

Honeywell Vision N4680 Series Swift Decoder User Guide

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Honeywell

VISION SOLUTIONS

Helping Customers Simplify Their Workflows for Over 40 Years
Product Range Guide

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Vision N4680 Series Swift Decoder



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 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

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

UNDECODED SCAN ENGINES

GENERAL

N4603SR

- Up to 5,84 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

C210X + SwiftDecoder

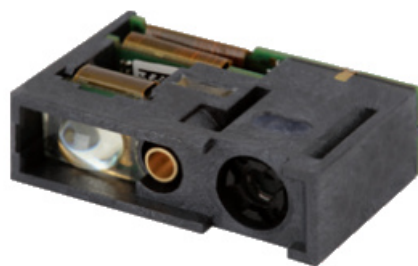
- Camera module bundled with Swiftdecoder
- VGA w/o illumination
- Up to 120 fps



ADVANCED

N6803MR

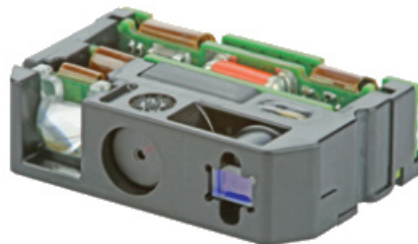
- SmartAdaptus™ 8.0
- Read range up to 6 m
- 1.5 Mpx, GS
- Ht: 6,8 mm
- 1.8 V to 3.3 V, MIPI



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

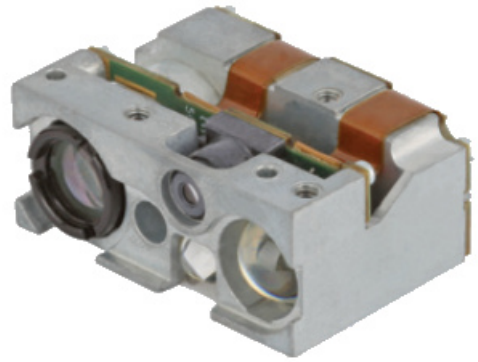
- WVGA, GS, 60 fps
- HD, SR, ER
- Ht: 12,5 mm
- 3.3 V, para



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

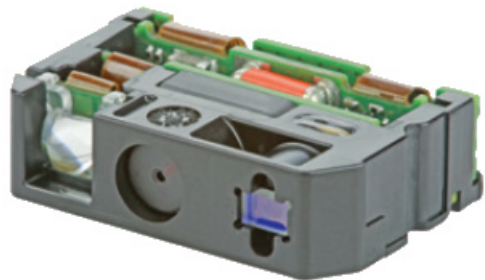
- SmartAdaptus™ 8.0• Enhanced read range up to 10 m
- Dual sensor, 2.3 Mpx + 1 Mpx, GS
- Ht: 6,8 mm
- 3.3 V, MIPI



ultra slim

N6700SR-R*

- Red illumination configuration
- Digimarc® ready
- DotCode ready
- DPM option



ultra slim

N5600WA

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

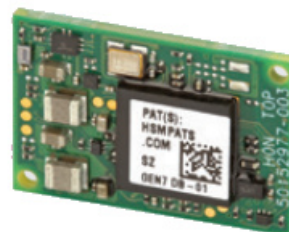


DECODER BOARDS

ADVANCED

GEN7 DB

- 3.3 V , 8 MB
- 20 mm × 14 mm
- TTL-RS-232 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



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 x 480 pixels



HF521

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



ADVANCED	
HF561 Series <ul style="list-style-type: none"> • Up to 3 m/s • WVGA, GS, SR or ER • 60 fps • USB or TTL-RS-232 	
Vuquest 3330g <ul style="list-style-type: none"> • 74 mm × 50 mm × 26 mm • WVGA, GS, SR or HD • 60 fps • USB or TTL-RS-232 or KBW trigger 	
CM5680 <ul style="list-style-type: none"> • Enhanced performance (standard range) • 844 pixels × 640 pixels 	
CM2180 <ul style="list-style-type: none"> • 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

