

Introduction

This comprehensive testing sheet is designed to evaluate the Dynamsoft Barcode Reader SDK, assessing its performance under various barcode scanning scenarios and benchmarking it against other leading barcode libraries.

What is Dynamsoft Barcode Reader?

Dynamsoft Barcode Reader SDK is a software development kit that enables developers to integrate robust barcode reading capability into mobile, desktop, and web applications. It leverages advanced barcode reading algorithms to provide fast, accurate, and reliable barcode scanning capabilities across various platforms.





Quickly Integrate Barcode Scanning Across All Platforms with DBR

JavaScript (Web)

Enable real-time localization and decoding in a web browser on a mobile or laptop. With just a few lines of JavaScript code, any camera-equipped device can be transformed into a barcode and QR code scanner.

Desktop & Server

Easily integrate reliable barcode scanning into your desktop and server applications.

Mobile

Embed robust QR code and barcode scanning capabilities into your native iOS and Android apps.

Contract ContractLanguages and Frameworks

Web Development:



React



Angular



Svelte

NEXT.Js

Next.js





Electron

Desktop & Server Development:











.NET

Java

C++

Python

Node.js

Mobile Development:



.NET



React Native

.NET MAUI

Flutter



Supported OS: Android 5.0 (API Level 21) or higher.

Supported ABI: armeabi-v7a, arm64-v8a, x86 and x86 64.



Supported OS: iOS 13 or higher. Supported ABI: arm64 and x86_64.



Why Choose Dynamsoft Barcode Reader

Dynamsoft Barcode Reader SDK is trusted by leading organizations worldwide because of its unmatched performance across various platforms and applications.



Unparalleled Barcode Scanning Speed:

Dynamsoft Barcode Reader SDK tackles high-speed workflows by processing over 500 barcode scans per minute.



Boost Performance with Customized Scan Templates

Our customizable templates fine-tune performance for even the most challenging barcodes.

Get your own custom demo template.



Scans Challenging Barcodes & QR Codes:

Leveraging reliable enterprise-grade barcode detection algorithms, Dynamsoft Barcode Reader SDK can easily read the toughest barcodes, such as crumpled, distorted, incomplete, or dense, in the most challenging scenarios.



Incomparable Barcode Reading Rate:

Dynamsoft Barcode Reader SDK outperforms six QR Code libraries, recognizing 34.9% more barcodes than the industry's second-best, and ranks first in a test of 1000+ QR Codes across 16 image quality categories.



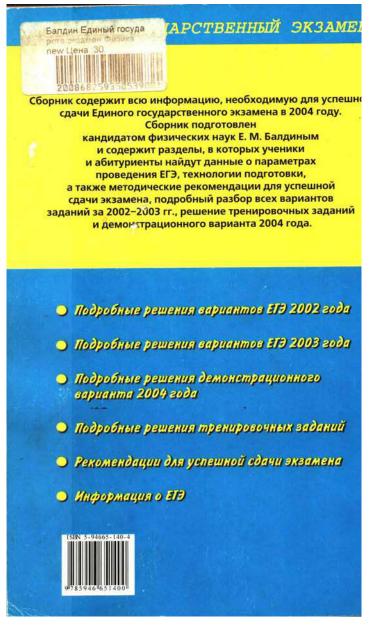
Multiple Barcode Scanning

Dynamsoft Barcode Reader SDK is designed to detect and decode multiple barcodes of different symbologies in a single scan.

Single Symbology Multiple Barcodes:

Scan multiple barcodes of the same type in one go for streamlined processing.











