



# QS-Barcode SDK

## Description of program’s samples

*Note:* You receive the sample programs as they are described in this document if you download a QS-Barcode SDK evaluation version from [www.qualitysoft.de](http://www.qualitysoft.de) . The samples are also shipped with the licensed version of QS-Barcode SDK which you may order directly from QualitySoft. After setup, you will find the data files in the installation directory.

### Introduction

All samples include the source code and the project data files. Details of the programs are described in readme-files and in the source code comment. As the function calls to set barcode parameters and to read barcodes are very easy, you can easily copy it from other programming languages and modify it, if the required sample is not available in the language which you use. We know from our clients, that QS-Barcode SDK has been integrated for many other languages.

For questions or notes please send us an e-mail, we are going to contact you soon.

*Note:* Please be aware that the evaluation version is a demo version and changes results lightly. It reads a “3” as a “1” and a “A” as a “Q” and a “B” as an “S”. For 2D barcodes the text “DEMO” appears intermittent in the results. If you order the license file and copy it into the application directory, you will get the complete version without further programming.

### Directory F\_DLL\sample (File - Interface)

The version QSBarDLL\_F.dll of the QS-Barcode SDK is used, if QS-Barcode SDK should handle the image file by itself. The data file will be opened and barcode searching and recognition is accomplished with the actual settings.

<b>Note!</b>	<p><b>File formats</b> The sample programs for the file-interface support many file formats, if they are not using a defined file name. There is a complete list attached to the QS-Barcode SDK documentation, see “14.1 provided formats“</p> <p><b>Multipage-files</b> Multipage files (multi-tiff or Adobe pdf) will usually be searched only on the first page for barcodes. Please pay attention to the annex “14.2 Multi-page support“ of the QS-Barcode SDK documentation for notes how you can also process the other pages.</p> <p><b>Adobe PDF documents</b> The Adobe PDF format is supported by QS-Barcode SDK Version 3.8. Please notice the chapter “14.3 Adobe PDF Documents - Special Settings“.</p>
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Subdirectory	Language / Environment	Task
Acc00	MS Access 2000, VBA	If you start the MS Access 2000 data base, it shows a simple form with a push button. It starts the barcode recognition on the enclosed image <code>sample3.tif</code> . Linear barcodes, PDF417 and Data Matrix can be read, the current results will be shown in a message box. With F11 you will get to the data base and you can have a look on the function <code>BarcodeRecognition()</code> in the Module <code>mdlBarcode</code> . The DLL is called out of Access. Barcode settings and the file name are fixed in the code.
AccXP	Access XP	see above



c\Example1	C	<p>The program expects a file name of an image as command line parameter. This image will be searched for linear barcodes. Barcode data is written to the standard output.</p> <p>Barcode settings are fixed in the code.</p> <p>The code for reading 2D barcodes (PDF417, DataMatrix, QR Code or Atzec Code) exists in the source as a comment. The sample program has been written and tested with MS Visual Studio 2008.</p>
c\Example2	C	<p>The image will be searched for linear barcodes. Barcode data is written to the standard output.</p> <p>The function to search for barcodes is passed a specific configuration file (qsbci.ini) for image enhancement, which corrects the existing errors in the image before the search.</p> <p>Barcode settings are fixed in the code.</p> <p>The sample program has been written and tested with MS Visual Studio 2008.</p>
c_sharp	C#	<p>Dialog to input of file name. Linear (or, after removal of program comments, PDF417 or DataMatrix) barcodes are read from this file. Results will be shown in a message box.</p>
delphi	Delphi	<p>Command line - program: reads from the file BarTest.tif 10 linear barcodes and results are listed.</p>
java	Java	<p>Command line - program: reads from the file BarTest.tif 10 linear barcodes and results are listed.</p> <p>The source code contains blocks of code for reading 2D barcodes (PDF417 and Data Matrix).</p>
VB.NET	VB.NET	<p>Dialog to input of file name. DataMatrix (or, after removal of program comments, PDF417 or linear) barcodes are read from this file. Results will be shown in a message box.</p>
VB	Visual Basic 6.0	<p>Is sequential reading all files from the source Directory. If a barcode is read, its content will be used as file name and the file will be moved into an destination directory.</p> <p><b>Note:</b> This can be called the “primal version” of our QS-DocumentAssembler product.</p>
VB_MultiTiff	Visual Basic 6.0	<p>Is reading linear, DataMatrix and PDF417 barcodes in the assigned file. With multitiff-files page by page will be read. Item it shows how the functions for determination of the valid license and for determination of the version can be accessed. The recognition process and results will be written to a list box.</p>



