



SWIFTDECODER™ OFFERING

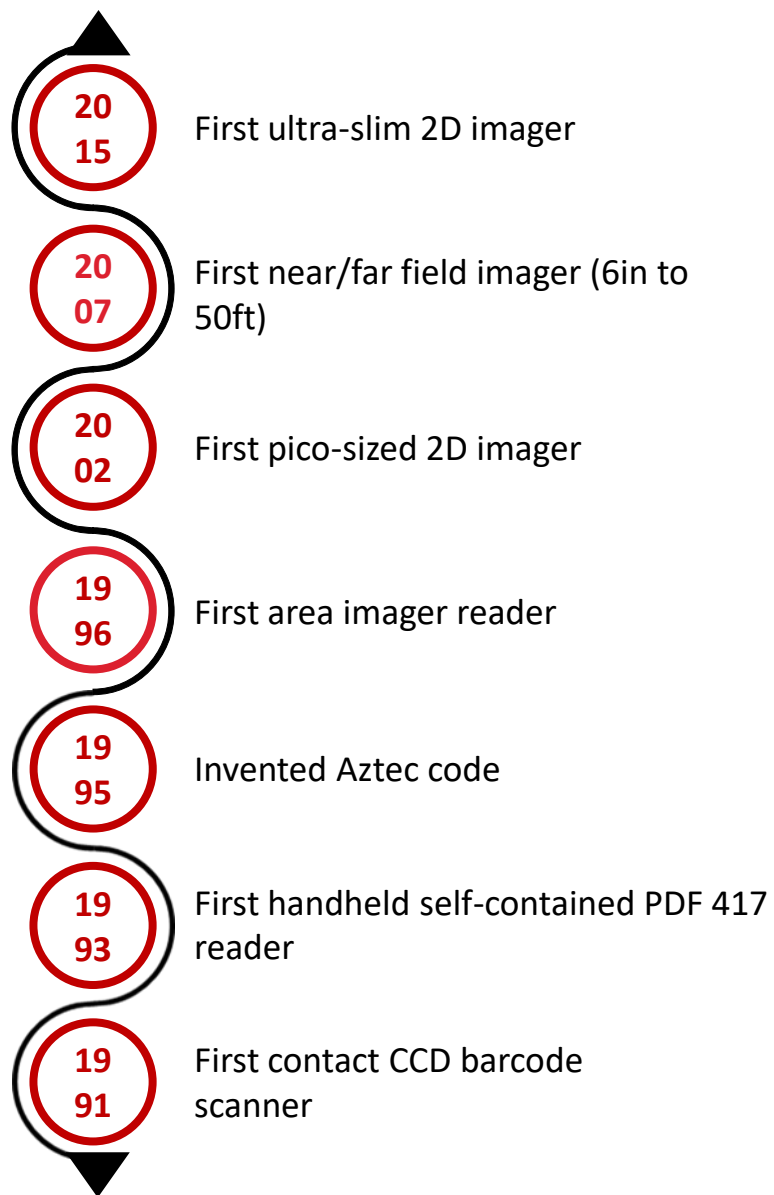
VISION TECHNOLOGY SOLUTION

Honeywell

Kreski

Zapraszamy do kontaktu!
Więcej informacji: www.kreski.pl

DOMAIN EXPERTISE

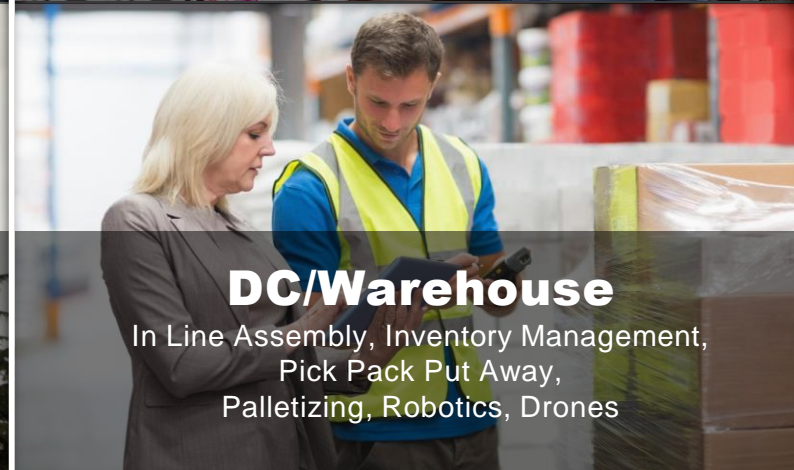


50

Years of
Scanning
Innovation

Global Leader in
Scanning

SWIFTDECODER | INDUSTRIES & APPLICATIONS



SWIFTDECODER | VISION SOLUTIONS FOR RETAILERS

Optimizing a variety of retail workflows
including contactless payments, self
shopping, click and collect, line busting,
curbside pickup, inventory
management/replenishment and more.