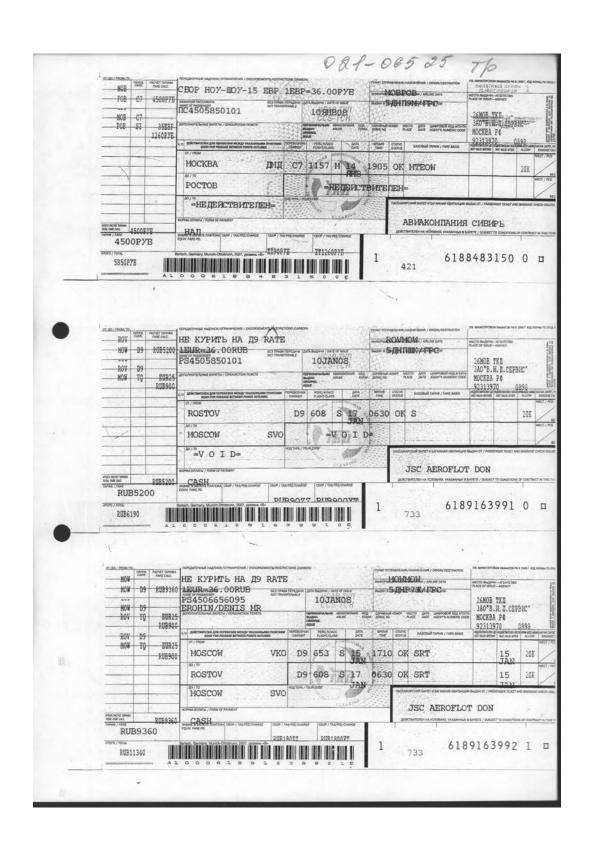














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https://checkin.sabre.com/aeroflot/checkin.do

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Peruslippu

Helsinki Lentoasema - Jyväskylä

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Perjantai 08.12.2017

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Istumapaikka Ekstra-luokassa 12,00 €

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Vero 4,45 € Maksutapa: Lasku

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VR-YHTYMÄ OY, Y-tunnus 1003521-5, Kotipaikka Helsinki

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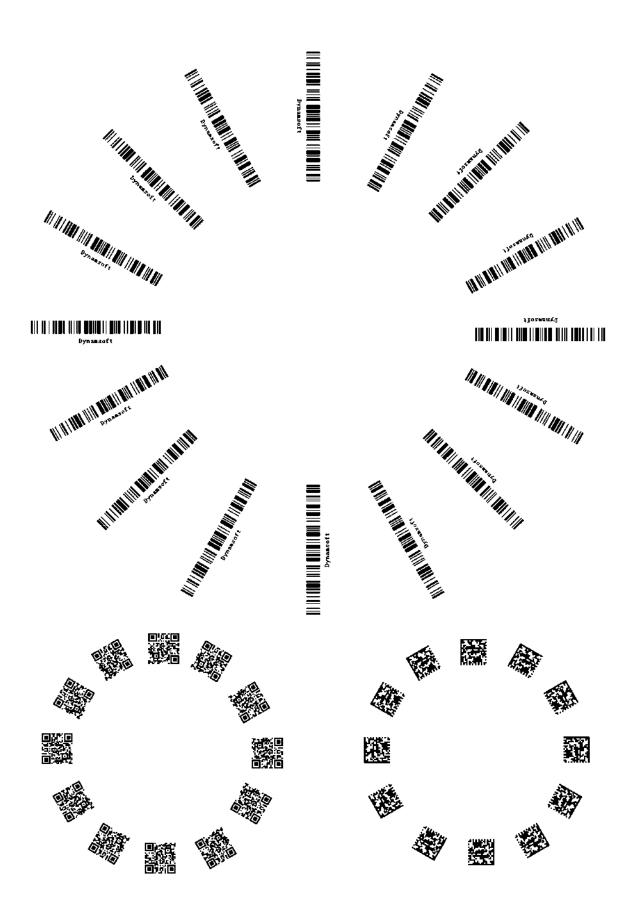


Multiple Symbologies Multiple Barcodes

Read multiple barcodes of different symbologies simultaneously to handle diverse data capture needs.











JUNALIPPU/BILET I REZERVIROVANIE 0010 VR /TICKET + RESERVATION

19.10.2015, maanantai 22:29 Thank you for travelling with VR.

> Muutokset 6 tuntia ennen lähtöä. Ryhmille omat ehdot. Izmenenija dopuskajutsja do 6 tšasov do otpravlenija poezda.Dlja grupp - spetsialnyje uslovija. Rebooking up to 6 hours before the departure.Separate conditions for groups.

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Have a nice journey and welcome again to the online store!

