

iDimension[®] Plus

OIML Static Dimensioning System – Version 4.13

Setup and Operation Manual



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Revision History

This section tracks and describes manual revisions for awareness of major updates.

Revision	Date	Description
C	September 15, 2023	Established revision history
D	March 26, 2024	Added language section

Table i. Revision Letter History



Technical training seminars are available through Rice Lake Weighing Systems. Course descriptions and dates can be viewed at www.ricelake.com/training or obtained by calling 715-234-9171 and asking for the training department.

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1.0 Introduction

This manual provides an overview of the iDimension Plus setup and operating instructions.

Ensure the iDimension Plus unit is fully assembled by following the iDimension Plus Assembly Instructions (PN 197164).

When interfacing this device with third party software, please reference the software manufacturer's documentation for setup and configuration parameters as necessary.



Manuals are available from Rice Lake Weighing Systems at www.ricelake.com/manuals

Warranty information is available at www.ricelake.com/warranties

Additional Manual Resources

- iDimension Plus Assembly Instructions (PN 197164). The iDimension Plus Assembly Instructions describe how to assemble the iDimension Plus.
- iDimension Plus QubeVu Managers Guide (PN 195441). The iDimension Plus QubeVu Managers Guide provides a detailed overview of the QubeVu Manager, the embedded firmware of the iDimension Plus.

1.1 Regulatory Information

This product is a Class 1 Laser Product according to IEC 60825-1:2007 Ed. 2.0 and complies with 21 CFR 1040.1 pursuant to Laser Notice No. 50. A laser source with a diffraction optical element is embedded in the product, which produces a maximum output power of 1.1 mW at the aperture with a maximum wavelength of 825 nm.

1.2 FCC Compliance

United States

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Canada

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la Class A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

1.3 OIML/EU Certification Special Notice of Use

The dimensions and/or volume shown are those of the smallest rectangular box that fully encloses the object.

1.4 Safety

Safety Definitions:



DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. Includes hazards that are exposed when guards are removed.



WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in serious injury or death. Includes hazards that are exposed when guards are removed.

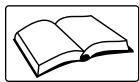


CAUTION: Indicates a potentially hazardous situation that, if not avoided, could result in minor or moderate injury.



IMPORTANT: Indicates information about procedures that, if not observed, could result in damage to equipment or corruption to and loss of data.

General Safety



Do not operate or work on this equipment unless this manual has been read and all instructions are understood. Failure to follow the instructions or heed the warnings could result in injury or death. Contact any Rice Lake Weighing Systems dealer for replacement manuals.



WARNING

Failure to heed could result in serious injury or death.

Electric shock hazard!

There are no user serviceable parts. Refer to qualified service personnel for service.

The unit has no power switch, to completely remove power from the unit, disconnect the power source at the AC outlet.

For pluggable equipment the socket outlet must be installed near the equipment and must be easily accessible.

When cycling power, use the in-line power cord at a power outlet, do not power at the base.

Always disconnect from main power before performing work on the device.

Do not allow minors (children) or inexperienced persons to operate this unit.

Do not operate without all shields and guards in place.

Do not place fingers into slots or possible pinch points.

Do not use this product if any of the components are cracked.

Do not make alterations or modifications to the unit.

Do not remove or obscure warning labels.

Do not use near water, avoid contact with excessive moisture.

Keep the unit dry.

Retain packaging. When transporting the unit, always disassemble and pack it in its original packaging.

Use only supplied power adapter. Never short-circuit the power adapter or the device.

Never remove the iDimension Plus head cover or the electrical connection panels at the base of the pole assembly.

Never modify or attempt to repair the unit. Service must be performed by Rice Lake Weighing Systems only.

Handle cables and cable connectors with care.

Never use damaged power cords, plugs or loose electrical sockets.

Never touch the power cord with wet hands.

Ensure that the base plate, pole assembly and head unit are all securely attached before attempting to move the unit.

Never lift the unit by grasping only the pole assembly.

Always ensure that both sections of the pole assembly and the base plate are supported.

Never drop or allow an impact to the head.

Mount on a flat surface.

Never use product for anything other than its intended purpose.

1.5 Installation Requirements



IMPORTANT: Avoid installation of the unit near direct sunlight or near bright lights. Direct sunlight and overhead lighting causes void pixels and noise that will affect the system from performing a dimension.

Protect the iDimension Plus from static electricity and connect to a clean AC power outlet.

Install the iDimension Plus on a table or sturdy level work surface large enough for the base plate and scale. Ensure the location provides a large enough work surface clear from other objects in the measurement area.

1.5.1 Measuring Platform

The iDimension Plus can be installed over any platform or surface. Measuring flat items, such as envelopes and small poly bags, requires a flat, non-reflective platform. Please contact Rice Lake Weighing Systems for further information.

1.5.2 Scale Placement

If using a scale, place the scale on the base plate, centered on the marks (Figure 1-1). Secure the scale into position. Continuous movement of the scale may provide inaccurate measurements. If the scale moves from the original position placed after a zero height or reset function, results may be inaccurate.

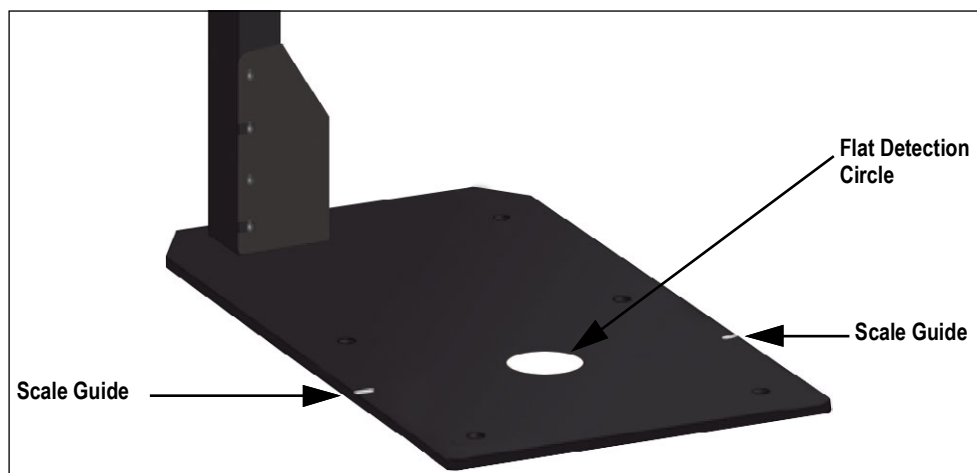


Figure 1-1. Scale Placement

2.0 Setup Wizard

This section provides an overview of how to set up the iDimension Plus.



The **Setup Wizard** displays during initial power-up. Skip to [Step 4](#) if **Setup Wizard** displays.



Figure 2-1. Setup Wizard Prompt

2.1 Access Setup Wizard

If **Setup Wizard** does not display, use the following steps.

1. From the display ([Figure 3-1 on page 17](#)), select the **Device Information** button . **Device Info** menu displays ([Figure 4-1 on page 21](#)).
2. Select the **Configuration Menu** button  ([Section 4.1 on page 21](#)). **Configuration Menu** displays.
3. Select **Setup Wizard**.

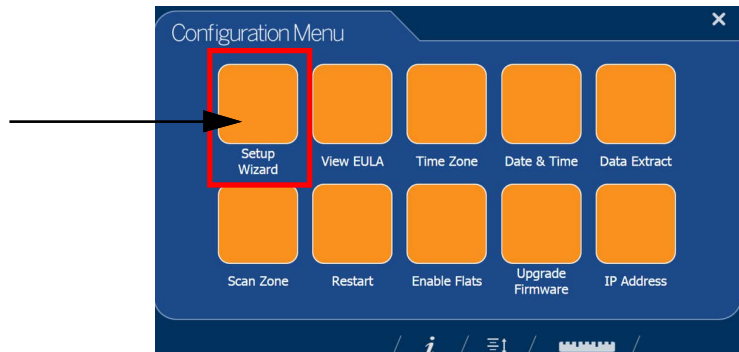


Figure 2-2. Configuration Menu

4. The **Initial Setup Wizard** displays.

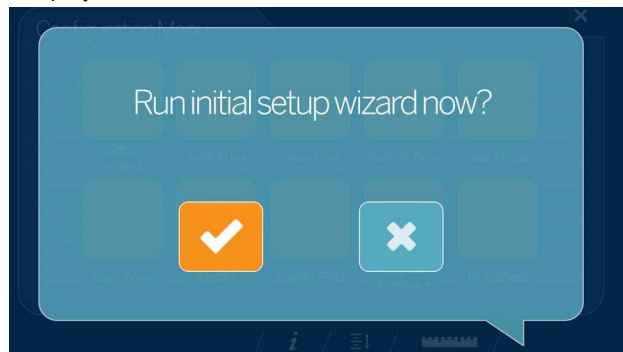



Figure 2-3. Initial Setup Wizard

5. Select  checkmark to run the initial Setup Wizard.

2.1.1 Time Zone

The **Time Zone** button displays the current time zone.

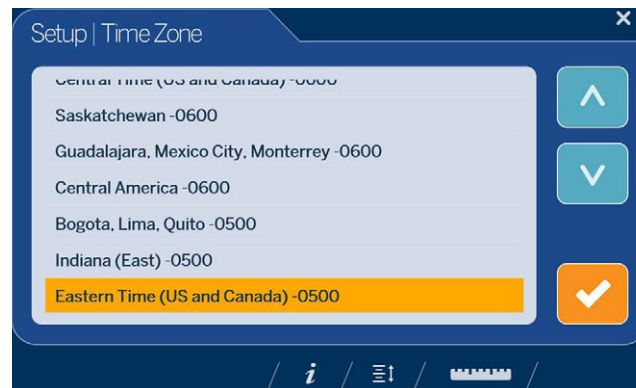





Figure 2-4. Time Zone Selections

Use the following steps to edit the time zone.

1. Select **Time Zone**, [Figure 2-5](#). The current time zone displays.
2. Scroll  or  to highlight the desired time zone.
3. Select  to continue.

2.1.2 Date and Time

The **Date and Time** button allows the adjustment of date or time if necessary.

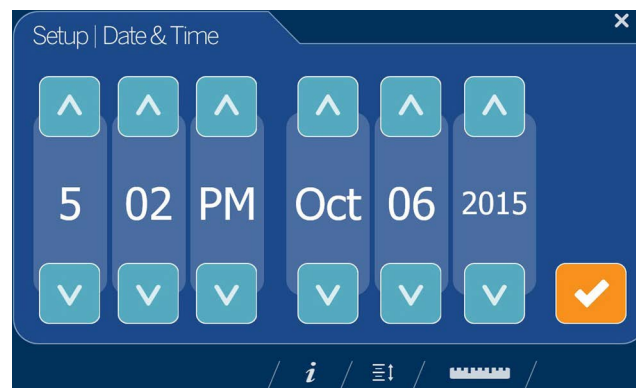





Figure 2-5. Date and Time

Use the following steps to adjust the date or time.




1. Select **Time & Date** [Figure 2-2 on page 10](#).
2. Use  or  to enter the current time and date.
3. Select  to continue.

2.2 Zero Height

1. Select the base type of the iDimension Plus.



Figure 2-6. Zero Height Base Selection Display

- Flat base or smooth scale: If the base is a smooth top scale or no scale, only using the iDimension Plus base, select the  and proceed to [Step 3](#)
 - Scale with bumps tread or rollers: If the base has an uneven surface (roller balls or conveyor), not using the iDimension Plus base, select the  then continue to [Step 2](#)
2. Place the calibration object on top of the scale then select .

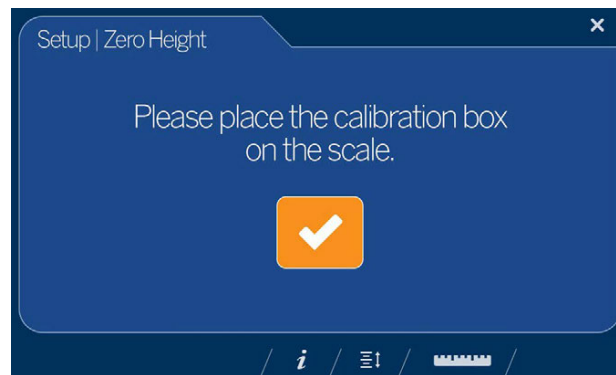



Figure 2-7. Place Calibration Box Display

3. Ensure the platform is clear of other objects then select .

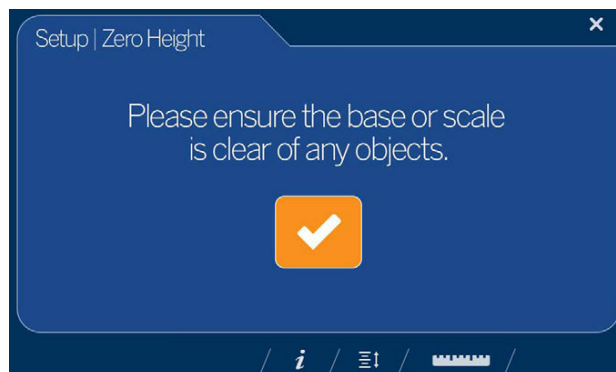


Figure 2-8. Ensure Base is Clear Display




NOTE: It is important to keep the scale or iDimension Plus base clear and unobstructed during the zero height calibration to set the zero height accurately.

- Stand clear of the unit before the countdown completes.