SWIFTDECODER | VISION SOLUTIONS FOR TRANSPORT & LOGISTICS

SwiftDecoder optimizes a variety of transportation & logistics workflows including, package loading and delivery, package tracking, package sortation, and more.



SWIFTDECODER | VISION SOLUTIONS FOR ACCESS CONTROL

SwiftDecoder optimizes a variety of workflows including, ID & age verification, ticketing, admissions, car renting, transportation hubs checking, and many more.



SWIFTDECODER | VISION SOLUTIONS FOR WAREHOUSE AUTOMATION

SwiftDecoder improves a variety of warehouse workflows including, receiving, put-away, storing, picking, packing shipping and more. SwiftDecoder can also enables automation using drones or co-bots increasing productivity and reducing labor costs.



SWIFTDECODER | WHAT IS IT?

- SwiftDecoder is an easy-to-use SDK that enables customers to develop native or hybrid apps for any camera enabled device to perform barcode decoding
- Uses the same decoding technology from our mobile computers
- SwiftDecoder allows end-users to acquire and process data and images quickly and reliably in the most complex workflows using Honeywell's proprietary algorithms, which enable speed, performance, range and accuracy



Easy to Use



Accuracy



Performance



Speed



+100 symbologies



Multi-Platform



SWIFTDECODER™ | KEY VERTICALS

Retail



Improves profitability and customer experience by optimizing a variety of retail workflows.

Healthcare



Brings patient safety to the forefront of every application by reducing medical errors and connecting patients to the right care at the right time.

T&L



Increases efficiency and reduce errors in logistics' receiving and delivery, through flexibility and accuracy.

Warehouse Automation



Increasing the productivity and reducing the inventory errors in the warehouse through accuracy and scanning range flexibility.

Access Control



Streamlines the processing, reducing customer's time at the control points.

Use Case Examples:

- Contactless payments
- Self-shopping
- Click and collect
- Line busting
- Curbside pickup
- Inventory management /replenishment

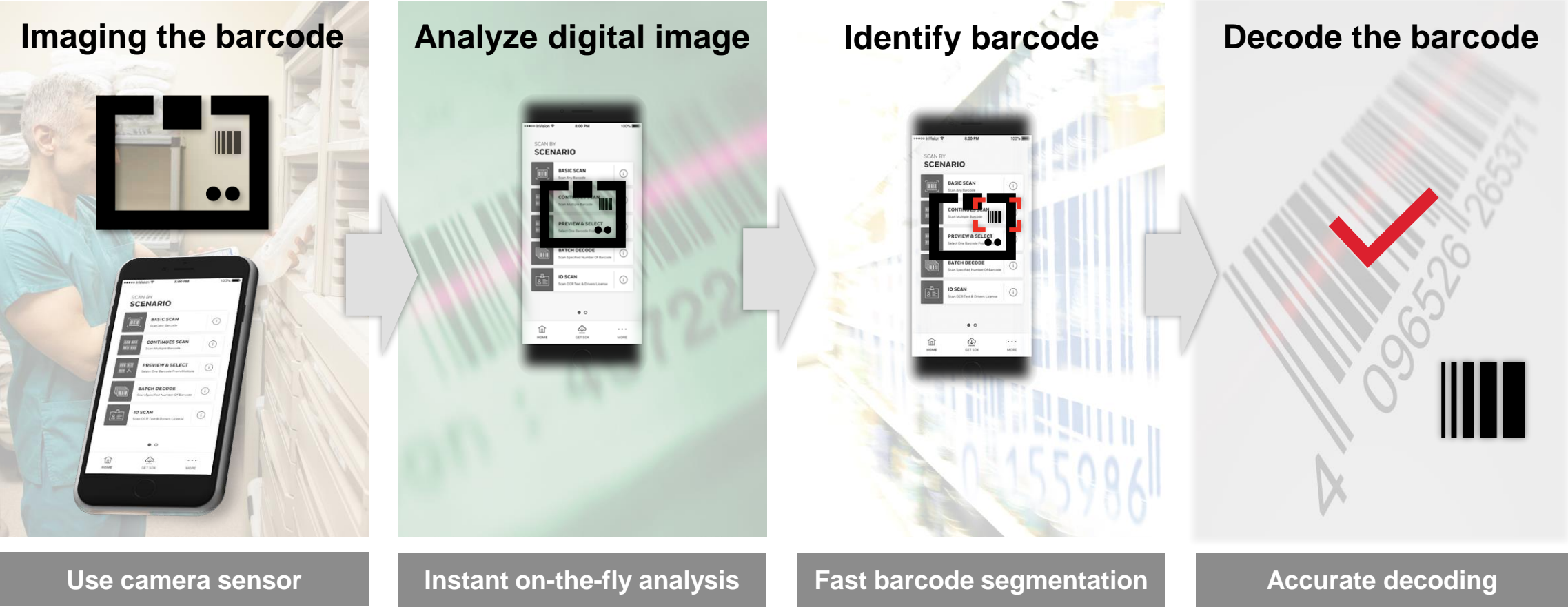
- Patient check in
- Bedside scanning
- Prescription dispensing
- Pharmacy & laboratory management
- Inventory tracking

