

Dimension[®] Plus

STATIC DIMENSIONING SYSTEMS



RICE LAKE[®]
WEIGHING SYSTEMS

800-472-6703

www.ricelake.com

A New Era of Shipping

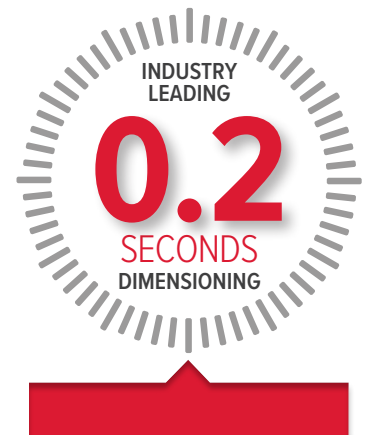
Rice Lake's iDimension Plus is the fastest static solution for calculating dimensions of boxes, flats, polybags, tubes and irregular-shaped packages. The iDimension Plus eliminates revenue loss by providing accurate dimension and weight calculations required by parcel and postal carriers. Users can truly plug and play with the iDimension Plus—simply open and assemble to instantly display dimensions.

Easy Setup

Users can begin using the iDimension Plus within 30 minutes of unboxing with an easy-to-use setup wizard. Connect to the web-based interface to harness advanced configuration and communication settings—no additional software installation is required.

Speed and Accuracy

Parcels are dimensioned faster and more accurately than manual measurements, eliminating the risk of human error. In an industry-leading 0.2 seconds, parcels are automatically calculated within 0.2 inches (5 mm), providing maximum throughput by requiring no need for special alignment or handling while placing a package. Irregular-shaped packages like cylinders, spheres, tubes, polybags and uneven shapes are calculated within +/- 0.5 inches (10 mm).



INNOVATIVE TECHNOLOGY

The iDimension Plus uses multiple patented 3D-imaging technologies with advanced algorithms to optimize time and throughput for static outbound shipments. For objects under 1.2 inches (30 mm), unique flat-detection technology measures and weighs envelopes and small packages. Each dimension provides an overhead image for use during claim disputes on damaged packages. Optional high resolution 4K image is available.

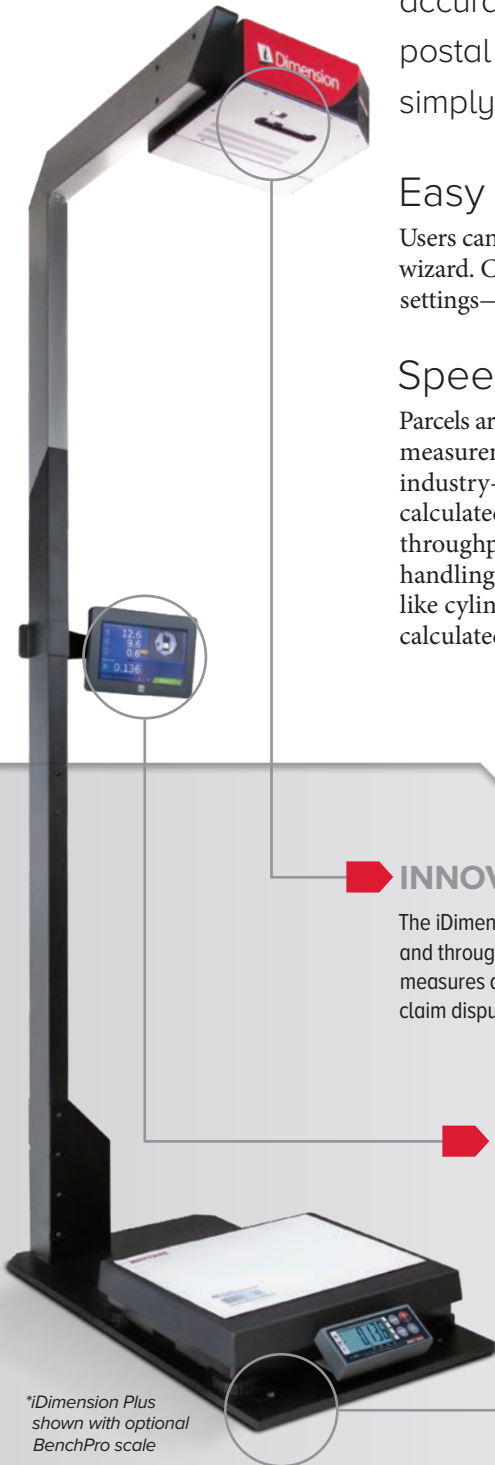
OPERATOR DISPLAY

A color touchscreen display provides instant feedback, an image, measurements, weight and operator functions for day-to-day use.

