



RICE LAKE 6756 Plus Static Dimensioning System Instruction Manual

[Home](#) » [RICE LAKE](#) » RICE LAKE 6756 Plus Static Dimensioning System Instruction Manual 



iDimension® Plus
OIML Static Dimensioning System – Version 4.13



Setup and Operation Manual

© Rice Lake Weighing Systems. All rights reserved.

Rice Lake Weighing Systems®
is a registered trademark of
Rice Lake Weighing Systems.

All other brand or product names within this publication are trademarks or
registered trademarks of their respective companies.

All information contained within this publication is, to the best of our knowledge, complete and
accurate at the time of publication. Rice Lake Weighing Systems reserves the right to make
changes to the technology, features, specifications and design of the equipment without notice.

The most current version of this publication, software, firmware and all other product
updates can be found on our website:

www.ricelake.com

Contents

- 1 6756 Plus Static Dimensioning System**
- 2 Introduction**
- 3 Setup Wizard**
- 4 Touchscreen Display**
- 5 Configuration Menu**
- 6 Documents / Resources**
 - 6.1 References**
- 7 Related Posts**

6756 Plus Static Dimensioning System

Rice Lake continually offers web-based video training on a growing selection of product-related topics at no cost. Visit www.ricelake.com/webinars

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.

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.

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.

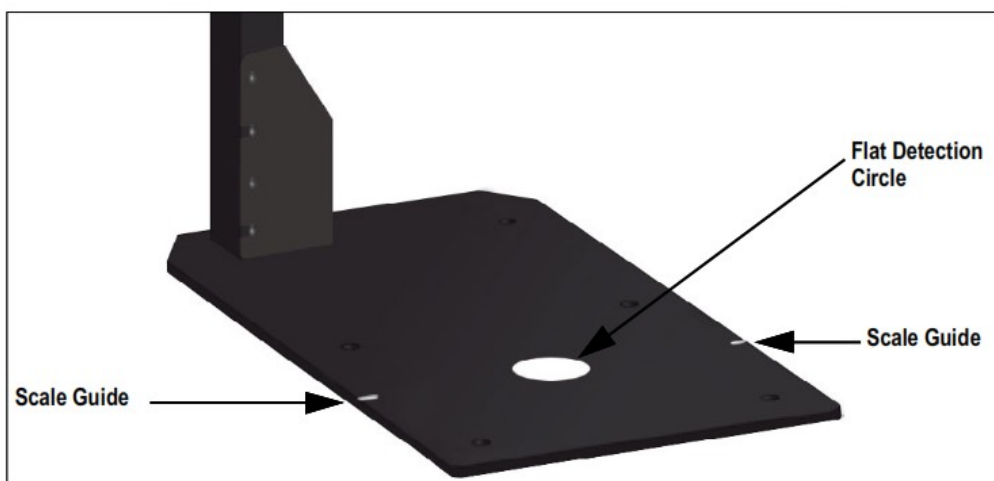


Figure 1-1. Scale Placement

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 16), select the Device Information button . Device Info menu displays (Figure 4-1 on page 20).