- Package loading and delivery
- Package tracking
- Package sortation
- Last mile delivery

- Pick, Pack, Put-Away
- In-line assembly
- Inventory management
- Palletizing
- Robotics
- Drones

- Passport & drivers license reading
- ID & age verification
- Ticketing & admissions
- Car renting
- Gate entrance
- Elevator access
- Parking solutions

SWIFTDECODER | WHAT DOES SWIFTDECODER DO?



Core technology – barcode decoding

SWIFTDECODER | SOLUTION OVERVIEW

Over 100 Barcode Symbolologies

Comprehensive set of symbolologies embedded into core decoding and database

Advanced Image Processing

Read low contrast, damaged barcodes and any difficult to read barcodes

Proven Performance

Scans millions of barcodes every day with few misreads.

Snappiness

Faster in snappiness than competitive enterprise software

Device Flexibility

Works with smartphones, tablets, kiosks, payment terminals, mail sorting machines and much more

OS Agnostic

Multi-platform support. Android, iOS, Windows UWP, Xamarin, Cordova, React Native, Flutter, Capacitor, Linux, JavaScript

Camera Support

Scans with built in camera, imager, or other connected camera or optical module

Beyond Barcodes

Augmented Reality, OCR, and image capture for complex workflows



Over 50 years of innovation in barcode scanning

SWIFTDECODER | SCANNING MODES



WINDOWING: Capture a barcode when within a user-defined window overlay on the camera feed



TARGETING: Capture a barcode when targeted by the aimer overlay on the camera feed



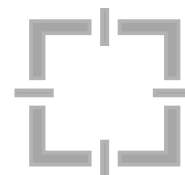
PREVIEW & SELECT: Allows you to select the desired barcode from the highlighted barcodes in the viewfinder. Only collect decoded data from the selected barcode



CONTINUOUS SCAN: Scan barcodes and return decoded results continuously



BATCH SCAN: Search for a user-defined number of barcodes before returning the results back to the application; SwiftDecoder™ for Android™ and iOS® can process up to 10 codes per frame



MANUAL: Default mode for identifying and decoding barcodes within the captured image



BASIC SCAN: Scan one barcode at the time



UNATTENDED: Read barcodes with a known location, symbol size or/and orientation for high-speed decoding

Legenda



SWIFTDECODER | EXTENDED WORKFLOWS



DRIVERS LICENSE & ID SCANNING

Reads and parses data from driver's licenses and ID's Globally using the PDF417 barcode or OCR



BOARDING PASS SCANNING

Reads and parses data from boarding passes using the PDF417 barcode



OPTICAL CHARACTER RECOGNITION

Enhances workflows using custom OCR templates and region based open OCR reading



AUGMENTED REALITY

Enables graphical screen overlays of data-rich information, increasing workers' productivity or guiding users through their decision journey



PASSPORT & TRAVEL DOCUMENT SCANNING

Reads and parses data from passports, Visas, Green Cards, and other Machine-Readable Travel Documents (MRTD)

AR WORKFLOWS



SwiftPriceTag

Verify the shelf price of an item matches the price in your database using AR+OCR



SwiftInventory

Validate shelf inventory with inventory in your inventory management system for real time visibility, and re-ordering



SwiftFind

Search and find an item amongst many items



HIGH-SPEED SCANNING


























Provides high-speed scanning for maximum throughput in postal sorting & manufacturing operations; mobile POS/kiosks



SCAN & GO

Speed up shopping by embedding SwiftDecoder into any End User facing application to enable end users to scan goods as they shop and check out easily

SWIFTDECODER | OS AND PLATFORM SUPPORT

SDK	Android	iOS	Linux	Windows	Android EZDL	iOS EZDL	Windows EZDL	Cordova	Xamarin .Net Maui	React Native Capacitor	Flutter
Programming Language		  Swift		 		  Swift	 			 	 Dart
Development Environment	Android Studio	Xcode	C/C++ compatible Python(*)(**)		Android Studio	Xcode	Visual Studio	Visual Studio code; Android Studio; IntelliJ IDEA; Xcode			
Operating System								 			

