HONEYWELL
VISION SOLUTIONS

Helping Customers Simplify Their Workflows for Over 40 Years

Pocket Range Guide
SwiftDecoder™ Software Solution

SwiftDecoder enables customers to develop applications that perform barcode decoding, OCR applications, using AR and many other features, simplifying their workflows through faster reliable data acquisition in the most complex environments.

Customers can easily integrate their application into any operating system running on any mobile or fixed devices. SwiftDecoder is compatible with the following deployment environments:

- iOS®
- Android™
- Windows®
- Linux®
- Cordova™
- Xamarin™
- React Native™

SwiftDecoder enables various barcode scan modes to meet any workflow need:

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WINDOWING</strong></td>
<td>Capture a barcode only when it is within the window</td>
</tr>
<tr>
<td><strong>TARGETING</strong></td>
<td>Capture a barcode only when it is targeted by the aimer</td>
</tr>
<tr>
<td><strong>BATCH SCAN</strong></td>
<td>Read many barcodes simultaneously when in the window of view</td>
</tr>
<tr>
<td><strong>PREVIEW &amp; SELECT</strong></td>
<td>Enabled scanning to select the desired barcode among many</td>
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<tr>
<td><strong>CUSTOM SCAN</strong></td>
<td>Read a barcode only when it meets a custom requirement, size, symbology, content, etc.</td>
</tr>
<tr>
<td><strong>CONTINUOUS SCAN</strong></td>
<td>Read barcodes continuously within tens-of-milliseconds</td>
</tr>
</tbody>
</table>

SwiftDecoder offers capabilities beyond barcode decoding such as microservices that are licensable as add-ons:

- EasyDL for USA and Canada driving license PDF417 reading and parsing
- OCR type A/B parsing
- Passport MRZ reading and parsing
- Boarding pass PDF417 reading and parsing
- Motor vehicle documents with PDF 417 reading and parsing

UNDECODED Scan Engines

**GENERAL**

- N4603SR
  - Up to 5.84 m/s
  - VGA, GS, SR, 120 fps
  - Ht: 8.1 mm
  - 3.3 V MIPI

- N360XSR
  - Enhanced read range
  - 1 Mpx, RS, SR, 30 fps
  - Ht: 8.1 mm
  - 3.3 V, para or MIPI

- N5600WA
  - 3.3 V, 8 MB
  - 20 mm x 14 mm
  - TTL-RS-232 or USB
  - EZDL Plug-in, DPM, OCR

**ADVANCED**

- N670XSR
  - Enhanced read range
  - Up to 6 m/s
  - 1 Mpx, GS, 60 fps
  - Ht: 6.8 mm
  - 3.3 V, para or MIPI

- N660X Series
  - Up to 5.84 m/s
  - GS, SR or GR, 60 fps
  - Ht: 6.8 mm
  - 3.3 V, para or MIPI

- N560X Series
  - WVGA, GS, 60 fps
  - HD, SR, ER
  - Ht: 12.5 mm
  - 3.3 V, para

- GEN7 DB
  - 3.3 V, 8 MB
  - 20 mm x 14 mm
  - TTL-RS-232 or USB
  - EZDL Plug-in, DPM, OCR

**PREMIUM**

- Extended FlexRange™ EX30
  - 10 cm to 20 m
  - Up to 6 m/s
  - Dual sensor, 1 Mpx, GS, 60 fps
  - 3.3 V para or MIPI

- N6700XSR-R*
  - Red illumination configuration
  - Digimarc® ready

- N6703HD
  - DotCode ready
  - DPM Option

- N5600WA
  - Space saving
  - 68° horizontal FOV
  - WVGA, GS, 60 fps
  - 3.3 V, para

- GEN7 DB
  - 3.3 V, 8 MB
  - 20 mm x 14 mm
  - TTL-RS-232 or USB
  - EZDL Plug-in, DPM, OCR

