

# PrecisionID QR Code Barcode Font User Manual



## [PrecisionID QR Code Barcode Font](#)

### ***Limitations of the Demo Version:***

*To provide the quickest implementation, consider licensing this product instead of using the demo. The licensed version is provided with a 30 day money back satisfaction guarantee. The demo version of this product includes a fully functional 2D font and is designed only for the purpose of testing the font in various applications and point sizes. To generate dynamic symbols, a font encoder is required to format the data being encoded into the 2D symbol. Only static data can be provided for the encoders in the demo version, because providing a working encoder would reveal the complete source code, which is only available in the licensed version of the [QR Code Barcode Font](#).*

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**Notice:** When you use this product you agree to the End User License Agreement (EULA). The EULA is provided as a file in the package for this product. To view the license online, please visit <http://www.precisionid.com/licenses/>

# Installation

## Microsoft Windows

PrecisionID recommends using the supplied **exe** file to install the fonts automatically in Windows. To manually install a font in Windows, extract the font file from the compressed ZIP folder, right click on the TrueType font with the TTF extension and choose Install.

## Mac

Extract the Barcode Font from the provided ZIP file. Double click the font file and choose the "Install font" button at the bottom of the preview dialog. Alternatively, you can also install fonts by dragging the font files into /Library/Fonts (for all users), or into /Users/Your\_username/Library/Fonts (for you only).

## Other Operating Systems

We supply Windows TrueType (TTF) fonts as well as Binary (PFB) and ASCII (PFA) versions of PostScript fonts. Consult the documentation for your operating system about instructions and which font type to install.

## Font Encoders and Application Tutorials

PrecisionID supplies several Font Encoders to format data to the font. Refer to the Examples folder of the product zip file and the [Font Encoders](#) section of the website for a complete selection.

## Generating GS1 Symbols (Encoding the FNC1)

GS1-Data Matrix barcodes may be generated according to the [GS1 General Specifications](#) when the following are true in any encoder:

- The encoding mode parameter is set to ASCII or the number "3".
- ProcessTilde parameter is True or "1".
- The symbol begins with "~1" where each "~1" encoded is an FNC1 character.
- After the first FNC1, additional FNC1s should only be inserted after variable length AIs (application identifiers). For example: ~10110614141543219103456789~1213456789012 encodes the GS1 data of (01)10614141543219(10)3456789(21)3456789012. Since the AI of (10) is variable, an additional FNC1 needs to be inserted to encode the third AI of (21).

## Implementation Examples

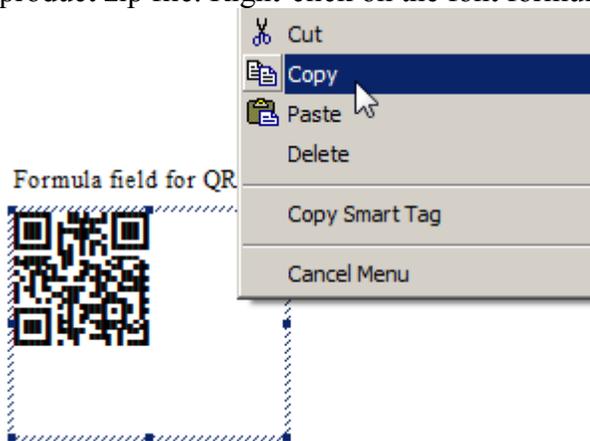
This product is designed to be used in any application that can process a script and apply it to a font. Only a few implementations are provided in this manual as an example of how the font and encoders may be used. With the purchase of any Developer License, PrecisionID will provide the source code to several additional types of [font encoders](#) by request to support a variety of other applications and development environments. The following tutorials are saved in the examples folder of the product zip file. Refer to the examples provided in this folder for quick and accurate implementation.

### Crystal Reports

This example was created in Crystal Reports version 9. Implementation methods in other versions are very similar if not identical.

- Copy the formula object to the clipboard.**

Extract and open the “Crystal Reports Font Formulas.rpt” file that is in the \examples\ folder of the product zip file. Right-click on the font formula that is needed and choose Copy.



- Paste the object into your report.**

Open your Crystal Report and switch to design mode. Choose Edit – Paste or CTRL-V where the object is needed and size it appropriately to contain the entire symbol.