Support for every platform and wrappers

SWIFTDECODER | WRAPPERS

CORDOVA, .NET MAUI, REACT NATIVE
FLUTTER, CAPACITOR

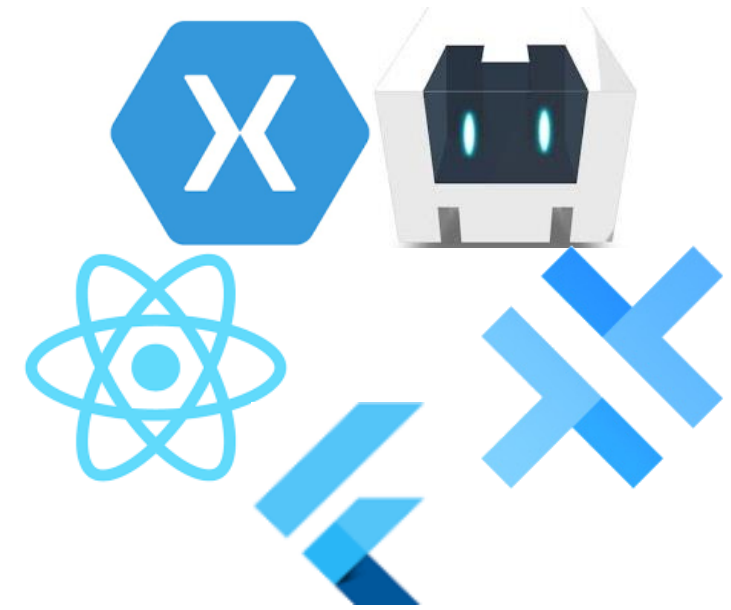
The Challenge

Customers integrating SwiftDecoder into their applications would like to develop a single web based or native application that can be used across any OS or platform.

The Benefit

Customers can develop an application one time and deploy it across a mixed estate of devices shortening the development time and eliminating the need to support multiple apps.

(*) JavaScript calls Android SDK from within the web-browsers (Chrome only)
V6 Release June 2024



Cordova
Xamarin
React Native
JavaScript
.NET Maui
Flutter
Capacitor

Increased interoperability and compatibility through wrappers

SWIFTDECODER | AR ENHANCES WORKFLOWS

- **Transform** from **data collection** offering to a **decision enablement software** offering based on **vision technology**
- Augmented Reality as an **enabling** technology
- **Complementary** to data collection technologies (Barcode scanning; OCR; Machine Vision technologies)
- Screen (mobile; tablets; computers; etc.) displays information **aiding** the end-user/worker decision & **increasing productivity**



Data Collection & AR Accelerate User Decision

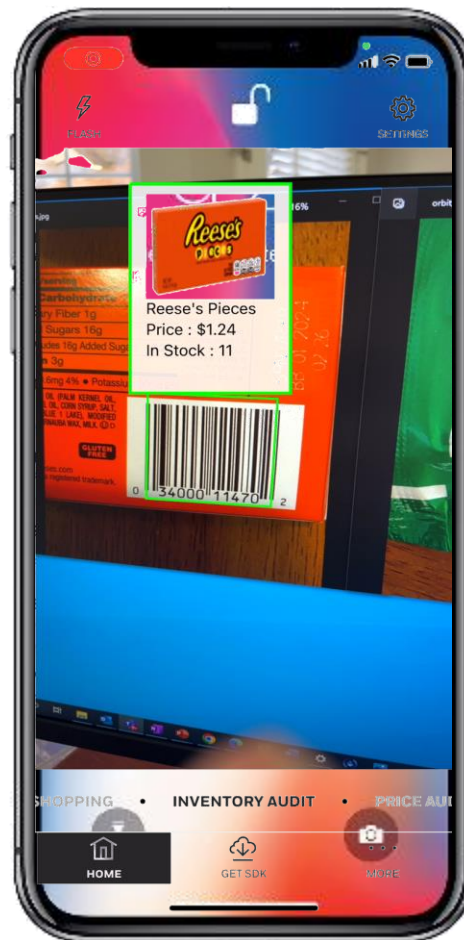
SWIFTDECODER – A COMPUTER VISION PLATFORM

SwiftDecoder

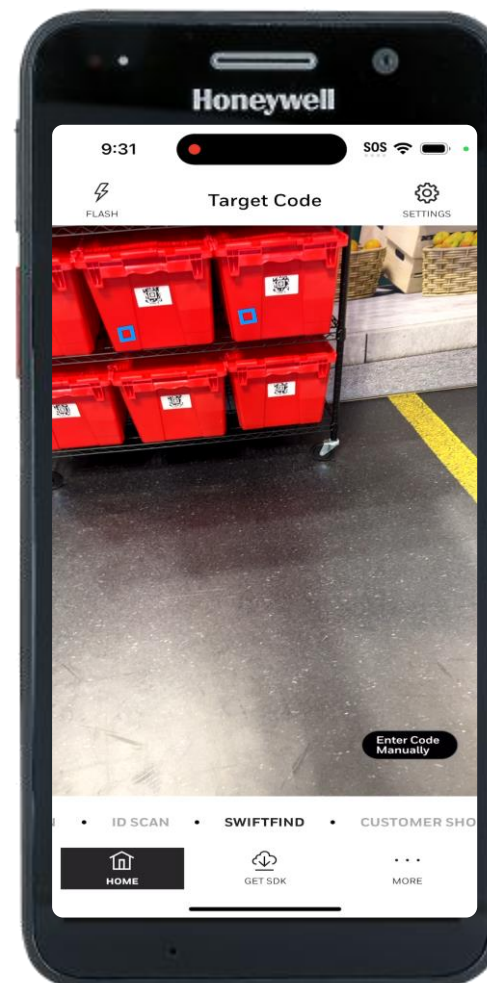
- Multiple releases per year
- Demo and proof of concepts provided to support your journey
- Agile Development to support customer requirements

