Enfocus

Instant Barcode 1

Quick-Start Guide

enfocus

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About Instant Barcode

Enfocus Instant Barcode allows creative professionals to easily create, verify, fix and read barcodes directly within the familiar environment of Adobe® Illustrator®. It supports the most commonly used barcode system, including EAN-8, ISSN and ISBN making it easy to integrate any of in the design. Instant Barcode automatically ensures the barcode is of good quality placing it on white rectangle if needed or warning when it is not properly scaled.

The advanced barcode preflighting capabilities allow to check the amount and type of barcodes used in the document. It also verifies the barcode height, the number of colors used and whether it is set to in overprint or not. Instant Barcode generates comprehensive reports in plain text, HTML or XML. As with Enfocus' PDF preflighting technology certain errors can be fixed during verification.

The measurement of existing barcodes is simply carried out by the end user 'swiping' the mouse cursor over a code, which will then be instantly read, so that he can see at a glance if the correct code has been used. Through clear visual feedback on the quality of the codes Instant Barcode provides a reliable solution for your barcode creation and verification needs.

Installing Instant Barcode

System Requirements

Instant Barcode runs on Windows and on Mac OSX, as a plugin for Illustrator CS and Illustrator CS2.

The full system requirements can be found in the Read Me file included in the installer.

For UPC/A, UPC/E, ISBN, ISSN and UPC/A Coupon barcodes, the OCRB font is needed.

For Marks & Spencer 7B barcodes, the OCRB and Gill Sans Bold font is needed.

Installation

Enfocus Instant Barcode is installed by running the Setup program. For Windows this is called "Enfocus_IB1.0US_Setup.exe" and for Macintosh it's Enfocus_IB1.0US_Setup.tar.gz" before expansion and "Instant Barcode (US)" once expanded. Double click the Setup program and follow the on-screen prompts to install the software. Please take your time to read the Read Me information included in the Installer.

On Windows, it is possible to install both an Illustrator CS and an Illustrator CS2 version at the same time. On Macintosh, only one version can be installed at a time.

About the trial version

After installation, you will be provided with a trial version of the Instant Barcode plugin.

You can use the trial version for evaluation purposes for a 30-day trial period. After this 30-day period, the plugin will expire.

Note that the trial version has restricted functionality. Registering with a valid Product Key will remove all of these restrictions.

In trial mode, there is no restriction in the number of supported barcode types, but there is a restriction in the set of barcodes.

See also:

- Product Key Activation on page 7

Generating barcodes in trial mode

You can only enter 0, 1 and 2 as valid digits to build your codes with. Any other digits will automatically be changed to 0. Only for the checksum digits, values other than 0, 1 and 2 are accepted.

Verifying barcodes in trial mode

The Measure Barcode tool will work on all barcodes but read results may differ:

- The read results will be updated when the read barcode only contains 0, 1 and 2 (not counting the checksum digits), so in fact the barcode sets that can be generated in trial mode.
- The read results will not be updated when the read barcode consists of other digits. In this case the measured barcode will be selected.
- In the Instant Barcode CheckUp dialog some characters of the read results for 'Search All Barcodes' will be replaced by 'DEMO'.
- Some characters in the report will be replaced by 'DEMO'.

Working with Barcode Profiles in trial mode

- Barcode Profiles cannot be loaded or saved.
- The 'Fix It' options in the Barcode Profiles are disabled.
- Report type 'XML' cannot be selected.

Filter menu in trial mode

In the Illustrator Filter menu, the item 'Enfocus Instant Barcode' offers the options 'Change Bar Width Reduction' and 'Fix Deviation'. In trial mode these are disabled.

Product Key Activation

To register Enfocus Instant Barcode:

1. Launch Adobe Illustrator
2. Go to "About Plug-ins" in the Illustrator menu (below "About Illustrator")
3. Select "Enfocus Instant Barcode" in the list of plug-ins
4. Click the "About" button
5. In the About Enfocus Instant Barcode, click the "Register" button
6. Enter User name, Organisation name and Product Key, and click "Register"
7. Click OK to browse to the Enfocus website for online registration
8. Click OK
9. Click Done

Change / Check Registration

To check your registration, check the remaining trial period, find support information or change your Registration :

1. Launch Adobe Illustrator
2. Go to "About Plug-ins" in the Illustrator menu (below "About Illustrator")
3. Select "Enfocus Instant Barcode" in the list of plug-ins
4. Click the "About" button

About Barcodes

What are barcodes ?