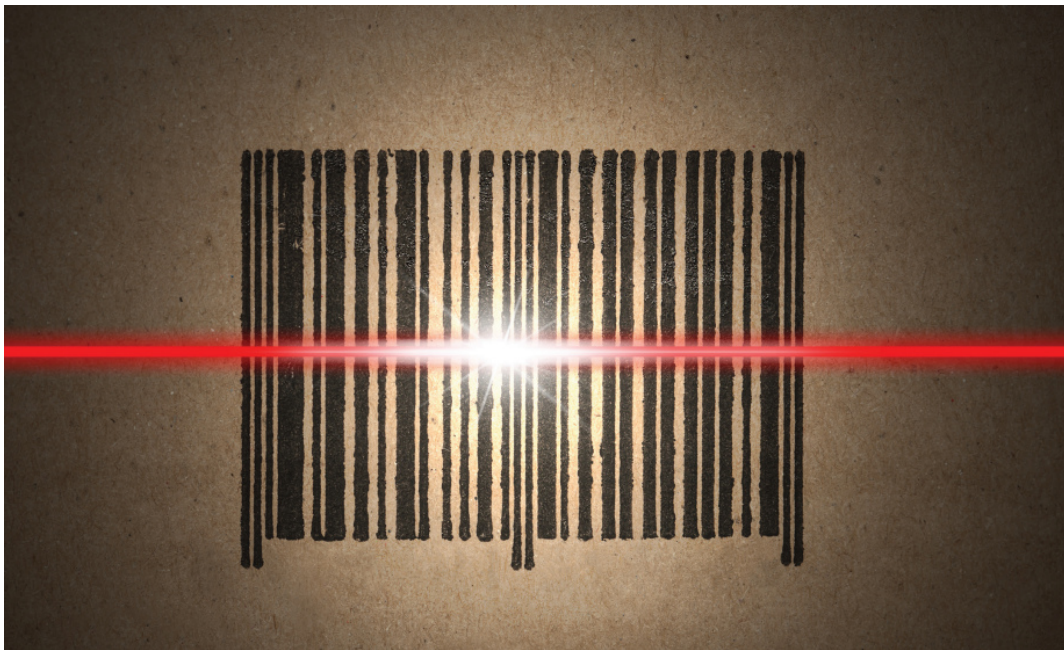
Ht: Height

KBW: Keyboard Wedge

DPM: Direct Part Marking

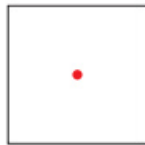
OCR: Optical Character Recognition

TTL-RS-232: Transistor-Transistor Logic



AIMERS & PATTERNS

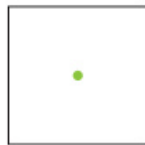
Honeywell offers a large choice of advanced LED and laser aiming patterns and illuminations to meet your needs.



red dot LED aimer
(N4680 Series)



red laser aimer and framer
(N6703, N6603, N56X3)



green dot LED aimer
(N3601)

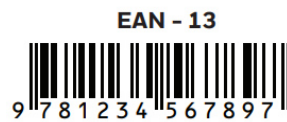
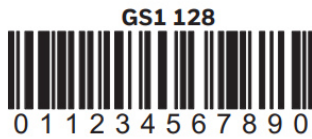
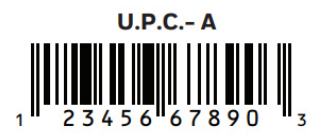
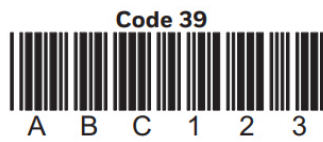


high bright green LED cross aimer
(N6700)

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



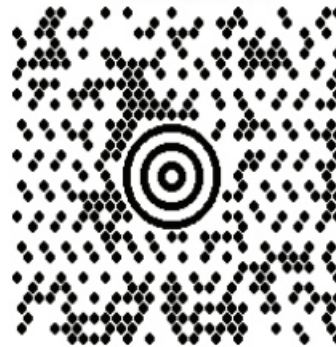
(243 characters)

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.

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USA/Canada +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
Sensing and Safety Technologies

830 East Arapaho Road Richardson, TX 75081

www.honeywell.com


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Documents / Resources

	<p>Honeywell Vision N4680 Series Swift Decoder [pdf] User Guide N4680 Series Swift Decoder, N4680, Series Swift Decoder, Swift Decoder, Decoder</p>
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References

- [H Safety and Productivity Solutions | Honeywell](#)
- [H Products - Advanced Sensing Technologies | Honeywell](#)
- [H Honeywell - The Future Is What We Make It](#)
- [User Manual](#)