



MiniScale[®]

User guide

Preface

This user guide contains information on the technical specification and product specification for MiniScale®. It is designed to help you understand how to use MiniScale.

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](#).

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Product performance

If you have any problems or identify any errors in this data product, or this user guide, please complete the product performance report form at [appendix A](#) and return it to us.

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Chapter 1 Introduction

Ordnance Survey's MiniScale is a small-scale product, designed for use within desktop graphic applications to provide simple backdrop mapping covering the whole of Great Britain. MiniScale is created using desktop graphic software so it can be customised and converted into any graphic format, without the need for a complex geographical information system (GIS).

MiniScale is aimed at professional/business markets, its graphic specification can provide assistance with:

- Producing simple, good quality mapping, ideal for use in magazines and brochures.
- Simplifying the creation of Web images for use on an Intranet or Internet site.

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 one hundred (100) metres on the ground. This resolution maintains the necessary clarity of text.

The mapping on this disk is provided in Macromedia® FreeHand®, Adobe® Illustrator®, Editable EPS and raster formats. Because MiniScale is provided in these industry-standard formats, information about how to use them is outside the scope of this document. Please refer to the user manuals provided with your software to use MiniScale. The accuracy of the mapping provided is subject to the limitations of its scale. Where possible features have been balanced to give a fair representation.

Chapter 2 Technical specification

Software requirements

MiniScale requires FreeHand 10 or higher, or Illustrator 10 or (see Notes for Illustrator users on page 7) higher running on a PC or Apple® Macintosh® platform. Other EPS-compatible software can also be used by importing the EPS files. Hardware requirements have not been determined but will require a reasonably well specified machine. The Photoshop® files require Adobe Photoshop software.

Specification	MiniScale																				
Data source	MiniScale is a redrawn and simplified product designed to meet the needs of the desktop graphics industry. It is based on a variety of Ordnance Survey digital datasets.																				
Availability	Great Britain																				
Scales	1:1 000 000 (1 mm = 1 km) MiniScale is designed to be used at viewing scales between 1:800 000 and 1:2 000 000																				
Physical size (at scale above)	Great Britain = 700 mm wide by 1 260 mm high (with Shetland Islands in position). Orkney and Shetland can be inset to reduce the height to about 1 000 mm.																				
Resolution	254 dots per inch																				
Data type	Non-GIS desktop graphic (vector or raster)																				
Data structure and size	<table><thead><tr><th colspan="2">Postscript vector</th><th colspan="2">Raster</th></tr><tr><th>Transfer format/s</th><th>Storage volumes *</th><th>Transfer format/s</th><th>Storage volumes *</th></tr></thead><tbody><tr><td>FreeHand 10 and MX</td><td>FreeHand 3.4 Mb</td><td>TIFF LZW compressed 254 dpi</td><td>TIFF 60–80 Mb (Choice of four styles)</td></tr><tr><td>Editable EPS</td><td>Editable EPS 16.7 Mb</td><td>Photoshop (PSD) CMYK</td><td>255 Mb</td></tr><tr><td>Illustrator 10</td><td>Illustrator 10 12Mb</td><td></td><td></td></tr></tbody></table>	Postscript vector		Raster		Transfer format/s	Storage volumes *	Transfer format/s	Storage volumes *	FreeHand 10 and MX	FreeHand 3.4 Mb	TIFF LZW compressed 254 dpi	TIFF 60–80 Mb (Choice of four styles)	Editable EPS	Editable EPS 16.7 Mb	Photoshop (PSD) CMYK	255 Mb	Illustrator 10	Illustrator 10 12Mb		
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Layers and styles	Yes (see list located below**)	TIFF – none PSD – See chapter 3
Update interval	Revised data supplied annually	
Current version	Great Britain = Release 7 (January 2005)	

* (total of all files)

** List of layers and styles for postscript vector only

Note for Adobe Illustrator CS users

Due to changes in Illustrator CS it hasn't been possible to supply a suitable CS version of MiniScale. Although the editable EPS files provided on disk will work in CS, they contain outlined text and Illustrator CS handles them in a different way from Illustrator 10.

Therefore if you need to edit the text in MiniScale, for example to change the type style or colour, then you will need to use FreeHand or Illustrator 10.

If you open the Illustrator 10 file in CS and allow it to update the text for editing, you will find that all the text shifts on the map.

Fonts

MiniScale names are set in Arial to ease cross platform use. This can be substituted for postscript versions of Helvetica or Arial with minimal impact on text positioning.