A barcode is a machine-readable representation of information in a visual format on a surface. Originally barcodes stored data in the widths and spacings of printed parallel lines, but today they also come in patterns of dots, concentric circles, and hidden in images. Barcodes can be read by optical scanners, allowing quick and easy identification of all kind of goods.

The information contained in a barcode varies from numbers (often linked to Database entries) to complete ASCII texts. The drive to encode ever more information in combination with the space requirements of simple barcodes led to the development of matrix barcodes or 2D barcode, which do not consist of bars but rather a grid of square cells.

1D Bar Code : EAN13

2D Bar Code : Data Matrix

Barcode types

Worldwide, there are over 100 systems and variations in use. The most commonly used systems are :

- EAN: European Article Number. Most common variations are EAN 13 and EAN 8 (short version)
- UPC/A and UPC/E: Universial Product Code, used mainly in the US.
- ISBN and ISSN: for books resp. magazines, newspapers
- Code 128, Code 39, Pharmacode, ...

The codes supported by Enfocus Instant Barcode, and their specifications, can be found in Barcode Types on page 17.

Creating & Measuring Barcodes

Create a new barcode

The Create Barcode Tool allows to create a new barcode. By selecting the Create Barcode Tool, the Instant Instant Barcode Toolbox will open.

To create a barcode:

1. Select the Create Barcode tool from the Illustrator toolbar, or open Window > Enfocus Instant Barcode > Show Barcode Toolbox.
2. Select the barcode type in the Instant Barcode Toolbox
3. Enter the code to be used
4. Set the options found behind the triangle button (Self Check, Allow Illegal Values, etc.)
5. Enter the data needed : Bar Width Reduction, Magnification, etc.
6. Click on the page to generate the barcode.

The barcode will be generated with its lower left corner at the location where you clicked. All artwork of the barcode will be selected, allowing easy positioning using Illustrators standard tools.

See also:

- Instant Barcode Toolbox on page 11

Self Check

If the Self Check option is enabled, Instant Barcode will measure a barcode after creating it. If this measuring gives a wrong result (e.g. if a large bar width reduction is used, or a bar width reduction on barcodes with small magnification value) a warning will be given.

Allow Illegal Values

If this is enabled, it is possible to generate barcodes using illegal parameters. Disable this to prevent generating out-of-spec barcodes.

Scale Bar Height with Barcode Width

Instant Barcode doesn't change the bar heights when the magnification factor is changed. However, if this option is on, the default bar height will be changed according to the magnification as set.

Add Erase Box

By default, Instant Barcode creates an erase box behind a barcode, to erase any data that could interfere with the barcode itself. If the design is already adjusted in such a way that there will be no interference, no erase box needs to be added, so the option can be disabled.

Create Text Outlines

If this option is on, Instant Barcode will convert all text in the barcodes to outline. This can be useful to avoid the need for specific barcode fonts (e.g. OCRB) on every workstation.

Measure Barcode Tool

To measure a barcode already in the design, use the Measure Barcode Tool. By selecting the Measure Barcode Tool, the Instant Barcode Toolbox is opened.

To measure a barcode:

1. Select the Measure Barcode tool.
2. Drag a line over the entire barcode to be measured. The line is restricted to vertical or horizontal
3. If a valid barcode is found, the barcode parameters will be filled-in in the dialog

If no valid barcode was found, a beep will sound.

If a valid barcode was found, the barcode will be selected.

If the barcode could not be selected (e.g. if it is on a locked layer), you should rely on the beep to know if a valid barcode was measured.

Alternate solutions

In some rare cases, the same barcode can be generated from two different barcode types, e.g. some EAN 13 and UPC/A codes generate the same barcodes. In this case the "Try Again" button will be enabled. Clicking this button will display the next matching barcode properties.

