

# Barres II



## Instruction Manual

version II.5.0

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## Short introduction to barcodes

A barcode is a symbol used to represent a numerical or alphabetical code. One uses barcodes instead of characters in order to automate the acquisition process of the data for electronic material, almost a computer. A barcode scanner is able to 'read' a printed barcode quickly, it decodes the symbol, checks the validity of the resulting code, then send the code to the computer. The continuing expansion of bar codes in the modern world is a proof for the power of the solution.

A barcode is a simple graph, generally made up of large and thin vertical bars with large and thin spaces between them. Each character composing the code is translated in series of spaces and bars. Other informations are added to the graph, including mostly one or more checksum characters, and often an alphabetical representation, useful for the Human reader.

### Different barcode types :

Name	Composition	Usage	Graphic
UPC	12 digits numerical	Identification of retail goods in USA and Canada	 1 23456 78901 2
EAN <sub>13</sub>	13 digits numerical	Identification of retail goods worldwide (except USA/ Canada)	 1 234567 890128
JAN	13 digits numerical	Idem EAN <sub>13</sub> for Japan	 4 512345 678906
SCC <sub>14</sub>	14 digits numerical	Shipping cartons containing UPC or EAN identified products	 (01) 1 23 45678 90123 0
ISBN-EAN	13 digits numerical	Identification of books and videos in ISBN, encoded in an EAN barcode type	 ISBN 978-123-456-789-7 9 781234 567897

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## Presentation of Barres

### **Barres: the simple UPC / EAN<sub>13</sub> / SCC<sub>14</sub> barcode generator.**

A simple barcode generation application for all Macintoshes on Mac OS X (see requirements)

It can generate the following type of barcodes: UPC (12 digits), EAN<sub>13</sub> (13 digits), SCC<sub>14</sub> (14 digits) and ISBN-EAN (13 digits).

UPC and EAN codes are used globally for commerce, and make up an important part of the automated supply chain. If you have a product that you wish to sell and have stocked by retailers, then EAN/UPC symbol is a necessary investment!

The SCC<sub>14</sub> barcode type is used for labeling the containers which encloses at least one UPC-A or EAN-13 marked product.

With Barres, the simple barcode generator, you can generate the needed barcode graphic yourself, simply and inexpensively, using your Macintosh. Simply launch the application, type in the desired barcode number, and resulting barcode graphic is created, ready to be imported onto your favorite page-layout, word-processing or illustration program.

**System Requirements:** Macintosh, with PowerPC or Intel processor, running Mac OS X 10.4 minimum, up to system X.5 (Leopard).

The barcodes that Barres is designed to draw are:

**UPC A**<sup>1</sup>..... used for retail products in the U.S.A. and Canada

**EAN 13**<sup>2</sup>.....used for products in-store World-wide (except USA and Canada)

**JAN 13**<sup>3</sup>..... the japanese version of EAN<sub>13</sub> bar code

**EAN Bookland**<sup>4</sup> ..ISBN for books, video,... which is encoded in EAN<sub>13</sub> format

**SCC 14**<sup>5</sup> ..... shipping cartons containing products, themselves identified with an UPC or EAN barcode

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<sup>1</sup> See <http://www.log-1.com/en/Barres/Barcodes/UPCA.html>