Figure 2-9. Stand Clear Display

- The operator is advised on the platform distance that will be adjusted and asked to confirm by pressing .

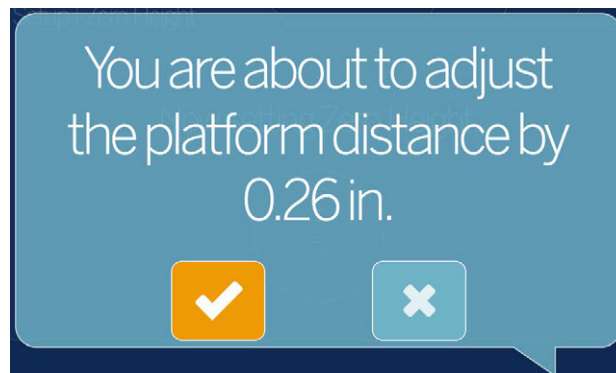



Figure 2-10. Confirm Distance

- Press  upon successful zero height calibration.
- Remove the calibration object, if used when the base has an uneven surface (roller balls or conveyor). The base is selected within [Step 1 on page 12](#).



NOTE: If the zero height fails, ensure the dimensioning area is clear, the scale is level and repeat the zero height function. If unable to perform a successful zero height, calibration may be required ([Section 2.0 on page 10](#)).

2.3 Scan Zone


The scan zone is the area the system uses to dimension an item. When identifying the scan zone, consider the area needs to be clear from all other objects and is used to identify motion detected by an operator placing an item on the platform. Before the unit can attempt to perform a dimension, the scan area is required to be free from motion by the operator or objects near the device.

If the application has enabled flats; items that are less than 1.2" (3 cm) in height, the scan zone is required to be as large in length and width as the object.



1. Adjust the scan area by adjusting each of the four dots (touch points) on the screen [Figure 2-11](#).



Figure 2-11. Scan Zone

2. Select  when scan zone is configured.

2.4 Certified Settings

1. Select  or  to select the appropriate configuration profile.



NOTE: The default configuration is US (48"). Selecting --Current Settings-- leaves this unchanged. Please contact Rice Lake Weighing Systems Support for advice on profile selection.

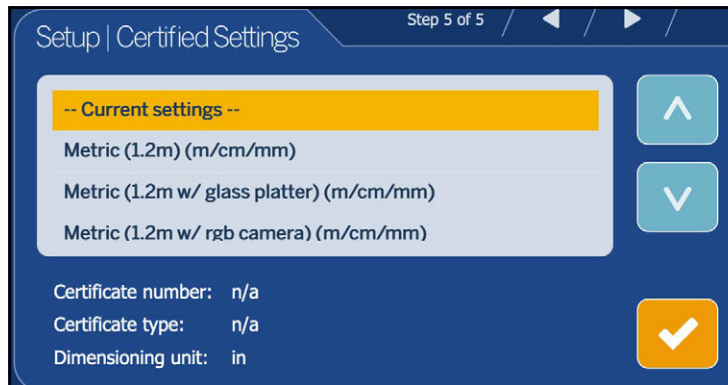


Figure 2-12. Certification Settings

The profile will depend on the hardware configuration and Legal for Trade requirements and was selected during the initial setup wizard. See [Table 2-1 on page 15](#) for detailed information on each profile.

2. Select  when the desired certified setting is selected.

Profile Name	Use If	
Metric (1.2 m)	Measurement unit Scan head mount height Minimum object height Legal for Trade application	= Metric = 1.2 m > 3 cm No
Metric (1.2 m with glass platter)	Measurement unit Scan head mount height Scale with glass platter Legal for Trade application	= Metric = 1.2 m Yes No
Metric (1.2 m with rgb camera)	Measurement unit Scan head mount height Minimum object height Legal for Trade application	= Metric = 1.2 m < 3 cm No
Metric (1.5 m)	Measurement unit Scan head mount height Minimum object height Legal for Trade application	= Metric = 1.5 m > 3 cm No
Metric (1.5 m with glass platter)	Measurement unit Scan head mount height Scale with glass platter Legal for Trade application	= Metric = 1.5 m Yes No
Metric (1.5 m with rgb camera)	Measurement unit Scan head mount height Minimum object height Legal for Trade application	= Metric = 1.5 m < 3 cm No
Metric (2.0 m)	Measurement unit Scan head mount height Minimum object height Legal for Trade application	= Metric = 2.0 m > 10 cm No
Certified – MID: T1108 (1.2 m)	Measurement unit Scan head mount height Legal for Trade application	= Metric = 1.2 m Yes (MID)
Certified – MID: T1108 (1.5 m)	Measurement unit Scan head mount height Legal for Trade application	= Metric = 1.5 m Yes (MID)

Profile Name	Use If	
Certified – MID: T1108 (2.0 m)	Measurement unit Scan head mount height Legal for Trade application	= Metric = 2.0 m Yes (MID)
Certified – OIML: R129/2000-NL1-A-20.05 (1.2 m)	Measurement unit Scan head mount height Legal for Trade application	= Metric = 1.2 m Yes (MID)
Certified – OIML: R129/2000-NL1-A-20.05 (1.5 m)	Measurement unit Scan head mount height Legal for Trade application	= Metric = 1.5 m Yes (OIML)
Certified – OIML: R129/2000-NL1-A-20.05 (2.0 m)	Measurement unit Scan head mount height Legal for Trade application	= Metric = 2.0 m Yes (OIML)
US (48")	Measurement unit Scan head mount height Minimum object height Legal for Trade application	= US = 48" > 1.2" No
US (48" with glass platter)	Measurement unit Scan head mount height Scale with glass platter Legal for Trade application	= US = 48" Yes No
US (48" with rgb camera)	Measurement unit Scan head mount height Minimum object height Legal for Trade application	= US = 48" < 1.2" No
US (60")	Measurement unit Scan head mount height Minimum object height Legal for Trade application	= US = 60" > 1.2" No
US (60" with glass platter)	Measurement unit Scan head mount height Scale with glass platter Legal for Trade application	= US = 60" Yes No
US (60" with rgb camera)	Measurement unit Scan head mount height Minimum object height Legal for Trade application	= US = 60" < 1.2" No
US (80")	Measurement unit Scan head mount height Minimum object height Legal for Trade application	= US = 80" > 4" No

Table 2-1. Measurement Parameters

- Selecting any of the “Metric” profiles prompts for the selection of measurement unit: m, mm or cm.

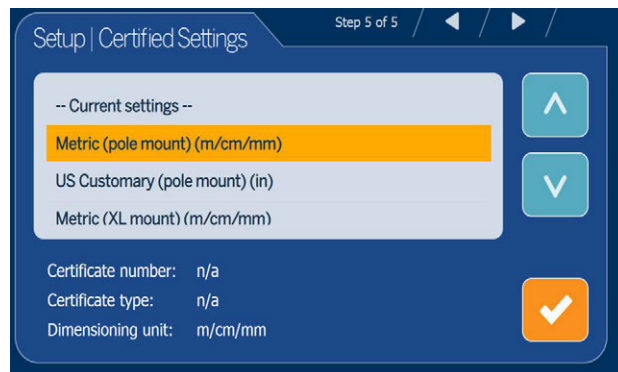





Figure 2-13. Certification Settings – Metric

3. Select  or  to scroll to the desired unit of measure.
4. Select  when the desired unit of measure is selected.

5. Upon completion of the setup wizard, the system restarts.
6. Clear the platform of obstructions to continue.

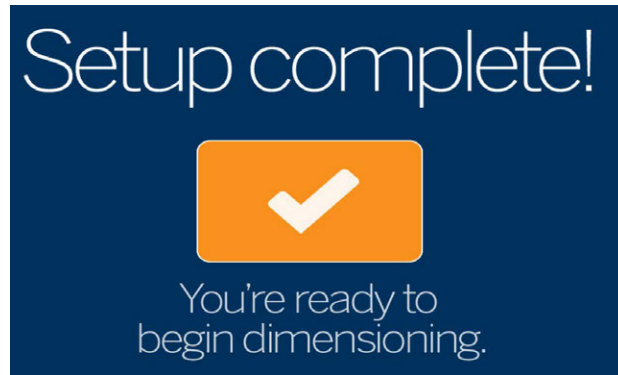


Figure 2-14. Setup Complete

2.5 Next Steps

The Setup Wizard is now complete. Additional setup requires connection of the iDimension Plus to a PC from a network connection to access QubeVu Manager.

1. Connect iDimension to network ([Section 6.0 on page 32](#)).
2. Configure general settings ([Section 7.2 on page 36](#)).
3. Configure scale settings for connecting to iDimension Plus ([Section 7.2.2 on page 38](#)).
4. Configure network ([Section 7.4 on page 40](#)).

3.0 Touchscreen Display

This section provides an overview of iDimension Plus USB touchscreen display indicator and control instructions.

The USB touchscreen display combines the weight and dimensions from the iDimension Plus and the optional scale to be visualized.

The touchscreen display provides the dimensions, a live displayed scale weight and operator access to system level controls.

3.1 Touch Screen Display Operation

A live image provides the user feedback on the placement of the item and conditions that may cause the system to be unable to dimension, for example out of bounds. The blue line shown in [Figure 3-1](#), indicates the scan zone defined during initial setup.

The **Power** button for the USB display is located on the back of the unit. The USB operator display can be configured in QubeVu Manager, see the iDimension Plus QubeVu Managers Guide (PN 195441).

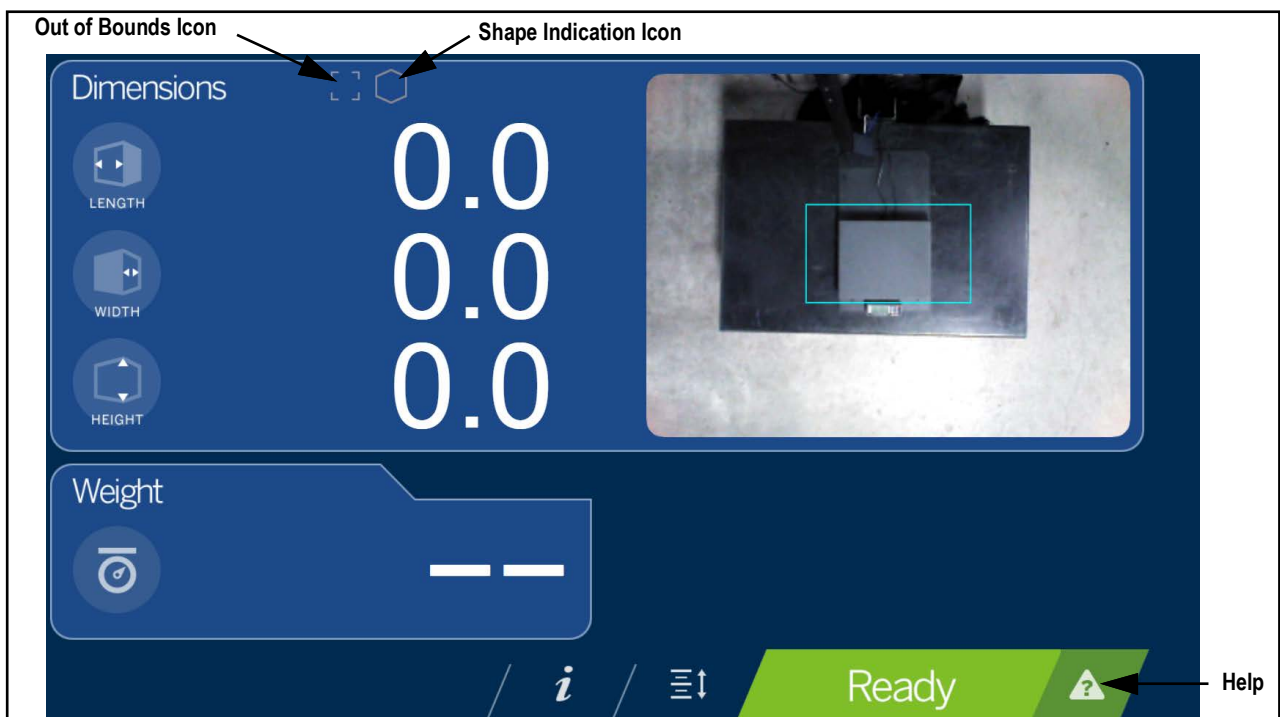



Figure 3-1. Touchscreen Display

The indicator provides out of bounds and shape information for dimensioning. Function keys allow the iDimension Plus to be managed via the touchscreen display.

3.1.1 Live Image

The weigh area provides a real-time view of the scanning area from the scanning head onto the USB display. The blue box within [Figure 3-1](#) is the **Scan Zone** which indicates the area the iDimension Plus will dimension.



3.1.2 Out of Bounds Indication

The **Out of Bounds** icon  indicates the object is not outside of the **Scan Zone**. If the object is outside of the **Scan Zone**, an exclamation point appears with arrows indicating the direction the object is not within the **Scan Zone**.

If all four of the arrows within the **Out of Bounds** icon are lit , the object being dimensioned is not within the viewing area or the item is too large. The arrows within the **Out of Bounds** icon display the direction which the item is outside of the **Scan Zone**.

3.1.3 Shape Indication

The **Shape Indication** icon indicates the shape of the object being dimensioned.

