Zebra Mobility DNA OCR Wedge

Process automation made easy.

Give your business a competitive edge with Zebra's OCR Wedge

Do your processes rely on the regular capture of standardized text data, such as vehicle identification numbers, license plates, driver's licenses and more? Now you can provide a digital doorway between the physical text and the right fields in your applications with the OCR Wedge family. Fine-tuned for six specific use cases, OCR Wedge automatically recognizes and captures physical text and transforms it into accurate digital data that streams right into your applications. OCR Wedge is powered by Zebra Mobility DNA's DataWedge, a complimentary tool that is pre-installed on all Zebra Android mobile devices. No costly time-consuming programming or coding is needed, making integration easy. On-device machine learning turbocharges every OCR Wedge configuration with the capabilities required to overcome the unique challenges — challenges that stump traditional OCR engines. And it couldn't be easier to use — just aim the camera, center the desired text and OCR Wedge does the rest.

No more painstaking and time-consuming data entry. No more opportunity for keying errors that can lead to costly or disastrous consequences. Just fast and accurate text capture.

OCR Wedge from Zebra — process automation made easy.

Six powerful OCR Wedge configurations automatically capture and recognize:

License Plate	Identification Documents	Vehicle Identification Number (VIN)	Tire Identification Number (TIN)	Meter Reading	Container Identification Number

See the power of all the OCR Wedge configurations in action on your Zebra Android mobile devices, right out of the box, via the pre-installed DWDemo application.

How will your business benefit from OCR Wedge?

Increased productivity

Automation eliminates steps, allowing workers to complete more tasks and more work orders per day.

Increased task accuracy

Eliminate manual data entry errors, improving customer service and customer and workforce safety.

A superior user experience

Virtually effortless data capture takes the manual data entry pain out of everyday workflows.

Instant data access

Enable a more agile workforce that makes better decisions — and takes faster actions.

Advanced features for extraordinary value

This next generation data capture solution combines advanced OCR technology and on-device machine learning to automatically and accurately capture specific text, streamlining and error-proofing your workflows.

OCR and machine learning work together to deliver maximum data capture success

By employing machine learning, each OCR Wedge configuration is not only fine-tuned to extract only the text you need — it also overcomes specific challenges related to the location of the text. For example, OCR Wedge for Tire Identification Number (TIN) is trained and tuned to successfully read text on a curve, overcome the low contrast of black text printed on a black surface and ignore the large volume of surrounding text — issues that traditional OCR engines can't address.

100% offline on-device processing

No Wi-Fi or cellular connection? No problem. Since all processing happens on the Zebra mobile device, Mobility DNA OCR Wedge works anywhere — even in remote areas and underground parking garages.

Easy to deploy

Begin optimizing your workflows with OCR Wedge in minutes. OCR Wedge configurations are powered by DataWedge, a complimentary Zebra Mobility DNA tool that is pre-installed on Zebra Android mobile devices that makes it easy to integrate captured data into your enterprise applications without costly, time-consuming programming. To get started, just choose the OCR features you need, purchase and activate the corresponding term license(s) — and start scanning.

Enterprise-class security for sensitive data

Mobility DNA OCR Wedge is highly secure — all OCR sessions are performed offline on the Zebra mobile device. No external cloud servers are utilized to process or store data in the cloud — your data never leaves the device.
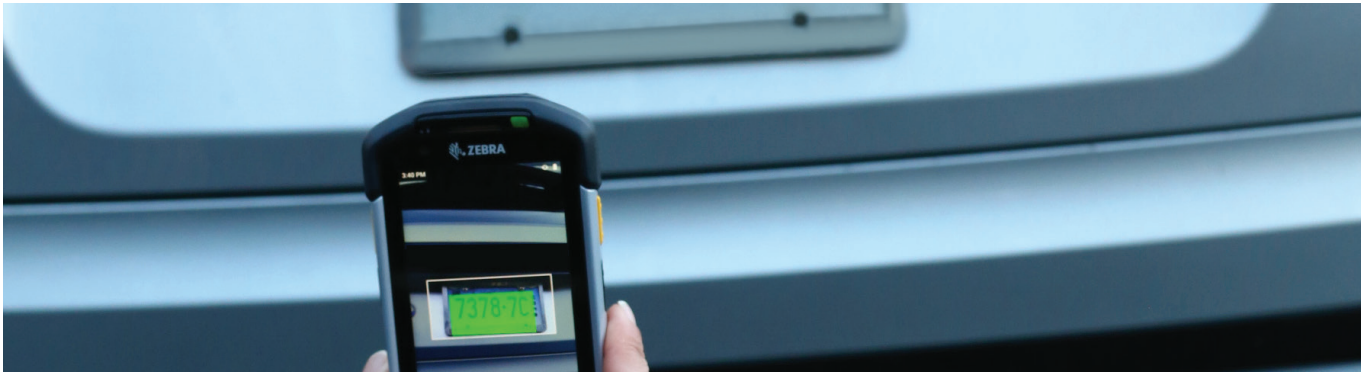
Automatic point-and-shoot simplicity

Since each configuration is trained for a specific use case, characters are recognized within seconds, providing the near-real time movement of information through your workflows required to maximize workforce productivity and customer service quality. Just point and center the Zebra mobile device camera at the desired text using the on-screen guides, and Mobility DNA OCR Wedge will do the rest.