<sup>2</sup> See <http://www.log-1.com/en/Barres/Barcodes/EAN13.html>

<sup>3</sup> See <http://www.log-1.com/en/Barres/Barcodes/JAN.html>

<sup>4</sup> See <http://www.log-1.com/en/Barres/Barcodes/ISBNEAN.html>

<sup>5</sup> See <http://www.log-1.com/en/Barres/Barcodes/SCC14.html>

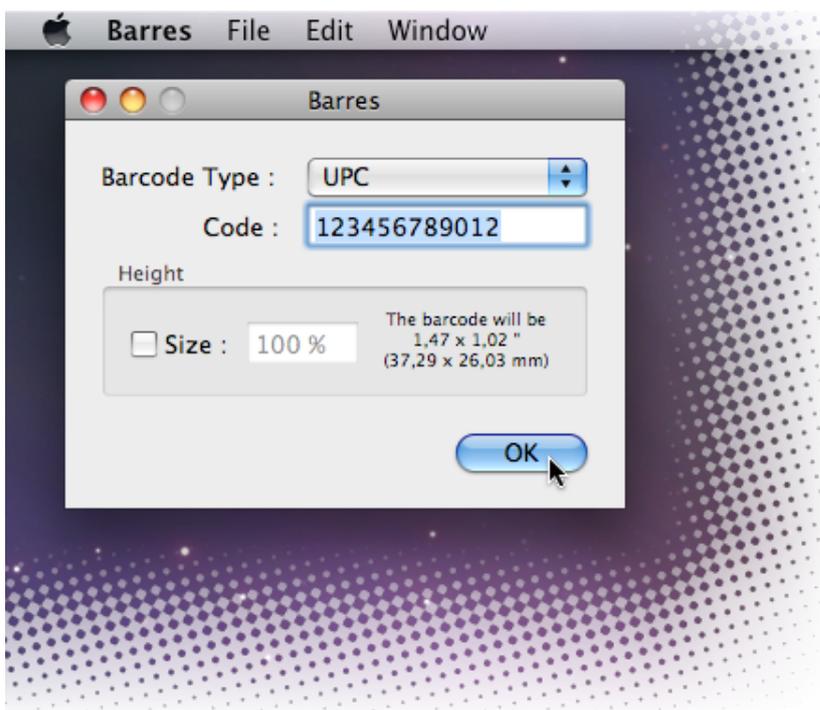
## How to use the Software

### Installation

After downloading, you find an archive containing the Software (zip file), if it didn't expand automatically, you can double-click on it to expand with the Finder. After expansion of the archive, you will have a new folder named Barres V II.5.0 on your Mac. We recommend to place Barres' folder in the Application folder, so the program will always be in a known place.

### Utilization

When you launch Barres, a dialog-box appears, requesting for a selection of the barcode type, eventually it's vertical size (from 10 to 999 % of the nominal size), and a text-input.



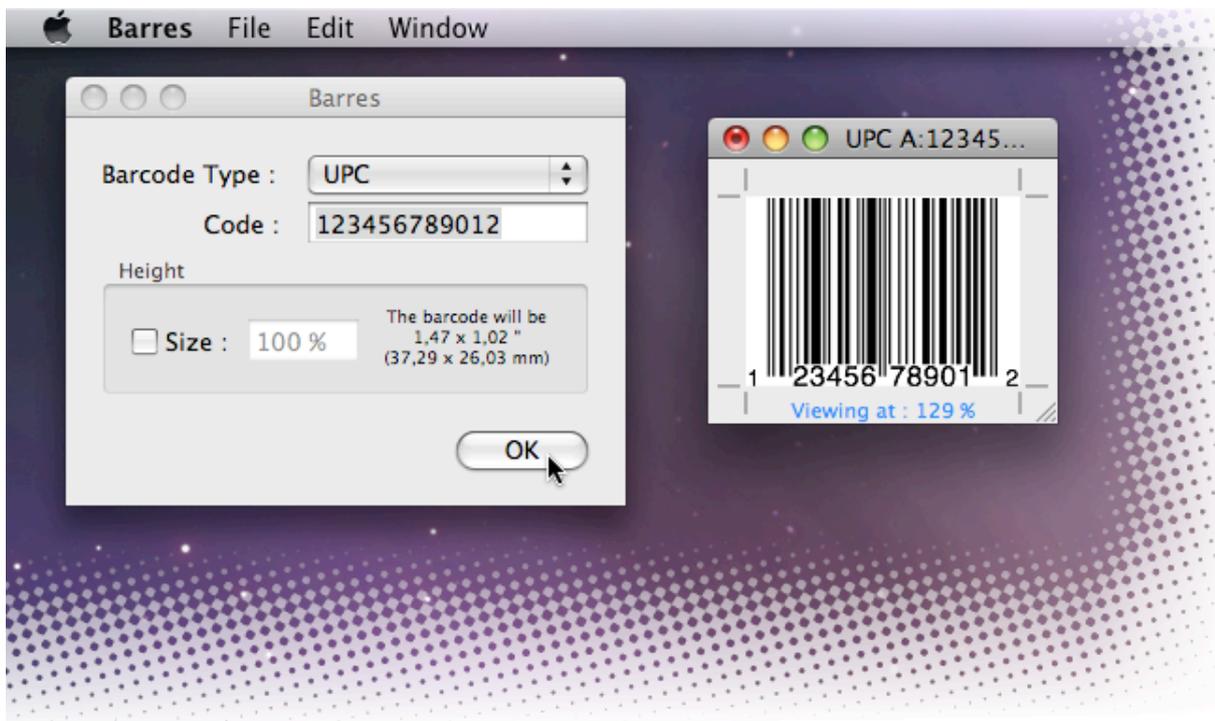
You then choose the type of barcode, according to your needs, choosing UPC, EAN 13, ISBN or SCC 14 and you enter the value, either by typing, or by copying from the clipboard.