- The **Regular Shape** icon  indicates if the item is dimensioned as a regular shape and the dimensions are displayed in 0.2" or 0.5 cm increments.
- The **Irregular Shape** icon  indicates if the item is dimensioned as an irregular shape and the dimensions are displayed in 0.5" or 0.5 cm increments.

3.1.4 Status Indication

Status indicates the current status of the iDimension Plus unit.

- The **Ready** status indicates the device is ready to perform a dimensioning transaction
- The **Remove** status indicates a successful dimensioning transaction is complete
- The **Stopped** status displays during restart or if the devices requires a restart from the **Configuration** menu
- The **Wait** status displays briefly while dimensioning or if user intervention is required; select the **Help** function key to see real time feedback of the system if the device displays the started, stopped or wait condition

3.1.5 Help Key

The **Help** function key  displays the **Issue Review** menu.

The **Help** function key provides real time feedback to the operator of the unit. It provides step-by-step instructions on how to clear conditions such as start, stop, wait or remove condition with no object in the scan area.

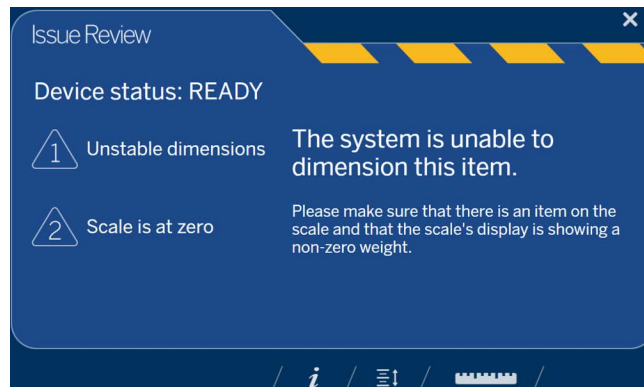




Figure 3-2. Issue Review

Select the ruler icon  at the bottom of the touchscreen display [Figure 3-2](#) to return to the main screen.

3.1.6 Zero Height Key

The **Zero Height** function key  allows the iDimension Plus to calculate the distance between the scan head and the base. Zeroing the height after initial setup is only necessary if the distance between the scan head and the measuring platform changes.


Example: When a scale is added or removed.


To perform the **Zero Height** function, refer to the following steps:

1. Select the base type of the iDimension Plus.



Figure 3-3. Zero Height Base Selection Display

- If the base is a smooth top scale or no scale, only using the iDimension Plus base, select the scale type and proceed to [Step 3 on page 20](#)
- If the base has an uneven surface (roller balls or conveyor), not using the iDimension Plus base, select the  then continue to [Step 2](#). For best performance, choose this function

2. Place the calibration object on top of the scale then select .

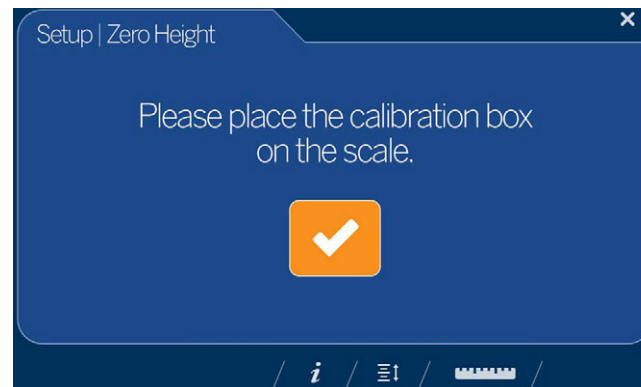



Figure 3-4. Place Calibration Box Display

3. Ensure the platform is clear of other objects then select .

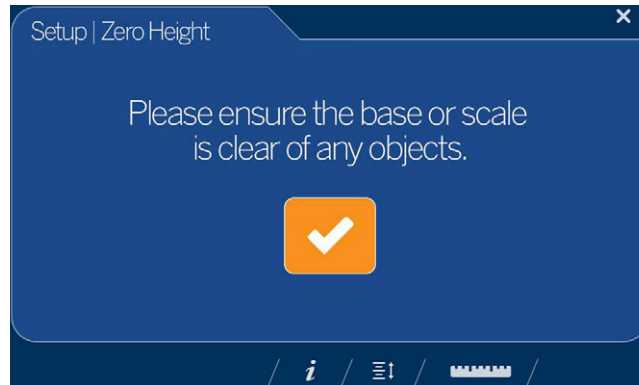


Figure 3-5. Ensure Base is Clear Display



NOTE: It is important to keep the scale or iDimension Plus base clear and unobstructed during the zero height calibration to set the zero height accurately.

4. Stand clear of the unit before the countdown completes.

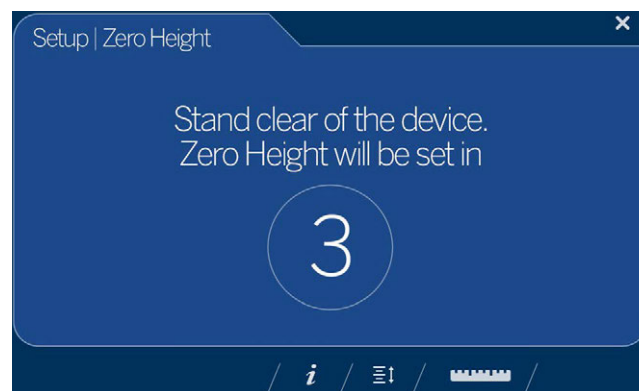



Figure 3-6. Stand Clear Display

5. Upon successful zero height calibration select . The display returns to the **Touchscreen Display** (Figure 3-1 on page 17).
6. Remove the calibration object.




NOTE: If the zero height fails, ensure the dimensioning area is clear, the scale is level and repeat the zero height function. If unable to perform a successful zero height, calibration may be required (Section 2.0 on page 10), or if using a 1.2 m pole assembly, select the certified setting first, then retry zero height.

4.0 Configuration Menu

This section provides an overview of iDimension Plus configuration menu instructions. The **Configuration Menu** provides more configuration options when accessed through touchscreen display than when accessed through a PC.

4.1 Access Configuration Menu

To access the **Configuration Menu**, use the following steps:

1. Select the **Device Information** function key  located at the bottom of the screen (Figure 3-1 on page 17).
2. The **Device Info** menu displays (Figure 4-1). For additional **Device Info** information (Section 4.2 on page 26).

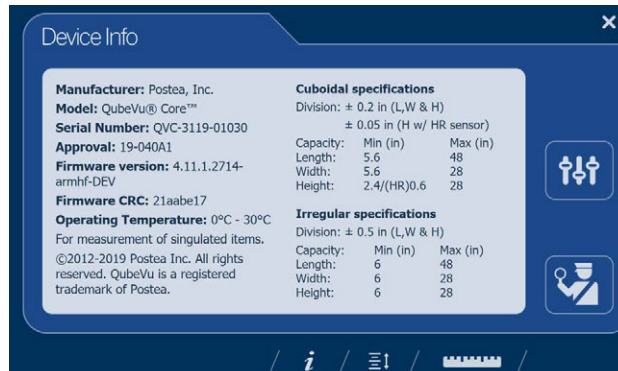


Figure 4-1. Device Information

3. Select the **Configuration** function key .
4. The **Configuration Menu** displays.



Figure 4-2. Configuration Menu

Item	Description	Reference
Setup Wizard	Steps through initial configuration to allow unit operation	Section 4.1.2 on page 22
View EULA	Displays the Software End User License Agreement information	Section 4.1.3 on page 23
Time Zone	Displays the current time zone and allows for time zone configuration	Section 4.1.4 on page 23
Date & Time	Allows the adjustment of date and time	Section 2.1.2 on page 11
Data Extract	View the configuration settings and the current and previous status; Must be configuration in administration mode	Section 4.1.4 on page 23
Scan Zone	Allows for configuration of the Zone of Interest	Section 2.3 on page 14
Restart	Select to restart the iDimension Plus unit	Section 4.1.5 on page 24
Upgrade Firmware	Allows for a connected USB drive to update the current device firmware	Section 4.1.6 on page 24
IP Address	Select to view the current IP address of the iDimension Plus unit	Section 4.1.7 on page 25

Table 4-1. Configuration Menu Keys

4.1.1 Inspection Menu Key


The **Inspection Menu** function key  provides access to **Weight and Measures Inspector** menu.



Figure 4-3. Inspection Menu

4.1.2 Setup Wizard

The **Setup Wizard** displays during initial assembly and power-up. If **Setup Wizard** does not display, see [Section 2.1 on page 10](#).

Select the **Setup Wizard** to automatically step through the following information.






Figure 4-4. Begin Setup Wizard

4.1.3 View EULA

The **View EULA** button displays the Software **End User License Agreement**.



Figure 4-5. End User License Agreement




- Use  or  to scroll through the license agreement.
- Select  when read.

4.1.4 Data Extract

If **Long Terms Store** and **Daily Extract** are enabled by the system administrator, the operator can view the configuration settings and current/historical status. All settings are configured in the administrator mode of QubeVu Manager.



Figure 4-6. Extract Data

- Select  to refresh.
- Select  to perform a manual export.
- Select the ruler icon  to return to normal operating mode.

4.1.5 Restart

Select **Restart** for confirmation before restarting the device. Select to confirm or to cancel the process.

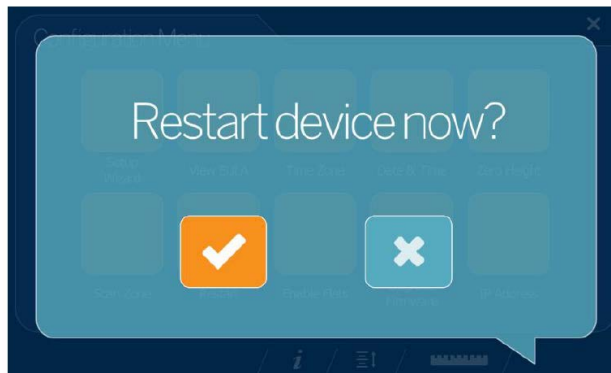


Figure 4-7. Restart

4.1.6 Upgrade Firmware

Updated firmware may be available at www.ricelake.com. When upgrading the unit, the firmware release must be downloaded to a USB drive.

1. Select **Upgrade Firmware**.
2. Attach the USB drive to the iDimension Plus USB port. Select to continue.
3. Firmware upgrade files contained on the USB drive are displayed.
4. Select the firmware upgrade required. Select to continue.

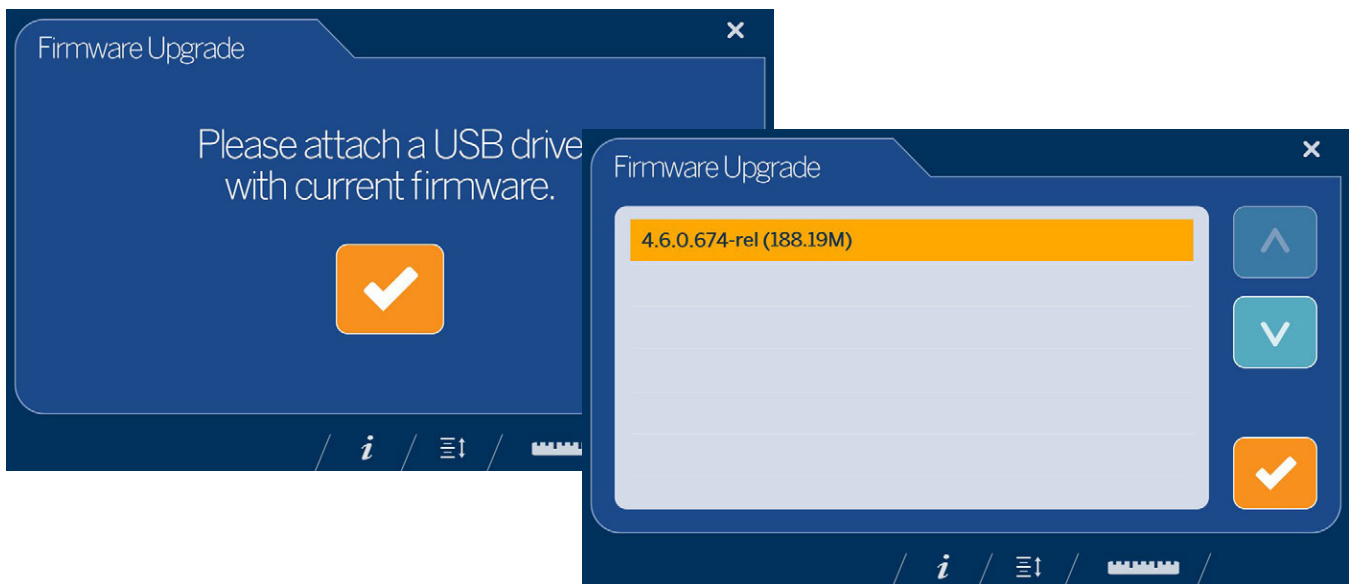


Figure 4-8. Connect USB Drive to Upgrade Firmware



NOTE: The firmware update is copied from the USB drive to the iDimension Plus. The file checksum is used to validate the file.

Uploading firmware. Please do not interrupt QubeVu during the upload process.

Uploading Firmware

Calculating checksum
Loading

Calculating Checksum

Uploaded file checksum:
d74acd020a469cacaf96715568b8bfb965636f17
Proceed with firmware update?

Uploaded File Checksum

Figure 4-9. Firmware Uploading Messages

- Select at the message **Uploaded file checksum** to proceed with upgrade. The update process takes a few minutes. Do not interrupt the process. The iDimension Plus reboots upon completion.