2. Select the Configuration Menu button  (Section 4.1 on page 20). Configuration Menu displays.
3. Select Setup Wizard.

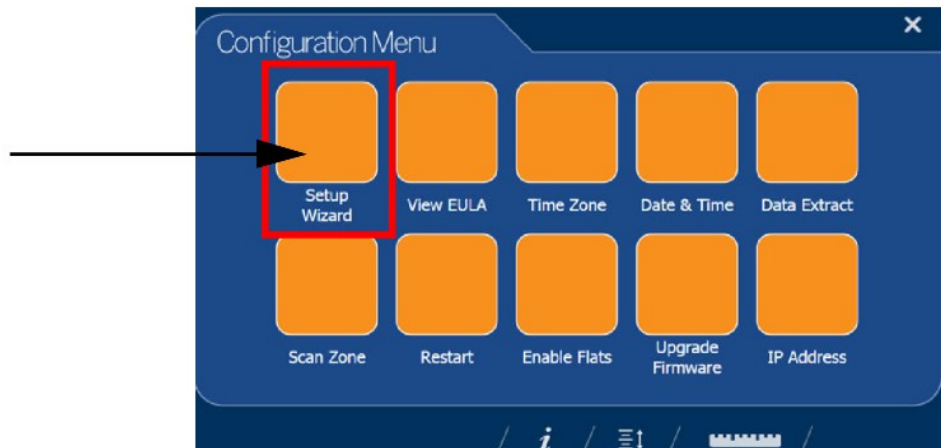


Figure 2-2. Configuration Menu

4. The Initial Setup Wizard displays.

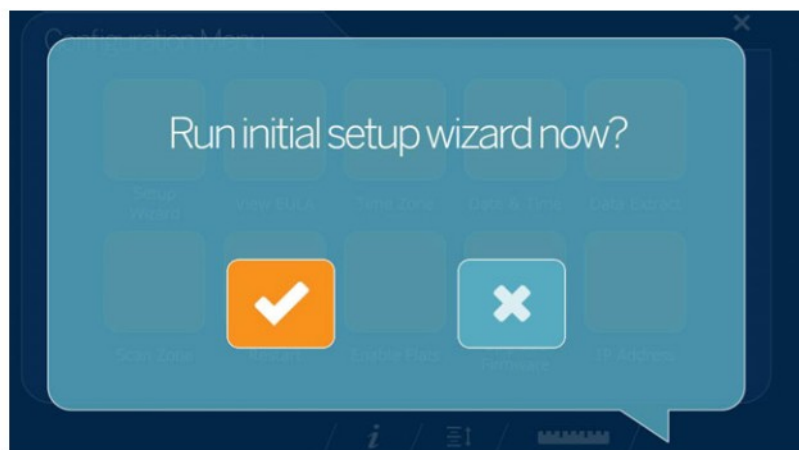



Figure 2-3. Initial Setup Wizard

5. Select  checkmark to run the initial Setup Wizard.

2.1.1 Time Zone

The Time Zone button displays the current time zone.

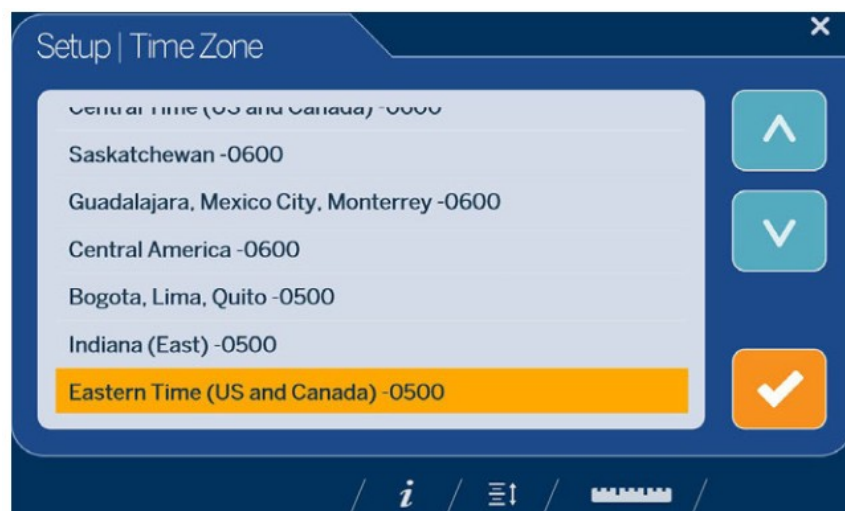





Figure 2-4. Time Zone Selections

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.

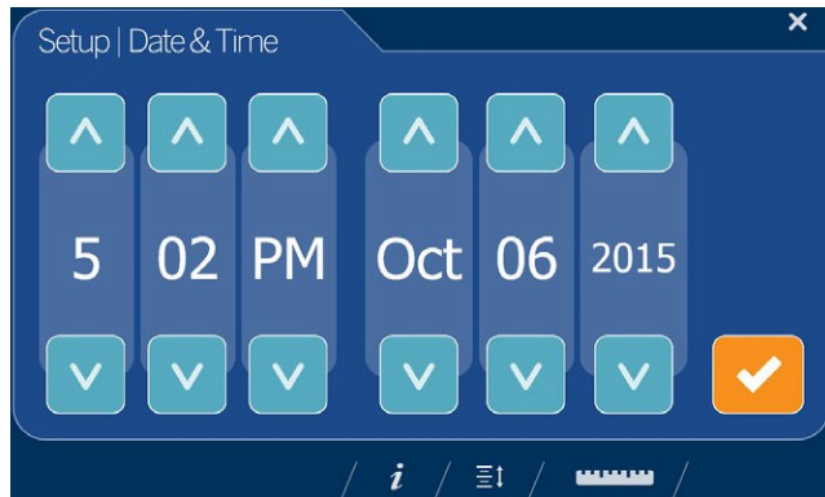





Figure 2-5. Date and Time

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 .