The Measure Barcode Tool does NOT measure the "Quiet Zone" and the contrast with background objects. No warnings will be generated if the barcode is not compliant to the specs.

UPC Before EAN

In the cases where both an EAN13 and UPC/A solution is found when measuring, the EAN13 code is shown first. By clicking the "Try Again" button, the UPC/A solution is shown.

In Europe, where EAN is used more often, this is fine, but in the US, it would be useful to switch the search order, so that the first solution shown, is the UPC/A barcode. In order to do this, enable the UPC Before EAN option.

Instant Barcode Toolbox

The Instant Barcode Toolbox allows to set all parameters for a barcode to be created. It will also show the parameters of a barcode that was measured.

When creating a barcode, a warning sign will be shown for incorrect settings that cannot be corrected automatically. If the value can be corrected automatically, a warning dialog will be shown, and the corrections can be applied (e.g. if the check digit is incorrect).

Barcode Type

The top dropdown shows the selected barcode type. A brief specification for every type of barcode can be found in Barcode Types on page 17.

Instant Barcode adds dashes in some codes (e.g. EAN13) to increase readability. These dashes are not really part of the code nor the standard.

Bar Width Reduction

The Bar Width Reduction reduces the width of the bars, to compensate for the growth on the printing press. These values are usually provided by the printer.

A positive value will reduce the width of the bars. Instant Barcode will check if the value still allows the creation of a valid barcode. A Bar Width Reduction that is too high (e.g. some bars might disappear) will generate a warning sign.

Magnification

Barcodes have a "standard" size. The Magnification sets the enlargement or reduction of the barcode. The maximum and minimum values are determined by the barcode type. For most barcodes, this value should be between 80% and 200%.

For Belgian Pharma, MSI, Plessy and ITF barcodes, changing the magnification does NOT change the height of the barcode.

For ITF barcodes, also the bearer bars and end bars (only if both are applied), as well as the text size, are not influenced by the magnification.

Bar Height

If the Bar Height is set at 0, the barcode will have the standard height. If you want higher barcodes, enter the desired height. This entered height will not be influenced by the magnification.

If a barcode is smaller than the standard size, a warning sign will be shown.

Wide/Narrow ratio

The Wide/Narrow ratio is only available for ITF barcodes. It sets the width ratio of the bars.

Deviation

When a barcode was measured, the bottom of the dialog will show Max and Mean Deviation.

After measuring, Instant Barcode will internally create the barcode using the parameters and values as measured. This "ideal" barcode is then compared to the actual barcode. The Max value shows the maximum deviation between the ideal and the actual barcode, while the Mean value shows the average deviation between the actual bars and the "ideal" bars.

These values give an indication of the quality of the measured barcode, and might help to decide whether a barcode is acceptable for output, or if it needs to be recreated.

Add Quiet Zone Indicators

Instant Barcode will add a '<' to the left of the human readable text of the barcode, and a '>' to the right, which indicate the borders of the quiet zones. The quiet zone is a blank (or quiet) zone in front and after the barcode, allowing optic reading.

The quiet zone indicators will be omitted if there is human readable text in the zone where they should be placed. For example, a UPC/A barcode has both a character to the left of the first bar and to the right of the last bar. These characters would overlap with the quiet zone indicators, thus the quiet zone indicators will be omitted.

Add Bearer Bars

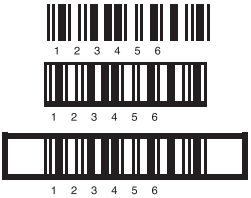
Some barcodes, like ITF and Code 128 have the option to add a bearer bar at the top and the bottom of the bars. This will prevent misreading of these types of barcodes when the barcode scanner reads the bars diagonal. Enabling this option will add the bearer bars at the correct position.

Add End Bars on Bearer Bars

Barcodes that support Bearer Bars also have the option to add a thicker end bar at both sides, to make the barcodes even more reliable. This option is only enabled in combination with Bearer Bars.

For ITF and ITF14 barcodes, with both Bearer bars and End Bars, the width of the bars is fixed at 4.8mm, regardless of the magnification.