 **NOTE:** Select to cancel the process.

4.1.7 IP Address

The IP address displays the current IP address defined by the system administrator or network. Use the displayed IP address to configure the network port to access the Administrative QubeVu Manager software for full system setup and configuration.

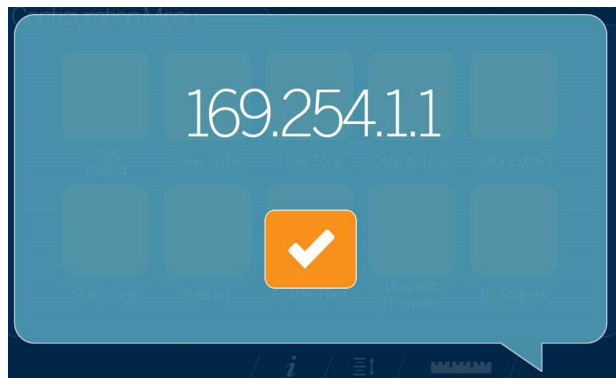


Figure 4-10. IP Address

4.2 Device Information

Provides access to a weights and measures inspector and important information about the device.

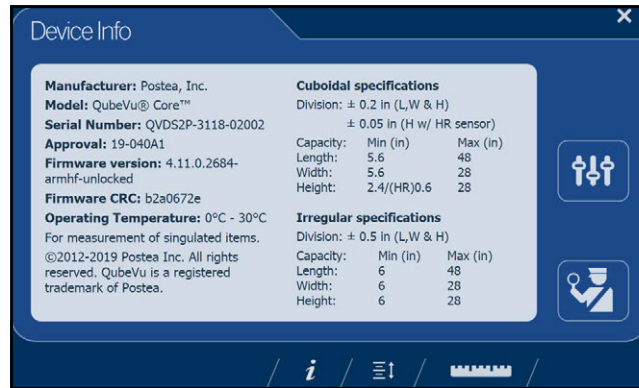



Figure 4-11. QubeVu Inspector Device Information Tab

Select the ruler icon  to return to the normal operating mode.

4.2.1 Device Information Key

The **Device Information** function key  displays the **Device Info Menu**.

Press  to enter into the **Device Info** menu on the USB touchscreen display. The menu provides access to a weights and measures **Inspection** menu and **Configuration** menu for setup of standard user functions (Section 4.2.2).

4.2.2 Weights and Measures

This screen must be accessed by a local weights and measures inspectors for Legal-for-Trade devices using category 3 audit trail.



From the **Device Info** menu, select the **Inspection** button .



Figure 4-12. Inspection Menu





Certification Change Log

The **Certification Change Log** provides a log of configuration and calibration changes for weights and measures inspectors.



Date	#	Type	Name	Old	New
26Jul2019_13:38	203	CONFIG	CertifiedDivision	5	0.2
26Jul2019_13:38	203	CONFIG	CertifiedCuboid		19-040A1
26Jul2019_13:38	203	CONFIG	CertifiedCuboid	mm	in
26Jul2019_13:38	203	CONFIG	CertifiedCylinder		NTEP
26Jul2019_13:38	203	CONFIG	CertifiedOperationNote		For measurement c singulated item
26Jul2019_13:38	203	CONFIG	CertifiedCuboid	false	true
26Jul2019_13:38	203	CONFIG	CertifiedRegular	false	true
26Jul2019_13:38	203	CONFIG	CertifiedMaxLengthIrregular	1200	48
26Jul2019_13:38	203	CONFIG	CertifiedMaxWidthIrregular	700	28
26Jul2019_13:38	203	CONFIG	CertifiedMaxHeightIrregular	700	28
26Jul2019_13:38	203	CONFIG	CertifiedMinLengthIrregular	40	6
26Jul2019_13:38	203	CONFIG	CertifiedMinWidthIrregular	40	6
26Jul2019_13:38	203	CONFIG	CertifiedMinHeightIrregular	0	6
26Jul2019_13:38	203	CONFIG	CertifiedDivisionIrregular	5	0.5

Figure 4-13. Certified Change Log

- Use  or  arrows to scroll through the log
- Select the ruler icon  to return to normal operating mode
- Select  to return to the previous screen

Transaction Log

For specific applications and International approvals requiring long term storage, audit trail must be configured in the QubeVu Manager **Measurement Settings** tab. If not configured, **No LTS data is available** displays.

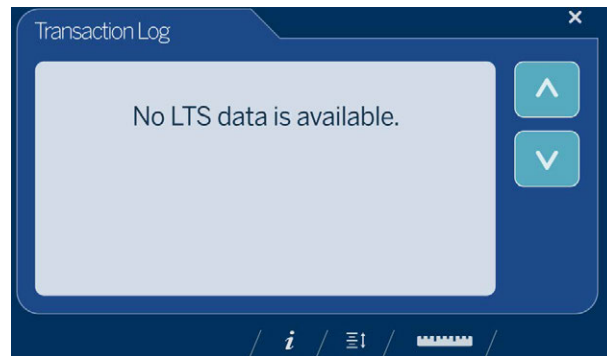


Figure 4-14. Transaction Log

5.0 Use and Operation

For iDimension Series use and operation information, see the following sections:

5.1 Measurement Capabilities

When reporting dimensions of an item, the device defines length, width and height as follows:

- Length – Longer of the two horizontal measurements
- Width – Shorter of the two horizontal measurements
- Height – Vertical measurement

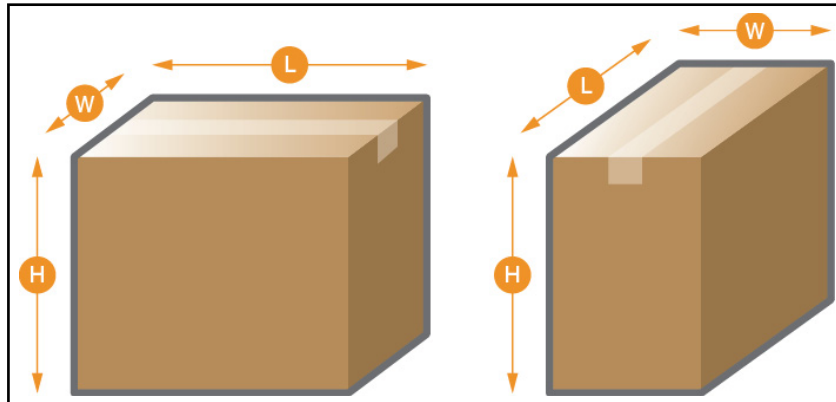


Figure 5-1. Object Measurements

The iDimension Series has been tested and approved with an OIML & MID certified accuracy of ± 5 mm on regular shaped items. See [Section 9.0 on page 49](#) for additional specification information.



NOTE: Minimum and maximum certified capacities do not reflect certified performance specifications. Contact Rice Lake Weighing Systems for details.



NOTE: When a scale is used on top of the base plate, it reduces the maximum object size available since it reduces the distances between the scanning head and base plate.

5.1.1 Flats

Dimensioning objects smaller than 1.2" (3 cm) in height requires the following:

- Selection of the correct configuration profile ([Section 2.4 on page 14](#))
- A connected scale or use of the **Disk Finder** feature.

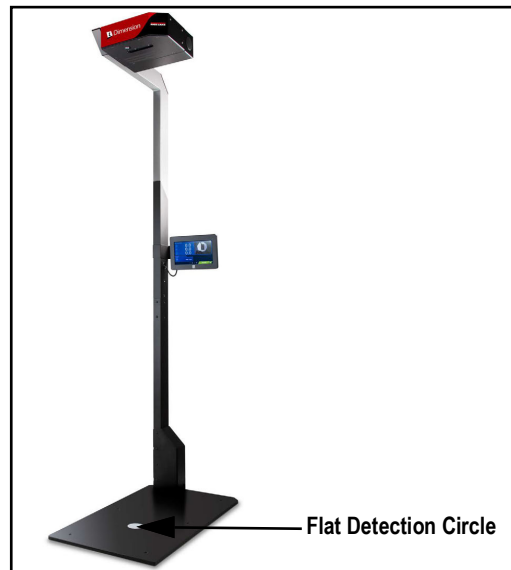


Figure 5-2. Flat Detection Circle

5.1.2 Object Types

The iDimension Plus is factory configured to dimension both cube (rectangular) and irregular shaped objects. Irregular shaped objects are dimensioned as rectangles around the shape.

See [Table 5-1](#) for an example of how and what types of shapes the iDimension Plus will measure.
















Shape	Description	Shape	Description
	Standard cube		Cube with a sloped side
	Cylinder		Cube with one irregular side
	Donut		Overstuffed cube
	Sphere		Crumpled cube
	Polybag		Cube with handles
	Tube		Cube on a cube
	Triangular tube		Cube next to a cube
	Cube with an uneven top		

Table 5-1. Irregular Shapes

Item Placement

For best results, centrally place the item below the scanning head. If the **Zone of Interest** or **Work Area** are configured too small, errors may occur.

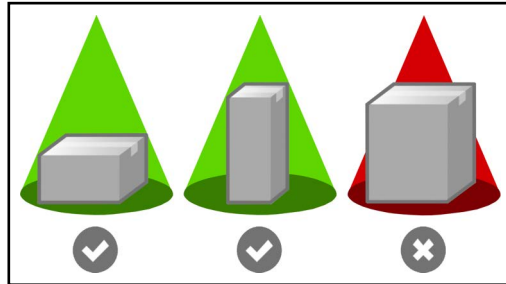


Figure 5-3. Item Placement

The maximum size of an item to be dimensioned varies due to the camera's field of view.

5.2 Performing A Measurement

This section provides an overview of how to perform a measurement.

5.2.1 Automatic Package Detection

1. To dimension, the iDimension Plus must be in a **Ready** status and the scale, if used, is at zero weight.

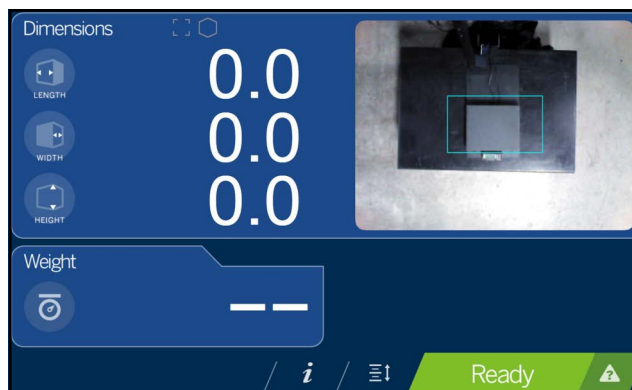


Figure 5-4. Ready Status

2. Place object within the **Zone of Interest**. Once the scale has settled and there is no motion within the **Work Area**, the iDimension Plus will provide the dimensions, weights and image of the package with a blue bounding box representing the measurements displayed.



NOTE: To enable Manual Trigger Mode, attach an optional bar code scanner or use a third-party software to trigger a dimension.

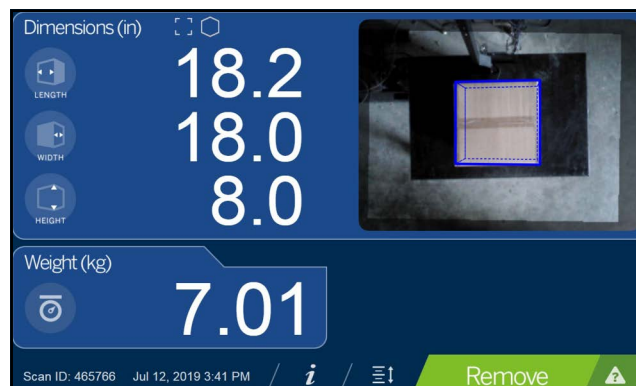


Figure 5-5. Zone of Interest

- Remove the object. The system returns to the **Ready** status.



Figure 5-6. Ready Status

- If the system does not return to the ready state, select the **Help** function key on the USB display (Section 3.1.5 on page 18) follow the instructions to return the iDimension Plus to the **Ready** status.

Item Out of Bounds

The system will provide an out of bounds alert if trying to dimension an object that is too large for the field of view. Use the out of bounds indicator to determine if reposition is required.



Figure 5-7. Out of Bounds Flat Detection Circle



NOTE: See Section 2.3 on page 14 to adjust the scan zone.

6.0 Network Connection

iDimension Plus is installed as a network device and supports both static and dynamic IP configuration. DHCP is enabled as default, however, it also has a fixed, failsafe IP address of 169.254.1.1 which can be used for initial setup and configuration.

Configuring the iDimension Plus uses the embedded firmware, QubeVu Manager, which is accessed via an IP address over a wired Ethernet connection through a web browser.



Figure 6-1. QubeVu Manager



6.1 Connection

If using DHCP, connect the iDimension Plus to the network and follow the instructions in [Section 6.2](#) to determine the IP address. Alternatively, contact your local IT Department.

If using a static IP address, connect the iDimension Plus directly to a laptop or PC and follow the instructions in [Section 6.3 on page 33](#).