VR Passenger Services

VR GROUP Ltd

Business Identity Code 1007149-4, Domicile Helsinki

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Auchan Sokolniki

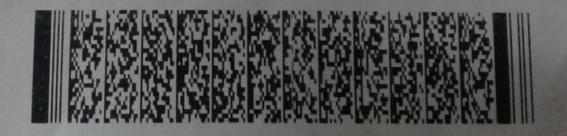
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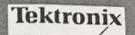


Юр. адрес:129110г.Москва ул. Гиляровского, д.39, стр.1

muRata









Единая справочная: +7 (495) 544-00-09

E-mail: sales@chipdip.ru

5 от 31.03.2016

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В, 105°С, 10х20, ор электролитический	8	29,00	232,00
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его за товар (в том числе НДС 18%):

384,00

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Подпись

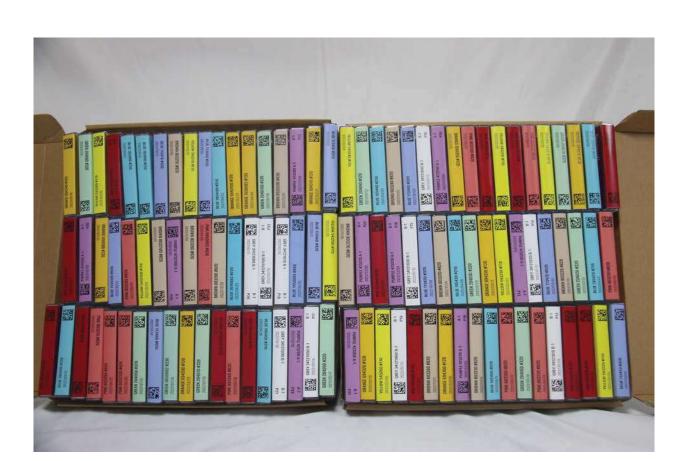


Batch Scanning

Achieves close to 100% reading rate across 100+ barcodes for effective batch scanning











Read Challenging Barcodes with Custom Scan Parameters

Dynamsoft Barcode Reader offers over 100 configurable parameters to tailor scan settings for various scenarios.



Code 39 Extended with Zero-Margin:

Accurately reads extended Code 39 barcodes with no margin space.

Inverted DPM Codes:

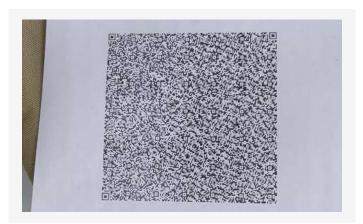
Reads Direct Part Marking (DPM) codes that are inverted when etched onto part surfaces.



OR Codes – Curved, Damaged, High-Version

Efficiently scans micro, curved, damaged, or higher-version QR codes with more data modules.





















DataMatrix- Tiny, Low Contrast, with Red Striped Background

Decodes DataMatrix barcodes that are tiny, low contrast, or against a red-striped textured background.































Barcode with Shadow:

Quickly decodes barcodes obscured by shadows.













Output Printed, **Blurry Barcodes:**

Successfully scans poorly printed or blurry barcodes.





Off-screen:

Captures and decodes barcodes displayed on flat screens, such as mobile phones, LEDs, LCDs, or TVs.





Tiny Barcodes:

Reads tiny barcodes on small items with high precision.



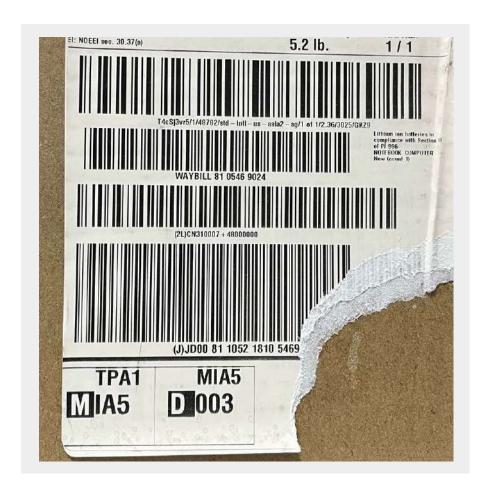






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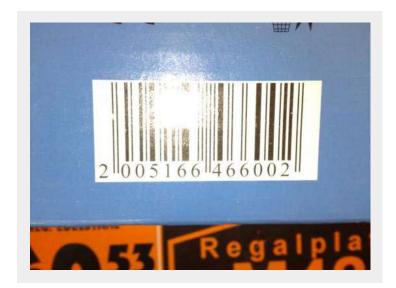
Effectively scans barcodes that are partially damaged or incomplete.