Coming Soon

- Complex OCR workflows
- Low Code SDK
- Browser SDK
- Keyboard Wedge



Swift Inventory

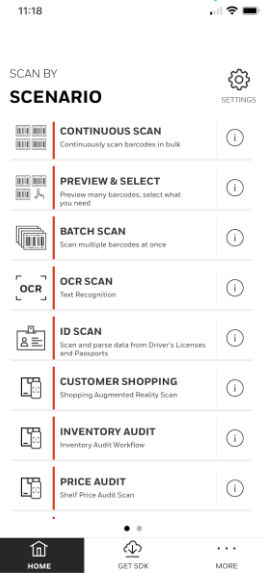


SwiftFind



Scan & Go

Enhance The Digital Experience And Create Your Own Unique Value

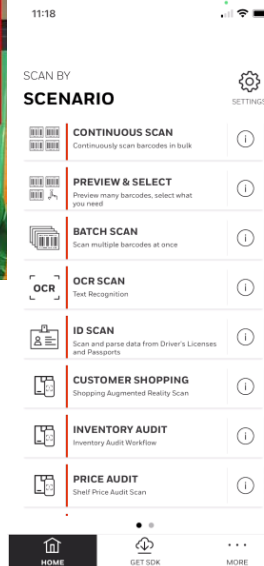
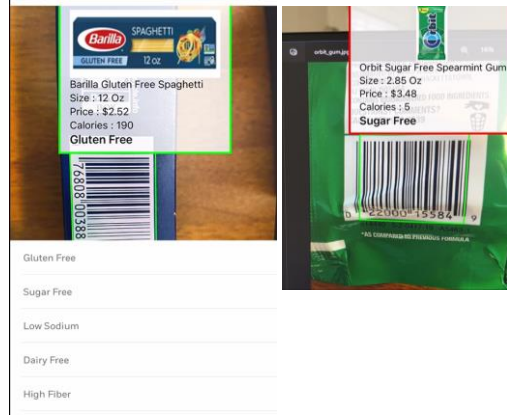


Price Check OCR

Overview: Allows associates to parse important OCR data on any user supplied label and validate pricing.

Key Facts:

- A max of 5 OCR areas can be detected with one template
- The label must have a minimum of 1 barcode on the label
- Currently only supports English and ASCII
- A max of 40 templates can be configured for the customer application
- Customers can tie this to the backend data base

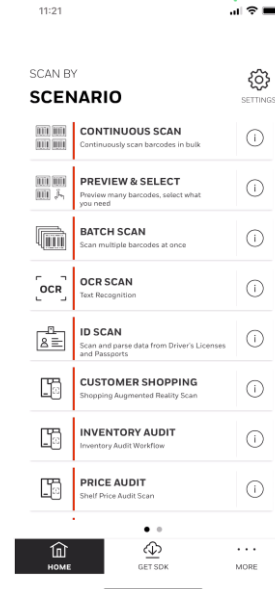
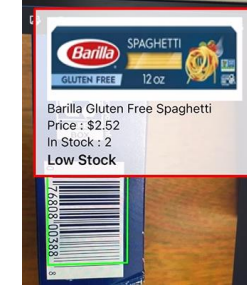


Dietary customer shopping

Overview: Allows end customers to shop in store and find products that meet dietary restrictions

Key Facts:

- This can be tied to a back-end data base
- Especially relevant in EU where **Natasha's law** is present



Inventory Stock Check

Overview: Allows the associate to scan products and determine if the inventory is low or display relevant data

Key Facts:

- This can be used for customers or associates and displays can be changed as needed
- The video shown is a basic demonstration of what it can look like
- This can be tied to a back-end data base