6.2 DHCP Connection

To connect via DHCP, see the following information:

1. Connect the Ethernet cable to the back of the iDimension Plus and to the network.
2. Power on the iDimension Plus.
3. The network assigns an IP address.
4. To identify the IP address assigned from the touchscreen display, select the **Device Information** function key .
5. From the **Information** menu, select the **Configuration Menu** function key  to access the configuration menu.
6. Select the **IP Address** button, document the IP address.
7. Open a web browser, Google Chrome is the recommended web browser, type in the IP address into the web browser, the QubeVu Manager menu displays.
8. See [Section 7.4 on page 40](#) for advanced network adapter settings.

6.3 Static IP Connection

To connect via the static, failsafe IP, use the following steps.

1. Connect a laptop/PC directly to QubeVu using a standard Ethernet cable.



NOTE: It is important this is a direct connection with no hubs/switches in between.

2. Configure the Ethernet port on the laptop/PC with the following IP settings:
3. IP Address: 169.254.1.10
4. Subnet mask: 255.255.0.0
5. Confirm connectivity by pinging 169.254.1.1
6. If ping is successful, QubeVu Manager should be accessible at <http://169.254.1.1>

The 169.254.1.1 failsafe address is intended for use during initial setup to access QubeVu Manager and facilitate configuring a static IP address. See [Section 7.4 on page 40](#) for advanced network adapter settings.

6.4 Admin Tools Menu

Admin Tools are used for configuring, calibrating, defining, upgrading, backing up and running diagnostics on the system.

Use the following steps to enter the **Admin Tools** menu.

1. From the QubeVu homepage, select  **Admin Tools** to log in.
2. The default user name is **admin** and the default password is **password**.
3. Select desired tool within the **Admin Tools** menu.

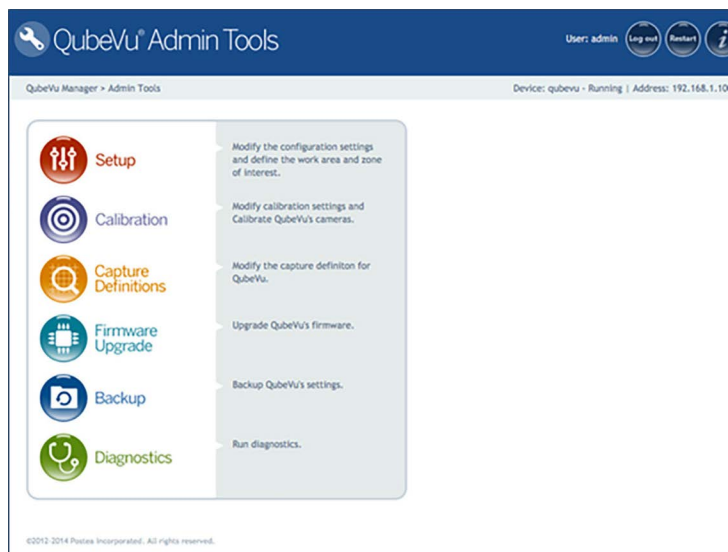


Figure 6-2. Admin Tools Menu

Parameter	Description
Setup	Configuration settings, define Work Area and Zone of Interest (Section 4.0 on page 21)
Calibration	Calibration settings, calibrate cameras, time and date, data extraction and long term storage (Section 7.0 on page 35)
Capture Definitions	Capture definitions for QubeVu
Firmware Upgrade	Update firmware
Backup	Backup and restore settings; See the iDimension Plus QubeVu Managers Guide (PN 195441) for additional backup details
Diagnostics	Diagnostics settings (Section 9.1 on page 49)

Table 6-1. Admin Tools

6.4.1 Edit/Cancel/Save Keys

While in **Admin Tools** menus, **Edit**, **Cancel** and **Save** keys are active and are found on the right side of the screen the screen.

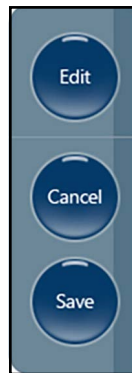




Figure 6-3. Edit/Cancel/Save Keys

Edit


Select  to make changes to the Admin Tools settings. This displays while in the general setting mode and calibration menu.

Change the settings, then select  to continue.

Cancel

Cancels all edits made to all tabs, unless saved.

Save

 saves all changes made during the edit process within the page and a sub menu tab. Upon save, the unit may restart and return to the home screen.

7.0 Setup

This section provides an overview of iDimension Plus setup instructions, using QubeVu Manager.

For complete QubeVu Manager setup instructions, see the iDimension Plus QubeVu Managers Guide (PN 195441).

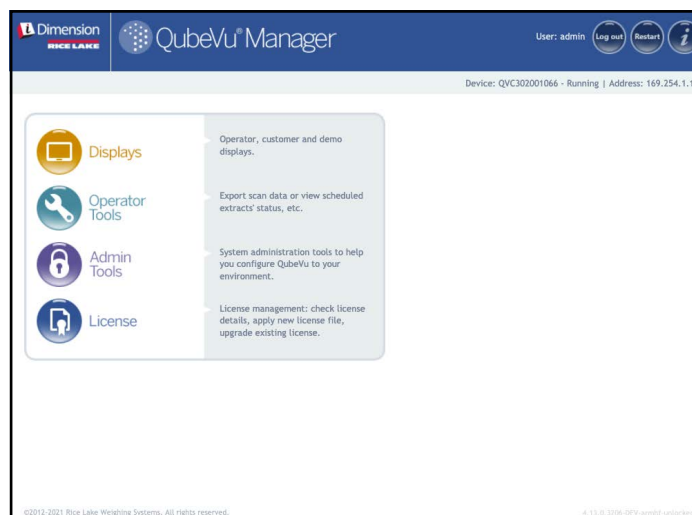


Figure 7-1. QubeVu Home

7.1 Setup Menu

Use the following steps to navigate to the setup menu.

1. From the QubeVu Manager menu, select  Admin Tools.
2. The QubeVu Manager login screen displays. The default username is **admin**. The default password is **password**.

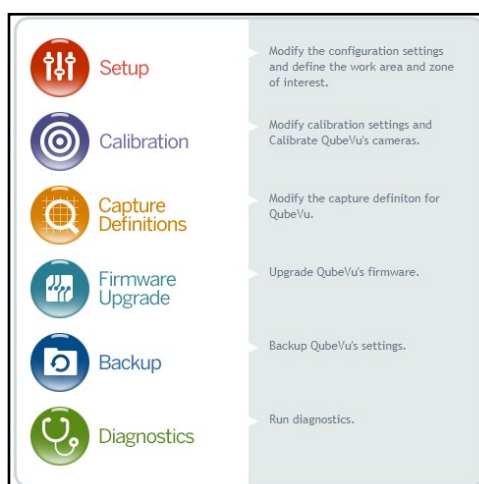


Figure 7-2. QubeVu Setup

3. Select  Setup.

7.2 General Settings




1. From the QubeVu Manager menu, select  Admin Tools.
2. The QubeVu Manager login screen displays. The default username is **admin**. The default password is **password**.
3. Select  Setup.
4. Select  General Settings.



Figure 7-3. Setup – General Settings

7.2.1 General Settings Parameters

Default factory settings are shown in [Figure 7-4](#) and [Table 7-1](#)

General Settings

High resolution camera: On Off

Auto trigger flats: On Off

Auto trigger parcels: On Off

Logging level:

Self recovery: Off
 Restart
 Reboot

Figure 7-4. General Settings

Parameter	Description
High Resolution Camera	Enables or disables the high resolution camera; NOTE: High resolution cameras are not present in all models. High resolution image capture is controlled by the Capture Definitions
Auto Trigger Flats	Determines if the capture (dimensions, weight, image) is automatically triggered for items classified as flats; On = capture initiated when a flat item is placed in the Work Area , item is stable and a stable weight has been received from a connected scale, default
Auto Trigger Parcels	The default setting is On ; A parcel is defined as a package that is determined automatically at 85% or higher in a cuboid score
Logging Level	The default setting is Info ; Changing to error or debug will increase the amount engineering and performance information stored in the diagnostics and log files shown in "ipaddress/log" command
Self Recovery	The default setting is Reboot ; Off – System will not perform a self recovery; Restart – If the system has determined a critical error state, the unit will perform a restart of the software and returns the system to normal mode; If an object is under the device during a reboot, Wait will be displayed on the USB display; Clear the platform to return to ready state; Reboot – If the system has determined a critical error state, the unit will perform a reboot, an automatic power cycle that clears the error and returns the system to normal mode; If an object is under the device during a reboot, Wait will be displayed on the USB display; Clear the platform to return to ready state; If the scale is receiving power from the USB port, check to make sure the scale is on and working properly

Table 7-1. General Settings Parameters

7.2.2 Scale

The iDimension Plus is designed to directly interface to common shipping scales. Each scale has unique interface protocols that are designed to work with common shipping systems.

Refer to the manufacturers manual to determine the available “protocols” to choose from.

The iDimension Plus provides a USB port for connecting the scale. Some scale manufacturers may vary on the compatibility and capabilities of protocols for a scales with RS-232 or USB connections.



NOTE: A scale with USB HID is a standard Windows and USB.org protocol that works with scales when displaying weight lb or kg. If a Postal Scale displays weight in lb/oz, the USB HID protocol does not function.

If the scale is equipped with only an RS-232 port, a compatible FTDI RS-232/USB Converter (PN 178501) is required.

Figure 7-5. Scale Settings

Parameter	Description
Scale Type	Selectable from a drop-down list: Auto – Upon Start-up or reset, the iDimension Plus automatically attempts to identify a scales factory default settings; It is recommended to use one of the scale manufacturers; USB HID scales are not supported None – No scale is connected External – Requires advanced integration using iDimension Plus API; With no scale connected USBHID* – A compatible scale using scale using USB HID protocol; See Comms parameter Mettler Toledo – A scale configured for the Mettler Toledo Standard protocol MTSICS –A scale configured for using the (Mettler Toledo Standard Interface Command Set) NCI – A scale using the Avery Weigh-Tronix/NCI protocol; For Rice Lake BenchPro Postal Scales, use this setting for scales in lb/oz mode Pennsylvania7300 – The Pennsylvania 7300 scale is used
Communication Parameters USB RS-232	Enter the RS-232 parameter settings of the scale selected; See the scale manufacturers operator’s manual for instructions: Baud Rate – 1200, 2400, 4800, 9600, 14400, 19200, 38400, 57600 and 115200 Parity – None, Odd, Even Bits – 5,6,7,8,9 Stopbits – 1, 1.5, 2 <i>Example: 9600,N,8,1</i>
Communication Parameters USB HID	The following is a list of Compatible USB HID scales including the Vendor ID and product ID; The following example is for a Rice Lake BenchPro Scale; 1C19 is the vendor ID and 0002 is the product id; Use a comma to separate the values (Table 7-3) <i>Example: 1C19,0002</i>

Table 7-2. Scale Parameters

Manufacturer	Model	Vendor ID	Product ID
Rice Lake Weighing Systems	BenchPro Series	1C19	0002
Fairbanks Scale	Ultegra Series	0EB8	0x555e
Mettler Toledo	PS / BC Series	0922	F000
Dymo Costar	M10	0922	8003
Dymo Costar	S50	0922	8007

Table 7-3. Scale Manufacturer Information






NOTE: If the required scale is not listed, contact Rice Lake Weighing Systems to purchase a BenchPro scale.

Parameter	Description
Use Scale Stable Status	Use Scale Stable determines when iDimension locks the displayed weight and dimensions on the touchscreen display. Dimensions are locked and the remove state is displayed using both the scale stable reading and iDimension filter Scale+QubeVu – This is the default factory setting and is recommended for use; QubeVu – Dimensions are locked and remove is displayed without checking if the scale is stable; Using this feature may provide incorrect weight on the display; Not recommended for use; Scale – Dimensions are locked and remove is displayed when the scale has returned a stable reading to the iDimension; Not recommended for use, this may increase the remove state to more than 3 seconds
Wait Timeout (ms)	The time in milliseconds the dimensions wait for the scale to return a stable weight; System timeouts and does not return to the remove state; Increase this settings if the scale is in an unstable environment
Scale Delay (ms)	The time in milliseconds in which the iDimension requests a weight from the scale; Increase this setting to 500 ms to allow the weight on the scale to stabilize, if experiencing incorrect weights being displayed on the iDimension vs the scales display

Table 7-4. Use Scale Stable Status Selections

7.3 Language Setup

- From the QubeVu Manager menu, select  Admin Tools.
- The QubeVu Manager login screen displays. The default username is **admin**. The default password is **password**.
- Select  Setup.
- Select  Display Settings.
- Select the desired language from the Language to Display drop-down menu (see Figure 7-6).

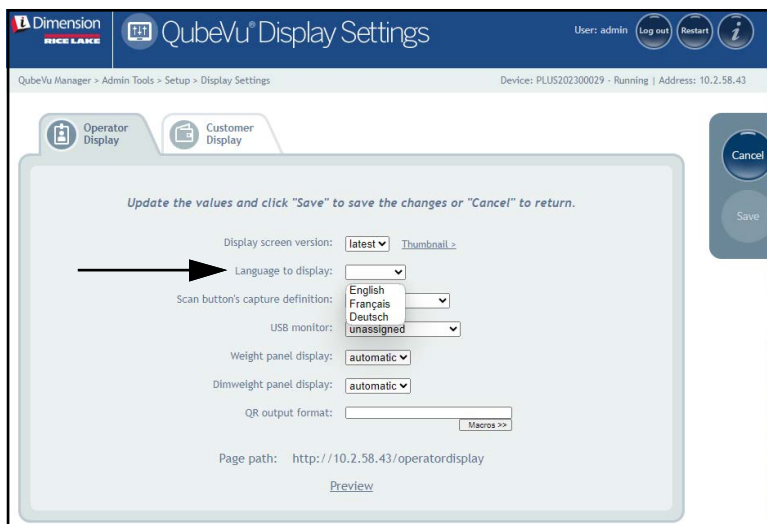



Figure 7-6. Language Setup

- Select  Save to continue.