- Change the data source in the formula of the object.**

Right-click on the object and choose Edit – Formula. Modify DataToEncode= to connect to the data source; for example: DataToEncode = ({Table.Field})

If an error such as "A string is required" appears, the data will need to be converted to a string with a VB crystal function such as ToText or cStr.

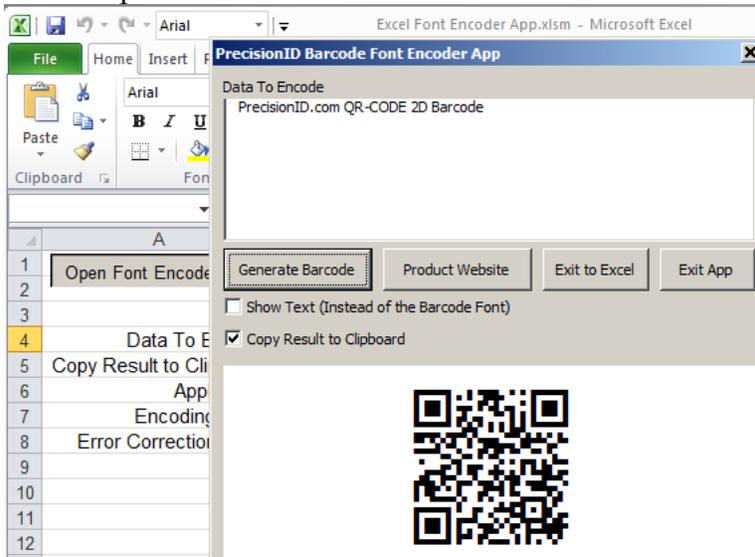
For example: DataToEncode = ToText( {Table.Field} )

- The barcode should now be visible when you run the report. Faint white lines may appear in the symbol because of low screen resolution; however, these will not appear when the report is printed.

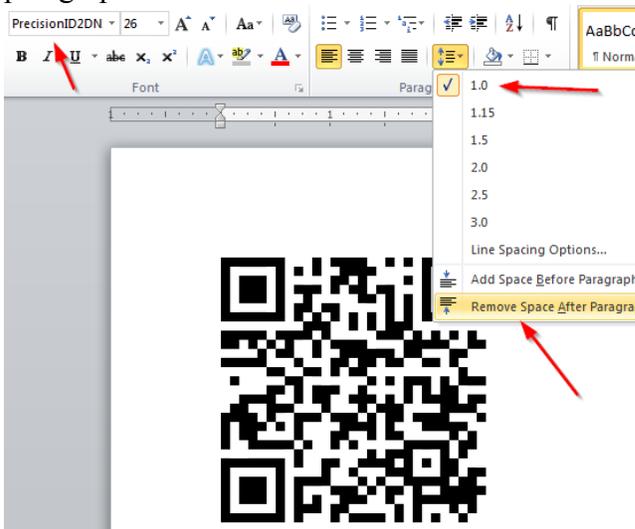
## Font Encoder App for Excel

The Font Encoder App for Excel is an Excel user form that allows users an easy method to copy and paste barcodes into applications. It is compatible with Excel on Windows 2010 and greater and Excel on Mac 2016 and greater. It is also compatible with local installations of Office 365.

1. To copy a barcode to the clipboard, open the app, enter the data to encode, and choose the “Generate Barcode” button, which will copy the result to the clipboard. The application generates text that will create a correct symbol when combined with the PrecisionID2D font. To view this text, choose the “Show Text” option, which changes the font from the barcode font to a text font. It is provided as the file “Excel Font Encoder App.xlsm” in the examples folder of the download.

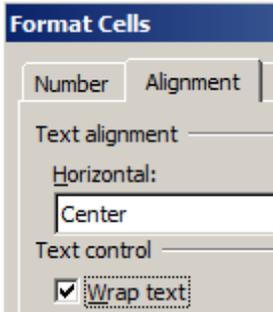


2. Open the application the barcode will be pasted into and choose the PrecisionID2D font and choose the paste option. The barcode symbol should appear. If it is distorted, make sure the line spacing is set to “1” and the also make sure the application is not adding a space after each paragraph.

