

# Flexible Data Compression and Serving Solutions

## Data Conversion and Compression

All your data can be converted to any digital format e.g. GeoTiff, Jpeg and compressed formats such as ECW or MrSid. We operate a high end quad server machine dedicated to image compression work. In the last year alone, we have compressed over 20 terabytes of digital data for various applications, including the 2 metre mosaic of the whole of Great Britain for Getmapping plc. This compressed dataset incorporates over 1.7 terabytes of data making it one of the largest compressions ever created. It is continually updated with new data being added on a monthly basis.

## Other Geosense Products and Services

### Photogrammetric Services

- Aerial Photography Acquisition
- Data Scanning
- GPS Data Collection
- Geo and Orthorectification
- Advanced Colour Balancing
- Seamless Mosaicing Techniques
- DTM and DEM Generation
- Full 3D Data Capture
- 3D Visualizations
- Digital and Hardcopy Output

### Satellite Services

- Geo and Orthorectification
- Image Enhancement Techniques
- Image Interpretation Services
- Large Mosaic Capacity
- Image Classifications
- Digital and Hardcopy Output

### Terrain Products and Services

- Stereo Aerial Photography
- Stereo Satellite Imagery
- Airborne and Satellite Radar
- Lidar
- Interferometry
- Topographic Mapping
- GPS Surveys

BS EN ISO 9001:2000 Registered Firm

### 3D Solutions

- Detailed Building Outlines
- 3D Vector Data Capture
- Line of Sight
- Contour Extraction
- Linear, Area and Volumetric Calculations
- Change Detection
- Real World Visualisations

### Consultancy Services

- Project Management
- Professional Training
- Archiving and Data Management Solutions

### Bureau Services

- Image Compression
- Digitising and Data Capture
- Scanning Services - maps and documents
- Map Products



Photogrammetrically scanned aerial photograph

## License-Free, Royalty-Free Data

For a detailed, no-obligation discussion about your mapping and scanning requirements, call our sales team.

Geosense are resellers of:



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# GEOsense

Geosense is pleased to announce the launch of a new scanning, archiving and retrieval service. Before you buy into a more expensive alternative, take a moment to examine the Geosense solution.

# Scanning Solutions

## Scanning service

All maps, images, documents and microfiche scanned to any digital format.

## Full ownership of your data

No annual fees, no licenses.

## Low cost, fixed price solutions

Pay a fixed rate for the data irrespective of the number of partners or councils buying in to the scheme. Prices are typically one-third cheaper than competing products.

## Compliance with existing datasets

All maps are geo-corrected to fit existing datasets (e.g. OS Landline) and can be converted to other coordinate systems as required.

## Flexible formats

Data delivered in the best format to suit your software (e.g. Tiff, Jpeg, ECW, MrSid, etc.).

## Data protection

Scanning in your maps and documents protects them from damage caused by handling. Copies of the data held off site also ensure protection from flooding, fire, terrorism and other unexpected events.

## Image compression and web delivery

Geosense specialise in the delivery of compressed data and provide full support and installation for all leading GIS software.

Geosense scan everything from maps, images, aerial and terrestrial photographs to documents, drawings and microfiche film. We use photogrammetric, book, microfiche, large format and desktop scanners. We also rectify and mosaic your maps and aerial photography into a single dataset to any coordinate system.

### Archiving and Retrieving Your Data

To make full use of your new digital archive, Geosense recommends ER Mapper's Image Web Server. This software, customised by Geosense to your requirements, allows you

to serve 1000s of gigabytes of data over an intranet or internet using standard desktop equipment without the worry of losing data integrity. This is all possible by utilising enhanced wavelet compression technology (ECW file format). You can view and edit this file type in any GIS, CAD or Microsoft® Office program making it the perfect format for use in documents and as a backdrop to your vector data.



1868



1868 with 1890 overlay



1868 with 1910 overlay

scanned maps with kind permission of Devon County Council

### Digitising and Data Capture

Geosense's low cost, digital data capture bureau extracts information from your scans for use in your GIS, CAD or documentation system. The digitising, attributing and displaying of extracted data (eg. boundaries, land ownership, public rights of way and contaminated land) over up-to-date aerial photography means your organisation has a valuable and informative resource at your fingertips. Geosense uses MapInfo, ESRI, Cadcorp, ERDAS, ERMapper and raster to vector software to ensure the data captured fits your existing dataset.