AR Improves Workflows & Reduce Pricing and Inventory Errors

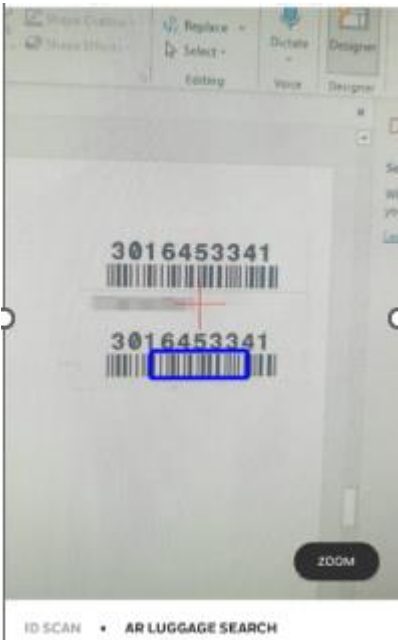
SWIFTDECODER | AR WORKFLOWS

SEARCH AND FIND

Overview: Allows users to search for a specific barcode from multiple barcodes within the field of view using graphical overlays to highlight the matched and unmatched barcode with green or red markings

KEY FACTS

- Input identifying item through scanning a matching barcode or manually entering what you are searching for in dialog box.
- Target workflows include luggage finder, shoe size finder, package finder and much more

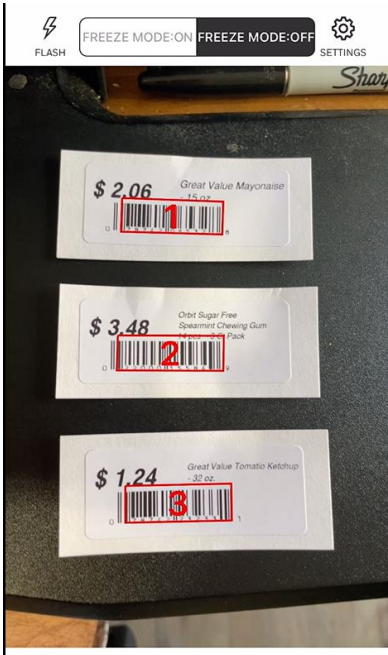


FREEZE FRAME

Overview: Allows users to scan only the desired barcodes when many barcodes are present within the field of view. By double tapping on the screen the user can freeze the image. The AR interface allows the user to tap to select and decode only the desired barcodes in the field of view.