Barcodes in Strong Light:

Efficiently scans barcodes under strong lighting conditions, such as retail stores or highly lit events.









Barcodes in Low Lights:

Reads barcodes in low-light environments.





Crumpled Barcodes:

Decodes barcodes that are crumpled or wrinkled, often found on product packaging.

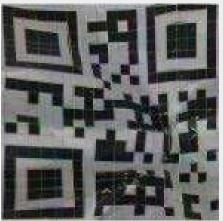












Oense Barcodes:

Scans barcodes that are dense and difficult to read by standard scanners.

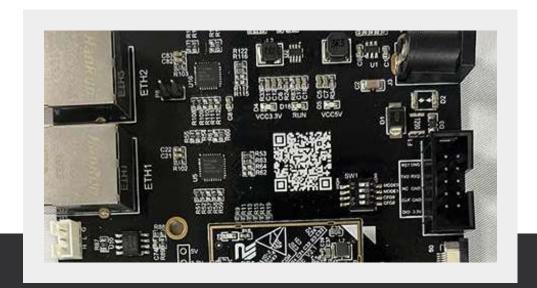






Reversed Barcode:

Accurately reads barcodes that are printed in reverse or mirrored orientation.





Barcodes in Different Industries

Dynamsoft Barcode Reader SDK enhances tracking and inventory management by efficiently scanning barcodes on products and components, improving overall operations.

Retail:

Streamlines checkout and inventory processes through quick and accurate barcode scanning.









Healthcare:

Improves patient care and medication management by reliably scanning barcodes on medical records and prescriptions.

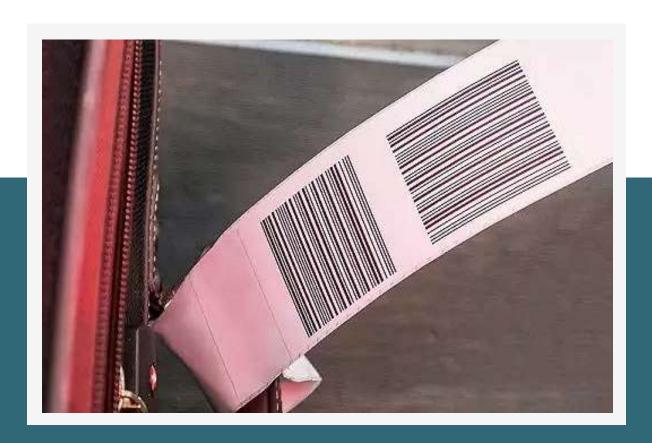






Air Travel:

Facilitates efficient check-in and baggage handling by scanning barcodes on boarding passes and luggage tags.







Benchmark & Accuracy Comparison

Accuracy is crucial for barcode reading SDKs, defined by the correct detection and return of barcode values in an image. Choosing an engine with optimal speed, accuracy, robustness, and support is vital for a successful barcode scanner application.



1D Barcode Scanning Accuracy Benchmark and Comparison

Evaluation and comparison of the precision of different leading barcode scanners in reading 1D barcodes. Here are the results.