OPERATING VERSATILITY

The iDimension Plus has automatic and manual trigger configurations. A small footprint and configurable scan area provide easy integration into any workspace.

**iDimension Plus shown with optional BenchPro scale*





iDimension® Plus XL

The iDimension Plus XL is specifically designed for integrators to provide flexibility in the installation of a dimensioning solution. It can be installed anywhere over a conveyor, table or scale from a pole, ceiling mount or support beam. This model includes all the great features of the iDimension Plus, with added flexibility to mount the scanning head at 60 inches (1.5 meters) and 80 inches (2 meters).

The iDimension Plus XL has the option for a powered USB hub for use of more than one peripheral and UPS WorldShip interface. There is also an optional USB bar code scanner with keyboard wedge emulation which will manually trigger dimensioning and add bar code text data into web service API.



Motoweigh Roller Top Scale System

The Motoweigh Roller Top Scale has integrated overload protection, four load cells, mild steel powder-coated frame, non-powder-coated rollers and 100 x 0.05 pound capacity and resolution. With the flexibility of the iDimension Plus XL, you can pair together to help improve the process of your existing workflow. Dimension and weigh each package in less than 1 second.





Peripherals

Connect the iDimension Plus to a Rice Lake BenchPro Series shipping scale to add weight for each dimension. Users may also connect the iDimension Plus to a USB bar code scanner with a wedge emulation to manually trigger dimensioning and add bar code text data.



Software Integration

As a network device, the iDimension Plus' and Plus XL's simple, open-web service API and SDKs can capture dimensions, weight and images of the item.

The iDimension Plus also provides TCP/IP, keyboard wedge software and data extraction modes as methods for integration into existing ERP, TMS and WMS systems.

Install iDimension SS web server software anywhere on a network PC or server to trigger any iDimension product over the network using our simple Rest API or with a TCP/IP bar code scanner. Add a TCP/IP label printer to print data collected, such as weight, dimension, identification number and configurable user fields.

Shipping Software and WMS Interface

The iDimension Plus is compatible with popular shipping programs, including UPS WorldShip[®]. Contact Rice Lake to learn about other compatible software programs.

SPECIFICATIONS

- POWER REQUIREMENTS:** Single power source 110-240 V external power supply, power cord
- OBJECT COLORS:** All opaque packaging
- MEASUREMENT TIME:** 0.2 seconds, scale settling times may vary by scale
- DISPLAY:** 7 in projected capacitive touchscreen
- OPERATING TEMPERATURE:** 32° F to 104° F (0° C to 40° C)
- HUMIDITY:** Non-condensing
- MECHANICAL ENVIRONMENT CLASS:** M1
- ELECTROMAGNETIC CLASS:** E1
- I/O PORTS:** (1) USB type A port
(1) 10/100/1000 BASE-T Ethernet port (interface to PC)
- PACKAGE CONTENTS:** iDimension Plus, calibration object, operator display and power cord
- WARRANTY:** Two-year limited