For some barcodes (e.g. ITF14) the End Bars function is enabled, while the Bearer Bars button is disabled, as the Bearer Bars are obligatory for the selected barcode type.



From top to bottom :

- ITF without Bearer Bars
- ITF with Bearer Bars
- ITF with Bearer Bars and End Bars

Use OCRB as Default Font

Instant Barcode will use Helvetica for all readable text where the font is not specified in the barcode specifications. If this option is on, the OCRB font will be used in all default cases, when available on the computer.

Text Alignment

Several types of barcodes, e.g. Code 128, UCC/EAN 128 and ITF, do not specify how human readable text should be aligned under the bars. In that case, the alignment is set using the Text Alignment button.

If this buttonis not enabled, text will be aligned justified. When enabled, text will be centered under the bars.

For ISBN barcodes, the only text influenced, is the text op top of the barcode. This text will not be justified, but will be aligned left, if the button is not enabled. If it is, text will be centered.

- ITF Justified

- ITF Centered

- ISBN13 Bookland EAN, Left aligned

- ISBN13 Bookland EAN, Centered

Text Scaling

Barcodes that support non-digit characters sometimes give unexpected small human readable text upon creation. The Text Scaling allows to set a scaling to all text characters.

The text size of barcodes without Text Scaling enabled, depends on the magnification.

ITF, Code 128 and UCC/EAN 128 codes will take the specified Text Scaling size, regardless of the magnification.

Code 39 and Codabar will take both magnification and text scaling into account.

Checking Barcodes

Barcode Checkup

The Instant Barcode Checkup function can be used to search for all barcodes, and get all the information, or to check the barcodes to a predefined Barcode Profile. A Barcode Profile is a number of criteria to check barcodes.More on how to set a Barcode Profile can be found in Barcode Profiles on page 15.

Search All Barcodes

When clicking the Search All Barcodes button, all barcodes in the document will be searched and listed. The number of barcodes found is shown at the bottom of the dialog.

For every barcode, the barcode type, code, magnification, bar width reduction, bar height, and the mean and max. deviation is shown.

Search All Barcodes using Barcode Profiles

If a Barcode Profile is set, the name of the profile is shown on top, and if fixes are enabled, the Fix icon will be shown, indicating that changes might be made.

For every barcode, a green tick or a red cross will be shown, showing whether or not the barcode is according to the criteria set in the Barcode Profile.

Next to the Found number at the bottom, a green tick or red cross is shown. A green tick means all barcodes are matching the criteria. As soon as one criteria doesn't match, a red cross is shown.

Select Barcode

If a barcode is selected in the list of barcodes found, the Select Barcode button can be used to select the barcode artwork, and zoom in on it.

Generate Report

The Generate Report button allows to create a Report file. A browse dialog will open, to select name and location for the report file.

If no profile is set, the Report file will only contain all information for every barcode.

If a profile is set, the Report file will also contain information on the profile used, errors found, and an overall document status.

Report Settings

The Report Settings, found under the triangle menu, allow to set the file format (Text, XML or HTML) for the report, the units (default: mm), and the Report Name. This name is by default set to "CheckupReport", but you can compose it yourself, using fixed text before and/or after the original file name.

If the Generate Report On Select option is on, a Report will be generated every time the Search All Barcodes button is applied.

Barcode Profiles

Barcode Profiles allow to set a number of criteria to check barcodes. You can define and edit profiles, using "Edit Profile", found under the triangle button.

Load / Save / Save as

Profiles can be saved as .bcp files. Loading a profile will show the settings of that profile. The settings as shown will be used when checking the file.

Underneath the Profile Name, the save date and Check sum for the profile are shown.

Profile Criteria

The criteria that can be set in a profile are:

- Check if all barcodes are equal.
- Count Barcodes: to define the number of barcodes.
- Check code: to check for a specific code.
- Check Type: check for the used barcode type.
- Check BWR: check the used Bar Width Reduction.
- Check Magnification: check if the Magnification is between the entered values.
- Check Bar Height: check if the bar height is between the entered values.
- Check W/N Ratio: checks the Wide/Narrow ratio when applicable.
- Check if the Deviation is smaller than or equal to the entered value.
- Check if the barcode is filled by a single solid color.
- Check if the barcode is set to Overprint, fully opaque (opacity=100%) and using Blend Mode "Normal" or "Multiply".

