

# HONEYWELL VISION SOLUTIONS

Helping Customers Simplify Their Workflows  
for Over 40 Years

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Pocket Range Guide

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**Honeywell**

# 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:












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



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	ADVANCED	PREMIUM
<p><b>N4603SR</b></p> <ul style="list-style-type: none"> <li>• Up to 5,84 m/s</li> <li>• VGA, GS, SR, 120 fps</li> <li>• Ht: 8,1 mm</li> <li>• 3.3 V MIPI</li> </ul>  <p><i>slim</i></p>	<p><b>N670XSR</b></p> <ul style="list-style-type: none"> <li>• Enhanced read range</li> <li>• Up to 6 m/s</li> <li>• 1 Mpx, GS, 60 fps</li> <li>• Ht: 6,8 mm</li> <li>• 3.3 V, para or MIPI</li> </ul>  <p><i>ultra slim</i></p>	<p><b>Extended FlexRange™ EX30</b></p> <ul style="list-style-type: none"> <li>• 10 cm to 20 m</li> <li>• Up to 6 m/s</li> <li>• Dual sensor, 1Mpx, GS, 60 fps</li> <li>• 3.3 V para or MIPI</li> </ul> 
<p><b>N360XSR</b></p> <ul style="list-style-type: none"> <li>• Enhanced read range</li> <li>• 1 Mpx, RS, SR, 30 fps</li> <li>• Ht: 8,1 mm</li> <li>• 3.3 V, para or MIPI</li> </ul>  <p><i>slim</i></p>	<p><b>N660X Series</b></p> <ul style="list-style-type: none"> <li>• Up to 5,84 m/s</li> <li>• GS, SR or GR, 60 fps</li> <li>• Ht: 6,8 mm</li> <li>• 3.3 V, para or MIPI</li> </ul>  <p><i>ultra slim</i></p>	<p><b>N6700SR-R*</b></p> <ul style="list-style-type: none"> <li>• Red illumination configuration</li> <li>• Digimarc® ready</li> </ul>  <p><i>ultra slim</i></p>
<p><b>C210X + SwiftDecoder</b></p> <ul style="list-style-type: none"> <li>• Camera module bundled with SwiftDecoder</li> <li>• VGA w/o illumination</li> <li>• Up to 120 fps</li> </ul> 	<p><b>N560X Series</b></p> <ul style="list-style-type: none"> <li>• WVGA, GS, 60 fps</li> <li>• HD, SR, ER</li> <li>• Ht: 12,5 mm</li> <li>• 3.3 V, para</li> </ul> 	<p><b>N5600WA</b></p> <ul style="list-style-type: none"> <li>• Space saving</li> <li>• 68° horizontal FOV</li> <li>• WVGA, GS, 60 fps</li> <li>• 3.3 V, para</li> </ul> 
<p><b>GEN7 DB</b></p> <ul style="list-style-type: none"> <li>• 3.3 V, 8 MB</li> <li>• 20 mm x 14 mm</li> <li>• TTL-RS-232 or USB</li> <li>• EZDL Plug-in, DPM, OCR</li> </ul> 	<p><b>GEN7 DB</b></p> <ul style="list-style-type: none"> <li>• 3.3 V, 8 MB</li> <li>• 20 mm x 14 mm</li> <li>• TTL-RS-232 or USB</li> <li>• EZDL Plug-in, DPM, OCR</li> </ul> 	

# 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



### N568X

- 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
- 1.0 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

<p>Code 39</p>  <p>A B C 1 2 3</p>	<p>Codabar</p>  <p>A 1 2 3 4 5 6 7 8 B</p>	<p>Code 128</p>  <p>01234657890</p>
<p>Interleaved 2 of 5</p>  <p>1 2 3 4 5 6 7 8 9 0 1 2 3 4</p>	<p>GS1 DataBar</p>  <p>(01)5512345678901(2)</p>	<p>U.P.C.- A</p>  <p>1 2 3 4 5 6 6 7 8 9 0 3</p>
<p>GS1 128</p>  <p>0 1 1 2 3 4 5 6 7 8 9 0</p>	<p>GS1 DataBar Limited</p>  <p>(01)1234567890123(1)</p>	<p>EAN - 8</p>  <p>5 0 8 1 8 8 8 4</p>
<p>Code 93 / 93i</p>  <p>A B C 1 2 3 4 5</p>	<p>GS1 DataBar Expanded</p>  <p>(01)9881234567890(6)</p>	<p>EAN - 13</p>  <p>9 7 8 1 2 3 4 5 6 7 8 9 7</p>

## Stacked Barcodes

<p>Micro PDF417</p>  <p>(37 characters)</p>	<p>PDF417</p>  <p>(38 characters)</p>
<p>GS1 DataBar Stacked</p>  <p>(01)3210987654321(1)</p>	<p>GS1 DataBar Exp. Stacked</p>  <p>(01)5512345678901(2)15991231</p>

## Matrix Barcodes

Data Matrix



(43 characters)

Aztec Code



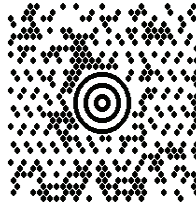
(243 characters)

QR Code



(39 characters)

Maxicode



(40 characters)

## Composite Barcodes

RSS Limited + Composite



"0112345678901231"  
+ 38 chars

EAN-128 + Composite



"0112345678901231" + 34 chars

## Postal Barcodes

Postnet



## OCR Codes

### OCR-A

32478450

### OCR-B

00001234

## FOR MORE INFORMATION

Honeywell services its customers through a worldwide network of sales offices and distributors. For application assistance, current specifications, pricing or the nearest Authorized Distributor, visit our [website](#) or call:

USA/Canada	+1 302 613 4491
Latin America	+1 305 805 8188
Europe	+44 1344 238258
Japan	+81 (0) 3-6730-7152
Singapore	+65 6355 2828
Greater China	+86 4006396841

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.

## **Honeywell** **Advanced Sensing Technologies**

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