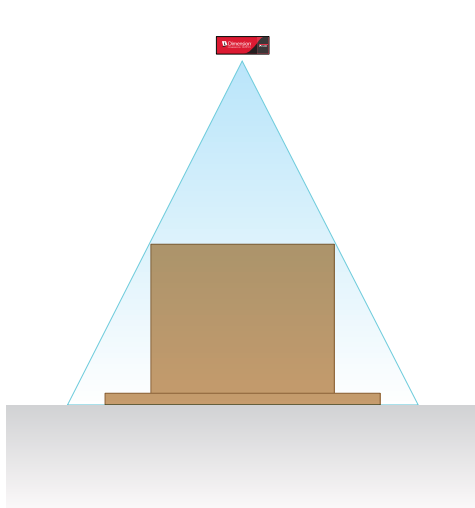
APPROVALS



NTEP Certified
COC#19-040



Measuring Capabilities



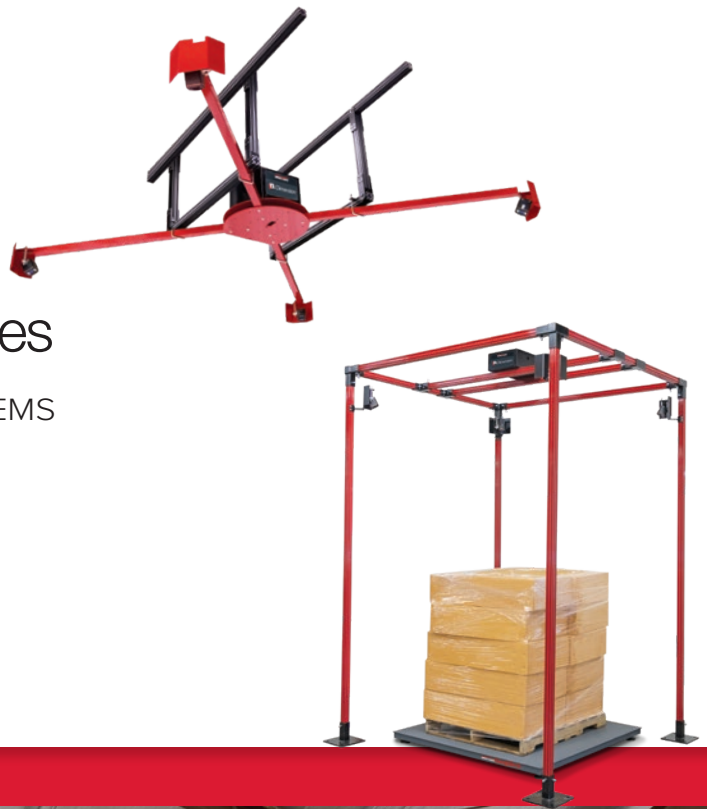
Unit of measure: Inches

80 (platform distance)			
MAXIMUM DIMENSION			
Height	Length	Width	
4	48	32	
6	48	32	
8	48	32	
10	48	32	
12	48	32	
14	48	32	
16	48	32	
18	48	32	
20	48	32	
22	48	32	
24	48	32	
26	48	32	
28	48	30	
30	48	29	
32	48	28	

60 (platform distance)			
MAXIMUM DIMENSION			
Height	Length	Width	
2	48	32	
4	48	32	
6	48	32	
8	48	30	
10	48	29	
12	48	28	
14	46	27	
16	44	26	
18	42	25	
20	40	23	
22	38	22	
24	36	21	
26	34	20	
28	32	19	

48 (platform distance)			
MAXIMUM DIMENSION			
Height	Length	Width	
2	40	24	
4	40	24	
6	40	24	
8	40	23	
10	38	22	
12	36	21	
14	34	20	
16	32	19	
18	30	18	
20	28	16	
22	26	15	
24	24	14	

 **Dimension[®] Flex Series**
PARCEL AND PALLET DIMENSIONING SYSTEMS



RICE LAKE[®]
WEIGHING SYSTEMS

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Flexible Dimensioning System

The iDimension Flex Series brings state-of-the-art dimensioning technology to shipping and logistics professionals. Ensure accurate dimensions on your bill of lading and protect against costly invoice corrections from LTL carriers by integrating automatic dimensioning systems.

Freight Dimensioning Benefits

1

RELIABLE
CHARGEBACK
PREVENTION

2

DOCUMENTATION
AND IMAGES FOR
FREIGHT CLAIMS

3

CERTIFIED LEGAL FOR
TRADE DIMENSIONS

4

STREAMLINED
OPERATIONS

Free-standing



Suspended



Installation Options

The iDimension Flex Series is available in two different configurations: free-standing and suspended. Both versions provide clear access to the dimensioning zone. When the iDimension Flex is installed above a conveyor or pallet stretch wrapper, you can efficiently wrap, weigh and dimension freight in one step.