7.4 Network

Use the **Network** tool to define network settings.

Press  **Network** while within the **Setup** menu.

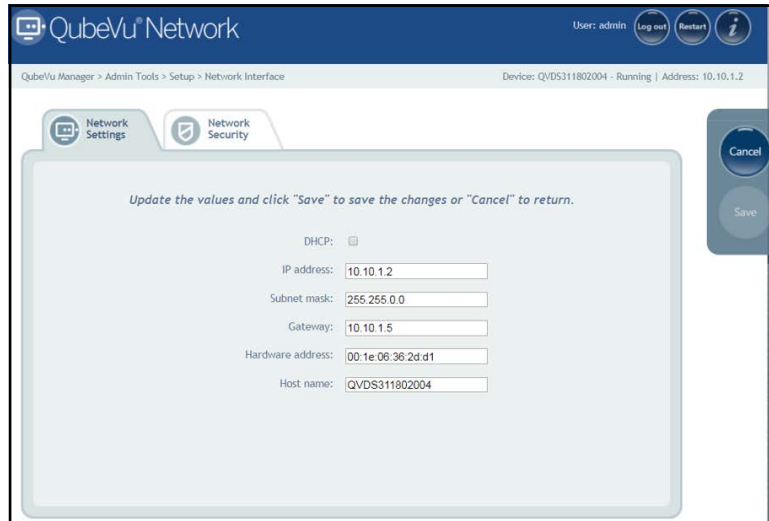


Figure 7-7. Network Interface Settings

Enter or modify the network settings for the enterprise network.

Parameter	Description
DHCP	Have the network administrator verify if the iDimension Plus is to be set up on the network using the Dynamic Host Configuration Protocol (DHCP); If DHCP is checked, a unique Host Name for this device must be defined; The name is used to access the device from the Manager Tools in the future; A host name can be up to 15 characters <i>Example: http://<hostname>/</i>
IP Address	If DHCP is checked, do not enter an IP address; If DHCP is not checked, define a unique IP address for each iDimension Plus is installed; Default IP address: 169.254.1.1 Consult with the network administrator if unsure how to assign a new IP address; If using fixed IP addresses, access iDimension Plus by the hostname or the IP address: <i>http://<hostname>/</i> <i>http://<ip address>/</i>
Subnet Mask	Default subnet mask: 255.255.255.0 ; Consult the network administrator for the correct setting
Gateway	Default gateway: 0.0.0.0 ; Consult the network administrator for the correct setting
Hardware Address	Do not modify; Each iDimension Plus has been assigned a unique hardware address
Host Name	The default host name is the alphanumeric portion of the device serial number; A unique host name may be defined for each device; Up to 15 characters are allowed for the Host Name

Table 7-5. Network Interface Parameters

7.4.1 Network Security

Network Security settings allow enhanced security by encrypting communications with the iDimension Plus using the Hypertext Transfer Protocol (HTTPS). By default, communication with the iDimension Plus is via HTTP.

- Select the **Network Security** tab to display the current settings
- Click on **Enable HTTPS** to enable HTTPS
- Click **Browse** to select your SSL key and cert files, then Upload
- Select **Upload** to transfer the information from the PC to the iDimension Plus



NOTE: SSL certificates are not supplied by Rice Lake Weighing Systems. Contact your IT Department for further information.

The screenshot displays the 'Network Security' configuration interface. At the top, the user is logged in as 'admin' with options for 'Log out' and 'Restart'. The breadcrumb trail indicates the path: 'QubeVu Manager > Admin Tools > Setup > Network Interface'. The device information is 'QVC311901050 - Running | Address: 169.254.1.1'. The 'Network Security' tab is active, showing a list of fields for an SSL certificate: Public key algorithm, Issuer, Subject, Validity, Usage, Thumb print algorithm, and Thumb print. Below this, there is an 'Enable HTTPS' checkbox. The 'Upload new key and certificate' section contains two 'Choose File' buttons for 'Key file' and 'Cert file', a 'Key pass phrase' input field, and an 'Upload' button. On the right side, there are 'Cancel' and 'Save' buttons. The footer contains copyright information: '©2012-2019 Postea Incorporated. All rights reserved.' and a version number '4.11.0.2684-ammf'.

Figure 7-8. Network Security



NOTE: With HTTPS enabled, both the HTTP and the HTTPS addresses are available.

8.0 Calibration

This section provides an overview of iDimension Plus calibration instructions.

The calibration menu provides access to the following information:

- Calibration settings for the **Work Area** and **Zone of Interest** configuration
- Camera calibration – if required, calibrates the iDimension Plus using the calibration object

8.1 Calibration Settings

The calibration settings include configuration of the **Work Area** and **Zone of Interest**.

8.1.1 Work Area

The **Work Area** represents the area around the base used for detecting motion. The system waits until there is no motion detected before attempting to scan an item.

The **Work Area** also provides a maximum area for the detection of flats (items less than 1.2" in height) and irregular objects. Flats and irregular objects must fit completely within the **Work Area** in order to be detected.

When configuring the **Work Area**, this area should be clear of objects that would affect dimensioning performance.

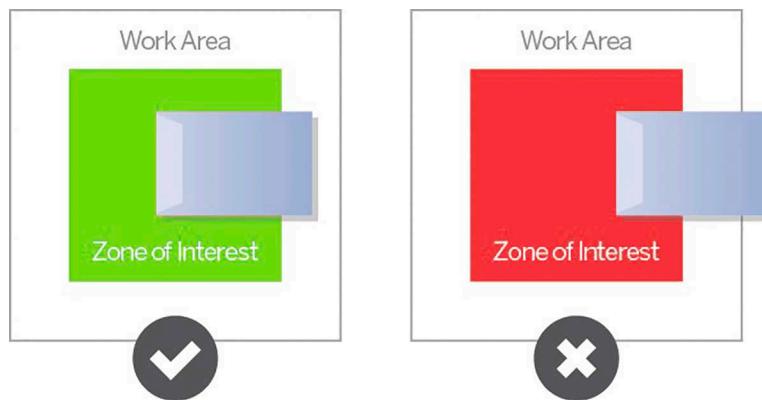


Figure 8-1. Flat Work Area



IMPORTANT: Figure 8-1 is for flats and irregular objects only. Parcels are dimensioned even if part of the item is outside of the Work Area.

8.1.2 Zone of Interest

The **Zone of Interest** represents the detection area to be used for item dimensioning. Items must be placed at least partially within the **Zone of Interest**.

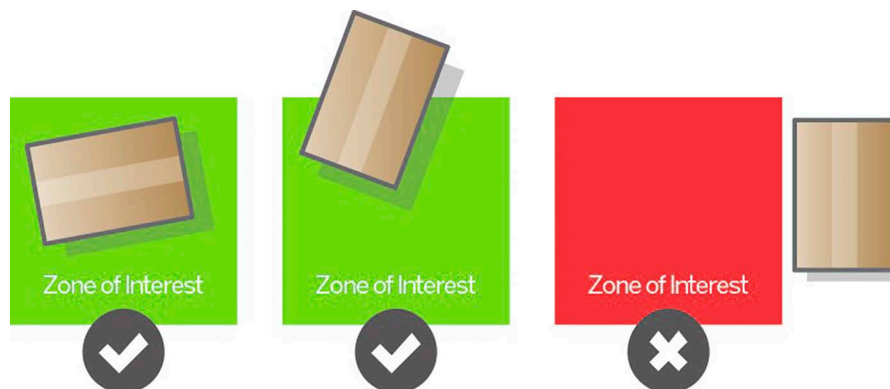


Figure 8-2. Zone of Interest



NOTE: If the background of the dimensioning area is reflective, adjust the Zone of Interest to approximately 3" x 3".

8.1.3 Zone of Interest Configuration Mode

To review the current camera calibration settings within QubeVu, see the following procedure:

1. From the **Admin** menu, select  Calibration to enter the setup menu.



Figure 8-3. Admin Tools

2. Select  Calibration Settings to set parameters within the **Calibration Settings** tab.



Figure 8-4. Calibration Menu

3. Select the **Zone of Interest** tab.

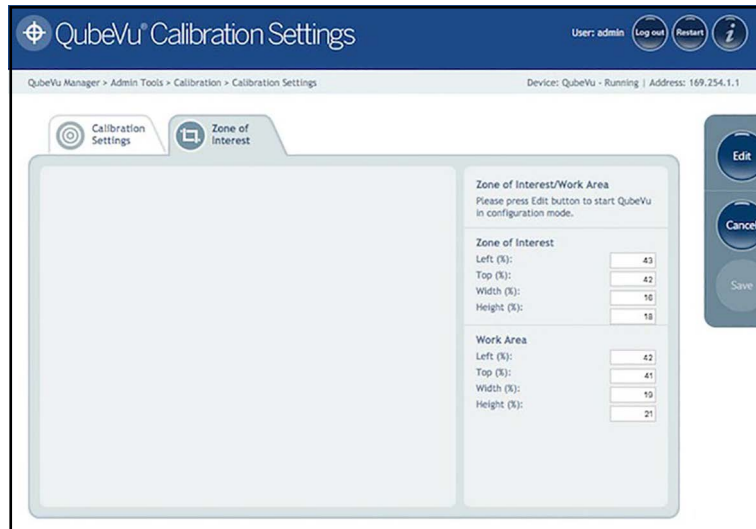



Figure 8-5. Zone of Interest Tab

4. Select  to switch to configuration mode. This may take a few minutes while the device resets.

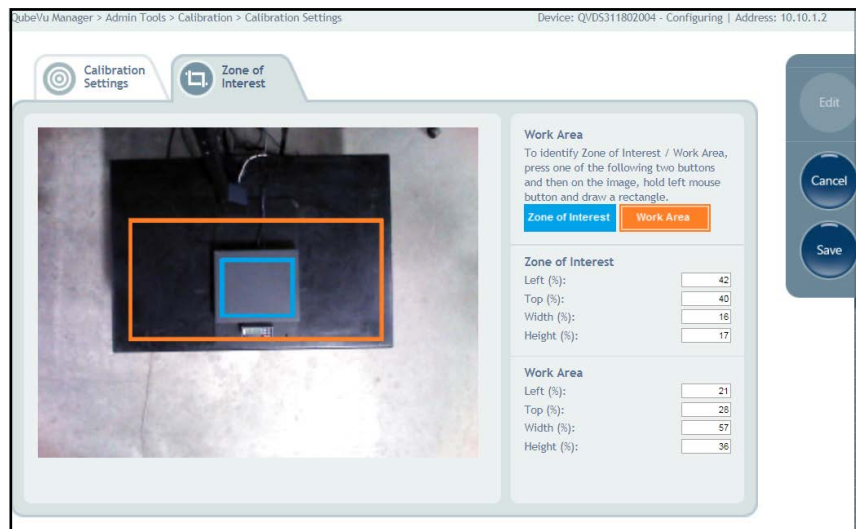







Figure 8-6. Zone of Interest Tab

 **NOTE: Modifying the Zone of Interest and Work Area is required if the height of the scale has been changed or if a scale has been added or removed from the operation.**

5. Once the system has successfully entered into the edit and configuration mode, a live image will be displayed. Select  or  and hold the mouse over the image to create new parameters.

 **NOTE: Ensure the Work Area is larger than the Zone of Interest.**

6. Select  to continue. The system restarts. Ensure the platform is clear of obstructions to return to the ready state.

8.2 Camera Calibration from QubeVu Manager

For camera calibration information, see the following procedures:

8.2.1 Camera Calibration

The system is factory calibrated however it may be required to perform a calibration if the system has moved to a different location, new scale is being used or the system is providing inaccurate dimensions.

Calibration requires the use of the included calibration object.

If using a scale, make sure the scale is centered between the marks on the base plate and place the calibration object on top of the scale platform.

If no scale is used, place the calibration object between the base plate mark.

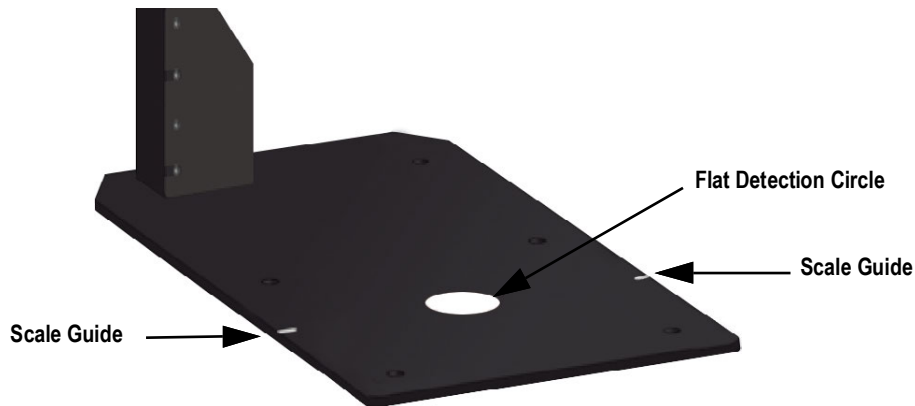


Figure 8-7. Base Plate Marks

To calibrate the camera, use the following steps:

1. From the **Admin** menu, select  Calibration.
2. Select  Camera Calibration. The **Camera Calibration** menu displays.
3. Select .
4. Select the **Depth Confidence** tab. A live image displays.

