

# PrecisionID Native ASP Barcode Generator User Manual

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## Limitations of the Demo Version:

The demo version of this product may be used for evaluation purposes only. The demo version displays a watermark, and may only be used from the PrecisionID server at <http://www.native-asp-barcode.com/>. All other functionality is exactly the same as the purchased version. To install this product on your own server, the purchased version is required, because the product is provided in pure ASP source code form. If you are not completely satisfied with the purchased version, PrecisionID offers a 30-day money-back guarantee. To order, please visit <http://www.precisionid.com/> and choose the **Native ASP Barcode Generator** product link.

The demo version may be used directly from the appropriate URL listed in the table below along with the appropriate [parameters](#) and [implementations](#):

<a href="http://www.native-asp-barcode.com/precisionid-code39-demo.asp">http://www.native-asp-barcode.com/precisionid-code39-demo.asp</a>
<a href="http://www.native-asp-barcode.com/precisionid-code128-demo.asp">http://www.native-asp-barcode.com/precisionid-code128-demo.asp</a>
<a href="http://www.native-asp-barcode.com/precisionid-ean-13-demo.asp">http://www.native-asp-barcode.com/precisionid-ean-13-demo.asp</a>
<a href="http://www.native-asp-barcode.com/precisionid-upc-a-demo.asp">http://www.native-asp-barcode.com/precisionid-upc-a-demo.asp</a>
<a href="http://www.native-asp-barcode.com/precisionid-i2of5-demo.asp">http://www.native-asp-barcode.com/precisionid-i2of5-demo.asp</a>
<a href="http://www.native-asp-barcode.com/precisionid-postnet-demo.asp?H=11">http://www.native-asp-barcode.com/precisionid-postnet-demo.asp?H=11</a>

## Native ASP Barcode Generator Overview

This product is a royalty-free, streaming, server-side barcode generator that is contained in a single, pure ASP file. Once it is copied to an ASP enabled webserver, barcodes may be easily created in any web browser, without any temp files created on the server. Each ASP file provided is in pure ASP source code form, so it may be used natively and modified or integrated as necessary. Each symbology is contained in a single file, which provides extremely fast barcode generation with very little overhead. 100,000 barcodes were generated in less than 70 seconds with a load test script on a single core Pentium 4 webserver running at 2.4 GHZ.

The images generated are simple black and white bit-mapped images that are very small in size compared to the JPEG or GIF images generated by competitor's products. The average size of the generated barcode is usually less than 2KB. Because a bit mapped image is streamed to the browser as an image, this product

is compatible with ASP, ASP.NET, PHP, Pearl, JavaScript and many other development environments and web applications.

## Feature Summary

- Developer licenses are royalty free with full source code provided.
- Extremely fast and efficient design.
- Generates images compatible with all web browsers.
- Because images are streamed to the browser, no temp files are created on the server.
- Compatible with ASP, ASP.NET, PHP, Pearl, JavaScript and other web applications.
- Orientations of 0, 90, 180 and 270 are supported.
- Supports human-readable text interpretations below the barcode.
- Supports popular symbologies as well as GS1-128.
- All parameters are optional, with defaults set to the most popular use.
- The X dimension, height, N dimension and overall size are easily adjustable.

## Installation Tutorial

1. After the files are extracted from the ZIP file, simply copy them to a webserver where ASP is enabled.
2. Open the file in a browser window and verify that a default barcode appears. If it does not, ensure the files are installed in the proper folder on the server and that ASP is enabled. For example:  
<http://www.yourdomain.com/asp/precisionid-code128.asp>
3. Refer to the Parameters Section to modify the data being encoded and include any necessary parameter changes. For example:  
<http://www.yourdomain.com/asp/precisionid-code128.asp?D=ASP-BARCODE&H=30&A=T>
4. Integrate the resulting URL into your web application as a dynamic IMG tag, replacing the D= parameter with the data being encoded.