You can enter the full code, including the checksum(s), or just the significant part of the number (for instance, the first eleven digits for an UPC barcode).

In all cases, the software will calculate the checksum, and add it if you didn't give it, or replace it if you entered a wrong one.

If you want to change the height of the barcode, click on the “Size” checkbox (if it isn't selected). This will unlock the percentage field, and you'll be able to type any value between 10 and 999 % (you should be careful: it could be difficult to read the code with a barcode scanner, if it is too small). The final size of the barcode graphic, if printed at 100%, is constantly updated in the dialog, in inches and in millimeters

The image of the barcode is then displayed in a new window, ready to be used.



Then, you can save the vector graphic for use in your composition, either in epsf format (preferred option for use in a desktop publishing software), or in pdf format.

The file default name is the concatenation of the barcode type's name and the code.

The two graphic formats are vector-based formats, they can be resized without losing quality; the bars and the text are black (the color can be changed with any

drawing software), and the background is transparent. If you don't change the barcode color, the black color is in overlay mode, useful if the barcode is printed over a colored background.

The "eps" format is been optimized for use with Postscript systems used for professional publishing. The eps generated file is in CMYK mode and the black used for the bars and the digits overlays the background. The font used is a regular Helvetica. The file can be imported directly in an image block in XPress (3.32, 4.1 and 6.1 have been tested) and in InDesign (2 and CS have been tested), but it can also be opened with Illustrator (8 to CS have been tested). This software has been tested in real use with a 2400 dpi imagesetter.

You can also rasterize the picture with Photoshop (5, 7 and CS have been tested): you should use a resolution between 600 and 1200 dpi in "Greyscale" mode, then convert in "Bitmap" mode with the option "50% threshold" and save in TIFF format. The TIFF file can be colorized with XPress or InDesign if necessary. You should NEVER print the rasterized barcode in "CMYK" or "Greyscale" mode, this two image modes are not suitable for a barcode scanner readable reproduction.

And there you go! Now you know that there's nothing simpler than barcoding. You see, in the time it has taken to read this explanation you could have generated some barcodes.

## How to buy Barres

You can buy the software online, from our Web site:

<http://www.log-1.com/en/Barres/Buy.html>

You'll be redirected to Plimus or Kagi, two well-known paiement processors, which deal with the transactions for us, in their **secure** web sites.

You can read their Policys online: for [Plimus](#) and for [Kagi](#).

### Method of payment

Here are the payment option you have for buying Barres.

