



# Zebra Dimensioning™

## Certified Mobile Parcel and Mobile Parcel

### Measurements made simple

If you need to capture item dimensions to calculate shipping charges or improve space utilization and load efficiency, Zebra Dimensioning solutions make it easy. With Certified Mobile Parcel, workers can capture cuboidal parcel dimensions and calculate shipping charges, all with one press of a button on compatible Zebra mobile computers. And with Mobile Parcel, workers can instantly and automatically capture cuboidal and non-cuboidal item dimensions to minimize storage space requirements in the warehouse, maximize truck load and cargo hold efficiencies and more. The result? More revenue and reduced operational costs.

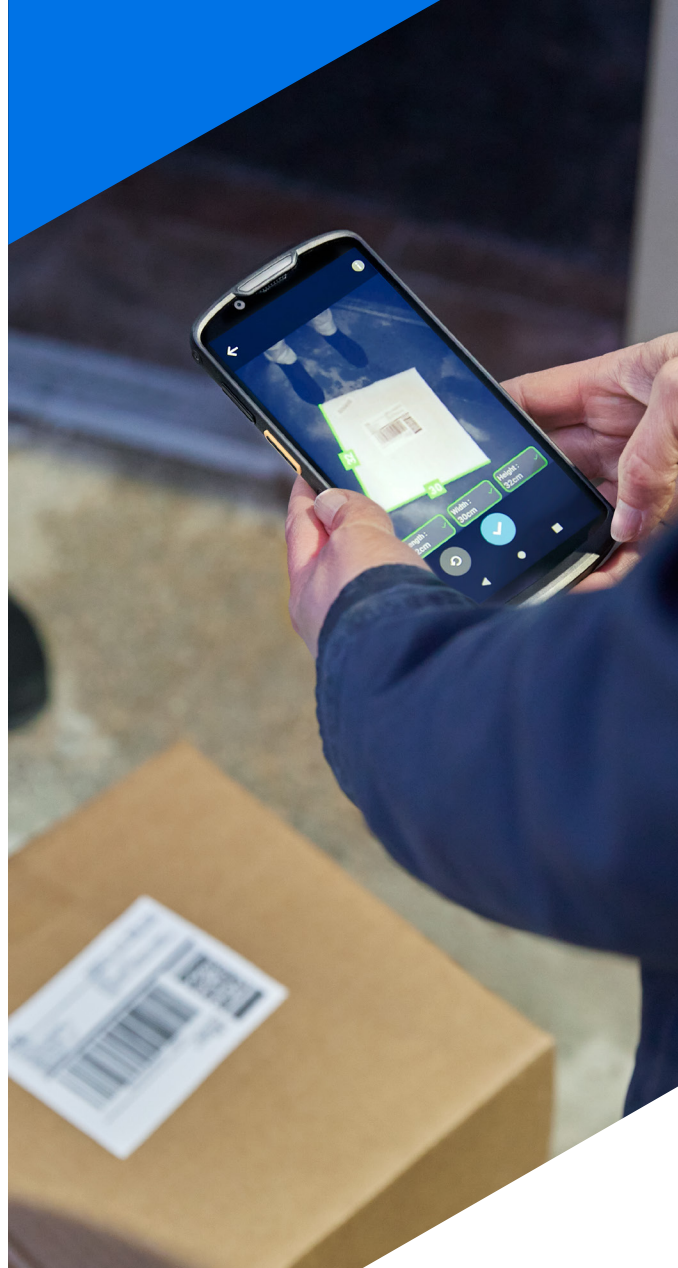
# Certified Mobile Parcel

**Capture parcel dimensions and calculate shipping charges on compatible Zebra mobile computers — all with the press of a button**

The volume of parcel traffic continues to grow, along with the impact of the inability to capture dimensions quickly, accurately and effectively at the point of pickup or drop-off. Inaccurate dimensions result in undercharging, loss of revenue, reduced profitability and costly disputes that erode customer service quality, customer satisfaction and customer retention. But in order to use the dimensions to charge customers, the mobile application's accuracy would need to be certified by Weights and Measures regulators — something that hasn't existed, until today.

Introducing Certified Mobile Parcel, another industry first from Zebra — the first internationally weights and measures certified, fully integrated handheld mobile dimensioning solution. Built for compatible Zebra mobile computers, Certified Mobile Parcel enables mobile dimensioning that is certified as legal for trade, providing the accurate calculation of shipping charges at the point of parcel pickup and beyond — from homes and businesses to parcel shops, satellite pick up points and more. All without snap-on accessories that impact ergonomics, ease of use, durability, reliability or calibration.

Now, the same Zebra mobile computers that can streamline everyday processes for drivers, associates in parcel shops, warehouse workers and more can also capture accurate parcel dimensioning in seconds, with the simple press of one button. The result? Accurate dimensioning. Accurate pricing. Reduced disputes. Profitability protection. Better customer service. And more value from the Zebra mobile devices that power your operations.