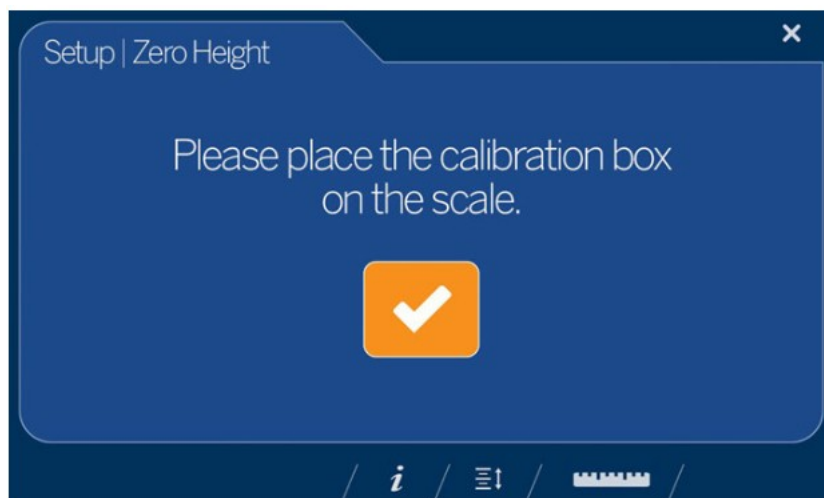



Figure 2-7. Place Calibration Box Display

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

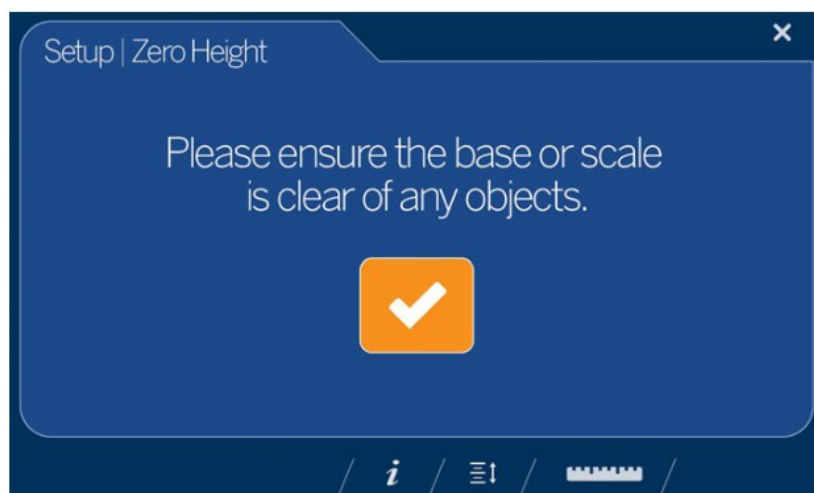


Figure 2-8. Ensure Base is Clear Display




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.