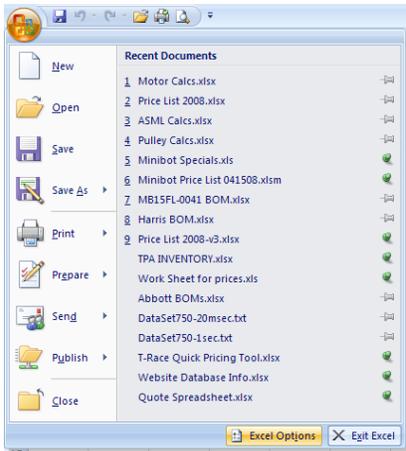


## Microsoft Excel

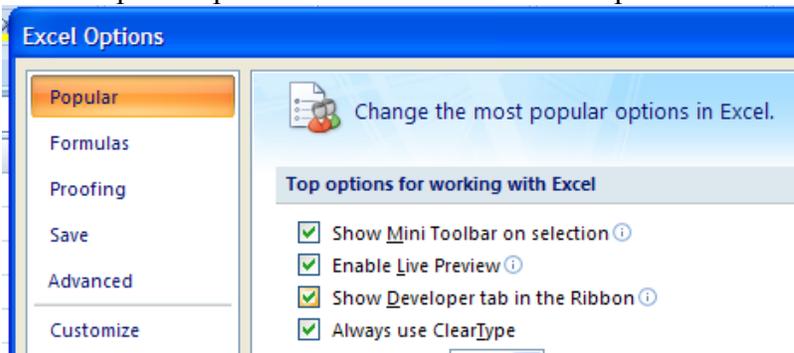
1. NOTE: the [PrecisionID2D XLS](#) font is formatted specifically for use in Microsoft Excel. Other fonts will not work properly. White lines may appear in the symbol, however, the scanner will still be able to properly decode the printed symbol. The symbol is only formed properly when the cell it resides in is formatted to "Wrap Text". The VBA encoder is compatible with Excel on Windows 2010 and greater and Excel on Mac 2016 and greater. It is also compatible with local installations of Office 365.



2. In this example we will create a barcode in cell **B8** using the data from cell **A8** for the barcode.
3. Extract the [PrecisionID\\_QR\\_FontEncoder.bas](#) file from the package and place it in a folder of your choice.
4. Before creating QR Code barcodes in Excel, you must enable the Developer Menu to import the required module so it will run. In Excel, click the Office Button and select Excel Options at the bottom.



5. In the Popular Options check the "Show Developer Tab in the Ribbon". Click OK.





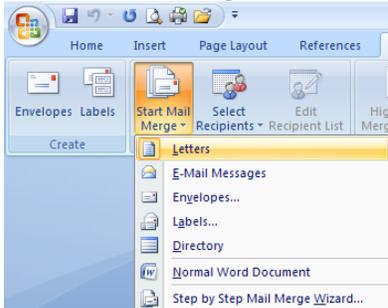
scanner will still be able to properly decode the printed symbol.

A	B
<b>Data to Encode</b>	<b>2D Barcode Column</b>
PrecisionID QR-Code	

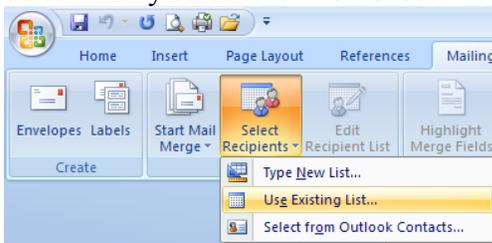
13. To create an entire column of barcodes, choose Edit – Copy with cell B8 selected.
14. Highlight cells you wish to add barcodes to in column B and choose Edit - Paste. The formula will automatically adjust for the other cells.
15. To generate barcodes from Excel without the white lines, it is suggested to use the Microsoft Access or Word mail-merge option. Because of the way Excel formats fonts, it is not possible to produce 2D symbols without the tiny white lines in the symbol.