Datasets Used for Comparison

Dataset	Artelab Medium Barcode 1D Collection	Muenster BarcodeDB	DEAL Lab's Barcode Dataset
Symbologies	EAN13	EAN13, UPC-A	EAN13
Include images with multiple barcodes	No	No	No
Number of images	430	430 1054	
Image quality	Barcodes are relatively large compared to the image size	Barcodes are relatively large compaed to the image size	Resolutions range from 400x217 to 3480x4640
Web page	http://artelab.dista.uninsub- ria.it/downloads/datasets/bar- code/medium_barcode_1d/me dium_barcode_1d.html	https://www.uni-muen- ster.de/PRIA/en/for- schung/index.shtml	https://ww- w.resl.kaist.ac.kr/ doc/datasets

Performance Test Results: Artelab Medium Barcode 1D Collection

Dataset 1

SDK	Dynamsoft Barcode Reader v9.6.10	Commercial SDK A v5.19	ZXing-CPP v1.2.0	pyZbar v0.1.8
Correctly recognizedy	215 out of 215	197 out of 215	177 out of 215	193 out of 215
Misread	0	0	1	1
Reading rate	100%	91.63%	82.36%	89.77%
Precision	100%	100%	99.44%	99.48%

Dataset 2

SDK	Dynamsoft Barcode Reader v9.6.10	Commercial SDK A v5.19	ZXing-CPP v1.2.0	pyZbar v0.1.8
Correctly recognizedy	176 out of 215	169 out of 215	22 out of 215	30 out of 215
Misread	0	1	2	8
Reading rate	81.86%	79.07%	10.23%	13.95%
Precision	100%	100%	91.67%	78.95%

Performance Test Results: Muenster BarcodeDB

SDK	Dynamsoft Barcode Reader v9.6.10	Commercial SDK A v5.19	ZXing-CPP v1.2.0	pyZbar v0.1.8
Correctly recognizedy	1022 out of 1054	984 out of 1054	792 out of 1054	744 out of 1054
Misread	0	0	1	34
Reading rate	96.96%	93.26%	75.14%	70.59%
Precision	100%	100%	99.87%	95.63%

Performance Test Result: DEAL Lab's Barcode Dataset

SDK	Dynamsoft Barcode Reader v9.6.10	Commercial SDK A v5.19	ZXing-CPP v1.2.0	pyZbar v0.1.8
Correctly recognizedy	1839 out of 2000	1221 out of 2000	1264 out of 2000	1452 out of 2000
Misread	0	0	26	9
Reading rate	96.95%	61.05%	63.20%	72.60%
Precision	100%	100%	97.98%	99.38%



Conclusion

Results show that the Dynamsoft Barcode Reader achieves the highest reading rate across all three datasets and excels at reading more blurred barcodes.





OR Code Reading Benchmark and Comparison

We evaluated the performance of Dynamsoft Barcode Reader SDK and other prominent barcode libraries, specifically focusing on their accuracy and error rates when scanning various types of 1D barcodes. Here are the results.

Performance Test Results: Detection Results (Reading Rate in Percentage)

Category	Dynamsoft	BoofCV	ZXing	ZBar	OpenCV WeChat	Commercial SDK A	Commercial SDK B
blurred	66.15	38.46	21.54	35.38	46.15	33.85	36.92
brightness	81.18	78.82	52.94	50.59	23.53	52.94	51.76
bright_spots	43.3	27.84	20.62	19.59	24.74	8.25	29.9
close	95	100	5	12.5	67.5	22.5	25
curved	70	56.67	31.67	35	43.33	31.67	36.67
damaged	51.16	16.28	20.93	25.58	30.23	27.91	27.91
glare	84.91	32.08	20.75	35.85	58.49	43.4	20.75
high_version	97.3	40.54	5.41	27.03	18.92	78.38	35.14
lots	100	99.76	82.86	18.1	0	14.52	97.14
monitor	100	82.35	0	0	94.12	11.76	5.88
nominal	93.59	89.74	53.85	66.67	71.79	64.1	65.38
noncompliant	92.31	3.85	15.38	50	76.92	61.54	11.54
pathological	95.65	43.48	34.78	65.22	91.3	0	78.26
perspective	62.86	80	37.14	42.86	42.86	65.71	34.29
rotations	99.25	96.24	42.11	48.87	32.33	99.25	69.17
shadows	100	85	65	90	60	90	95



Engine	Speed in milliseconds
Dynamsoft	195.01ms
Commercial SDK A	1400.43ms
Commercial SDK B	346.27 ms
ZXing	179.57ms
ZBar	157.31ms
BoofCV	104.95ms
OpenCV Wechat	757.71ms



Conclusion

Dynamsoft Barcode Reader demonstrates the best QR code reading rate on the test set and offers remarkable speed.