## Directory F\_OCX\sample (OCX - Interface)

As well as the F\_DLL interface the version QSBCOCX.ocx is used by QS-Barcode SDK, if QS-Barcode SDK should handle the image data file by itself. In many environments it is easier to integrate OCX than DLL and OCX can be used more intuitive. The data file will be opened and barcode searching and recognition is accomplished with the actual settings.

<b>Note!</b>	<p><b>formats</b> The sample programs for the OCX-file-interface provides many formats, if they are not using a defined file name. There is a complete list attached to the QS-Barcode SDK documentation, see „14.1 provided formats“</p> <p><b>multi-page-file</b> In multilateral files (multi-tiff or Adobe PDF) will usually be searched only on the first pages for barcodes. Please pay attention to the annex „14.2 multi-page support“ of the QS-Barcode SDK documentation for notes how you can also browse the other pages.</p> <p><b>Adobe PDF documents</b> The Adobe PDF format is supported by QS-Barcode SDK Version 3.8. Please notice the chapter “14.3 Adobe PDF Documents - Special Settings”.</p>
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Subdirectory	Language / Environment	Task
vb6\execute und vb6\project	Visual Basic 6.0	Is sequential reading all files from a source directory. If a barcode is read, its content will be used as file name and the file will be moved into a destination directory. The path can be set, as well as some of the barcode parameters.
elo_script (only de)	Elo Script Basic	Script shows the possibility for integration of QS-Barcode in the EloOffice archive system

## Directory H\_DLL\sample (Handle on DIB - Interface)

The version QSBarDLL\_H.dll of QS-Barcode SDK is been used, if the image exists as bitmap in the main memory of the program. Barcode recognition and reading will be accomplished with the actual barcode settings in the memory area.

Subdirectory	Language / Environment	Task
c\Example1	C	The program expects a file name of an image in BMP format as command line parameter. A handle will be created to a Windows Device Independent Bitmap (DIB). This DIB can be monochrome, in gray scales or colored. This DIB will be searched for linear barcodes. Barcode data is written to the standard output. Barcode settings are fixed in the code. The code for reading 2D barcodes PDF417 or DataMatrix exists in the source as a comment. The sample program has been written and tested with MS Visual Studio 3008.
c\Example2	C	The image will be searched for linear barcodes. Barcode data is written to the standard output. The function to search for barcodes is passed a specific configuration file (qsbk.ini) for image enhancement, which corrects the existing errors in the image before the search. Barcode settings are fixed in the code. The sample program has been written and tested with MS Visual Studio 2008.
delphi	Delphi	command line program: is reading from the file named BarTest.bmp linear barcodes and results are shown.



## Directory \P\_Lib\Sample (Pointer to Memory - Interface)

The version of QS-Barcode SDK is been used, if the image exists as bitmap in the main memory of the program. Barcode recognition and reading will be accomplished with the actual barcode settings in the memory area.

Subdirectory	Language / Environment	Task
c\Example1	C	The program expects a file name of an image in monochrome BMP format as command line parameter. For the p_lib Interface the image has to be monochrome. The file will be opened and searched for linear barcodes. Barcode data is written to the standard output. Barcode settings are fixed in the code. The sample program has been written and tested with MS Visual Studio 2008.
c\Example2	C	The image will be searched for linear barcodes. Barcode data is written to the standard output. The function to search for barcodes is passed a specific configuration file (qsbci.ini) for image enhancement, which corrects the existing errors in the image before the search. Barcode settings are fixed in the code. The sample program has been written and tested with MS Visual Studio 2008.
c_dmatrix	C	command line program: is reading 2D barcodes of type Data Matrix. The image file name has to be given as a parameter.
c_pdf417	C	command line program: is reading 2D barcodes of type PDF417. The image file name has to be given as a parameter.
c_qrcode	C	command line program: is reading 2D barcodes of type QR Code. The image file name has to be given as a parameter.