KEY FACTS

- This can also be applied to OCR workflows to get higher OCR accuracy rates

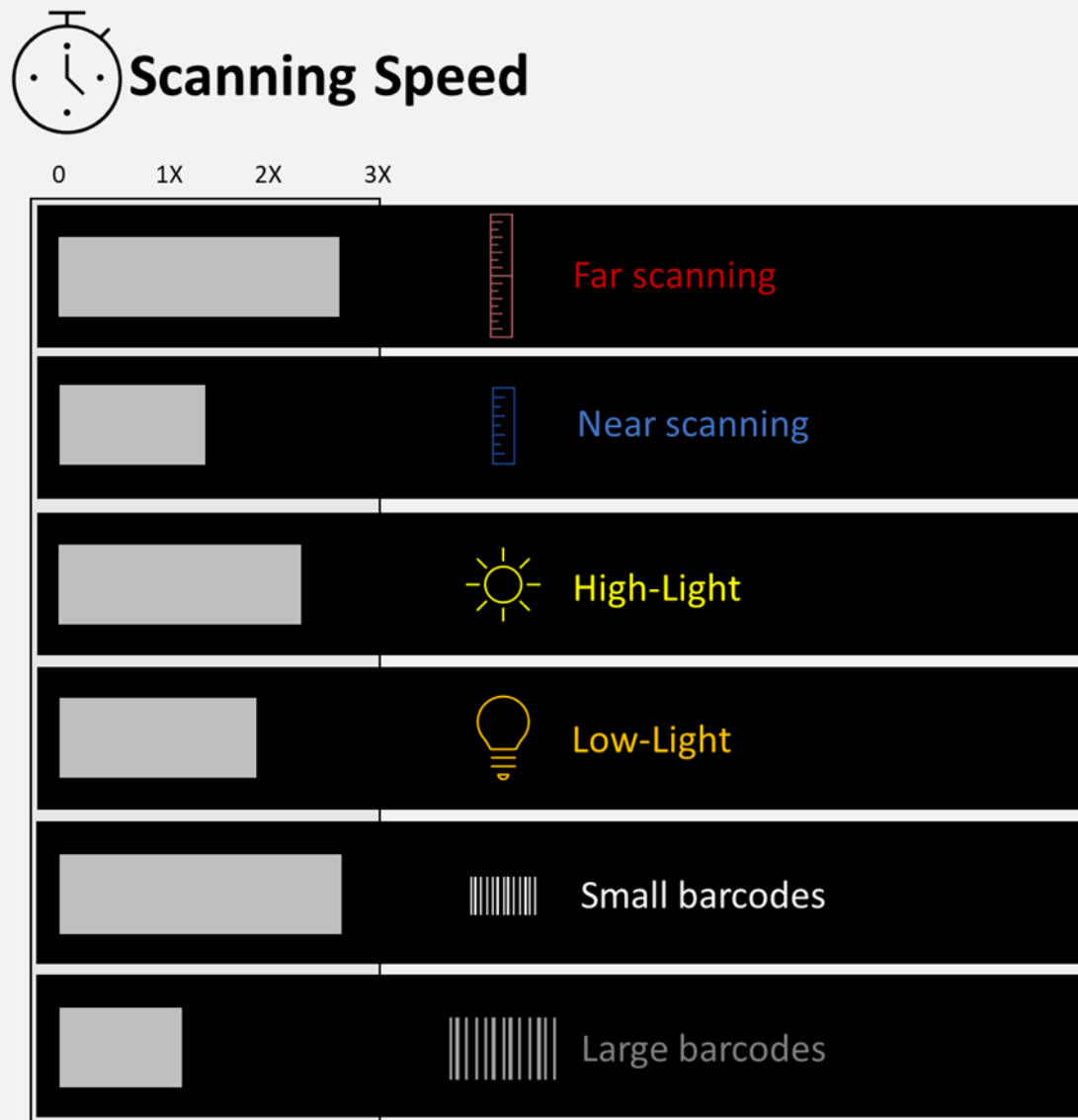


SWIFTDECODER |

FLEXIBILITY	ACCURACY	SPEED	COMPATIBILITY
<ul style="list-style-type: none">Decodes over 100 barcode symbologies currently used in consumer and enterprise applications: 1D, 2D Stacked, Data Matrix, Postal, QR, UPC, and moreQuick integration of new symbologies as they emerge in the marketplaceRegular software releases for new markets and applicationsPatented algorithms provide scanning at various distances	<ul style="list-style-type: none">Fewer misreads per millions vs. the competitionAvoids the exception process: Reads damaged and low contrast barcodesHighly reliable: Scans millions of barcodes every day, used by the world's largest companiesProven performance with autofocus cameras in mobile devices for close-up or long-range scanning	<ul style="list-style-type: none">Supports automatic mode set for high-speed scanning in mail, document, and package sortationFaster in snappiness than competitive enterprise software productsReads damaged, scratched, curved barcodes with speed and accuracyFaster in motion tolerance than competitive enterprise software products	<ul style="list-style-type: none">Supports a wide range of hardware: Mobile phones, tablets, PCs, payment terminals, industrial cameras, purpose-built devicesMulti-platform support. Android, iOS, Windows UWP, .Net Maui, Cordova, JavaScript(*), React Native, Linux, Flutter(*), CapacitorCustom built SDKs for purpose-built cameras/devices, BYOD or other strategiesBeyond barcode: OCR, augmented reality, price verification, shopper experience
BROAD PORTFOLIO	RELIABLE SOLUTION	FIELD PROVEN SCANNING	SUPERIOR SUPPORT

(*) JavaScript calls Android SDK from within the web-browsers (Chrome only)

SWIFTDECODER | BENCHMARKING VS COMPETITION



Samsung S20 Google Pixel 5 iPhone XR iPhone 12 Pro Max

- Multiple 1D and 2D barcodes
- Distances from 10 – 50 cm (4" – 24")
- Low light (120 LUX) – warehouse like
- High Light (200 LUX) – outdoor/office like

Leading Performance

SWIFTDECODER | FLEXIBLE PRICING MODELS

We provide you with simple and flexible pricing models that are structured for your needs. You can choose add-ons that provide additional value and tailor a “Just Right” solution.

SUBSCRIPTION

- Available for any customers embedding SwiftDecoder into software applications or hardware for their use
- Monthly/Quarterly/Annually
- Concurrent licensing w/ License return
- Support included
- Includes version releases and upgrades
- Value-based add-ons available
- Multi-year discounts available

PERPETUAL

- Available for manufacturers embedding SwiftDecoder into their hardware products sold to 3rd parties
- One-time fee per device/license
- License is not transferable
- Maintenance included for 1st yr.
- Additional maintenance requires fee per license / only avail

Note: **Consumer licensing model** available upon request for customers developing consumer facing apps.