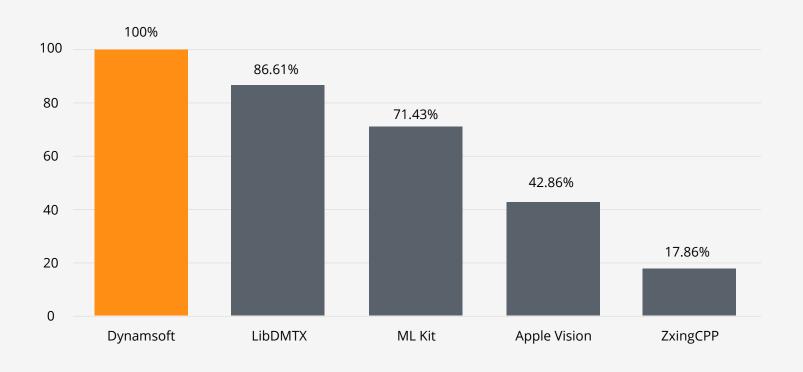
DataMatrix Reading Benchmark and Comparison

Comparison of the effectiveness of different scanners in reading DataMatrix barcodes. Here are the results.

Reading Rate Performance Test Results

Engine	Reading Rate in Percentage
Dynamsoft	100%
LibDMTX	86.61%
ML Kit	71.43%
Apple Vision	42.86%
ZxingCPP	17.86%

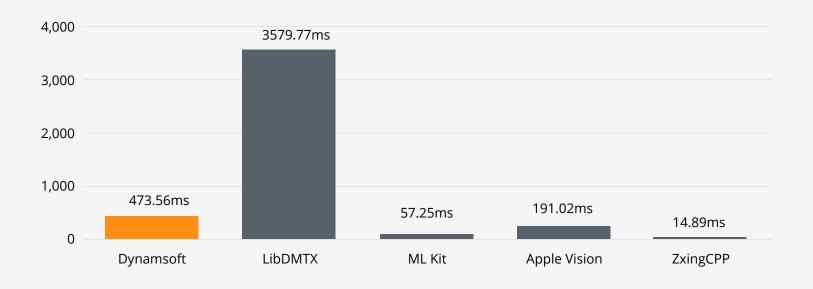
Reading Rate



Speed Performance Test Results

Engine	Speed in milliseconds
Dynamsoft	473.56ms
LibDMTX	3579.77ms
ML Kit	57.25ms
Apple Vision	191.02ms
ZxingCPP	14.89ms

Average Time





Conclusion

Dynamsoft Barcode Reader can decode all Data Matrix codes, unlike other SDKs. It also maintains a good balance between reading rate and runtime. While libdmtx has a high reading rate, it is slow in decoding, and ZxingCPP is fast but lacks accuracy.





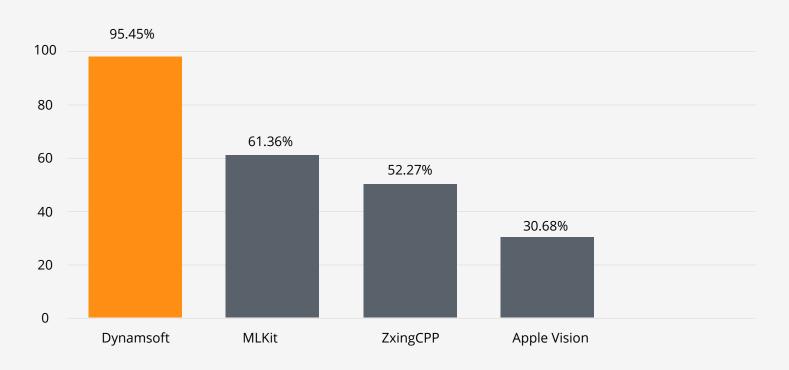
PDF417 Reading Benchmark and Comparison

Benchmark and comparison of the accuracy of PDF417 barcode scanners. Results are shown below.