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



Figure 2-9. Stand Clear Display

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

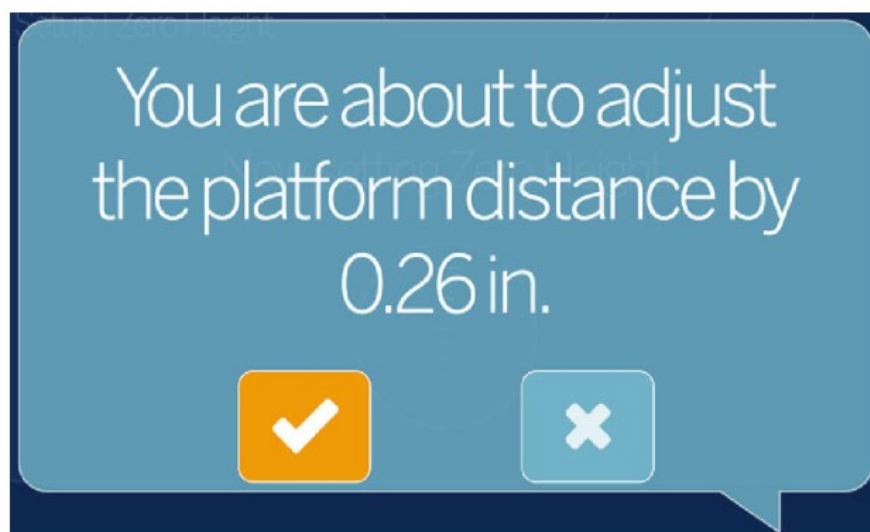



Figure 2-10. Confirm Distance

6. Press  upon successful zero height calibration.
7. 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.

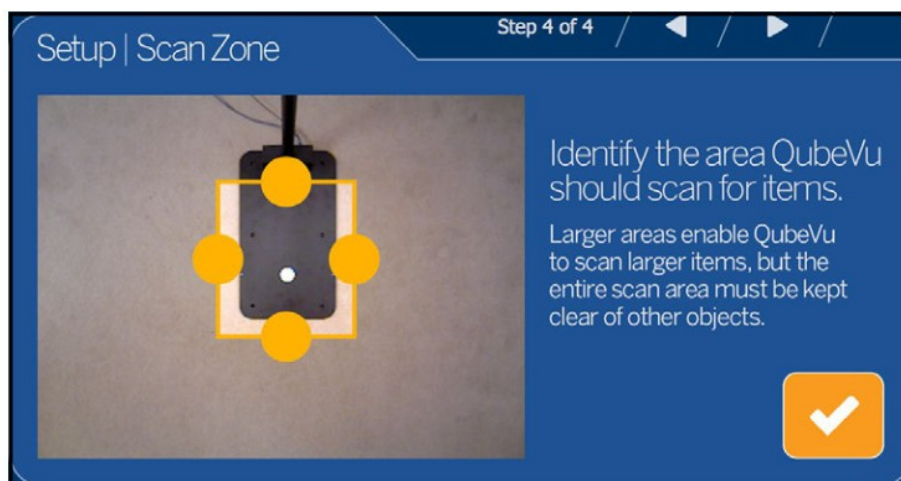





Figure 2-11. Scan Zone

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.

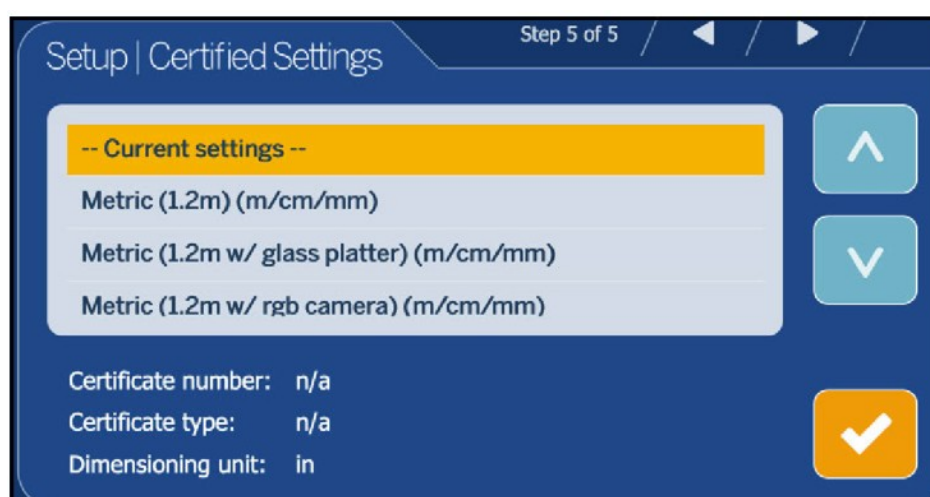



Figure 2-12. Certification Settings

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	= Metric
	Scan head mount height	= 1.2 m
	Minimum object height	> 3 cm
	Legal for Trade application	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)
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.