Value Based, Simple, Flexible Pricing

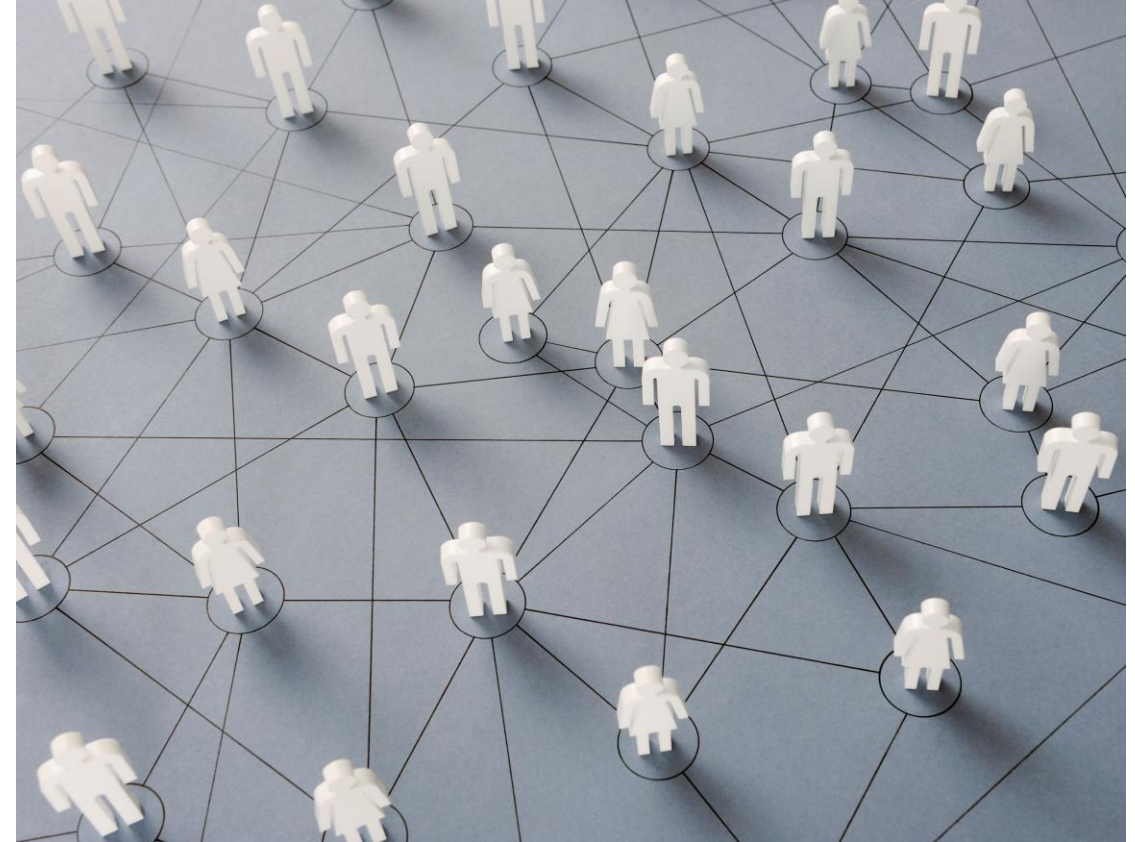
SWIFTDECODER | FLEXIBLE LICENSING

We know that every customer is unique and operates in a unique environment. As such, we strive to provide you with options when it comes to software licensing.

SWIFTDECODER LICENSING OVERVIEW:

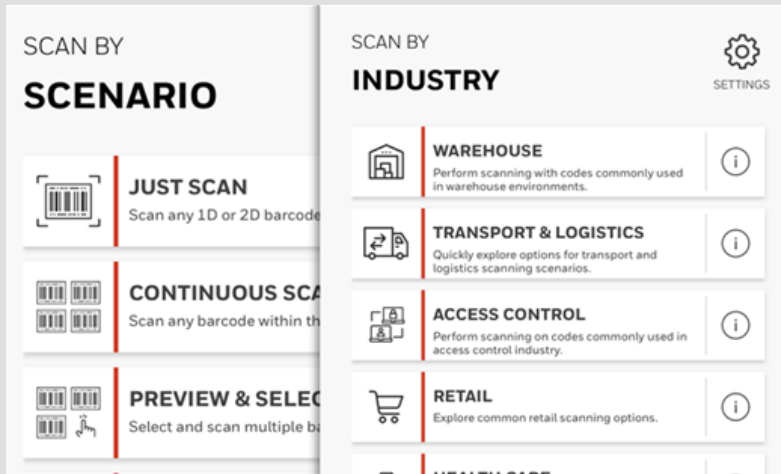
- Customer portal for visibility
- Offline licensing (*)
- Batch licensing
- Locally hosted server(*)
- Proxy activation(*)
- License return to support concurrent models

(*) Not in available Xamarin SDK & JavaScript



Ability to License Based on Your Needs!

SWIFTDECODER – DEMO APP & TRIAL PROGRAM



Free Demo

- Available on Apple and Google Stores
- Demonstrates performance and features
- Search for: **"HONEYWELL BARCODE SCANNER"**



Free 60 Day Trial

- Available in all OS's and development platforms
- Can be extended upon request [link](#)

[Datasheet](#)



Purchase

- Contact a Honeywell Sales Rep

SwiftDecoder Performance & Capabilities in your hand

Kreski

Zapraszamy do kontaktu!
Więcej informacji: www.kreski.pl