

# VISION SOLUTIONS

Helping customers simplify their workflows  
for over 50 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

## BATCH SCAN

Read many barcodes simultaneously when in the window of view

## 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.

## 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

# CAMERA SERIES + SWIFTDECODER™

## GENERAL

### C2105

- 5 Mpx, RS, with illumination
- MIPI
- WA



### C2101

- VGA GS with illumination
- MIPI
- SR



## GENERAL

### C2 Interface Board

- Bridge MIPI to MUSB/FUSB
- Support C210X Cameras



## 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

**MR:** Middle Range

**FR:** Flexible Range

# UNDECODED SCAN ENGINES

## GENERAL

### N5703SR

- Up to 6 m/s
- 1 Mpx, GS, SR
- Ht: 8,1 mm
- 3.3 V MIPI
- 60 fps



compact

### N4603SR

- Up to 6 m/s
- VGA, GS, SR, 120 fps
- Ht: 8,1 mm
- 3.3 V MIPI



compact

### N360XSR

- Enhanced read range
- 1 Mpx, RS, SR, 30 fps
- Ht: 8,1 mm
- 3.3 V, para or MIPI



compact

## ADVANCED

### N6803MR

- SmartAdaptus™ 8.0
- Read range up to 6 m
- 1.5 Mpx, GS
- Ht: 6,8 mm
- 1.8 V to 3.3 V, MIPI



ultra slim

### N670XSR

- Enhanced read range
- Up to 6 m/s
- 1 Mpx, GS, 60 fps
- Ht: 6,8 mm
- 3.3 V, para or MIPI



ultra slim

### N660X Series

- Up to 5,84 m/s
- GS, SR or GR, 60 fps
- Ht: 6,8 mm
- 3.3 V, para or MIPI



ultra slim

### N560X Series

- WVGA, GS, 60 fps
- HD, SR, ER
- Ht: 12,5 mm
- 3.3 V, para



## 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



### N6803FR

- SmartAdaptus™ 8.0
- Enhanced read range up to 10 m
- Dual sensor, 2.3 Mpx + 1 Mpx, GS
- Ht: 6,8 mm
- 3.3 V, MIPI



### N6700SR-R\*

- Red illumination configuration
- Digimarc® ready



### N6703HD

- DotCode ready
- DPM option

ultra slim

### N5600WA

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



# DECODER BOARDS

## ADVANCED

### GEN7 DB

- 3.3 V
- 1 GHz
- 20 mm × 14 mm
- TTL or USB
- EZDL Plug-in, DPM, OCR



## PREMIUM

### GEN8 DB

- 3.3 V
- 1.2 GHz dual processor
- 20 mm × 14 mm
- TTL or USB
- EZDL Plug-in, DPM, OCR



# DECODED SCAN ENGINES

## GENERAL

### N3681

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



### N4680 Series

- Smart Adaptus™ 7.0 technology
- VGA, GS
- SR, 60 fps
- 5 V USB or 3.3 V TTL-RS-232
- Up to 6 m/s



## ADVANCED

### N6780

- Flexible choice of optics
- Gen7 DB
- 5 V, Micro USB



### N5680

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



## PREMIUM

### N5780

- Smart Adaptus™ 7.0 technology
- 1 Mpx, GS
- SR, 60 fps
- 5 V USB or 3.3 V TTL or USB 2.0
- Ht: 8,1 mm
- 3.3 V, MIPI
- Up to 6 m/s



# CUSTOMER-FACING STATIONARY MODULES

## GENERAL

### CF4680

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



### CM4680

- GS, SR
- 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

- GS, SR or WA
- 844 pixels × 640 pixels



### CM2180

- RS
- 1280 pixels × 800 pixels



## PREMIUM

### CM5780

- GS, SR
- 1280 × 800 pixels



### HF680m

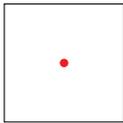
- 1 MPX, GS
- USB or TTL-RS-232
- 88.9 mm × 73.1 mm × 49.3 mm



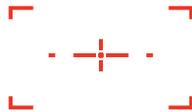


# AIMERS & PATTERNS

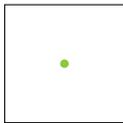
Honeywell offers a large choice of advanced LED and laser aiming patterns and illuminations to meet your needs.



*Red dot LED aimer or laser*  
**(N4680 Series)**



*Red laser aimer and framer*  
**(N5703, N6703, N6603, N56X3, N4603/N3603)**



*Green dot LED aimer*  
**(N3601)**



*Green dot laser aimer*



*High bright green LED cross aimer*  
**(N6700, N5780)**

# 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



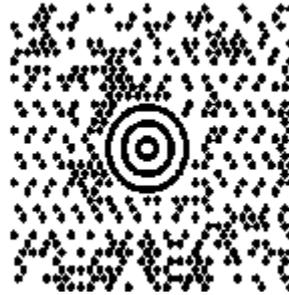
(243 characters)

QR Code



(39 characters)

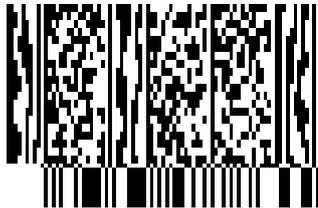
Maxicode



(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.

#### For more information

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