



1:50 000 Scale Colour Raster

User guide

Preface

This user guide contains information on the technical specification and product specification for 1:50 000 Scale Colour Raster and the optional 1:50 000 Scale Gazetteer. It is designed to help you understand how to use the 1:50 000 Scale Colour Raster and the 1:50 000 Scale Gazetteer.

This user guide has been checked and validated before issue and every endeavour made to ensure that the contents are accurate. If you find an error, omission, or otherwise wish to make a suggestion as to how this user guide can be improved, please contact us at customerservices@ordnancesurvey.co.uk or the address shown under contact details or use the Product and service performance report form at [appendix A](#).

Contact details

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Product performance

If you have any problems with or identify any errors in the data or user guide, please complete the Product and service performance report form at [appendix A](#).

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Chapter 1 Introduction

1:50 000 Scale Colour Raster

1:50 000 Scale Colour Raster is Ordnance Survey's definitive raster product, available in various formats (See [Technical specification](#)).

It is derived from the Landranger® production database, resulting in high quality image and resolution. The 1:50 000 Scale Colour Raster is a complete digital view of the popular Landranger paper map series.

All features are edge matched as a result of Landranger's seamless dataset. This Raster data provides an image where the Landranger detail has been converted to a grid of pixels which can then be displayed on computer screens. Each data tile is converted into a raster tile at a resolution of ten (10) dots per mm (dpmm) – or 254 dots per inch (dpi) and a pixel is five (5) metres on the ground. This resolution maintains the necessary clarity of text.

This Raster backdrop can then be overlaid with other Ordnance Survey vector products or a customer's own geographical/business data, besides being a useful background map in its own right.

As 1:50 000 Scale Colour Raster is aimed at professional/business markets, its graphic specification can provide assistance with:

- Development and land use planning.
- Environmental impact analysis.
- Vehicle routing.
- Asset management.
- Marketing analysis.
- Screen images can be plotted to produce a high quality map.

1:50 000 Scale Gazetteer

About the product

1:50 000 Scale Gazetteer provides an excellent reference tool or location finder, allowing you to locate your area of interest immediately. The gazetteer can also be used to navigate around the map, geocode your data or create lists of places within a specified area.

1:50 000 Scale Gazetteer contains entries for airports, farms, hills, woodlands, commons and other places, including over 42 000 towns and settlements with coordinates to 1 km resolution.

Features and benefits

- Enables you to find locations around the country quickly, as national coverage is held in one seamless file.
- Contains every name featured on the 1:50 000 Scale Colour Raster product.
- It is updated in conjunction with Landranger revision cycles, giving you product consistency.
- Highly detailed, containing over 250 000 names from small villages to cities.

1:50 000 Scale Gazetteer is highly detailed, with up to 19 references per name.

1:50 000 Scale Gazetteer provides an excellent:

- Place name location finder.
- Reference resource tool.

Chapter 2 Technical specification

Specification	1:50 000 Scale Colour Raster	
Data source	Landranger production data	
Availability	National and country coverage (England, Scotland and Wales)	
Tiles in series	812 (edgematched)	
Tile size	20 km by 20 km	
Data Structure	Raster	
Data format	TIFF Palette 8 bit (256 colours) uncompressed TIFF Palette 8 bit (256 colours) with LZW compression Windows® BMP 8 bit colour (256 colours) uncompressed Windows 8 bit colour (256 colours) with RLE compression PCX 8 bit (256 colours)	
Data file sizes		8 bit 256 colours
	BMP	15 Mb
	BMP with RLE compression	14 Mb
	PCX	18 Mb
	TIFF	15 Mb
	TIFF with LZW compression	10 Mb
Media	CD-ROM ISO 9660 (High Sierra) only	

The structure of each 1:50 000 Scale Gazetteer record is shown below:

