

# HONEYWELL N6600 SERIES 2D SCAN ENGINE PROPELS PEAK PERFORMANCE FOR TWO TECHNOLOGIES' RUGGED HANDHELD DEVICES

Fast, Reliable Scanning in Tough Outdoor Environments

**“The Honeywell 2D imagers performed consistently in bright light and through reflective windshields. They had the best performance – and not by a small margin.”**

*Roger Mick, Executive Vice President of Engineering  
Two Technologies, Inc.*

---

Case Study

---





Two Technologies' N5Print  
Rugged Handheld Device

Formed in 1987, [Two Technologies, Inc.](#) is a Pennsylvania-based designer and manufacturer of customizable, rugged mobile, industrial handheld computers and terminals. With more than 4,000 customers and a million products deployed in the field, the company supports a variety of markets, including surveying and measurement, transportation, manufacturing, field service, hospitality and security.

Two Technologies' OEM devices run on the Android™ mobile operating system and are designed to perform reliably in outdoor environments that are subjected to bright sunlight, heavy rain and dirt. Customers use the company's devices for a range of applications – from issuing printed parking tickets to processing credit card purchases poolside at a country club or resort.

## The Needs

While developing its latest line of rugged computers, the [N5 series](#), Two Technologies wanted to leverage an existing OEM platform for its 1D and 2D scanning needs.

Nearly 90 percent of its handheld computer business is for outdoor applications, and a consumer smartphone is not a reliable substitute for the rugged mobile device that most customers need. Municipalities and businesses need a handheld computer that features a powerful battery and can withstand getting wet or being dropped on concrete.

For its N5 series devices, Two Technologies wanted a scanner that could easily read barcodes and Vehicle Identification Numbers (VINs) through a car's windshield both in bright sun or dim light.

Reading through a reflective surface such as a windshield is difficult for many scanners, and Two Technologies' customers, who are issuing fines or processing credit card purchases, demand speed and accuracy in their device performance.

## The Solution

Two Technologies conducted an analysis of a number of available scan engines to determine the best value for its customized rugged mobile computers. The testing evaluated the scan engine's ability to provide accurate, consistent barcode reading performance in a variety of lighting environments and to effectively withstand a series of device drops.

With the evaluation completed, Two Technologies selected the [Honeywell N6600 Series OEM 2D Imager](#) for its handheld computers and also integrated the [Honeywell Mini DB Decoder Board](#) to minimize the space required to embed the scanning solution.

With a height of just 6.8 millimeters (0.27 inches), the N6600 Series 2D imager is slim and ultra-compact, allowing manufacturers flexibility in designing small handheld devices that are comfortable for users. It provides an enhanced barcode reading experience, with increased speed and accuracy, and makes it easier to decode hard-to-read barcodes and tolerate challenging ambient light environments.

The Honeywell Mini DB Decoder Board, which is 60 percent smaller than the previous-generation Honeywell decoder, enables manufacturers to integrate it into smaller mobility devices. Users benefit from a complete 1D and 2D symbology library, increased motion tolerance and aggressive scanning on all types of barcodes. It offers a board-to-board connection configuration and the choice between RS-232 and USB interfaces.



Honeywell N6600 Series 2D Imager



Honeywell Mini DB Decoder Board

## The Benefits

- The Honeywell N6600 Series 2D Imager provided Two Technologies with the perfect balance between small, compact size and more accurate, reliable performance to provide the best overall value.
- Two Technologies benefited from the speed at which the N6600 Series 2D imager could read and parse data from VINs, license plates and driver's licenses.
- The embedded scanner offered Two Technologies enhanced flexibility to more easily integrate with the Android operating system platform.

## More Reliable, Accurate Scanning in Challenging Environments

For Two Technologies' point-of-sale and public safety customers, its Android-based N5 series devices are doing the job – with upgraded scanner technology that performs consistently in rugged outdoor environments.

"For us, performance is key," says Roger Mick, Executive Vice President of Engineering for Two Technologies. "The Honeywell scan engine had all of the right pieces for our client base. The other imagers that we tested could not match the speed of the N6600 Series scan engine."



With the integration of the Honeywell N6600 Series 2D Imager and Mini DB Decoding Board, Two Technologies' rugged N5 series devices can more easily and accurately scan in bright sunlight for applications such as capturing VINs for parking enforcement.

### For more information

[www.honeywellaidc.com](http://www.honeywellaidc.com)

### Honeywell Safety and Productivity Solutions

9680 Old Bailes Road  
Fort Mill, SC 29707  
800-582-4263  
[www.honeywell.com](http://www.honeywell.com)

Android is a trademark of Google Inc.

Two Technologies CS | Rev A | 10/16  
© 2016 Honeywell International Inc.

**Honeywell**