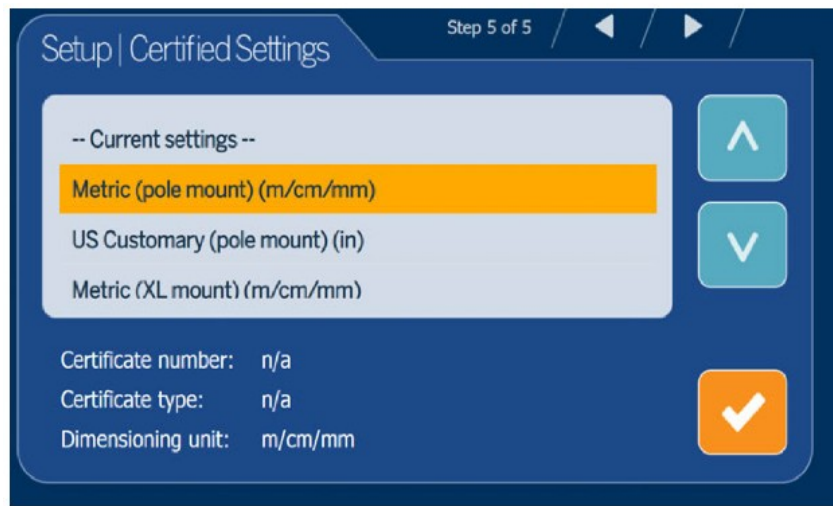





Figure 2-13. Certification Settings – Metric

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.

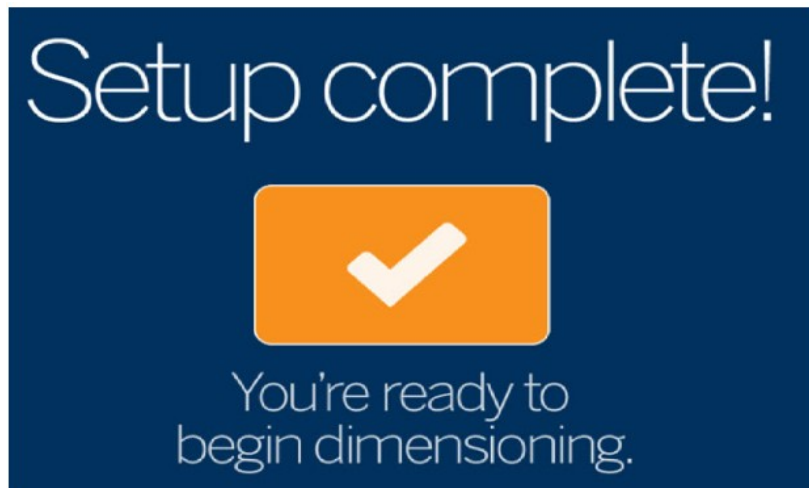


Figure 2-14. Setup Complete

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 31).
2. Configure general settings (Section 7.2 on page 35).
3. Configure scale settings for connecting to iDimension Plus (Section 7.2.2 on page 37).
4. Configure network (Section 7.3 on page 38).

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).

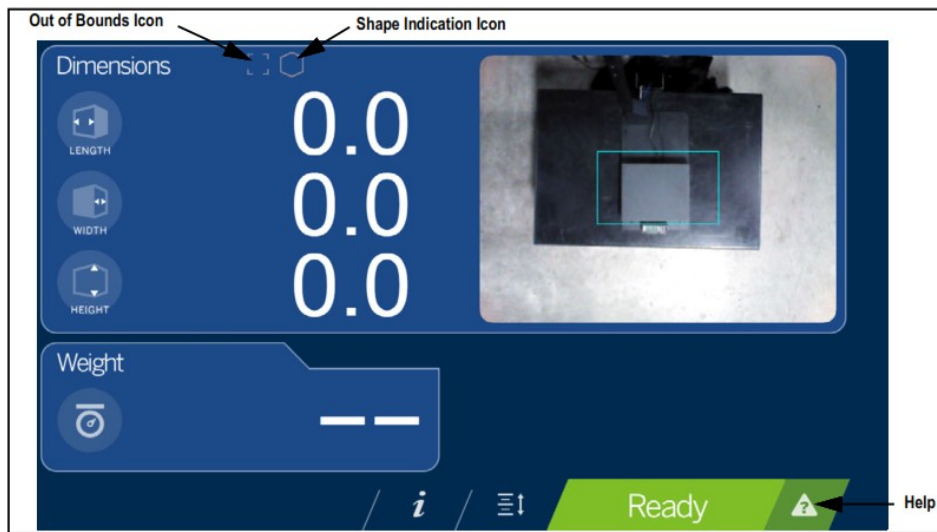



Figure 3-1. Touchscreen Display

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  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 device 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.