- Credit card (the more common way, and probably the easiest). Please note that you enter your credit card detail securely in Plimus or Kagi web site
- Paypal (transfer from your Paypal account)
- Wire transfer (additional fees apply)
- Phone orders: credit card by phone, with additional fees (manual processing)
- Fax: credit card by fax, with additional fees (manual processing)
- Mail: credit card, or check or money order, additional fees apply (manual processing)
- Local bank transfer

Please note that, whatever option you choose, you must enter Plimus or Kagi from our Web site at <http://www.log-1.com/en/Barres/Buy.html>, and fill a form to initiate the payment and follow the instructions.

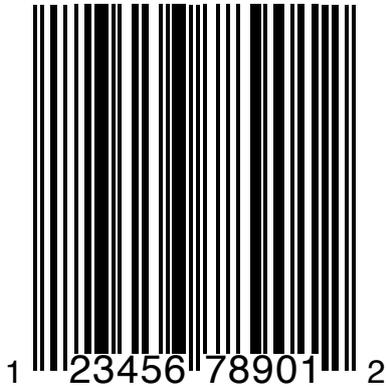
### Price

The price is \$40 (or 25 €) per license until 4, and \$36 (or 22 €) per license for five licenses and up.

**Attention:** For the European Union citizens, V.A.T. will be added to the price, with the actual rate used for your country. VAT will not be added if you buy for a company and fill your E.U. VAT number. You can refer to [this table](#) to see Barres' price in euro, including VAT, for each European Union country.

## UPC barcode samples

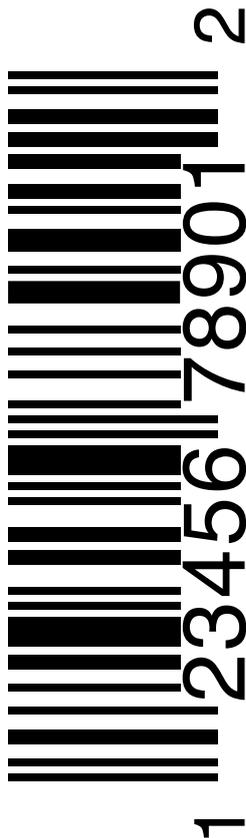
Size : 135 %, height : 150 %



Size : 200 %



Size : 350 %, height : 33 %



Size : 100 %

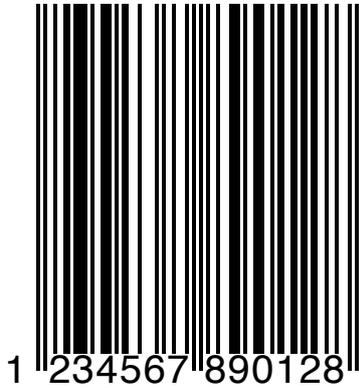


Recommended sizes		
%	Size of Barcode: width x height (quiet zone included)	
	<i>millimeters</i>	<i>inches</i>
80	29,83 x 20,73 mm	1.17 x 0.82 "
90	33,56 x 23,32 mm	1.32 x 0.91 "
<b>100*</b>	<b>37,29 x 25,91 mm</b>	<b>1.47 x 1.02 "</b>
110	41,02 x 28,50 mm	1.61 x 1.12 "
120	44,75 x 31,09 mm	1.76 x 1.22 "
130	48,48 x 33,68 mm	1.91 x 1.33 "
140	52,21 x 36,27 mm	2.06 x 1.43 "
<b>150</b>	<b>55,94 x 38,87 mm</b>	<b>2.20 x 1.53 "</b>
160	59,66 x 41,46 mm	2.35 x 1.63 "
170	63,39 x 44,05 mm	2.50 x 1.73 "
180	67,12 x 46,64 mm	2.64 x 1.83 "
190	70,85 x 49,23 mm	2.79 x 1.94 "
<b>200</b>	<b>74,58 x 51,82 mm</b>	<b>2.94 x 2.04 "</b>