## Integration Examples:

### HTML Example:

```

```

### ASP Example:

```
<P>Pure ASP Barcode Generation Example: </P>  
<% @ LANGUAGE = VBScript %>  
<% Data = "pure-asp-barcode" %>  
"  
</P></body>  
</HTML>
```

### JavaScript Example:

```
<SCRIPT LANGUAGE="JavaScript">  
function display() {  
    DispWin = window.open(", 'NewWin', 'menubar=yes, status=no, width=650, height=780')  
    message = "<HTML><HEAD><TITLE>Native ASP Barcode Generator Tutorial</TITLE></HEAD><BODY>"  
    message += "<img src='http://www.yourdomain.com/asp/precisionid-code128.asp?D="
```

```

message += document.form1.DataField.value;
message += "<br></p></BODY></HTML>"
DispWin.document.write(message);
DispWin.document.close();
}
</SCRIPT>

```

## Symbologies Supported and Files Provided

Each file contains one symbology to speed processing and improve server performance:

- precisionid-upc-a
- precisionid-ean-13
- precisionid-code39.asp
- precisionid-code128.asp *(This is the recommended Code 128 file to use)*
- precisionid-code128a.asp
- precisionid-code128b.asp
- precisionid-code128c.asp
- precisionid-i2of5.asp
- precisionid-postnet.asp
- precisionid-planet.asp
- precisionid-msi.asp

## Parameters

The parameters listed in the table below may be used to modify the data encoded and change properties. After specifying the ASP file, the question mark '?' is used before the first parameter and the ampersand '&' is used for additional parameters. For example, the following sets several parameters for Code-39:  
precisionid-code39.asp?D=ASP-BARCODE&C=F&N=3&X=2&O=270&H=65

***PrecisionID recommends only changing parameters when the default setting is not sufficient.***

Purpose	Parameter	Default	Description
Apply Tilde	A	F	When ApplyTilde is True in Code 128 with the Auto character set, the format ~??? may be used to specify an ASCII code of a character that is encoded. For example, the data of "ASP~009Barcode" would encode "ASP [TAB] Barcode". <i>This Parameter is only valid in precisionid-code128.asp</i>
Bar Height	H	40	The height of the barcode in pixels.
Check Character	C	T	Automatically adds the check digit to the barcode when equal to 'T'.
Check Character in Text	CT	T	Automatically adds the check digit that is encoded in the barcode to the human readable text that is displayed when equal to 'T'.
Data Encoded	D	123456789012	The data that is to be encoded in the barcode symbol.
Narrow to Wide Ratio	N	2	The narrow to wide ratio of symbologies that only contain narrow and wide bars such as Code 39, Interleaved 2 of 5 and MSI. Valid values are 2 and 3.
Orientation	O	0	Orientation indicates the orientation of the barcode. Valid values are 0, 90, 180 and 270.
ShowText	T	T	If set to 'F', the human readable text interpretation will not be

			displayed with the barcode.
XDimension in pixels	X	1	The number of pixels to determine the overall barcode width. Default = 1 which is 1/96 of an inch and about 12 MILS.
Font Size	S	12	The font size used for human readable text. <i>Only values of 10 and 12 are applicable. Any other values must be implemented manually by displaying a text field below the barcode.</i>

## Creating GS1-128 (aka: UCC-128 & EAN-128) Barcodes

In GS1-128 barcodes, an Application Identifier (AI) defines data fields that exist in a Code 128 barcode type. The AI has parentheses around it in the text interpretation; however, the parentheses are not encoded in the barcode. GS1-128 must start with an AI, and may include more than one AI. The AI is encoded in Code 128 Auto, file [precisionid-code128.asp](http://precisionid-code128.asp), by enabling ApplyTilde (set A=T) and adding in the appropriate character code, which depends on the number of digits in the AI:

~212 = 2 digits            ~213 = 3 digits            ~214 = 4 digits

~215 = 5 digits            ~216 = 6 digits            ~217 = 7 digits

For example, (8100) 712345 (21) 12345678 is encoded with the following URL:

[precisionid-code128.asp?D=~2148100712345~2122112345678&A=T&S=10](http://precisionid-code128.asp?D=~2148100712345~2122112345678&A=T&S=10)

This may be viewed online at:

<http://www.native-asp-barcode.com/precisionid-code128-demo.asp?D=~2148100712345~2122112345678&A=T&S=10>

More information about the formatting and placement of GS1-128 barcodes may be found at [www.gs1.org](http://www.gs1.org).

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