## Certified Mobile Parcel Applications

Where can you put Zebra Certified Mobile Parcel to work?



### Parcel pickup

Doorstep collection at homes and businesses at the network edge



### Parcel shops

Carrier collection points



### Large automated sorting hub

Revenue retention spot checks for dimensioning accuracy

## Certified Mobile Parcel Benefits

Improve operations from the point of pickup to the point of delivery

### Increase workforce productivity and efficiency

Now, instead of using a tape measure, workers can simply point and shoot to capture dimensions, anywhere. The time saved allows you to process more parcels per day, helping shippers accommodate the constant increase in parcel volumes.

### Increase revenue

Shipments that arrive at logistics centers with inaccurate measurements create the opportunity for undercharging and lost revenue. And billing errors can cost freight companies as much as 3 to 7 percent in additional costs.<sup>1</sup> With Zebra Dimensioning — Certified Mobile Parcel, shipping costs are always accurate and provable, protecting revenue and profitability.

### Eliminate the high cost of dispute and damage claims

The capture of certified accurate dimensions eliminates disputes over dimension inaccuracies. And since a photo of each parcel is captured as part of the dimensioning process, parcel condition at pickup is undeniably documented, eliminating erroneous claims that damage occurred between pickup and delivery.

### Increase utilization and ROI for the delivery fleet

Visibility into the dimensions of incoming packages at pickup enables better upfront load planning. With Zebra Dimensioning — Mobile Parcel, truckloads can be optimized, reducing the number of trips to move parcels and the associated costs — including drivers, fuel and vehicle wear and tear and maintenance.

### Increase warehouse utilization

Lack of visibility into measurements at pickup or drop-off results in over-estimation of warehouse storage space requirements. And inaccurate measurements lead to an estimated 20 percent sub-utilization of warehouse space due to inefficient slotting.<sup>2</sup>

# Mobile Parcel

## Optimize space throughout your operations with visibility into cuboidal and non-cuboidal item dimensions and space requirements

When it comes to projecting space requirements to optimize space throughout your operations, parcel and item dimensions are invaluable. But capturing dimensions at the point of need can be cumbersome and time-consuming. If workers manually measuring items and entering measurements into an app, workforce productivity is reduced — and there are a lot of opportunities for error.

Introducing Mobile Parcel — the easy way to automatically capture dimensions, anywhere and anytime, all with just the press of a button on compatible Zebra mobile computers. Mobile Parcel can capture the dimensions of standard cuboidal parcels and irregular non-cuboidal items, such as tires, cable reels, a suitcase, a case of cans, damaged and bulging boxes and more. The camera and time of flight sensor in the Zebra mobile computer work together with Artificial Intelligence (AI) and Zebra's proprietary algorithms to virtually reconstruct and measure irregularly shaped items. And with support for a broad range of sizes, you can capture practically all the items you need to measure — from as small as 3.94 in (10cm) up to 47.24 in (120cm).

Now, with the cost-effective capture of item measurements, it's easy to maximize the utilization of space in your operations — from warehouse shelves and the back of delivery trucks to the retail back room and even airplane cargo holds. The result? Lower operational costs — without increasing labor costs or decreasing workforce productivity.



## Mobile Parcel Applications

Where can you put Zebra Mobile Parcel to work?



### Transportation & Logistics

- Truckload: loading and space optimization
- Efficient pallet building



### Retail

- First article inspection
- Efficient pallet building



### Warehouses & Distribution Centers

- First article inspection
- Space/storage optimization
- Efficient pallet building
- Efficient packing/outer box selection



### Airlines

- In the cabin: bag size compliance
- In the cargo hold: optimized for efficient loading

## Mobile Parcel Benefits

**Improve operational efficiency and reduce operational costs**

### Reduce the cost of storage

Visibility into item dimensions enables the planning required to store more parcels and items — without adding costly new space.

### Reduce the cost of shipping by increasing truck utilization

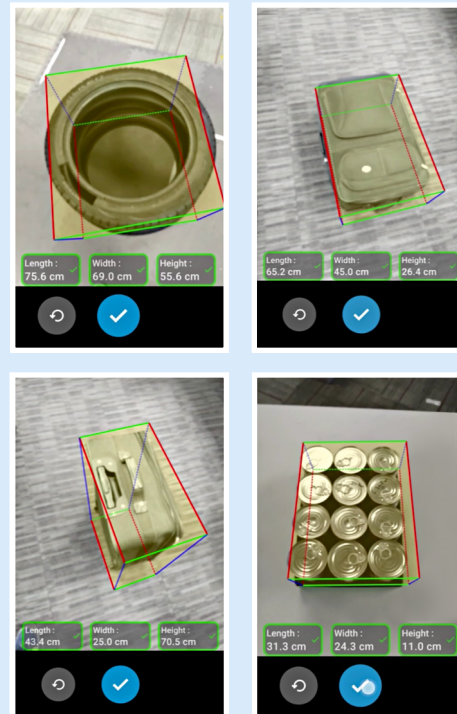
Load and space optimization in delivery trucks enables more shipments per truckload, reducing the number of trucks required to move goods — along with fleet maintenance and fuel costs. In addition, the selection of the minimum size outer box and efficient pallet building minimizes space requirements in delivery trucks.