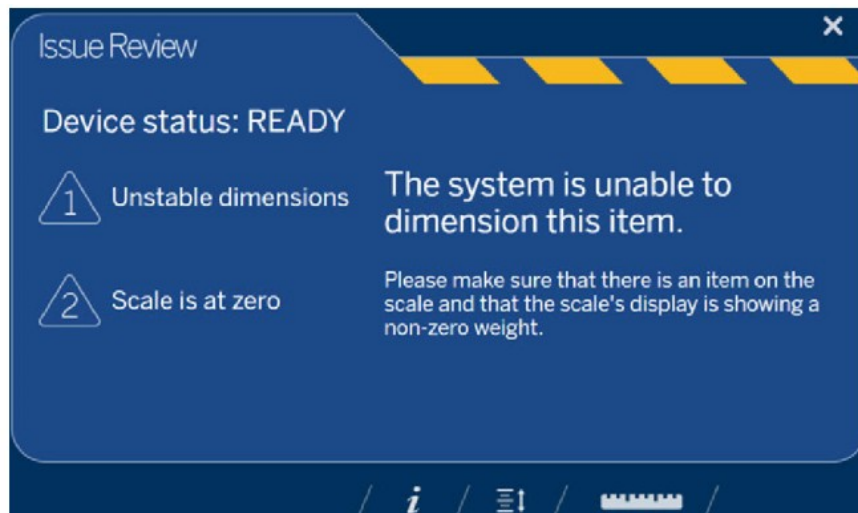



Figure 3-2. Issue Review

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 .

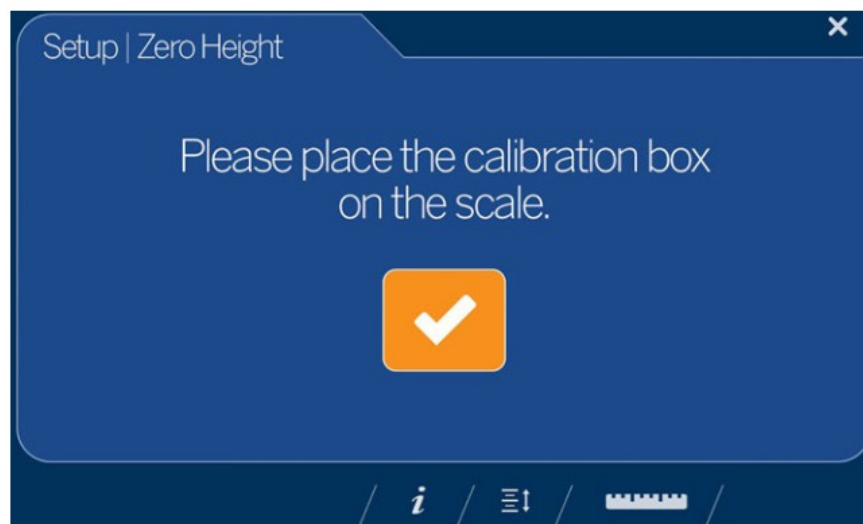



Figure 3-4. Place Calibration Box Display

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

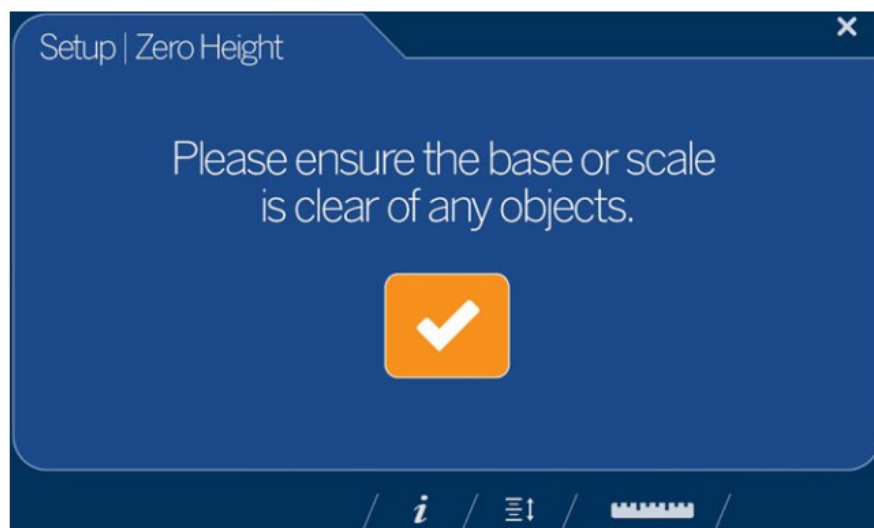


Figure 3-5. Ensure Base is Clear Display

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.

