



1:10 000 Scale Raster

User guide

Preface

This user guide contains information on the technical specification and product specification for 1:10 000 Scale Raster. It is designed to help you understand how to use the 1:10 000 Scale Raster.

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](#) and return it to us.

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Chapter 1 Introduction

1:10 000 Scale Raster map data is the most detailed product in our raster portfolio, providing large-scale background mapping.

It provides a scanned image of 1:10 000 scale mapping derived from Ordnance Survey's Landplan® dataset. It has the following product attributes:

- Communications
- Boundary Information
- Vegetation
- Buildings
- Height Information in metres
- Point and line features
- Water features
- Landforms

1:10 000 Scale Raster does not include contours, contour values, air heights or open sea stipple. All features are edge matched as a result of Landplan's seamless dataset.

1:10 000 Scale Raster is available as both colour and black and white in various formats (See specification chapter 2).

This raster data provides an image where the Landplan 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 400 dots per inch (dpi) and a pixel is point six three five (0.635) of a metre on the ground. This resolution maintains the necessary clarity of text. The colour version assigns a colour to each pixel.

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

Its level of feature detail makes 1:10 000 Scale Raster particularly useful for analysing data within urban areas.

Screen images can be plotted to produce a high quality map.

Chapter 2 Technical specification

Specification

1:10 000 Scale Raster

Data source	Landplan data
Number of tiles in Great Britain	10 568 (edge matched) <ul style="list-style-type: none">• England 5690• Scotland 4008• Wales 1008
Tile size	5 km by 5 km
Availability	National coverage
Resolution	400 dots per inch
Data structure	Raster
Data specification	All map features except contours, contour values, air heights and open sea stipple

Colour

Transfer format	TIFF 8 bit compressed (LZW*) and uncompressed * see technical specification note on page 7
Storage volumes per tile	Uncompressed: approx. 60 Mb Compressed: 3 Mb – 15 Mb

Black and White

Transfer format	TIFF uncompressed, BMP, PCX, TIFF Group 3 compression, TIFF Group 4 compression and TIFF packbits
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Please note: MapInfo® version 7 does not support TIFF Group 4 compression.

Storage volumes per tile Uncompressed: 8 Mb
Compressed: 0.3 Mb – 6 Mb

Update frequency Annual

Greyscale a high quality alternative to black & white data is to use a GIS system to convert colour data to greyscale format.

NOTE: greyscale file sizes are significantly larger than black and white data.

Chapter 3 Managing 1:10 000 Scale 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 5 km by 5 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 1:10 000 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/10kraster and used to georeference 1:10 000 Scale Colour or B/W 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 1:10 000 Scale Raster

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

Chapter 4 Product specification

Ordnance Survey's 1:10 000 Scale Raster product is derived entirely from the source data used to create its graphic counterpart, Landplan. It is identical in detail, apart from the absence of contours, contour values, air heights and open-sea stipple.

The product is supplied as 5 km by 5 km tiles and is available as either black and white, or 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 communications, boundary information, vegetation, buildings, height information in metres, point and line features, water features and landforms.

* 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.

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 1:10 000 Scale Raster.

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:

.....

.....

Postcode: Quotation or order reference

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:

Customer Contact Centre, Ordnance Survey, Romsey Road, SOUTHAMPTON, SO16 4GU.

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