# barkoder

## Mobile Barcode Scanner Development Kit (SDK)

Whether you're developing a mobile, web-based or a desktop application, the barKoder SDK provides a comprehensive solution that ensures reliable and efficient barcode scanning across various devices and platforms. With continuous updates and dedicated technical support, utilizing our mobile barcode scanner SDK opens up a world of possibilities for your application, empowering you to deliver a superior barcode scanning experience to your users and unlocking new opportunities for your business.

By integrating our Barcode Scanner SDK into your application, you gain access to a powerful set of tools and functionalities that will revolutionize the way you handle barcode scanning. Our SDK offers seamless integration with your existing software, allowing you to effortlessly incorporate barcode scanning capabilities into your own application or system. With our SDK, you can harness the full potential of barcode scanning technology, enabling you to automate processes, improve data accuracy, and enhance user experiences.

### Simple Usage

Our decoder is simple and easy to use! Just point to your barcode and liftoff!

### Time & Cost Reduction

Increase efficiency, greatly reduce costs & improve customer & employee satisfaction with the barKoder SDK.

### High Performance

Scan poorly printed, damaged or partially obscured barcodes in any environment with very high accuracy.

### BYOD

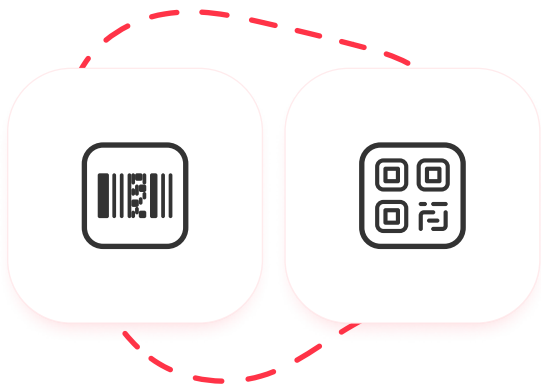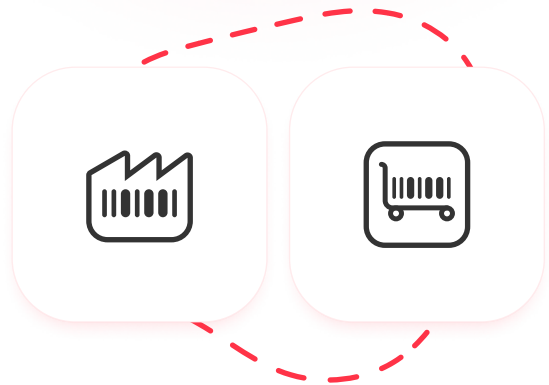Simplify your business processes by encouraging the Bring Your Own Device concept.

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## Broad range of symbologies and platform support

The barcode scanner SDK by barKoder supports iOS devices including Apple®'s iPhone® and iPad®, as well as most Android™ smartphones and tablets for mobile barcode reading. It can read over 30 different 1-D and 2-D barcode symbologies used across a wide range of industries.

## 1D Barcodes

Codabar, Code 11, Code 25 (Standard/Industrial 2 of 5), Code 39 (including Code 39 extended), Code 93, Code 128, COOP 2 of 5, Datalogic 2 of 5, EAN-8, EAN-13, IATA 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MSI Plessey, Italian Pharmacode, Telepen, UPC-A, UPC-E, UPC-E1