### Reduce the cost of shipping materials

The ability to select the smallest box possible minimizes the use — and cost — of packing materials.

### Collect required business intelligence for better planning — without decreasing workforce productivity

Now, instead of using a tape measure, workers can simply point and shoot to capture dimensions, anywhere — with virtually no impact on worker productivity or workflow throughput.



# Advanced features put Zebra Dimensioning solutions in a class of their own

## Certified Mobile Parcel and Mobile Parcel are loaded with industry-firsts from Zebra

### Fully integrated

There are no additional external snap-on accessories that can impact overall size, weight, rugged specifications, comfort and reliability. If the mobile computer is dropped, it will remain in calibration — unlike a device with an attached dimensioning accessory that may need re-calibration and re-certification (Certified Mobile Parcel only).

### Capture dimensions anywhere

This fully mobile solution allows you to capture dimensions anywhere in your operations — doorstep collection in homes and businesses, parcel drop off locations, warehouses, depots and hubs.

### International Weights and Measures pre-certified

Zebra Dimensioning — Certified Mobile Parcel is supplied pre-certified by NTEP (US), OIML (EU/EFTA), NMI (Australia) and MBIE (New Zealand), with additional certifications in the future.

### Fast and easy integration

This complete solution includes an integrated Time of Flight sensor; pre-installed and sealed Zebra Dimensioning Service and application software; and a Zebra Mobile Dimensioning Application Programming Interface (API) that makes integrating the capture of dimensions into enterprise backend systems such as your Warehouse Management System (WMS) just as easy as integrating the capture of barcodes.

### Rapid capture of practically any parcel

Capture a wide range of sizes and box types, with any background. Boxes can be plain, wrapped or printed with graphics — and tape and labels won't affect dimensioning capabilities. Certified Mobile Parcel box dimensions can



range from 3.9 in (10cm) per side to 39.27 in (100cm) per side (dependent upon the certifying organization). Mobile Parcel dimensions for cuboidal and non-cuboidal items can range from 3.9 in (10cm) per side to 47.24 (120cm) per side.

### Capture dimensions in virtually any environment

Parcels can be placed on a counter or the floor — cement, tile or carpet. And dimensions can be captured in any lighting — in direct sunlight outdoors, any type of indoor lighting, a dark room or outside at night.

### Comfortable 'no-miss' aiming

Simply place the entire parcel in the camera viewfinder window and position the red aiming dot in the center of the top surface of the parcel for reliable first-time every-time capture of accurate dimensions — even if there are other parcels visible in the camera window. And since you can aim straight down or at an angle, you can easily capture dimensions, regardless of whether parcels are on the floor or counter.

### Easy to use software

The Zebra Certified Mobile Parcel and Mobile Parcel applications are simple, straightforward and intuitive, enabling rapid adoption — your users will be up and running with minimal training.

### Capture accurate dimensions in just seconds

It takes less than five seconds to capture dimensions — just point to capture — infinitely faster than using a tape measure. And the opportunity for errors in manual measurements and keying errors when entering measurements is eliminated.



# Services to complete your dimensioning solution

## Comprehensive coverage for your Zebra mobile computer — and your Zebra Dimensioning application

When it comes to support for Zebra mobile computers and Zebra software applications, no one is better qualified to provide the services you need than the manufacturer — Zebra.

### Zebra mobile computers

No matter what is wrong with your device, it's covered — including accidental damage and normal wear and tear. Get a ready-to-use right-out-of-the-box replacement device the next day with Zebra OneCare Select — or in three days with Zebra OneCare Essential.

### Zebra Certified Mobile Parcel and Mobile Parcel Zebra Dimensioning applications

Zebra OneCare Technical Software Support (TSS) covers the Certified Mobile Parcel and Mobile Parcel applications, providing crucial system and application updates, assistance with API integration and development and more. Includes live agent access to technical support.



For more information, visit [www.zebra.com/zebra-dimensioning](http://www.zebra.com/zebra-dimensioning)

### Footnotes

1. Outsourcing freight audit & payment: 10 checkpoints; Rolf Bax; October 8, 2015; [www.controlpay.com/blog/outsourcing-freight-audit-payment-10-checkpoints/](http://www.controlpay.com/blog/outsourcing-freight-audit-payment-10-checkpoints/)
2. Seven Ways Dimensioning Can Save Your Parcel Operations Money; Omar Dajani; October 10, 2017; <http://parcelindustry.com/print-article-4994-permanent.html>
3. Note that while Zebra components are pre-certified with all certifying organizations, Australia and New Zealand require inspectors to visit the customer location to issue final approval.



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