A center sensor can be added to the junction box on iDimension Flex systems to accurately capture dimensions of freight wrapped in black plastic.

FLEXIBLE CONFIGURATION

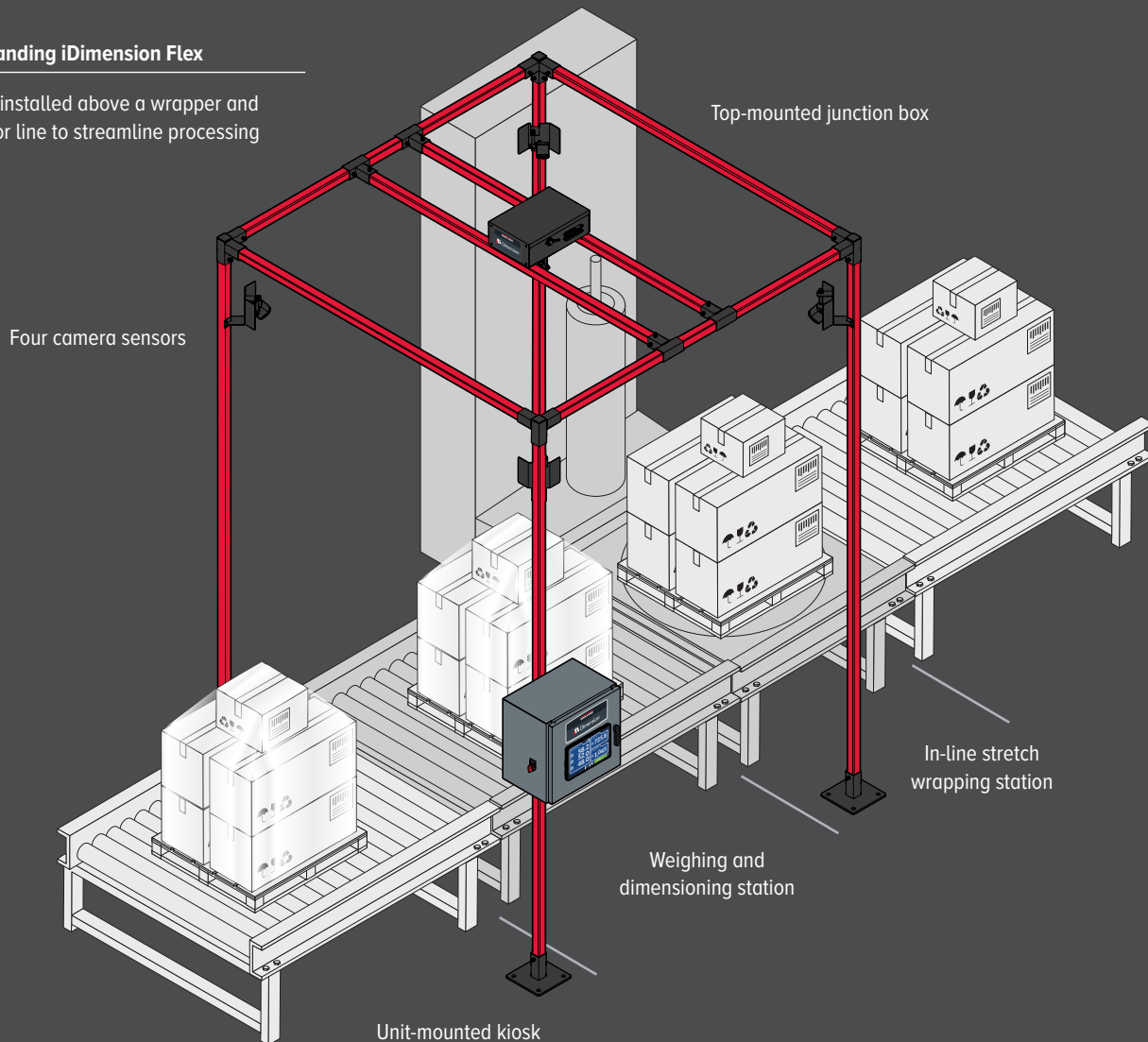
The iDimension Flex Series is available with four or five sensors to measure cuboidal or irregular freight. The system can be suspended from the ceiling or be free-standing to meet the needs of your operation. A two-sensor version can also be installed above a conveyor to dimension parcels longer than 48 inches.