## 2D Barcodes

Aztec Code, Aztec Compact, Data Matrix, DotCode, PDF417, Micro PDF417, QR Code, Micro QR Code
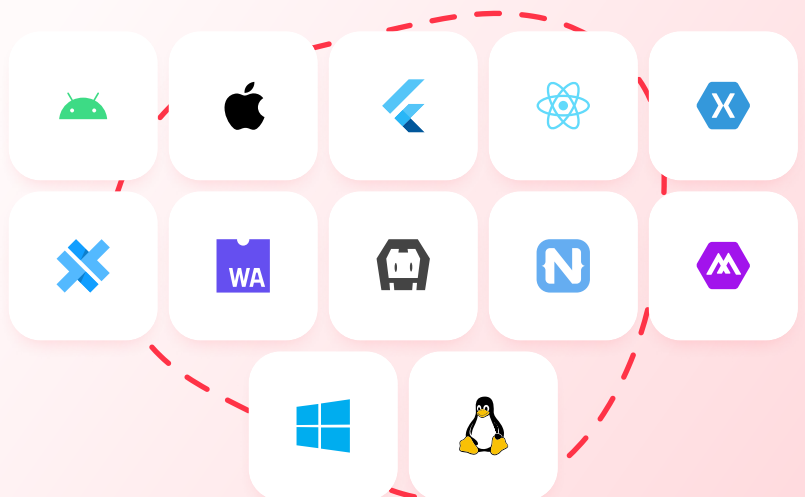
## Platforms

**Mobile:**
Android, iOS, Flutter, React Native, Xamarin, Capacitor, Cordova, NativeScript, .NET Maui

**Web:**
WASM

**Desktop/Server:**
Windows, Linux

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## Barcode Capture SDK Unique Features

With the integration of barKoder, it is no longer necessary to develop separate applications and manage multiple software and hardware solutions for mobile device barcode reading. Our SDK offers to developers a robust set of tools in a single solution, allowing maximum control over the user experience. It provides a high-level, simple to use interface for device management, whether using a smartphone or tablet.

### DPM Processing

Unique Direct Part Marking (DPM) reading algorithm which allows for even the hardest possible engraved Data Matrix and QR Code samples to be decoded. Judging by our own internal tests, it is already better than any competitor alternative in the market by a large margin, even with its first version!

### PDF417-LineSight® Scanner

Applying what we learned from MatrixSight® to our PDF417 barcode recognition led us to the PDF417-LineSight® algorithm. PDF417 barcodes, usually applied to identification documents, due to wearing and extensive use naturally fade and lose their basic elements. PDF417-LineSight detects any PDF417 code in its entirety, regardless if they miss its start & stop patterns, start & stop row indications and even entire data columns.

### Batch MultiScan®

Special AR algorithm allowing real-time scanning with results caching and location reconstructions of multiple barcodes within a single camera view in a continuous manner, providing smooth visual experience and stable output.

### MatrixSight®

The capabilities of MatrixSight® transcend beyond anything a traditional barcode scanner, be that hardware or software-based, can achieve. Simply put, there's no QR Code or Data Matrix barcode that is safe from the barKoder MatrixSight® algorithm. They can have absolutely no finder, alignment or timing patters and can even miss entire data segments but it still won't keep their data safe from being read.

## DeBlur Mode

One of the latest technological advancements of the barKoder SDK is the unparalleled capability to decode heavily blurred EAN & UPC barcodes, even when there's a fusion between the separate bars. This technological breakthrough is a game-changer, especially in scenarios where UPC & EAN barcodes may undergo severe distortions and degradations due to poor printing quality, environmental conditions or other factors.

## Segment Decoding®

The barKoder SDK stands out for its unique ability to scan all supported 1D barcodes with significant deformation along the Z axis, like barcodes found on bottles, test tubes and other surfaces with rounded, curved, hollowed or otherwise irregular shapes. Unlike other decoders, both software and hardware-based, which struggle when at least one straight line can't intersect through all bars, the barKoder API excels in handling such deformations due to its advanced Segment Decoding(R) algorithm.

## VIN Scanning

barKoder's VIN Scanning Mode, powered by its MatrixSight(r) & Segment Decoding(r) algorithms, offers an unrivalled experience in scanning even the most stubborn VIN-enabled Code 39, Code 128, Data Matrix and QR Codes. Moreover, the barKoder Barcode Scanner SDK can capture even multiple VIN barcode from a single camera view by utilizing the Batch MultiScan engine!

## DotCode

The barKoder barcode scanning API features the best DotCode reading algorithm by a significant margin when compared to any competitor product in the software-based barcode reading market, be that closed or open-source, taking in mind reading rate, accuracy, speed, light, scanning angles and other performance metrics.

### Demo App for iOS

**SCAN ME**

### Demo App for Android

**SCAN ME**