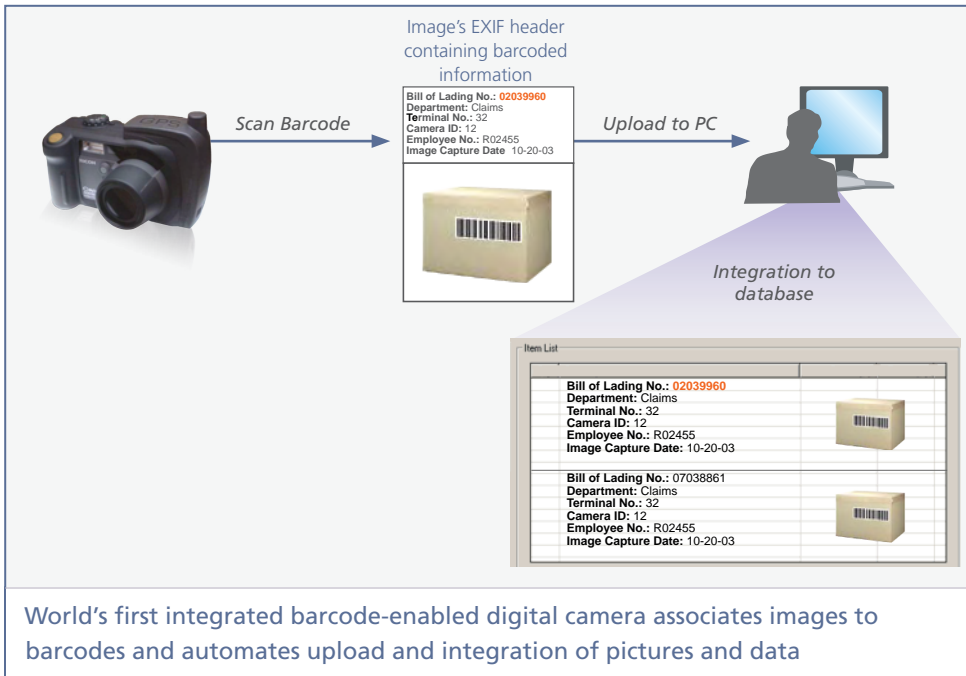


Ricoh Developer Program
Extend or customize this solution.

Data-Imaging

Camera Solution Relates Images to Barcodes

Pictures play an important role in many barcode-based workflows. Unfortunately the devices available today for scanning barcodes do not accommodate the needs of workflows that require detailed pictures of the objects that the barcode relates to. By integrating a barcode scanning device with a high-resolution digital camera, the problems of associating the image of an object with its related barcode documents are overcome.



Implementing this Solution

- Turn-key solution features camera, with integrated barcode scanning, and on-board software
- Images are uploaded electronically directly from the 500SE camera to the home office server via Internet/FTP
- Automated instruction scripts that seek the keywords in the image's EXIF header determine how to route, store, or process the image



Target Markets & Applications

- Vehicle inspections
- Freight claims
- Parts inventory
- Retail maintenance
- Human identification
- Manufacturing

Who Should Use the Data-Imaging Camera Solution

- Organizations whose information workflows involve pictures as well as barcode information

Benefits

- Faster workflow completion and significantly reduced opportunities for human error
- Immediate availability of acquired images and associated data
- Eliminates manual processes to separately scan barcoded forms, download pictures from a memory device and associate the files
- Eliminates time and expense of shipping physical materials to the home office for processing

Using the Data-Imaging Camera Solution

- Automatic association of images to barcodes - simply scan a bar code with the camera then take a picture
- Additional meta-data can be associated with captured images through a user-configurable menu system on the camera (date and time are also recorded)
- Scanned barcode and user-entered data are stored in the image EXIF header
- Once uploaded to a PC or server, the images can be automatically integrated with databases and associated with documents based on their barcode or entered data



Complementary Products

Use this Solution with:
eCabinet for electronic file storage



Ricoh Developer Program

Extend or customize this solution.