Colours

The default colours for objects in MiniScale are four-colour process (CMYK).

National Grid

A 10 km National Grid is provided in the main file, set as a non-printing layer. A 100 km grid is also provided as a separate layer. This is set as a visible layer by default. The 100 km grid is constructed from individual squares to enable them to be used easily for clipping, and so on. A non-printing layer holds the 100 km letter references to ease identification of the squares. For FreeHand users the rulers have been set to match the zero point for National Grid. When the file is used at 1:1 000 000 scale and providing the rulers and/or objects have not been moved, the measurements can be used as National Grid coordinates (preferences must be set to millimetres).

For example; the tip of Flamborough Head has a FreeHand coordinate of $x = 525.85$ mm and $y = 470.51$ mm which corresponds to a National Grid reference of 5258 4705 (or TA 258 705).

National Grid coordinates for the raster versions

The raster files have been provided for GIS users who might otherwise be unable to use the FreeHand or EPS files. The origin (lower left corner) of the GB file is 0,0 km and it finishes at 700 km east and 1300 km north of the National Grid origin. This equates, at 254 dpi, to 7000 pixels wide by 13000 pixels high. 100 km = 1000 pixels.

Georeferencing files

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 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 raster data is supplied to customers, it is not georeferenced in any way. This means that tiles will not be set up in geographical relationship to each other when loaded into a GIS.

Included on the CD are TIFF World Files (TFW) that can be used to georeference raster data in ESRI® ArcView® and ArcInfo® together with TAB files for use with MapInfo®. Georeferencing files can also be downloaded from the MiniScale web pages in the Technical Pages.

Please note there are some World Files available that contain only sea. Therefore there is no data available. These World Files have been created to allow customers to complete the coastline.

Using add-on files/merging earlier files

All secondary files have a common element, usually a piece of coastline or 100 km grid, used for fitting them to the main file. In FreeHand, the 'remember layer info' preference, and the 'snap to point' function are particularly useful for merging files.

The Isle of Man and the Isle of Wight remain compatible with previous MiniScale releases and can also be used to merge earlier work with this release.

Secondary files include:

- MiniScale legend and scalebar
- MiniScale gratical (Long and Lats at 30 min intervals)
- MiniScale layer tints (75 m, 200 m, 400 m, 600 m, 800 m and sea depths)

The legend file is used separately to the map whereas the gratical and layer tints would be merged when creating a custom map in FreeHand.

Features	Layer description	Style and content notes
Boundaries	National names	<i>For example England, Wales, Scotland</i>
	County or unitary names	<i>For example Dorset, Hampshire, and so on</i>
	National boundaries	<i>Dark grey line</i>
	County or unitary boundaries	<i>Light grey line</i>
Settlements	Urban primary names	<i>Primary destination towns with a large urban extent</i>
	Other urban names	<i>Other towns with a large urban extent</i>
	Primary town names	<i>Primary destination towns</i>
	Other town names	<i>Selected towns useful to MiniScale</i>
	Urban area fill	<i>Depicts extent of large urban areas</i>
	Alternative urban symbol	<i>Used to replace urban area fills if required</i>
	Other town symbol	<i>Small yellow dot</i>

Features	Layer description	Style and content notes
Communications	Motorway numbers	<i>Numbered where space permits</i>
	Primary A road numbers	<i>Numbered where space permits</i>
	Other A road numbers	<i>Numbered where space permits</i>
	Motorway junction numbers	<i>Access (full or limited) is distinguished by colour</i>
	Service areas	<i>Access (full or limited) is distinguished by colour</i>
	Motorways	<i>Solid blue line with white centreline</i>
	Primary A roads	<i>Solid green line – significant dual carriageways shown with yellow centreline</i>
	Primary dual-carriageway	<i>Significant lengths only</i>
	Other A roads	<i>Pink line</i>
	Roads under construction	<i>Only significant projects shown</i>
	Airports	<i>Symbol (with or without customs). Some, for example Heathrow are named</i>
	Domestic ferry routes	<i>Time of crossing shown where space permits</i>
	Railway lines	<i>Passenger routes only (main and other). Solid black line</i>
	Physical	Geographic feature names
Water feature names		<i>Selected names, for example Bristol Channel, Loch Lomond</i>
Scenic areas and ANOBs		<i>Green fill and named, for example Cotswolds, South Downs</i>
Forest Parks and National Parks		<i>Green fill and named, for example Dartmoor, New Forest</i>
Lakes and lochs		<i>Selection of major ones only</i>
Rivers		<i>Selection of major ones only; Thames, Severn, Trent, Dee and so on.</i>
Coastline		<i>High water mark only</i>
Background (land) tint		<i>Broken into shapes that match the boundaries</i>
Background (sea) tint	<i>Light blue fill</i>	