CLAIMS DEFENSE

When shipment dimensions are measured, the iDimension Flex also captures color images to record shipment condition before it leaves your facility. These images can then be used to hold freight carriers accountable for any damages.

Free-standing iDimension Flex

System installed above a wrapper and conveyor line to streamline processing

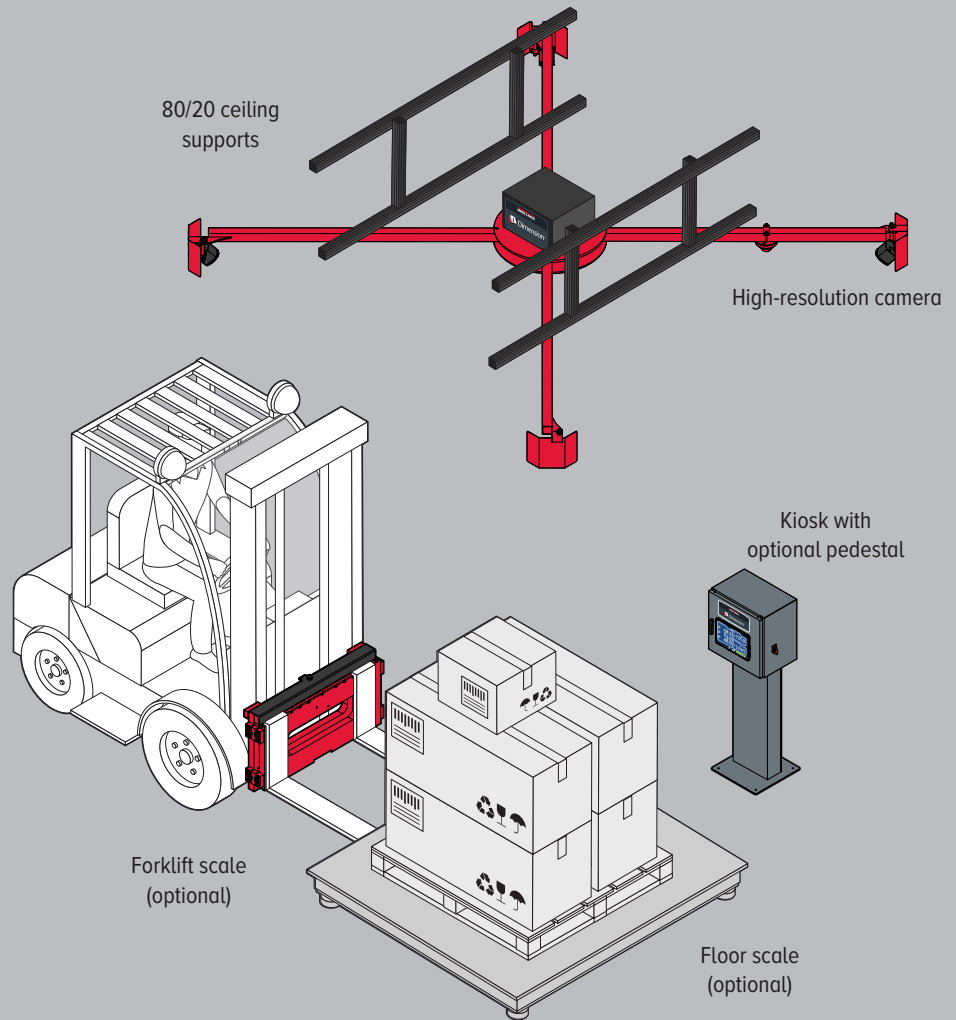


CERTIFIED LEGAL FOR TRADE

iDimension Flex systems provide OIML and NTEP Certified Legal for Trade dimensions for best-in-class accuracy. Carriers are less likely to audit freight that is measured with Legal for Trade dimensioners, which increases efficiency in their operations and may lead to savings for shippers.

