stratix

SOLUTION BRIEF:

3D Dimensioning for Irregularly Shaped Shipments (aka "Ugly Freight")

Logistics companies move millions of tons of freight worldwide daily, and not all come in easy-to-measure sizes. Irregularly shaped shipments, or "ugly freight," make it difficult to figure out what will fit together in a truck or shipping container. Cost efficiency is vital, and carriers must be able to effectively consolidate shipments to get the most out of available capacity.

The Solution

Using GPC Systems software with the Intel RealSense camera, companies can automatically calculate the overall dimensions of an irregularly shaped shipment from a photo taken by the camera. The system saves the time and money spent manually measuring shipments and ensures accurate billing. For air cargo, accurate data means cargo holds are always flying at maximum capacity and flights aren't delayed by shipments that don't fit—meaning the system quickly pays for itself.

How does it work?

- The dimensioning software is opened on the device with an Intel camera attached.
- The camera is aimed at the box/pallet, and a real-time wireframe box surrounds the object within the camera's view. Prompts guide the user in taking a good image.
- The photo is captured, and dimensions are provided. Dimensions can be automatically synced with backend systems.

Is it accurate?

- Digital measurements are typically within 1 inch of actual measurements.

Making the Connection

Stratix has developed a patent-pending accessory that connects Intel RealSense cameras with Android mobile devices and Windows laptops from Zebra, Samsung, Honeywell, and Panasonic for mobile, fixed, and forklift applications.

We offer complete customization for clients' needs, and the solution includes full integration with open APIs.

GPC Systems Dimensioning & Stratix Use Cases

Retail

- **Focus area:** Distribution centers
- **Problem solved:** Dimension recording accuracy
- **Deployment opportunities:**
  - Fixed position for smaller items
  - Forklift truck for palletized freight put away (bulk)
  - Mobile to enhance flexibility in receiving

Aviation and Supply Chain Cargo

- **Focus area:** Cargo centers
- **Problem solved:** Inaccurate dimension declaration
- **Deployment opportunities:**
  - Fixed position: captures dimensions on a conveyor
  - Forklift truck for palletized freight
  - Mobile to enhance the flexibility of dimensioning

CPG, Warehousing, and Distribution

- **Focus area:** Distribution center packing to enhance trailer fill
- **Problem solved:** Dimension recording accuracy, substitute for expensive and inflexible solutions
- **Deployment opportunities:**
  - Forklift truck for larger palletized freight
  - Mobile to give the QA team the ability to quickly capture dimensions and photographic evidence of activities taking place in distribution centers

Transportation and Cargo Delivery

- **Focus area:** "Ugly freight" / non-conveyorable items
- **Problem solved:** Inaccurate or missing dimension declaration
- **Deployment opportunities:**
  - Mobile to enhance flexibility of data capture
  - Forklift truck for larger palletized freight
    - Increases operator safety
    - No interruption to the operator's current process
  - Photographic evidence to provide your customers

Have another potential use case? Our team will work with you to customize the right solution for your specific workflows.

GPC Systems Solutions Even Better with Stratix Managed Mobile Services

Stratix is a full-service managed mobility services provider. Our decades of experience and relationships with all the major OEMs and carriers help make your mobile solutions convenient, easy, and cost-effective. Our services include:

- **Mobile solution consulting** – Our certified in-house experts will look at your needs and workflows to recommend connectivity solutions that will achieve your goals.

- **Custom-Designed Accessories** – Innovative mounts and custom-designed enclosures from our Specialty Projects Group ensure your devices will fit your environment while maximizing safety, security, and productivity across your specific use cases.

- **Project management** – We're experts in administering large-scale mobile solution programs on time and on budget.

- **Superior mobile deployment** – Our advanced Mobile Integration Center kits and configures thousands of devices with solutions like GPC Systems and sends them out-of-the-box-ready.

- **Full lifecycle services** – From procurement and deployment through repair and eventual disposal, Stratix managed services keep your devices up and running in your end users' hands—maintaining productivity and maximizing your mobile technology investments.

- **Industry-leading support** – Our on-shore 24/7 help desk is staffed by highly-trained experts who know your environment. We also offer rapid repair turnaround and spare pool management to minimize downtime.

Why Stratix

Stratix is a trusted advisor for leading Fortune 500 brands, schools, and healthcare organizations—many of whom have been with us for decades. When you partner with us, you can rest easy knowing your technology is managed by the best in the business.

As North America's premier enterprise mobility specialist, Stratix focuses exclusively on mobility services and has millions of devices deployed. Our services are backed by specialized teams to consult, deploy, manage, and support your mobile program, guaranteeing nonstop mobility for your employees.

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