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).

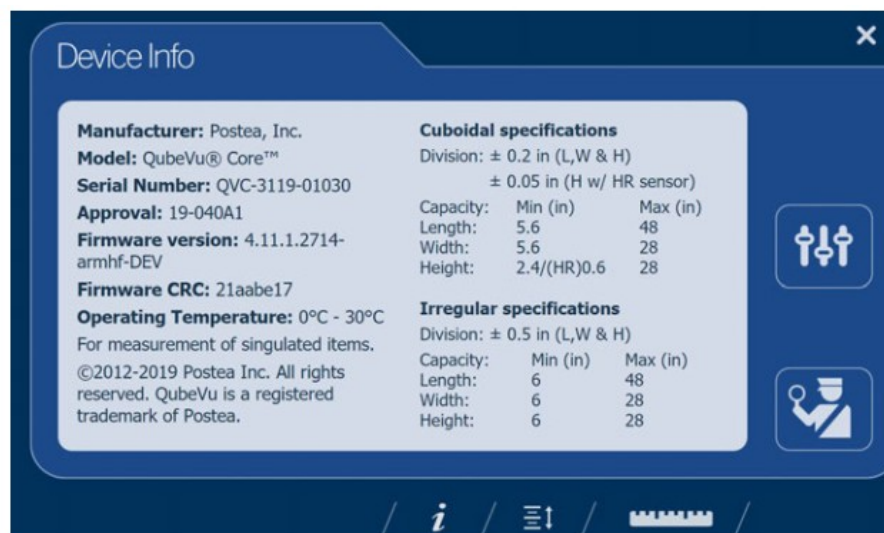


Figure 4-1. Device Information


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

5. Use  or  to scroll through the license agreement.

6. 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

1. Select  to refresh.
2. Select  to perform a manual export.
3. 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.

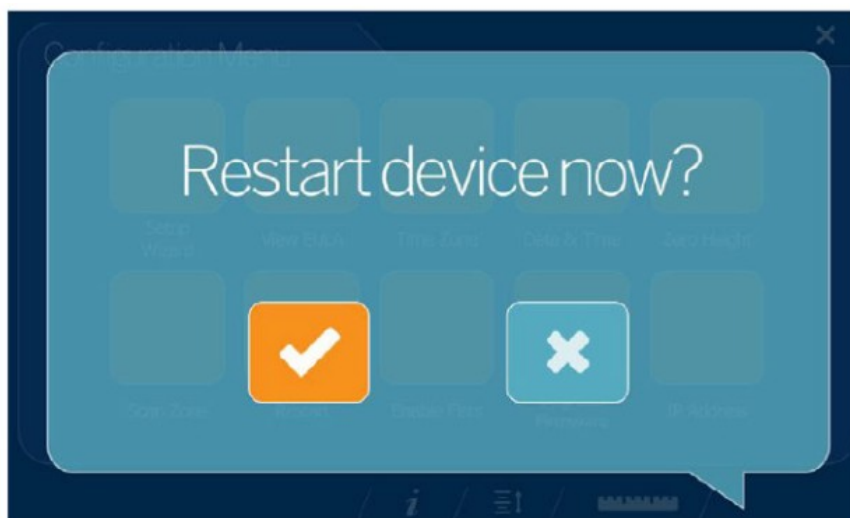


Figure 4-7. Restart

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.