Only Overprint means that only Blend Mode "Normal" is accepted.

The first two criteria, Check if all barcodes are equal, and Count Barcodes only influence the Overall status. If one of these is set, it is possible to have an overall Error status, while the individual barcodes are Ok.

Fixes

The Bar Width Reduction, Deviation and Overprint settings can be fixed when checking the barcodes by switching on the Fix options.

See also Filters on page 16

Example Profiles

The Examples folder (next to the Plug-in, in Resources > Help > enUS > Examples) contains a profile for every type of barcode, containing the criteria as set by the specifications for that barcode type.

Filters

In the Adobe Illustrator "Filter" menu, the item "Enfocus Instant Barcode" is added. This contains two actions: Change Barcode Bar Width Reduction and Fix Barcode Deviation.

Change Barcode Bar Width Reduction

This action allows to change the Barcode Width Reduction for all barcodes in the document. This function will prompt for the desired Bar Width Reduction, and then search all barcodes, and change their Bar Width Reduction if possible. The number of barcodes found and the number of barcodes that were modified will be shown.

Fix Barcode Deviation

The Fix Barcode Deviation action allows to fix barcodes with a large deviation. This function will search all barcodes, and will reduce the deviation of these barcodes to the minimum as possible in Adobe Illustrator. The number of barcodes found and the number of barcodes that were modified will be shown.

Barcode Types

First a small explanation of all barcode types is given. Next, the entry format for every barcode is shown.

EAN 8 / 13

EAN or European Article Number is the international standard for article numbering in Europe. EAN8 is the short version of 8 digits. EAN13 is the standard version of 13 digits whereas the last digit is the check digit. An EAN13 code can have 2 or 5 additional add-on digits.

Code 128

Code 128 is a barcode used in a large number of applications, a.o. in the medical pharmaceutical industry. It can contain any ASCII text.

UPC/A and UPC/E

Universal Product Code or UPC is the standard for article numbering in the US and Canada. It is compatible with (but not equal to) the EAN system. UPC/A is the standard version of 12 digits, whereas the last digit is the check digit. UPC/E is the abbreviated form. It can be 7 or 12 digits, whereas the first must be 0 and the last is the checkdigit. Note that when used in the long version, the characters must be compliant to the limits imposed for UPC/E

Both UPC/A and UPC/E can have 2 additional add-on digits. UPC/A can also have 5 add-on digits.

ITF (Interleaved 2 of 5) / ITF14

ITF is a barcode originally used for transportation packaging. These usually are low quality printed cardboard boxes, therefor the barcode is very tolerant.

ITF can have any even number of digits. ITF14 is a more standardized version containing 14 digits, of which the last is the check digit.

UCC/EAN 128

UCC/EAN 128 is a barcode that allows more information to be included in the barcode, such as expiration date etc. Every block is preceeded by an Application Identifier (AI) between brackets, indicating the meaning and the length of the following block.

Code 39 (3 of 9)

Code39 is a barcode frequently used in industrial barcoding systems, mainly in the US. It allows digits, uppercase characters and some special characters (-, %, $, , ., +, /)

JAN 8 / JAN 13

Jan 8 and Jan 13 (Japanese Article Numbering) are the Japanese equivalent for EAN 8 and EAN 13. They always start with 45 or 49.

Plessey (CRC)

The Plessey code, originated in England, is applied in the retail, hardware and grocery sectors. The CRC version contains a 2 digit crc check.

MSI

MSI was developed by the MSI Data Corporation, based on the original Plessey Code. MSI, also known as Modified Plessey, is used primarily to mark retail shelves for inventory control. There are 3 versions, each using a different check digit : Modulo 10, Modulo 11 and Modulo 10-10.