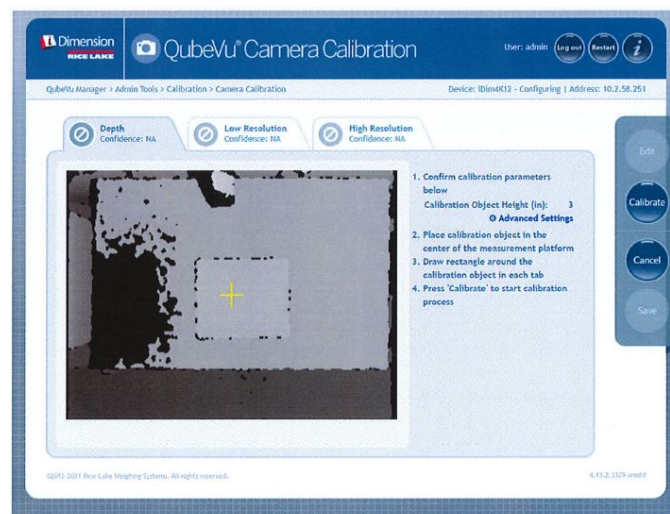


Figure 8-8. Depth of Confidence Tab

5. Press and hold the left mouse button and hover over the image to create a blue rectangle line around the calibration object.

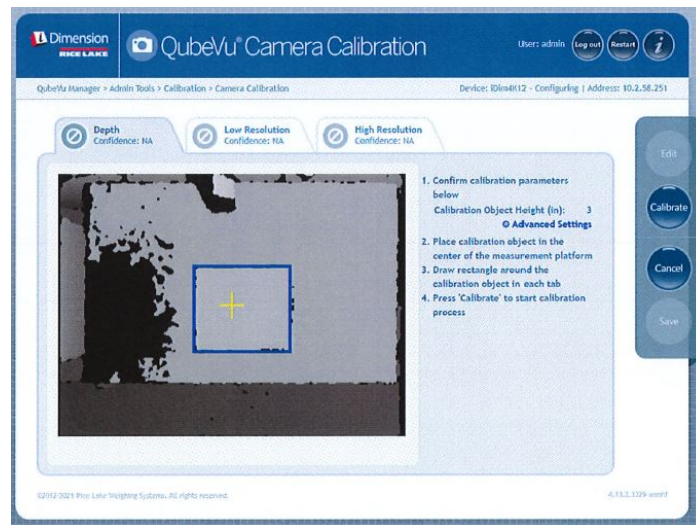


Figure 8-9. Calibration Object Bounds

6. Select the **Low Resolution** tab.
7. Press and hold the left mouse button and drag the mouse to draw a rectangle around the calibration object.



Figure 8-10. Low Resolution Tab

8. If a 4k model has been purchased, select the **High Resolution** tab.
9. Press and hold the left mouse button to drag the mouse to draw a rectangle around the calibration object.

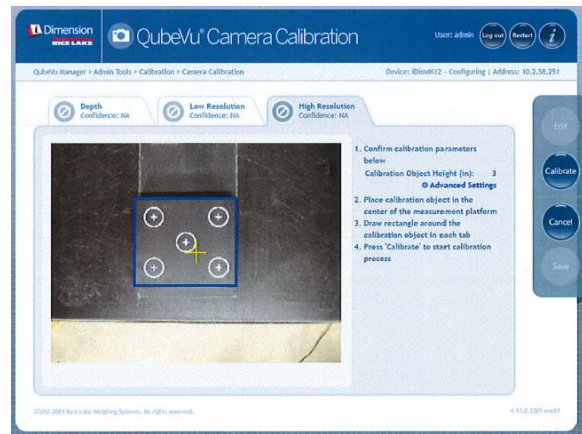






Figure 8-11.

10. Select **Calibrate**.  must display on each tab for the calibration to be successful.
11. Review each tab to ensure the calibration object was successfully captured and no other object had mistakenly been placed in the view of the camera.
12. Select . The unit automatically restarts to apply the camera calibrations.

Calibration Unsuccessful

If  displays, the calibration has failed. The red cross hairs out of alignment indicate they are out of alignment and a new calibration is required.

1. Select **Cancel** and perform a new calibration.
2. Redraw the rectangles within each available tabs.
3. Calibrate again until both tabs display .

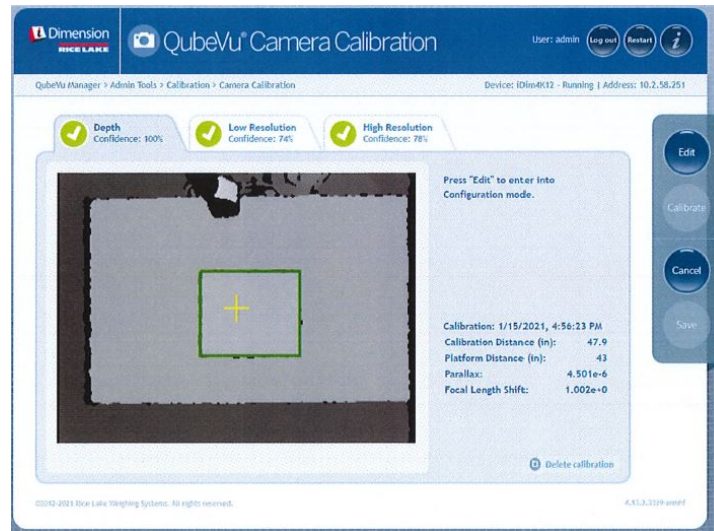


Figure 8-12. Calibration Not Success

If unsuccessful calibration continues, check for:

1. The dimensioning head is level.
2. Sunlight is not within the background and field of view of the camera.
3. Glare from overhead lights are within the background and field of view of the camera.
4. The workspace or background has too much clutter, or noise from other objects.

9.0 Appendix

This section provides an overview of additional iDimension Plus instructions.

9.1 Diagnostics

This section provides an overview of iDimension Plus diagnostics instructions.

The **Diagnostics** tools can be used to test hardware components and gather diagnostic information.



NOTE: The Administrator defined a username and password during the initial setup process. The username and password are required to log into and access the iDimension Plus Admin Tools.

9.1.1 Diagnostics Menu

The **Diagnostics** menu provides tools to help troubleshoot the device.

From the **Admin** menu, select  **Diagnostics** to enter the diagnostics menu.

The **Diagnostics** menu has four tools used for testing hardware and providing information about the system.

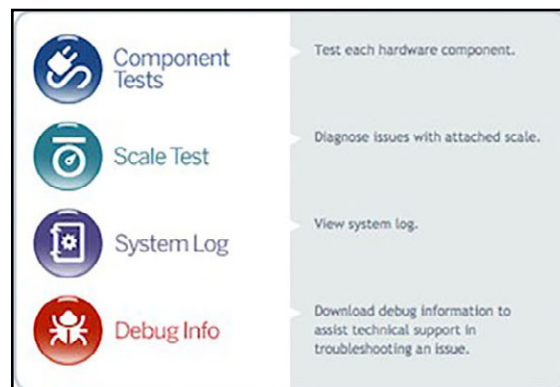



Figure 9-1. Diagnostics Menu

9.1.2 Component Tests

The **Component Tests** menu is used to test hardware components individually or all at once.

- Select **Test All** to test all hardware components; If a scale is connected the camera level test will fail
- Select  to test individual components

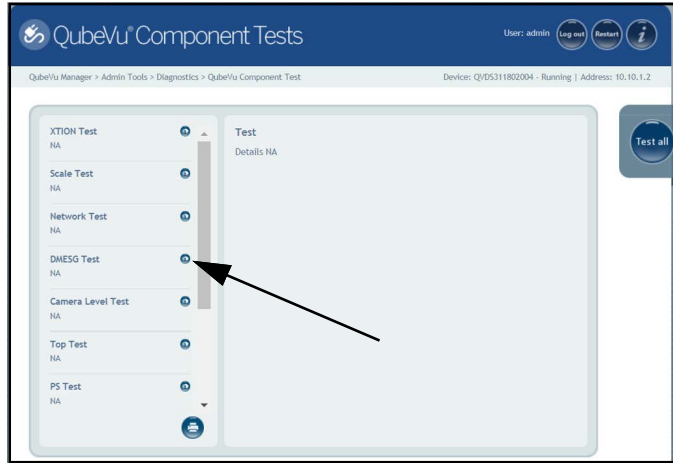


Figure 9-2. Component Tests

The status of each individual component is returned as either **Passed** or **Failed**. Additional details can be viewed by selecting the test name.



Figure 9-3. Component Test Successful


Table 9-1 lists common troubleshooting tests to run:

Field Test	Description
Depth Sensor	Tests the main sensors to determine operating status
High-res Camera	Tests the high resolution camera to determine operating status
Scale	Tests the scale is communicating using the scale parameters configured in Admin Tools > Setup > General Settings
Network	Tests the network link speed. Failure is indicated when the link speed is < 1000Mb/s
DMESG	Displays information on low-level hardware components
Camera Level	Manufacturing test; Not intended for field use
Top	Displays information on CPU and memory utilization
PS	Displays information on running processes
Serial Number	Checks for a valid serial number and model
Port	Displays information on USB buses
Temperature	Displays the SBC temperature

Table 9-1. Component Test Descriptions

9.1.3 Scale Test

The **Scale Test** tool is used to help determine the communication settings of a serial scale attached to the iDimension Plus.

1. Select the **Serial Port** and **Scale Type** from the drop down lists.
2. Select  to start the test.

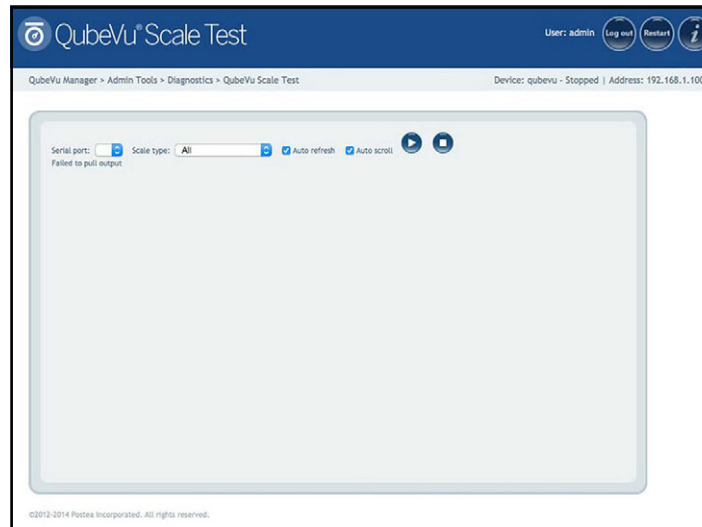


Figure 9-4. Scale Test

3. If a valid scale is detected, the output provides the scales communication parameters.

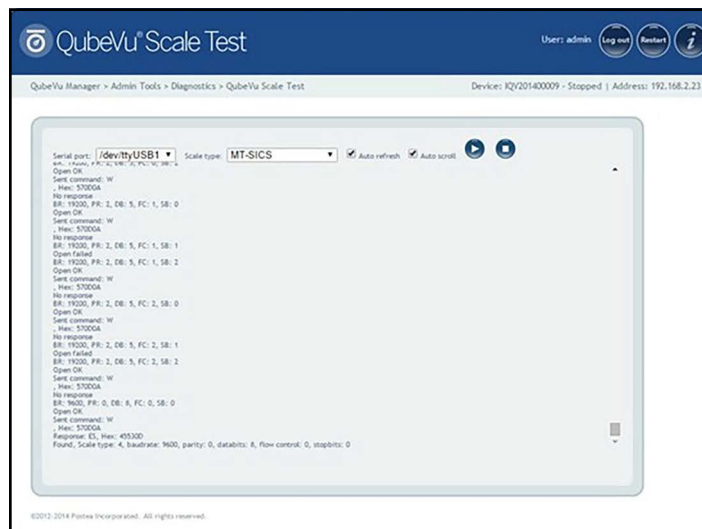


Figure 9-5. Scale Communication Parameters

9.1.4 System Log

The system log storage data is configured in the setup menu. For troubleshooting, the file may be required to be sent to the factory for engineering analysis and troubleshooting. The log view can be customized by type (view all or view info, debug or error messages only) or by order (view the latest first or the earliest first).

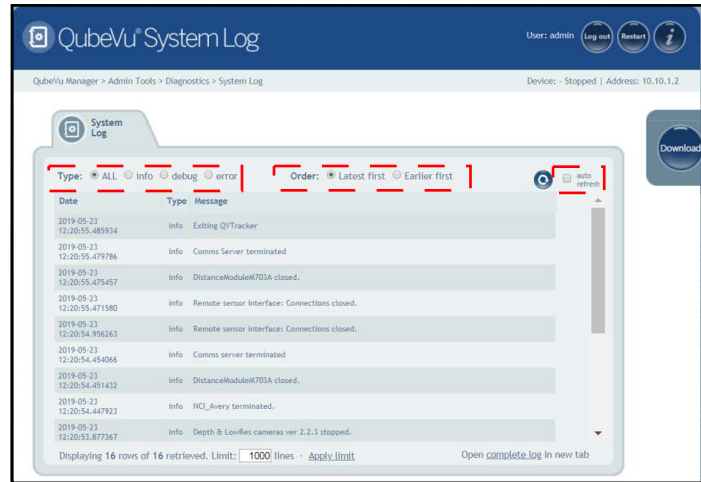


Figure 9-6. System Log

The log can be refreshed by pressing  or automatically refreshes by checking the auto refresh box.