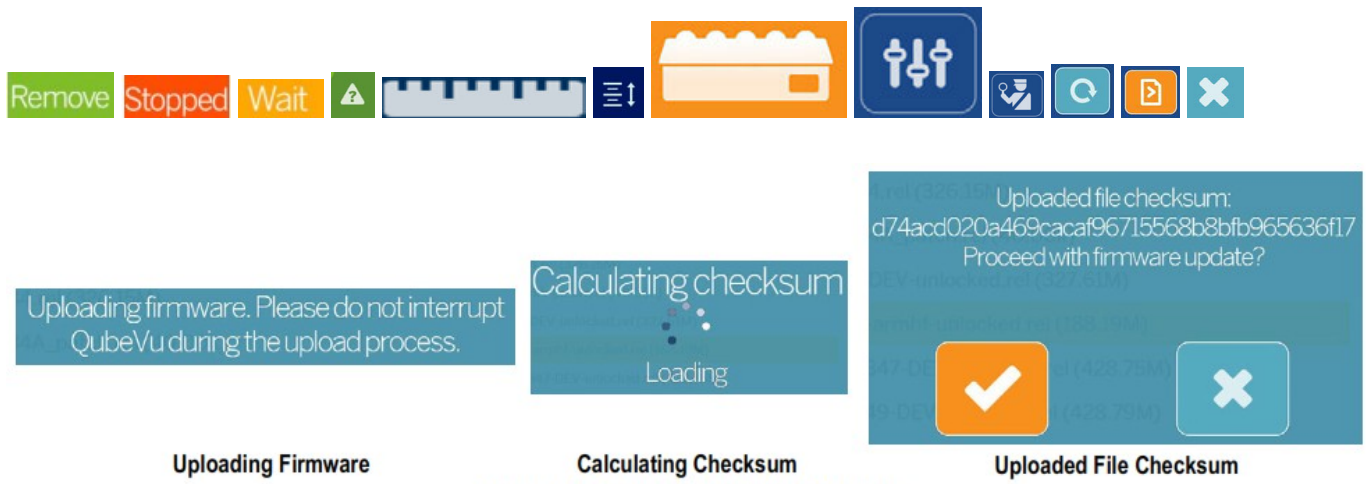


Figure 4-9. Firmware Uploading Messages

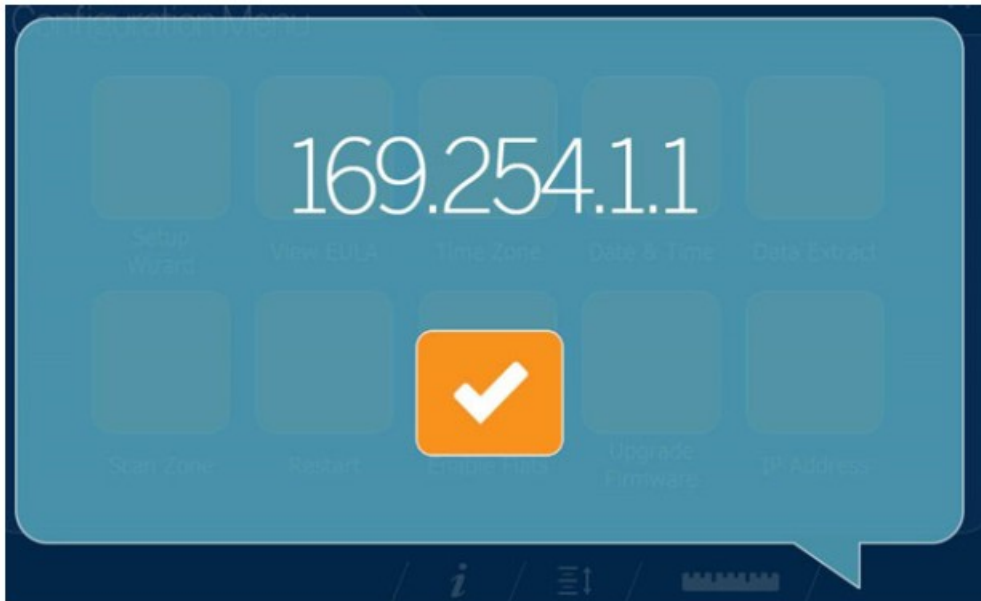



Figure 4-10. IP Address

	<p>RICE LAKE 6756 Plus Static Dimensioning System [pdf] Instruction Manual 6756 Plus Static Dimensioning System, 6756, Plus Static Dimensioning System, Static Dimensioning System, Dimensioning System, System</p>
---	---

References

- [User Manual](#)