Codabar / Traditional Codabar

Codabar is a barcode used in industrial and non-grocery applications. The Traditional Codabar uses the bar width and height as defined in the older specifications. Codabar uses the newest specifications.

ISBN (Bookland)

ISBN or International Standard Book Numbering is a unique number used for books. The ISBN barcode is a 10-digit barcode. The new ISBN-13 Bookland EAN code is following the EAN standards, and always starts by 978 or 979. Both can have a 5-digits add-on.

Belgian Pharma

Belgian Pharma or APB (Algemene Pharmaceutische Barcode) is used in the Belgian pharmaceutical industry and is based on the Plessey / MSI code.

ISSN

ISSN (International Standard Serial Number) is the same as ISBN, but for magazines etc. It exists in a 8-digit version, and a 8+2 digit version. Both can have a 2 digit add-on.

For ISBN and ISSN codes, the position of the dashes may be depending on the actual code.

EAN13 / UPC/A Coupon

The Coupon barcodes consist of a EAN13 or UPC/A code on the left, with an additional barcode to the right, containing additional information. The additional barcode exists in 5 formats.

Note that the EAN13 or UPC/a code needs to be entered along with the "coupon" code.

Marks & Spencer 7B

Marks and Spencer use this barcode type in store for retail sales. This barcode is a subset of EAN 8, introduced in 1990 by the Marks & Spencers company. It is intended for use on products for in-store use throughout the Marks & Spencer's chain.

Entry Formats

Barcode Type	Code Entry Format
EAN 8	dddd-dddd
EAN 13	d-dddddd-ddddd c
EAN 13, 2 add-on digits	d-dddddd-ddddd c-dd
EAN 13, 5 add-on digits	d-dddddd-ddddd c-ddddd
Code 128	any ascii string
UPC/A	d-ddddd-ddddd-c
UPC/A, 2 add-on digits	d-ddddd-ddddd-c-dd
UPC/A, 5 add-on digits	d-ddddd-ddddd-c-ddddd
UPC/E	0-ddddd-ddddd-c or 0-ddddd-c
UPC/E, 2 add-on digits	0-ddddd-ddddd-c-dd or 0-ddddd-c-dd
ITF (interleaved 2 or 5)	an even number of digits
UCC/EAN 128	one or more times (d..d)d...d or (d..d)a...a
Code 39	digits, upper case characters, dash, percent, dollar, space, dot, plus, slash
ITF14	ddddddddddddc
JAN 8	dddd-dddd. First 2 digits are 45 or 49
JAN 13	d-dddddd-ddddc. First 2 digits are 45 or 49
Plessey	any number of digits
Plessey CRC	any number of digits, ending by a 2 digit check
MSI	any number of digits. Last is check digit
Codabar	a/b/c dd..dd abc : any number of digits, preceeded and followed by a, b or c
Traditional Codabar	a/b/c dd..dd abc : any number of digits, preceeded and followed by a, b or c
ISBN (Bookland)	d-ddd-ddddd-c
ISBN (Bookland), 5 add-on digits	d-ddd-ddddd-c-ddddd
ISBN-13 (Bookland EAN)	ddd-d-ddd-ddddd-c

Barcode Type	Code Entry Format
ISBN-13 (Bookland EAN), 5 add-on digits	ddd-d-ddd-ddddd-c-ddddd
Belgian Pharma	dddd-ddc
ISSN	dddd-dddc or dddd-dddc(dd)
ISSN, 2 add-on digits	dddd-dddc-dd or dddd-dddc(dd)-dd
EAN13/ UPC/A Coupon Format 1	(EAN13 or UPC/A code) (8100)d ddddd
EAN13/ UPC/A Coupon Format 2	(EAN13 or UPC/A code) (8101)d ddddd dddd
EAN13/ UPC/A Coupon Format 3	(EAN13 or UPC/A code) (8100)d ddddd (21)d…d
EAN13/ UPC/A Coupon Format 4	(EAN13 or UPC/A code) (8101)d ddddd dddd (21)d…d
EAN13/ UPC/A Coupon Format 5	(EAN13 or UPC/A code) (8102)dd
Marks & Spencer 7B	ddddddc

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