



# Streamlined Data Capture in Hazardous Areas: SwiftDecoder Wedge on i.safe MOBILE Devices

## Introduction

In hazardous industrial environments, accurate and efficient data entry is essential for maintaining safety, productivity, and operational excellence. Manual data input is not only time-consuming but also prone to errors that can have serious consequences in critical applications. The SwiftDecoder Wedge from Honeywell is compatible with i.safe MOBILE's ATEX/IECEX-certified smartphones and tablets. It offers a powerful solution that revolutionizes data collection processes in hazardous areas with demanding industrial environments. This white paper explores how SwiftDecoder Wedge eliminates the need for manual typing, enabling frontline workers to capture data through scanning with unprecedented speed and accuracy on certified mobile devices.



The Integrated Solution SwiftDecoder Wedge is a scan-enabled keyboard application that simplifies data input into specific fields within existing applications on end-user mobile devices. Downloaded directly from Android app stores and administered through Mobile Device Management (MDM) systems, it seamlessly integrates with any form-fill application where scanning can replace manual input.

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## Key Capabilities



### 1. Advanced Scanning Technology

Built on Honeywell's 50 years of expertise in barcode decoding, SwiftDecoder Wedge delivers enterprise-grade performance:

- › Computer vision for instant barcode recognition and accurate reading
- › Optical Character Recognition (OCR) for capturing printed text
- › Overcomes challenging conditions including low light, glare, angles, blurriness, and motion
- › Batch scanning and multiple barcode capture in a single operation
- › Supports all industry-standard 1D and 2D barcodes

### 2. Simple Integration

The solution's strength lies in its simplicity and versatility:

- › No integration required – the app sits on top of existing applications
- › Works with any form-fill type application on mobile devices
- › Downloadable directly from app stores by end users
- › Centrally managed and activated via enterprise MDM
- › No coding or development expertise required

### 3. Security and Offline Operation

Designed for secure industrial environments:

- › All processing occurs locally on the device
- › No cloud connection required (only for initial licence activation)
- › Offline operation ensures data security and independence from network connectivity

## Compatibility with i.safe MOBILE Devices

SwiftDecoder Wedge is compatible with i.safe MOBILE's complete range of Android smartphones and tablets, certified for use in hazardous areas:

- › Rugged industrial design for harsh environments
- › Mining industry
- › Camera-enabled devices with advanced optics for reliable scanning

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**Industry Applications and Use Cases** The versatility of SwiftDecoder Wedge makes it valuable across numerous industrial sectors, each benefiting from faster, more accurate data capture.

**Oil and Gas Industry** In oil and gas operations, where accuracy and efficiency are critical:

- › Field data collection from equipment and instruments
- › Capturing readings from gauges and meters
- › Inventory management of equipment and spare parts
- › Asset tracking across multiple sites
- › Inspection documentation and compliance reporting

**Chemical Manufacturing** Chemical facilities require precise tracking and documentation:

- › Raw material identification and tracking
- › Batch number verification
- › Safety data sheet access via barcode scanning
- › Equipment maintenance records
- › Inventory control of hazardous materials

**Pharmaceutical Production** In the highly regulated pharmaceutical sector:

- › Asset tracking of medical equipment
- › Sample identification in laboratories
- › Batch traceability throughout production
- › Quality control documentation • Patient identification and prescription monitoring

**Retail and Logistics** For supply chain and retail operations:

- › Inventory and asset tracking
- › Warehouse management
- › Delivery validation
- › Product identification and verification

**Transportation and Fleet Management** In transport and logistics:

- › Vehicle identification and tracking
- › Car rental processes
- › Delivery confirmation
- › Asset management across fleets

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**Security and Access Control** For security applications:

- › Ticketing verification
- › Access control systems
- › Attendance tracking
- › Visitor management

## Key Benefits

**Enhanced Accuracy** Manual data entry is eliminated, drastically reducing human error:

- › Automated data capture replaces typing and handwriting
- › Consistent, reliable data quality
- › Reduced rework and corrections
- › Improved compliance with regulatory requirements

**Safety Enhancement** Workers complete tasks faster and more efficiently:

- › Scanning is significantly faster than manual input
- › Batch scanning capabilities accelerate workflows
- › Reduced training time due to intuitive operation
- › Workers can focus on value-adding activities rather than data entry

**Cost Effectiveness** The solution delivers tangible economic benefits:

- › No additional hardware investment required
- › Leverages existing mobile devices
- › Simple deployment through app stores
- › Minimal training requirements
- › Reduced error-related costs

**Operational Flexibility** SwiftDecoder Wedge adapts to diverse operational needs:

- › Works with any existing application requiring data input
- › No application modification required
- › Easy to deploy across multiple users and sites
- › Scalable from small teams to enterprise-wide implementations

**Future-Ready Technology** Honeywell continues to develop SwiftDecoder Wedge with new capabilities:

- › Ongoing performance enhancements
- › Support for emerging barcode standards
- › Regular updates to maintain compatibility with latest devices and operating systems

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**Technical Implementation** Deployment getting started with SwiftDecoder Wedge is straightforward:

- › End users download the app from Android or iOS app stores
- › IT administrators activate and manage licences through MDM
- › Immediate compatibility with i.safe MOBILE devices
- › No technical integration or coding required

**Support** Honeywell provides comprehensive support

- › Intuitive, user-friendly interface requiring minimal training
- › Application engineers available for customer-specific requirements
- › Enterprise-grade support for large deployments
- › Documentation and resources for IT administrators



## Conclusion

The combination of Honeywell's SwiftDecoder Wedge and i.safe MOBILE's certified smartphones and tablets delivers a powerful solution for data capture in hazardous industrial environments. i.safe MOBILE's certified devices are purpose-built for the most demanding industrial conditions, providing the ideal hardware platform for reliable, compliant operations in zones where standard devices simply cannot be used.

By replacing manual data entry with automated scanning, organisations achieve higher accuracy, improved productivity, and reduced costs whilst maintaining full compliance with explosion protection requirements. With licenses deployed globally, SwiftDecoder Wedge represents a proven, enterprise-grade solution backed by Honeywell's 50 years of expertise in barcode technology.

For frontline workers in oil and gas, chemicals, pharmaceuticals, and other critical industries, SwiftDecoder Wedge on i.safe MOBILE devices delivers the simplicity, scanning power, and seamless integration needed to modernise data capture processes in even the most challenging environments.