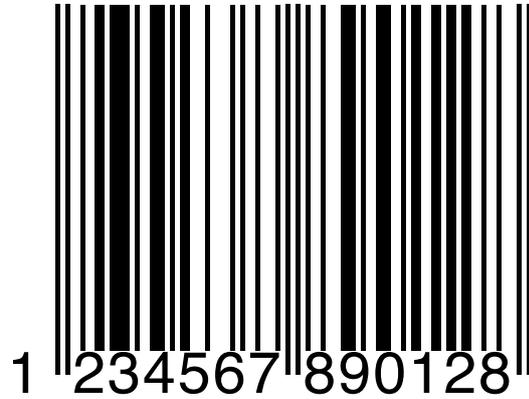
\* : nominal size

## EAN 13 barcode samples

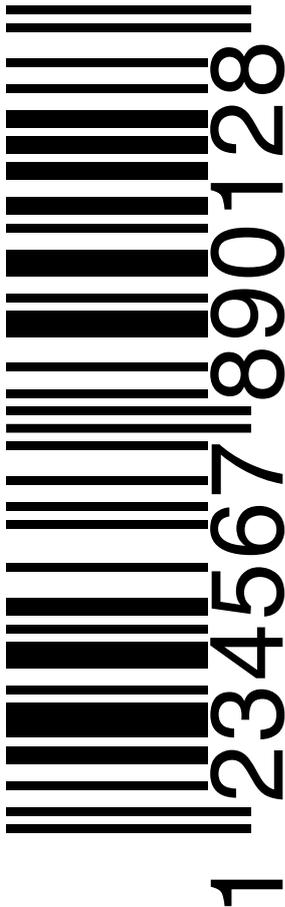
Size : 135 %, height : 150 %



Size : 200 %



Size : 350 %, height : 33 %



Size : 100 %



Recommended sizes		
%	Size of Barcode: width x height (quiet zone included)	
	<i>millimeters</i>	<i>inches</i>
80	29,83 x 20,73 mm	1.17 x 0.82 "
90	33,56 x 23,32 mm	1.32 x 0.91 "
<b>100*</b>	<b>37,29 x 25,91 mm</b>	<b>1.47 x 1.02 "</b>
110	41,02 x 28,50 mm	1.61 x 1.12 "
120	44,75 x 31,09 mm	1.76 x 1.22 "
130	48,48 x 33,68 mm	1.91 x 1.33 "
140	52,21 x 36,27 mm	2.06 x 1.43 "
150	55,94 x 38,87 mm	2.20 x 1.53 "
160	59,66 x 41,46 mm	2.35 x 1.63 "
170	63,39 x 44,05 mm	2.50 x 1.73 "
180	67,12 x 46,64 mm	2.64 x 1.83 "
190	70,85 x 49,23 mm	2.79 x 1.94 "
200	74,58 x 51,82 mm	2.94 x 2.04 "

\* : nominal size

# SCC 14 barcode samples

Size : 100 %, height 50 %

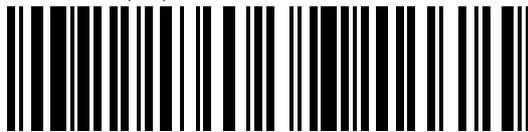


Recommended sizes		
%	Size of Barcode: width x minimal height (quiet zone included)	
	millimeters	inches
50.8	80,77 x 31,75 mm	3.18 x 1.25 "
63.5	97,79 x 31,75 mm	3.85 x 1.25 "
76.2	117,35 x 31,75 mm	4.62 x 1.25"

Please note that the barcode **MUST** be downsized before printing

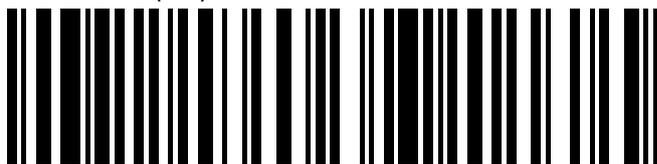
Size : 50,80 %

(01) 1 23 45678 90123 1



Size : 63,5 %

(01) 1 23 45678 90123 1



Size : 76,2 %

(01) 1 23 45678 90123 1