License Plate

License Plate OCR Wedge in action

Effortlessly capture any license plate in the U.S. and Europe to better manage fleets and identify vehicles.

Parking enforcement officers can easily capture license plates for easy ticketing, identifying scofflaws and parking lot monitoring.

Automotive service centers can automatically capture customer information electronically, avoiding manual data entry errors, ensuring the right vehicle is about to receive the right service and reducing costly re-work due to a mix-up.

Rental car companies can better manage vehicle inventory, improving the efficiency and accuracy of lot audits, ensuring that the right car is rented and returned.

Identification Documents

Identification Documents OCR Wedge in action

Scan Identification Cards (national ID and resident cards) and Driver's Licenses to streamline identification applications in retail, hospitality and government. The document is automatically identified, and multiple data fields are captured — including name, address, date of issue, birth date, expiration date and more.

Retailers can accurately and automatically capture customer contact information electronically to autofill loyalty program applications, work and service orders, hotel guest registration and more. Data no longer needs to be handled twice — captured with pen and paper and then entered into the computer — eliminating duplication to reduce process cycle times, the opportunity for errors and paper usage.

Public safety officers can verify the identity of individuals and easily complete tickets.

NOTE: Passports, Visas and other type of ID with Machine Readable Zones (MRZ) are already supported by DataWedge — no license is required, with the exception of Professional models of Zebra mobile computers.

Vehicle Identification Number (VIN)

VIN OCR Wedge in action

Easily capture Vehicle Identification Numbers (VIN) through the vehicle windshield or on vehicle registration and other paper documents. Automatic recognition is supported for VINs adhering to ISO 3779:2009 in a single line of 17 characters in horizontal or vertical layouts.

Automotive repair shops can ensure that the right parts are ordered for installation on the right vehicle, and the right vehicle is released to the right customer.

Car rental companies can verify vehicle identity before renting and upon return.

Automotive repair shops and public safety officers can authenticate the identity of vehicles involved in accidents.

Tire Identification Number (TIN)

TIN OCR Wedge in action

Quickly and accurately capture Tire Identification Numbers (TIN) that are molded into tire sidewalls. Support for U.S. Department of Transportation (DOT) standards and a Universal mode (available in 2H2022) for non-standardized TIN formats across the world enable easy capture of this data regardless of where operations are located. This OCR Wedge configuration is tuned to overcome the specific physical challenges associated with the scanning environment such as capturing low-contrast text on a curve. And there is no need to align scanner and text — the TIN will be captured whether the number is right side up or upside down.

Automotive services can improve customer service and safety by easily and accurately capturing TIN numbers to help register tires to quickly notify customers in the event of a recall.

Tire dealers can better manage tire inventory by ensuring older tires are sold first, before shelf life expires and impacts profitability.

Rental car companies can prevent tire theft by ensuring that the tires on the car at the time of rental are on the car when it is returned.

Companies with large vehicle fleets can utilize this information to better manage vehicles.

Meter Reading

Meter Reading OCR Wedge in action

The ability to automatically read analog, dial and digital meters anywhere in the world delivers two benefits. More meters can be read per day with the same staff, increasing workforce productivity. And the consumption-to-billing cycle shortens, improving the company's bottom line.

Utility workers can ensure that customers are charged the appropriate amount, eliminating the risk of undercharging the customer and the impact on profitability — or inadvertent overcharging and the impact on customer service quality and satisfaction.

Container Identification Number

Shipping Container Identification Number OCR Wedge in action

The ability to scan shipping container ID numbers streamlines the processing and tracking of bulk goods moving through the supply chain via rail, sea or truck. This valuable Mobility DNA OCR configuration helps reduce the congestion that has become common at supply chain choke points by substantially reducing the time required to track and process containers moving in, through and out of ports, yards and depots. With support for the two major standards in the shipping industry, this wedge can be used around the world. The ISO 6346 BIC-compliant code supports horizontal and vertical container numbers and the EN 13044-1 ILU-Code supports horizontal container numbers with a check digit printing in one or two lines.

Dock, yard workers and distribution center employees can quickly scan to validate that the right container has been received, is moved to the right location for temporary storage or is loaded onto the right ship, train or truck to continue on the right path through the supply chain.

For more information on OCR Wedge supported standards, data structures, geographies and more, please contact your Zebra sales representative.

For developer information including details on supported standards, data formats, geographies, how to integrate and more, please visit
https://techdocs.zebra.com/datawedge/ocr

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