

# VISION SOLUTIONS

Helping Customers Simplify Their Workflows  
for Over 40 Years

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Product 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:

## **WINDOWING**

Capture a barcode only when it is within the window

## **PREVIEW & SELECT**

Enabled scanning to select the desired barcode among many

## **TARGETING**

Capture a barcode only when it is targeted by the aimer

## **CUSTOM SCAN**

Read a barcode only when it meets a custom requirement; size, symbology, content, etc.

## **BATCH SCAN**

Read many barcodes simultaneously when in the window of view

## **CONTINUOUS SCAN**

Read barcodes continuously within tens-of-milliseconds

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

<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>compact</i></p>
<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>compact</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>	

## ADVANCED


<p><b>N6803MR</b></p> <ul style="list-style-type: none"> <li>• SmartAdaptus™ 8.0</li> <li>• Read range up to 6 m</li> <li>• 1.5 Mpx, GS</li> <li>• Ht: 6,8 mm</li> <li>• 1.8 V to 3.3 V, MIPI</li> </ul>	 <p><i>ultra 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>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>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>	

## PREMIUM


<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, 1 Mpx, GS, 60 fps</li> <li>• 3.3 V para or MIPI</li> </ul>	
<p><b>N6803FR</b></p> <ul style="list-style-type: none"> <li>• SmartAdaptus™ 8.0</li> <li>• Enhanced read range up to 10 m</li> <li>• Dual sensor, 2.3 Mpx + 1 Mpx, GS</li> <li>• Ht: 6,8 mm</li> <li>• 3.3 V, 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><b>N6703HD</b></p> <ul style="list-style-type: none"> <li>• DotCode ready</li> <li>• DPM option</li> </ul>	 <p><i>ultra slim</i></p>
<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>	

# DECODER BOARDS

## ADVANCED

<p><b>GEN7 DB</b></p> <ul style="list-style-type: none"> <li>• 3.3 V, 8 MB</li> <li>• 20 mm × 14 mm</li> <li>• TTL-RS-232 or USB</li> <li>• EZDL Plug-in, DPM, OCR</li> </ul>	
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## PREMIUM

<p><b>GEN8 DB</b></p> <ul style="list-style-type: none"> <li>• 3.3 V</li> <li>• 1.2 GHz dual processor</li> <li>• 20 mm × 14 mm</li> <li>• TTL or USB</li> </ul>	
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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



### 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
- 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 × 105 mm × 75 mm overall
- 61 mm × 73 mm window
- 5 V, USB



### CM4680

- Standard performance (standard range)
- 640 pixels × 480 pixels



### HF521

- 42 mm × 42 mm × 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 × 50 mm × 26 mm
- WVGA, GS, SR or HD
- 60 fps
- USB or TTL-RS-232 or KBW trigger



### CM5680

- Enhanced performance (standard range)
- 844 pixels × 640 pixels



### CM2180

- Specialized performance (megapixel)
- 1280 pixels × 800 pixels



## GLOSSARY

**VGA:** 640 pixels × 480 pixels

**WVGA:** 844 pixels × 640 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

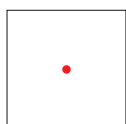
**OCR:** Optical Character Recognition

**TTL-RS-232:** Transistor-Transistor Logic



# AIMERS & PATTERNS

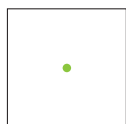
Honeywell offers a large choice of advanced LED and laser aiming patterns and illuminations to meet your needs.



*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)**

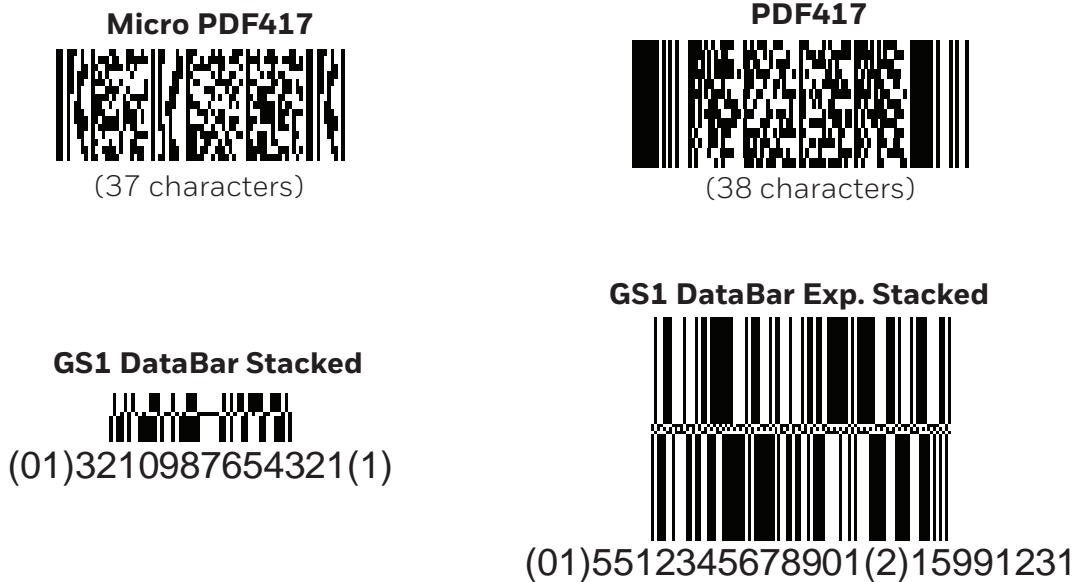
# TEST BARCODES

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

## LINEAR BARCODES



## STACKED BARCODES



## MATRIX BARCODES

Data Matrix



(43 characters)

Aztec Code



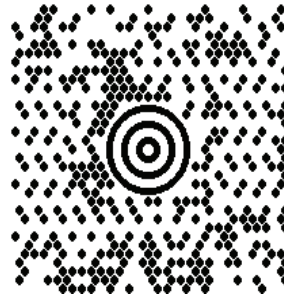
(243 characters)

QR Code



(39 characters)

Maxicode



(40 characters)

## COMPOSITE BARCODES

RSS Limited + Composite



“0112345678901231”  
+38 characters

EAN-128 + Composite



“0112345678901231”  
+34 characters

## POSTAL BARCODES

Postnet



## OCR Codes

OCR-A

32478450

OCR-B

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.

## Warranty/Remedy

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. **The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.