Reading Rate Performance Test Results

Engine	Reading Rate in Percentage
Dynamsoft	95.45%
ML Kit	61.36%
ZxingCPP	52.27%
Apple Vision	30.68%

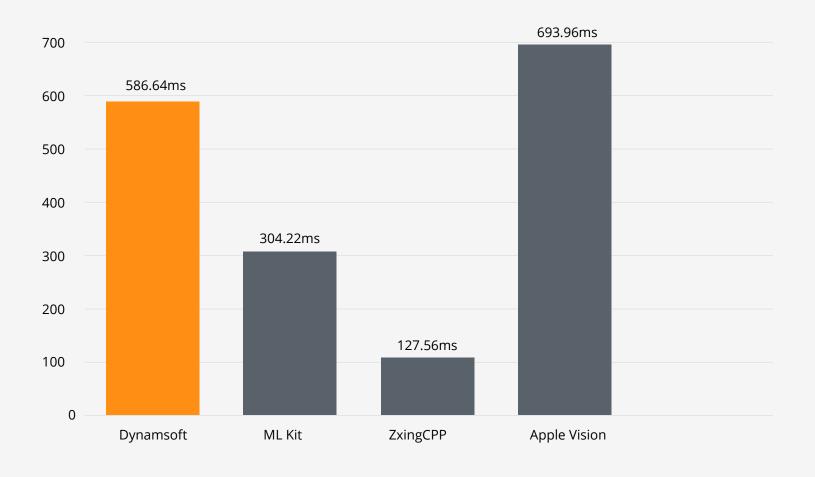
Reading Rate



Speed Performance Test Results

Engine	Speed in milliseconds
Dynamsoft	586.64 ms
ML Kit	304.22 ms
ZxingCPP	127.56 ms
Apple Vision	693.96 ms

Average Time





Conclusion

Test results highlight that the Dynamsoft Barcode Reader achieves the highest reading rate and maintains good speed.





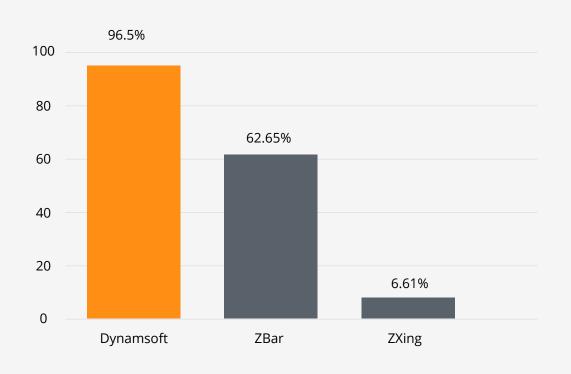
Multiple Barcode Reading Benchmark and Comparison

Evaluation of the performance of barcode scanners in reading multiple barcodes simultaneously. The findings are shown in the tables below.

Reading Rate Performance Test Results

Engine	Reading Rate in Percentage
Dynamsoft	96.5%
ZBar	62.65%
ZXing	6.61%

Reading Rate

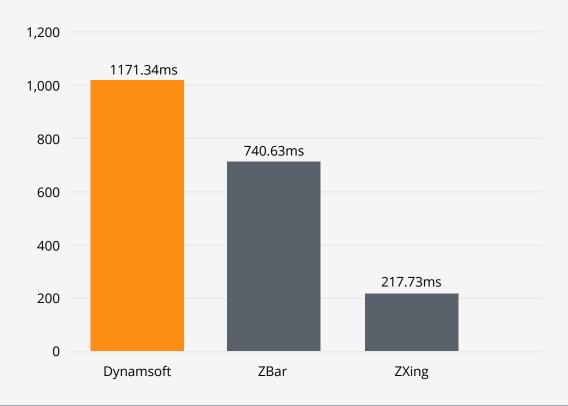




Speed Performance Test Results

Engine	Speed in milliseconds
Dynamsoft	1171.34 ms
ZBar	740.63 ms
ZXing	217.73 ms

Average Time





Conclusion

Dynamsoft Barcode Reader has the highest reading rate despite requiring more time per image. It supports more barcode formats and excels at recognizing challenging barcodes, such as blurred, damaged, and low-light barcodes, contributing to its superior reading rate.



Unlock Barcode Power

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