Suspended iDimension Flex

System installed above operations to ensure easy forklift traffic flow and prevent equipment damage



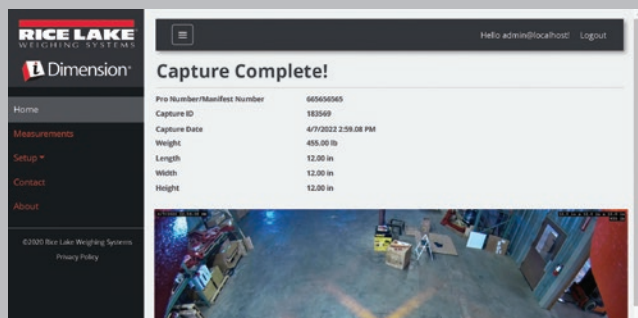
Robust Software

Integration That Works

The iDimension Flex has a comprehensive network interface for straightforward integration to your network and shipping software. Trigger iDimension Flex to capture measurements from the kiosk touchscreen or with a REST API call or bar code scanner.

Use a bar code scanner to read the sales order or other pallet identification number. A label printer can print time/date, ID and freight data.

Export images and shipment data using FTP or SMB protocols, or use REST APIs to customize your data collection process.





iDimension Flex can be installed in a variety of shipping environments, even where space is limited.

DIMENSIONING
IN LESS THAN
2.0
SECONDS

iDimension® Flex Series

PARCEL AND PALLET DIMENSIONING SYSTEMS

DISPLAY KIOSKS

Operator kiosks can be wall-mounted, unit-mounted or attached to a pedestal base so it is clear of any forklift traffic and other hazards. Kiosks have a 10.5-inch color touchscreen display so dimensions and weight are clearly visible.



COMPLETE YOUR SYSTEM

Complete your iDimension Flex system by adding a scale, bar code scanner and printer to record accurate freight dimensions and ensure accurate pricing.

OPTIONS

- FLOOR SCALE
- BAR CODE SCANNER
- PRINTER
- SECOND COLOR CAMERA
- ADDITIONAL 5TH SENSOR FOR BLACK PLASTIC
- PEDESTAL BASE FOR KIOSK
- MOUNTING CONFIGURATION FOR SUSPENDED SYSTEM

SPECIFICATIONS

POWER REQUIREMENTS:	96 to 264 VAC 25 ft (7.62 m) U.S. power cable included
MEASUREMENT RANGE	Maximum freight size: (L × W × H) 72 × 72 × 96 in (1,829 × 1,829 × 2,438 mm) Minimum freight size: 12 × 12 × 12 in (305 × 305 × 305 mm)
COMMUNICATION PORTS:	Ethernet TCP/IP, USB, RS-232
OPERATING TEMPERATURE:	14 °F to 104 °F (-10 °C to 40 °C)
HUMIDITY:	0 to 90% non-condensing
WARRANTY:	Two-year limited Five-year limited, sensors only

APPROVALS:



SALES AND TECHNICAL ASSISTANCE

RICE LAKE®
WEIGHING SYSTEMS

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iDimension Parcel Series Questionnaire



Existing Customer: Yes No RLWS customer #: _____

Company: _____ Date: _____

Address 1: _____ Address 2: _____

City: _____ State/Zip: _____ Country: _____

Primary Contact: _____ Email: _____ Phone: _____

IT/Integration Contact: _____ Email: _____ Phone: _____

Quote Type: Budgetary Firm (valid for 30 days)

MEASUREMENT CAPABILITITES BASED ON SENSOR HEIGHT						
Model: iDim Plus	1.2 m		1.5 m		2 m XL	
Platform Distance	48 in (1,200 mm)		60 in (1,500 mm)		80 in (2,000 mm)	
Length	1.2 in (30 mm)	40 in (1,000 mm)	1.2 in (30 mm)	48 in (1,200 mm)	8 in (203 mm)	48 in (1,200 mm)
Width	1.2 in (30 mm)	24 in (600 mm)	1.2 in (30 mm)	32 in (800 mm)	8 in (203 mm)	32 in (800 mm)
Height	0in (0 mm)	24 in (600 mm)	0in (0 mm)	28 in (700 mm)	4 in (102 mm)	32 in (800 mm)
Division	0.2 in (5 mm)		0.2 in (5 mm)		0.5 in (10 mm)	

DIMENSIONER INTEGRATION

A dimensioner needs to be triggered to tell it when to measure and collect weight and/or barcode information. When deciding how to trigger the dimensioner we should also consider the process-flow of dimensioning operation. Once we know how and when we want to trigger, we need to understand what to do with the data and images as well.