To download the log to a CSV file, press **Download**.

9.1.5 Debug Info

The **Debug Info** is a file that provides engineering and trouble shooting information of the operation of the unit. This file may be requested for troubleshooting purposes. Select the desired information to be downloaded.

1. Press **Download** to save the file to the computer.

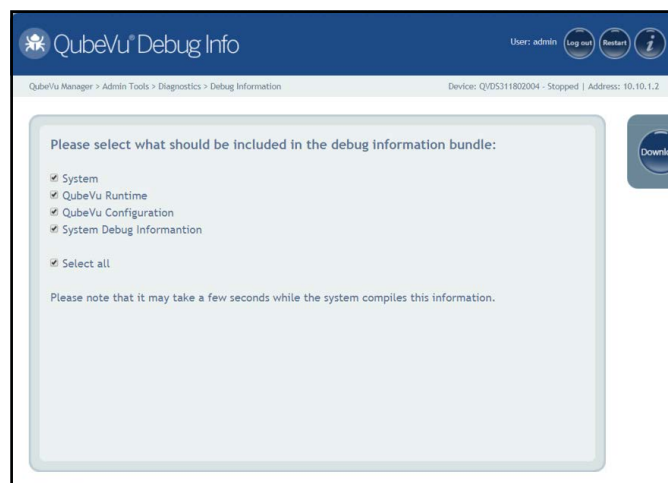


Figure 9-7. Debug Info

9.2 Troubleshooting

This section provides an overview of iDimension Plus troubleshooting instructions.

9.2.1 iDimension Plus Does Not Return to Ready State

1. Select  on the display.

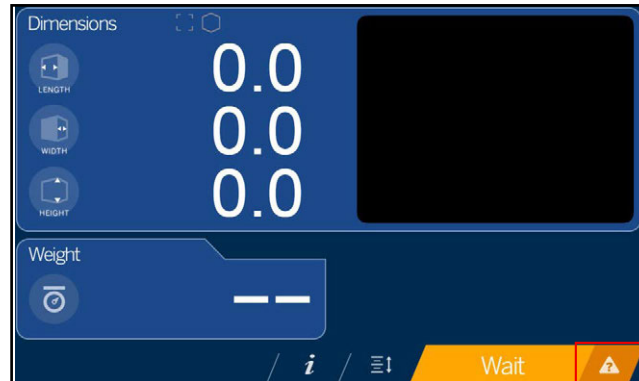


Figure 9-8. Help Button

2. Follow the provided help instructions to return the iDimension Plus to **Ready** state:
 - A. **Device status: STARTED** or **REMOVE** displays; Clear the scale of obstructions
 - B. Zero the scale

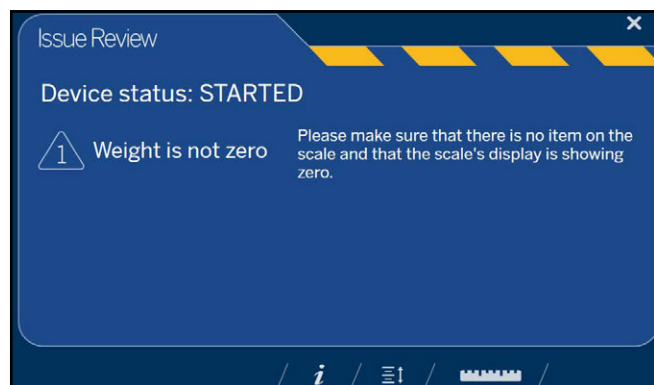


Figure 9-9. Device Status Started

- C. The iDimension Plus is zeroed

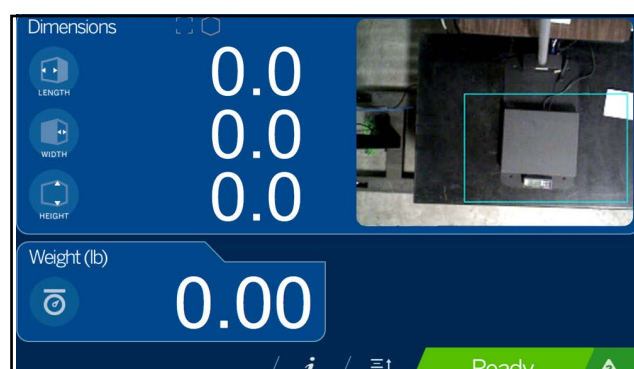


Figure 9-10. iDimension Plus Zeroed


9.2.2 iDimension Plus Display is Off or Blank

1. Check the power connection on the back of the iDimension Plus and the 120 V outlet.
2. Check USB connection on back of USB display.
3. Press the **Power** button on the back of the USB display.
4. Power cycle the iDimension Plus.
5. Check connection on scanning head.

9.2.3 iDimension Plus Display is Green

1. Check access to QubeVu Manager.
2. Connect a laptop/PC directly to QubeVu using a standard Ethernet cable. It is important this is a direct connection with no hubs/switches in between.
3. Configure the Ethernet port on the laptop/PC with the following IP settings:
 - IP Address: 169.254.1.10
 - Subnet mask: 255.255.0.0
4. Confirm connectivity by pinging 169.254.1.1
5. If ping is successful, QubeVu Manager should be accessible at <http://169.254.1.1>

9.2.4 iDimension Plus Display is Locked and Will Not Dimension

1. Power cycle the iDimension Plus from an AC Outlet.
2. Restart the iDimension Plus.
3. Select  on the touch screen display.

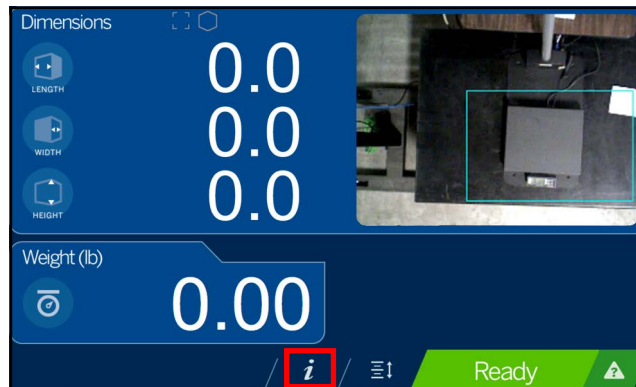


Figure 9-11. USB Display Touch Screen Not Functioning

4. Select .

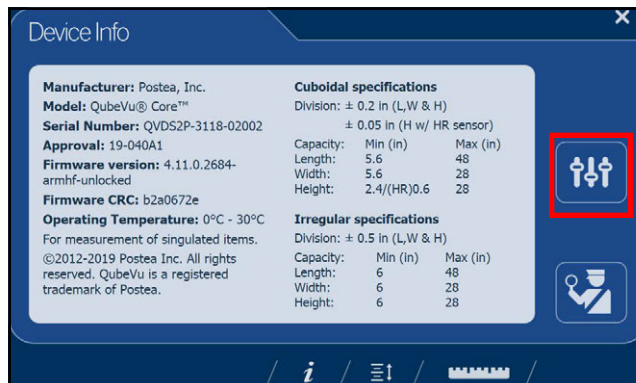


Figure 9-12. QubeVu Inspector Device Information Tab

5. Select **Restart**.

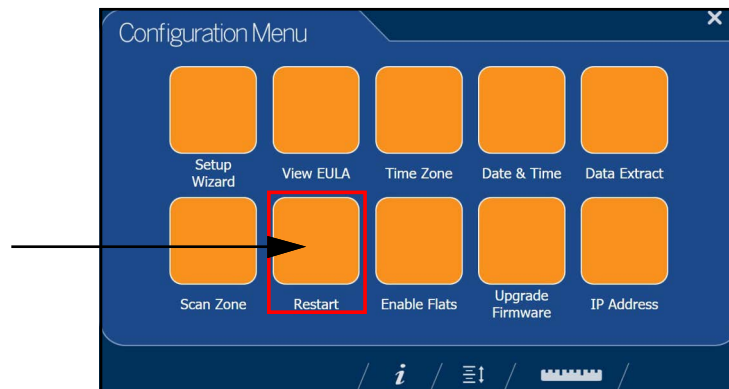


Figure 9-13. USB Display Touch Screen Not Functioning

6. Select  to restart the device.

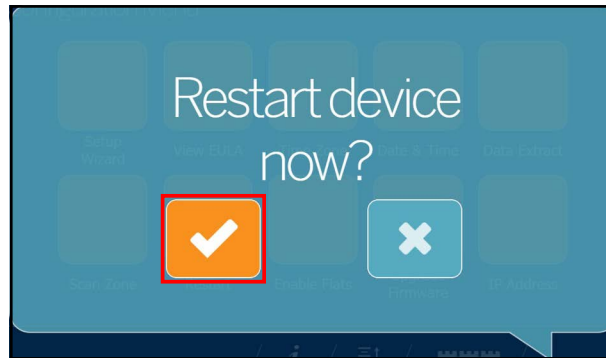


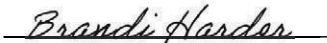


Figure 9-14. Restart Confirmation

7. The USB display will go to a green display and within 2 minutes return to the ready state.

10.0 Compliance

	EU DECLARATION OF CONFORMITY <i>EU-KONFORMITÄTSEKTLÄRUNG</i> <i>DÉCLARATION UE DE CONFORMITÉ</i>		Rice Lake Weighing Systems 230 West Coleman Street Rice Lake, Wisconsin 54868 United States of America 
	Type/Typ/Type: iDimension Plus		
English	We declare under our sole responsibility that the products to which this declaration refers to, is in conformity with the following standard(s) or other regulations document(s).		
Deutsch	Wir erklären unter unserer alleinigen Verantwortung, dass die Produkte auf die sich diese Erklärung bezieht, den folgenden Normen und Regulierungsbestimmungen entsprechen.		
Français	Nous déclarons sous notre responsabilité que les produits auxquels se rapporte la présente déclaration, sont conformes à la/aux norme/s suivante ou au/aux document/s normatif/s suivant/s.		
EU Directive	Certificates	Standards Used / Notified Body Involvement	
2014/35/EU LVD	-	EN 62368-1:2014+A11	
2014/30/EU EMC	-	EN 55032:2015, CISPR 32:2013, EN 61326-1:2013	
2011/65/EU RoHS	-	EN 50581:2012	
Signature:			Place: <u>Rice Lake, WI USA</u>
Name:	<u>Brandi Harder</u>		Date: <u>June 15, 2021</u>
Title:	<u>Quality Manager</u>		



UK DECLARATION OF CONFORMITY

Rice Lake Weighing Systems
230 West Coleman Street
Rice Lake, Wisconsin 54868
United States of America



Type: iDimension Plus

English We declare under our sole responsibility that the products to which this declaration refers to, is in conformity with the following standard(s) or other regulations document(s).

UK Regulations	Certificates	Standards Used / Approved Body Involvement
2016/1101 Low Voltage	-	EN 62368-1:2014+A11
2016/1091 EMC	-	EN 55032:2015, CISPR 32:2013, EN 61326-1:2013
2012/3032 RoHS	-	EN 50581:2012

Signature: Brandi Harder

Place: Rice Lake, WI USA

Name: Brandi Harder

Date: December 30, 2021

Title: Quality Manager

11.0 Specifications

Product Dimensions

Length	25" (63.5 cm)
Width	14.25" (56 cm)
Height	63.8" (162 cm)
Weight	28.5 lb (13 kg)

Power Requirements

Single power source 110–240 V external power supply, US power cord

Object Colors

All opaque packaging

Measurement Time

0.2 seconds, scale setting times vary by manufacturer

Cuboidal Specifications

	Length	Width	Height
Maximum Length	≤ 48" (120 cm)	≤ 28" (80 cm)	≤ 28" (80 cm)
Minimum Dimension	≥ 5.6" (14 cm)	≥ 5.6" (14 cm)	≥ 2.0" (5 cm)
Accuracy	± 0.2" (0.5 cm)	± 0.2" (0.5 cm)	± 0.2" (0.5 cm)

Irregular Specifications

	Length	Width	Height
Maximum Length	≤ 48" (120 cm)	≤ 28" (80 cm)	≤ 28" (80 cm)
Minimum Dimension	≥ 5.6" (3 cm)	≥ 1.2" (3 cm)	≥ 0" (0 cm)
Accuracy	± 0.5" (1 cm)	± 0.5" (1 cm)	± 0.5" (1 cm)



NOTE: Specifications depend on hardware configuration and certification requirements. Please contact your sales representative for further information.

Operating Temperature

32°F–86°F (0°C–30°C)

Humidity

Non-condensing

Mechanical Environment Class

M1

Electromagnetic Class

E1

I/O Ports

(1) USB type A port (interface to scale)

(1) 10/100/100BASE-T Ethernet port (interface to PC)

Software Integration

API and SDK files available for network device integration

Warranty

Two-year limited warranty

Certifications and Approvals



NTEP

CoC Number: 19-040A1



EU

File Number: T11908



OIML

File Number: R129/2000-A-NL1-20.05





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