Features

Other

Extras (provided as separate files to fit MiniScale)

Some layer combinations may not be compatible

Layer description

National Grid

Longitude and latitude lines

Layer tints

Legend and scale bar

Shaded relief

Style and content notes

100 km grid and 10 km grid


















Great Britain

75, 200, 400, 600, 800 metres

Inset box

254 dpi 1:1M scale (in Photoshop file)

Legend

	Motorway, service area
	Junction, limited access
	Primary route
	Other main road
	Passenger railway
	County/Unitary boundary
	National boundary
	Domestic ferry route
	Airport with scheduled flights, with/without Customs
	Airport with non-scheduled flights, with Customs
	Heliport
	Urban area
	Primary town
	Other town
	National Park
	Forest Parks, New Forest and National Forest
	Areas of Outstanding Natural Beauty, or Scenic areas (Scotland)
	Lake or Loch
	Major rivers

Chapter 3 **Managing MiniScale files**

MiniScale has been created as a vector data graphic map favourable for use within desktop graphic applications. MiniScale's use within geographical information systems (GIS) will be limited to backdrop mapping using the TIFF format only.

MiniScale is supplied on one CD-ROM as a single data file in a variety of industry standard formats. The data is held in layers with styled objects for easy customisation of map images. These can be easily converted to web images using appropriate software (not supplied).

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 website at http://www.unisys.com/about__unisys/lzw/

File formats

MiniScale is maintained using FreeHand software. All the capabilities of editing and styling MiniScale may not be available in other applications. Raster versions are also provided at 254 dpi. The tiffs are LZW compressed and in RGB colours. A Photoshop (PSD) file (CMYK colours) is also provided. New raster files can be created, styled and layered as required, by using the FreeHand data.

Improved Photoshop file

The Photoshop file for Release 7 has been improved with a much greater range of layer choices. This is to facilitate the creation of different looking raster maps without the need to go back to the vector master. The Photoshop file also has the relief layer fitted to give even more options.

Ireland and Channel Islands

Parts of the French and Irish coastlines have been included to help give context to the position of Great Britain. Although reasonably accurate, they use different map projections to GB and fall outside the National Grid. Their position and scale are therefore approximate. This also applies to the Channel Islands.

Boundaries

National, County and Unitary Authority boundaries are shown. County and Unitary boundaries are depicted by the same style. Boundaries within the London Authority area are shown on a separate layer. The boundary layers are shown below the roads. This is to aid on-screen use. For output, it is recommended that these layers be moved above the road layers (but below the railways) to give the correct cartographic appearance when printed. When colour-separated for printing the grey boundary lines will 'overprint' the roads. This should, like all printing work, be tested by performing a separations proof before final printing.

Depiction of roads and towns

MiniScale shows three classes of roads; motorway, primary A-road and other A-road.

The primary (green) roads are the recommended through routes which compliment the motorway system. Where there are significant lengths of dual carriageway, they have been shown with a dual carriageway style. The primary roads link primary route destination towns, which appear on green road signs. In congested urban areas some roads have been omitted for clarity.

MiniScale settlements are shown in three levels; those with large urban extent (with separate layers for primary and non-primary names), primary route destination towns (large dot), and other towns useful to the map (small dot). Urban names have been given a range of point sizes and weights to visually differentiate them. No statistical relevance, such as size or population, should be inferred from this. Primary route destination names are all the same regardless of their physical size, thus the hamlet of Scotch Corner appears the same as a major town like Andover.

The urban area layer has an alternate layer of dots available should you wish to remove the urban area fill.

Welsh spellings

At the scale used for MiniScale it is impractical to show Welsh names with dual spellings (English and Welsh). However, the FreeHand file contains an extra layer of Welsh names which can be used to replace the English ones. This requires manual intervention, since the Welsh names are in the same position as the English names.

New shaded relief file

Release 7 now includes raster examples of MiniScale with shaded relief. These files can be used in the same way as the existing MiniScale raster images provided. The Photoshop file also contains the shaded relief as a layer that can be extracted and used with MiniScale in other ways.

Backup of the data

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

Appendix A Product and service performance report form

Ordnance Survey welcomes feedback from its customers about MiniScale.

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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