FILE TRANSFER (CHOOSE ONE)

- Option 1: I want to hit a hot key on my computer to transfer the measurements to my PC using iDimension Desktop Wedge program. This will also save the measurements, images, time, date and barcode data to a directory on the local hard drive. This software does not transfer data to a network location but it can be used to integrate with shipping software (UPS WorldShip/FedEx Shipping Manager etc.). iDimension Desktop Wedge is a free download from www.ricelake.com.
- Option 2: iDimension SS (software suite) installed on my local PC which provides and automatic data export to a network FTP file server. If connection to the server is lost, transactions are buffered and later transferred when connection is restored. The PC must be connected directly to the dimensioner with server FTP connection on a dedicated network adapter.
- Option 3: iDimension SS installed on a customer provided server. This provides a faster method of data transfer and the customer is in control of the hard disk memory partition. Note that if the server is disconnected no dimensioning can take place until a new connection is established. FTP and SMB file transfers are supported. This option requires customer IT Department support.
- Option 4: API command transmitted from customer server to iDim SS to trigger dimensioner and collect barcode data, weight, dimensions and images. This is a poll/response communication. A command from the customers server is necessary to trigger and respond. Requires customer IT department support to implement.

TRIGGERING METHOD (CHOOSE ONE)

- Option 1: Auto Mode. The dimensioner will automatically measure when an object is placed in the field of view and visual motion has stopped. This is a common configuration when used with the iDimension Desktop Wedge and works well when connected to a shipping program or WMS system for item master data applications.
- Option 2: Barcode scan triggers the dimensioner to capture barcode data, weight, dimensions and images. This is a common configuration when used with the iDimension Desktop Wedge program and works well when connected to a shipping program or WMS system for item master data applications.
- Option 3: API command. See option 4 above.

API manual https://www.ricelake.com/media/123lsv4t/m_us_167741_qubevuapiguide_revc.pdf

MEASUREMENT REQUIREMENTS

I need to measure:

Boxes Polybags Flats Tubes Envelopes Unpackaged items Other: _____

I will measure items in the following range (pick one):

- 2 x 2 in to 40 x 24 in (L x W) up to 24 in tall
 2.5 x 2.5 in to 48 x 32 in (L x W) up to 28 in tall
 8 x 8 in to 48 x 32 in (L x W) up to 32 in tall

*See specifications for more details. For pallet/freight dimensioners please fill out form 0279_Freight_Dimensioning_Questionnaire.

I have items that are less than 2.5 in tall: Yes No

I need a picture of the item: Yes No

Image quality: High resolution 640 x 480

I require type approval: NTEP MID OIML NMI (AUS)

Country of deployment: _____

MOUNTING OPTIONS

The dimensioner will be placed:

- On top of a desk, table (please provide a picture)
 Over a conveyor (please provide a picture)
 I need a cart

WEIGHING

- I don't need to weigh items
 I have a compatible scale

Supported protocols/scales: USB HID, Pennsylvania 7300, Mettler Toledo, MT-SICS, NCI, A&D FG Scale make/model:

I need a scale

Lightest item: _____ (lb or kg)

Heaviest item: _____ (lb or kg)

Platter Type: Flat top Roller top Ball top

Platter Size: 14 x 12 in 18 x 18 in 20 x 20 in 24 x 24 in

Other weighing requirements: _____

- I need the data stored on a PC
 - I have my own
 - Include in quote
 - I need the data stored on a server:
My servers: FTP Network share (SMB)

DIMENSIONER EXPERIENCE

Other dimensioners in-use or previously used:
 iDimension Other: _____

ADDITIONAL EQUIPMENT

- Handheld barcode scanner:
- I don't need one
 - I have my own
 - Include in quote
 - Wireless Wired

- Label printer:
- I don't need one
 - I have my own
 - Include in quote

- USB Hub:
- I don't need one
 - I have my own
 - Include in quote

Additional Information