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DECODED SCAN ENGINES

GENERAL

N3681
- 1 Mpx, RS, SR
- 5 V Micro USB

N4680 Series
- VGA, GS
- SR, Up to 120 fps
- 5 V USB or 3.3 V TTL-RS-232

ADVANCED

N6680 and N6780
- Flexible choice of optics
- MINI DB-02
- 5 V, Micro USB

N5680X
- WVGA, GS
- 60 fps
- USB 1.1, USB 2.0 (micro B), or TTL-RS-232

PREMIUM

Honeywell Extended FlexRange™ EX30 + GEN7 DB
- 5 ms autofocus optic
- 10 cm to 20 m
- Up to 6 m/s
- Dual sensor, 1 Mpx, GS, 60 fps
- 3.3 V, USB or TTL-RS-232

CUSTOMER-FACING STATIONARY MODULES

GENERAL

CF4680
- Presence detection
- 91 mm x 105 mm x 75 mm overall
- 61 mm x 73 mm window
- 5 V, USB

CM4680
- Standard performance (standard range)
- 640 pixel x 480 pixel

HF521
- 42 mm x 42 mm x 33 mm
- VGA, GS, WA
- 60 fps
- USB or TTL-RS-232

ADVANCED

HF561 Series
- Up to 3 m/s
- WVGA, GS, SR or ER
- 60 fps
- USB or TTL-RS-232

Vuquest 3330g
- 74 mm x 50 mm x 26 mm
- WVGA, GS, SR or HD
- 60 fps
- USB or TTL-RS-232 or KBW
- trigger

CM5680
- Enhanced performance (standard range)
- 844 pixel x 640 pixel

CM2180
- Specialized performance (megapixel)
- 1280 pixel x 800 pixel

GLOSSARY

VGA: 640x480 pixels
WVGA: 844x640 pixels
Mpx: Megapixel
GS: Global Shutter
RS: Rolling Shutter
SR: Standard Range
ER: Extended Range
HD: High Density
WA: Wide Angle
Fps: Frames per second
FOV: Field of View
Para: Parallel interface
MIPI: Mobile Industry Processor Interface
Ht: Height
KBW: Keyboard Wedge
DPM: Direct Part Marking
OCR: Optical Character Recognition
TTL-RS-232: Transistor-Transistor Logic

AIMERS AND PATTERNS

Honeywell offers a large choice of advanced LED and laser aiming patterns and illuminations to meet your needs.

- red dot LED aimer (N4680 Series)
- red laser aimer and framer (N6703, N6603, N56X3)
- green dot LED aimer (N3601)
- high bright green LED cross aimer (N6700)
TEST BARCODES

Honeywell 2D imagers omnidirectionally read Linear, Stacked, Matrix, Composite, and Postal barcodes, as well as OCR codes.

Linear Barcodes

- Code 39
- Codabar
- Code 128
- Interleaved 2 of 5
- GS1 DataBar
- U.P.C.- A
- GS1 128
- GS1 DataBar Limited
- EAN - 8
- Code 93 / 93i
- GS1 DataBar Expanded
- EAN - 13
- GS1 DataBar Stacked
- GS1 DataBar Exp. Stacked
- Micro PDF417
- PDF417
- GS1 DataBar Stacked
- GS1 DataBar Exp. Stacked

Stacked Barcodes
Matrix Barcodes

Data Matrix

QR Code

(43 characters)

Aztec Code

(243 characters)

Composite Barcodes

RSS Limited + Composite

EAN-128 + Composite

“0112345678901231” + 38 chars

“0112345678901231” + 34 chars

Postal Barcodes

Postnet

OCR Codes

OCR-A

OCR-B

32478450

00001234
Honeywell offers a variety of barcode decoding vision solutions. Add as much or as little as your application needs. Suitable to support many applications, including mobility, payment, healthcare, retail, warehouse, kiosk, lottery, access control, logistics, point of sales and industrial, the Honeywell portfolio of scan engines, scan modules, decoder boards and software solutions will have you up and running as quickly as possible.

With decades of experience in scanning and decoding, Honeywell’s broad portfolio and engineering expertise help design engineers to solve their technical challenges and select the right product and software for their specific applications.

Get in touch with us to discover the potential of Honeywell vision solutions.

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