## Microsoft Word Mail Merge

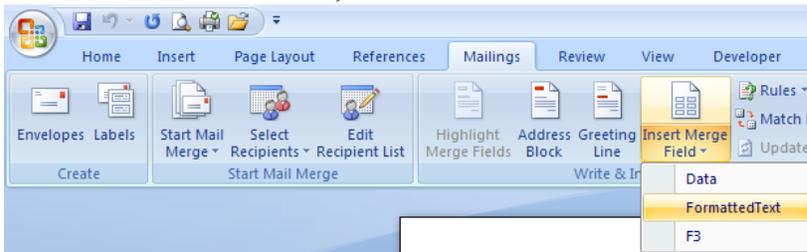
1. Open the mail merge document.
2. To create a barcode in a Word mail merge, insert a merge field from a data source that has already formatted the text for the barcode font. In this example, Excel is used as the data source from the “Word Mailmerge Source.xlsm” file. The Excel spreadsheet data source must already be setup with barcodes just like the Excel Tutorial in this document.
3. If you are not using the “Word Mailmerge Source.xlsm” file for your merge process, make sure that the NewLineCharacter is set to vbLf and not the default of vbCrLf in the data source. This is set as a parameter in Excel for the VBA function.
4. Select the Mailings menu item, click Start Mail Merge and select the type of document to create.



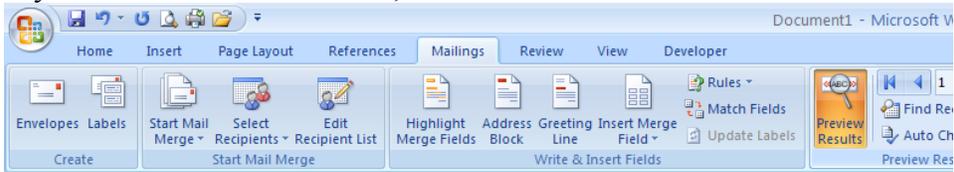
5. Click Select Recipients and select Use Existing List. Navigate to the spreadsheet with the barcode data. Finally select the Worksheet within the Workbook with the data, i.e. “sheet1”.



6. Place the cursor at the location for the barcode and click Insert Merge Field and select the information to be inserted; i.e. “FormattedText”.



7. If you click “Preview Results”, the text formatted for the barcode from the data source appears.



8. Select the text in the merged data and choose the PrecisionID2D font. Make the font 8 points in size. The symbol is generated with multiple lines which can make it difficult to place unless it is generated with the merge field in a table, as demonstrated in the example included with this product.

### The Merge Fields:

**Text being encoded:**

«Data»

**Text formatted to barcode font:**

«FormattedText»

**2D Barcode Font:**

«FormattedText»

**2D Barcode Font in a Table:**

<i>PrecisionID.com</i>	«FormattedText»
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**Merge Preview:**

**Text formatted to barcode font:**

AHEEEHAPFLAJCANNAPAHEEEHAP  
BNFFFNBPJCNHAPMPFPBNFFFNB  
EKCPPNFBOGNAFJBBGMPAOKFPAP  
FFLHGDFPMCHFJAICPFCOGPDBP  
EFNFNFEHJGDGANAOAHFHAGJDEP  
APBBBPAPNOJNPCHBAEGGBOPJFP  
HHHHHHHPHHPHHHPPHHPHPPHP

**2D Barcode Font:**



**2D Barcode Font in a Table:**

<i>PrecisionID.com</i>	
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For additional help, refer to Word Help or use the Mail Merge Wizard under Mailings - Start Mail Merge.



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*Barcode:*



## Other Implementations

A font encoder is required to modify the data being encoded to the barcode font. With the purchase of any Developer License, PrecisionID will provide the source code to several types of [developer font encoders](#) by request. These font encoders may be also converted into any language necessary.

Another possible implementation is to run the font encoder in another application, as is done in the mail merge example, which is generated from Excel and presented in Word.

## 2D Font Specifications

The PrecisionID 2D font is designed to be printed on 203 or greater dpi printers or displayed on the screen of any computer, tablet or phone. On low resolution devices, such as the screen of a PC or Mac, the point size may have to be adjusted so that the symbol does not contain any horizontal or vertical white lines.

Font Size	Approximate X Dimensions	
	MILS ( <i>1/1000 of an inch</i> )	CM
2	3	0.007
3	5	0.012
4	6	0.015
6	10	0.025
8	12	0.030
10	16	0.040
11	18	0.045
12	20	0.050
16	24	0.060
20	33	0.083
22	36	0.091