FIELD NUMBER	FIELD NAME	FULL NAME	FORMAT	EXAMPLE
1	SEQ	Sequence Number	Int (6)	108
2	KM_REF	Kilometre Reference	Char (6)	SO7467
3	DEF_NAM	Definitive Name	Char (60)	Abberley
4	TILE_REF	Tile Reference	Char (4)	SO66
5	LAT_DEG	Latitude Degrees	Int (2)	62
6	LAT_MIN	Latitude Minutes	Float (3.1)	18.3
7	LONG_DEG	Longitude Degrees	Int (2)	2
8	LONG_MIN	Longitude Minutes	Float (3.1)	22.4
9	NORTH	Northings	Int (7)	267500
10	EAST	Eastings	Int (7)	374500
11	GMT	Greenwich Mean Time	Char (1)	W
12	CO_CODE	County Code	Char (2)	WO
13	COUNTY	County Name	Char (20)	Worcs
14	FULL_COUNTY	Full county name	Char (60)	Worcestershire
15	F_CODE	Feature Code	Char (3)	T
16	E_DATE	Edit Date	Char (11)	01-DEC-2001
17	UPDATE_CO	Update Code	Char (1)	T
18	SHEET_1	Primary Sheet No.	Int (3)	138
19	SHEET_2	Second Sheet No.	Int (3)	150
20	SHEET_3	Third Sheet No.	Int (3)	0

Chapter 3 Managing 1:50 000 Scale Colour Raster files

Georeferencing

Georeferencing files allow tiles of map data to be located in their correct geographical position when loaded into a geographical information system (GIS). This is achieved by loading in files alongside the data files that contain the National Grid corner coordinates for each 20 km by 20 km tile. This is especially useful if more than one tile of data is being loaded at once, as it allows for a true geographical depiction of the data.

When 1:50 000 Scale Colour Raster is supplied to customers, it is not georeferenced in any way. The implications of this are that tiles will not be set up in geographical relationship to each other when loaded into a GIS.

TIFF World Files (TWF) can be downloaded from www.ordnancesurvey.co.uk/productpages/50kraster and used to georeference 1:50 000 Scale Colour Raster in ESRI® ArcView® and ArcInfo®. Also available are the TAB files for use with MapInfo®.

For LZW compressed formats, you may need to acquire a licence for LZW. UNISYS® owns the rights to the LZW format and levies a charge for its use in GIS systems. Some software suppliers license LZW for use in their products, others expect the 'end user' to license LZW separately by buying a plug in.

Further information can be obtained from the UNISYS web site at http://www.unisys.com/about__unisys/lzw/

Back-up of the data

You are advised to copy the supplied data to a back-up storage medium.

Chapter 4 **Product specification**

1:50 000 Scale Colour Raster

Ordnance Survey's 1:50 000 Scale Colour Raster product is derived entirely from the source data used to create its graphic counterpart, Landranger. The product is supplied as 20 km by 20 km tiles and is available as colour.

It benefits from increased clarity and accuracy of detail, as well a greater degree of currency across the series, which has enabled the production of an edge matched* database. The features include clear detail on roads and buildings as blocks of colour to allow easy identification of land features, important buildings, footpaths, woods, height information in metres and water features.

*Map features which occur at the edge of tiles are adjusted to align with their correspondent part on the adjacent tile. This means when a map area falls over two or more tiles, the picture is complete or 'edge matched'. Principal communication features (motorways, 'A' roads, railways, major rivers) are edge matched across tiles.

1:50 000 Scale Colour Raster provides a comprehensive map base ideal for detailed work where street names are not required, such as environmental analysis.

1:50 000 Scale Gazetteer

Ordnance Survey's 1:50 000 Scale Gazetteer provides an excellent reference tool, location finder or navigation tool, enabling you to geocode your data and create lists of locations.

It contains entries for airports, farms, hills, woodlands, commons and other places, including over 42 000 towns and settlements with coordinates to 1 km resolution. As national coverage is held in a single seamless file, these entries can be selected quickly.

Tiles

Because digital maps frequently cover very large areas, they are split down into squares known as tiles, each of which covers part of the overall area.

Appendix A Product and service performance report form

Ordnance Survey welcomes feedback from its customers about 1:50 000 Scale Colour Raster and 1:50 000 Scale Gazetteer.

If you would like to share your thoughts with us, please print a copy and when completed post it to the address below.

Your name: Phone:

Organisation: Fax:

Address: Email:

.....

..... Quotation or order reference:

Postcode:

Please record your comments or feedback in the space below. We will acknowledge receipt of your form within 3 working days and provide you with a full reply or a status report within 21 working days.

If you are posting this form, please send it to:

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