N660X Series 2D Ultra Slim Scan Engine

N660X engines offer exceptional motion tolerance in an ultra-compact form factor with white illumination. MIPI interface available; choice of LED or laser aiming.

Overview



Honeywell Productivity Solutions and Services is now part of Brady Corporation.

If you were to look inside the ultra-compact N660X Series engine, you'd find a proprietary imaging sensor designed specifically for professional barcode reading. With its powerful white illumination, this compact sensor captures more detail. It's exceptionally motion tolerant, too, so it can decode hard-to-read barcodes and tolerate challenging ambient light environments with ease. The N660X Series also puts a premium on interface flexibility.

These products support both traditional parallel and MIPI interfaces for emerging technologies. This enables easier integration with the latest processors, saves space, reduces overall design cost and shortens the integration and development cycle. The N660X Series is backwards compatible with nearly all N560X Series designs, which reduces development complexity and makes it easier and faster to integrate. They also provide a choice of better visibility LED or laser aimers to give flexibility to better suit customer application requirements.

As one of our next-generation flagship products, the N660X series inherits the most advanced imaging technology from both Honeywell and legacy Intermec. It's also a smart choice for enterprise mobility, tablet, sled and wearable device makers who don't want to compromise thermal management, power consumption, peak current control and EMI for unmatched 2D scanning performance.

Features

- **Ultra compact:** At only 6,8 mm, the slim height makes it easier to fit today's and tomorrow's ultra slim devices.
- **MIPI interface available:** Supports the latest technology trends for shorter design cycles.
- **White illumination:** Choice of LED or laser aiming systems.
- **Enhanced flexibility:** Supports customers' electronic design.

- **Enhanced performance:** Delivers improved scan speed, motion tolerance up to 5,8 m/s, enhanced reading capability for poorly printed barcodes, support for color barcodes, and full symbology support.

Contactless technology and automation are transforming the way we live and work. Honeywell Logistics Sensing is developing the latest vision solutions to support a wide range of applications for: access control, retail, healthcare, transportation and logistics, warehouse and distribution, and hospitality. **Find out more**

Specifications

FEATURES

Aimer Type

- Laser

Symbol Contrast

- 20% Minimum Reflectance

Features & Benefits

- At Only 6.8 mm the Slim Height Makes it Easier to Fit Today's and Tomorrow's Ultra Slim Devices
- Choice of Better Visible LED or Laser Aimers Gives Flexibility to Better Suit Customer Application Requirements
- Delivers Improved Scan Speed
- Motion Tolerance Up To 5 M/S Enhanced Reading Capability for Poorly Printed Barcodes
- Optimized White Illumination Enhances Barcode Reading Performance
- Support for Color Barcodes and Full Symbology Support
- Supports the Latest Technology Trends for Shorter Design Cycles

Ambient Light Immunity

- 0 to 100,000 lux

ELECTRICAL SPECIFICATIONS

Working Current

- 315

Input Voltage

- 3.3 VDC ±5%

Idle Current

- 150

OVERVIEW

Warranty

- 15 Month Limited Warranty (The Warranty Period Starts at Date of Shipment From Honeywell to Customer)

Brand

- Honeywell

OPERATING CHARACTERISTICS

Storage Temperature

- -40 to 85°C

Humidity

- 0 to 95% RH (Non-Condensing at 50°C)

STANDARDS & CERTIFICATIONS

Standards & Approvals

- 21CFR 1040.10
- 21CFR 1040.11
- IEC 60825-1:2007
- IEC 60825-1:2014

TECHNICAL SPECIFICATIONS

Sensor Type

- Proprietary CMOS Sensor With Global Shutter and 844 × 640 pixel Resolution; 60 Frames Per Second Max

Scan Angle (°)

- 360°, pitch: ±45°, skew: ±60°

Motion Tolerance

- Up to 584 cm [230 in] per second in Total Darkness with 100% UPC at 10 cm [4 in] Distance

Illumination

- White LED (Exempt Risk Group)

Host Interface

- MIPI
- Parallel

Field of View

- Extended Range (ER): 35.6° (H) x 27.5°C (V)
- Standard Range (SR): 42.4° (H) x 33°C (V)

DIMENSIONS & WEIGHT

Dimension

- L: 23.5 mm W: 16.2 mm H: 6.8 mm

OTHERS

Industry

- Retail

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Part Number	50121763-001
Description	FLEX STRIP, N660X PARALLEL 26MM
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Part Number	50126120-001
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	SIGN IN
Part Number	CAT-2471 REV A
Description	N6600SR W MINI DB MICRO USB BKT CUS
	SIGN IN
Part Number	CAT-2472 REV A
Description	N6600 HD LED PARA CUS
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Part Number	N6600SR-W0-102
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FLEX STRIP, N660X PARALLEL 26MM

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FLEX STRIP, N660X PARALLEL 26MM

50126120-001

FLEX CABLE, RS SIGNAL, 1 INCH

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FLEX CABLE, RS SIGNAL, 1 INCH

CAT-2471 REV A

N6600SR W MINI DB MICRO USB BKT CUS

CAT-2471 REV A

N6600SR W MINI DB MICRO USB BKT CUS

CAT-2472 REV A

N6600 HD LED PARA CUS

CAT-2472 REV A

N6600 HD LED PARA CUS

HS7-01

HS7 2D LASER AIMER MIPI

HS7-01

HS7 2D LASER AIMER MIPI

N6600SR-W0-102

N6600 ENGINE, LED SR, PARA

N6600SR-W0-102

N6600 ENGINE, LED SR, PARA

N6600SR-W0-102-N

N6600 ENGINE LED SR PARA MX

N6600SR-W0-102-N

N6600 ENGINE LED SR PARA MX

N6600SR-W0-103

N6600 ENGINE, LED SR, MIPI

N6600SR-W0-103

N6600 ENGINE, LED SR, MIPI

N6600SR-W4-102

N6600 ENGINE, LED SR, PARA

N6600SR-W4-102

N6600 ENGINE, LED SR, PARA

N6603-4086993

N6603 Engine Custom

N6603-4086993

N6603 Engine Custom

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