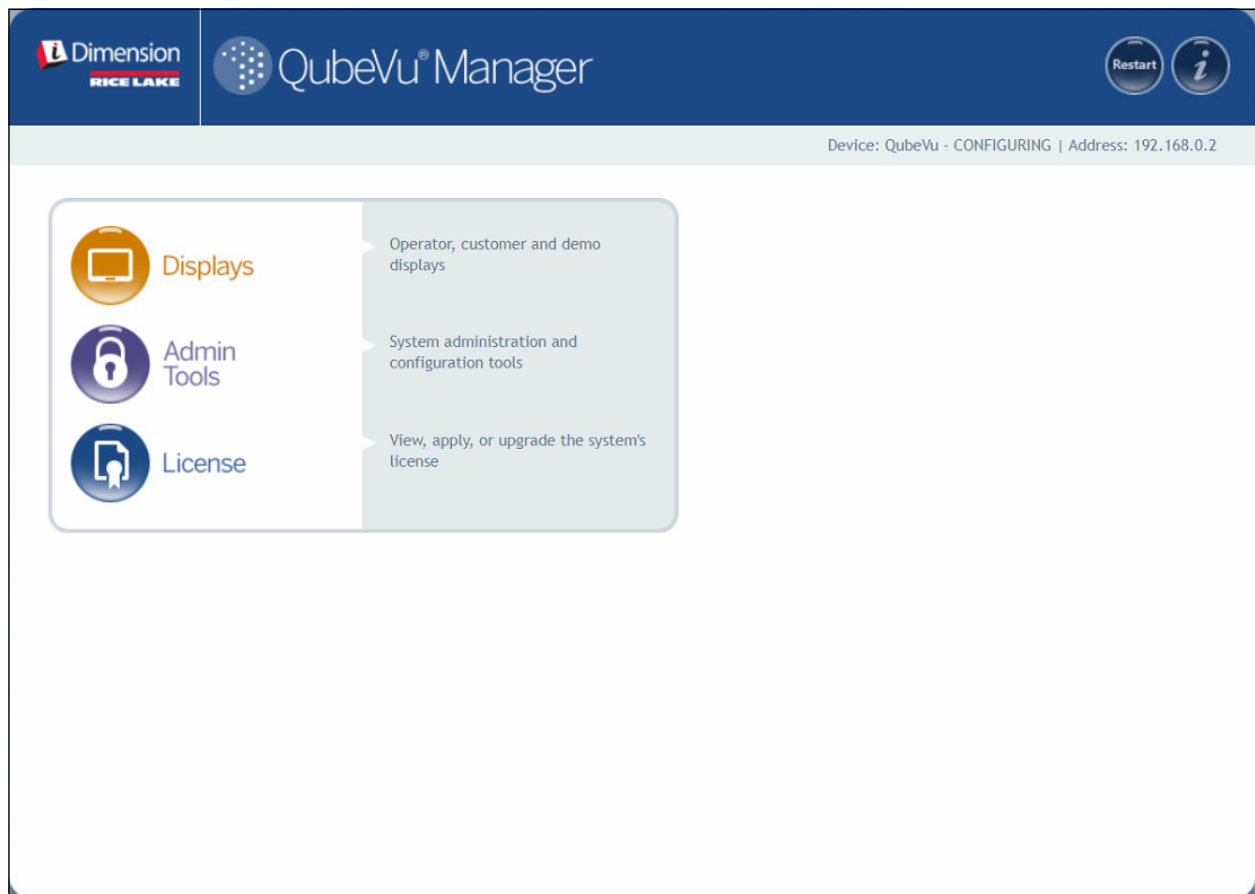


iDimension® QubeVu®

Static Dimensioning Systems
Firmware: 6.X.X.XXXX

Administrator Guide



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Revision History

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

Revision	Date	Description
A	October 20, 2023	Initial manual release
B	October 25, 2024	Updated menus; added new model calibration procedures

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

QubeVu Manager is an embedded program that configures iDimension products. This manual discusses configuring QubeVu with pallet dimensioners, and is recommended for use by technical system administrators.



NOTE: When interfacing to a third party program, reference the software manufacturer's documentation for configuration as necessary.

This manual is applicable with the following iDimension products:

- iDimension Flex Series Parcel and Pallet Dimensioning System
- iDimension LTL Pallet Dimensioning System
- iDimension LTL XL Pallet Dimensioning System
- iDimension PWD Pallet Weighing and Dimensioning System
- iDimension Plus Static Dimensioning System



NOTE: For information regarding iDimension Plus/Plus XL Static Dimensions Systems, see:

- *iDimension Desktop Wedge Software Manual (214650)*
- *iDimension Software Suite (201231)*
- *iDimension Plus Managers Guide (206287)*



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

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

1.1 Additional Resources

For additional resources, see the following information:

iDimension Flex Series Assembly Instructions

The iDimension Flex Assembly Instructions (PN 220532) provides an overview on how to assemble iDimension products.

iDimension PWD Assembly Instructions

The iDimension PWD Assembly Instructions (PN 198812) provides an overview on how to assemble the iDimension PWD.

iDimension Plus Assembly Instruction

The iDimension Plus Assembly Instructions (PN 197164) provides an overview on how to assemble the iDimension Plus.

880 Performance™ Series Indicator/Controller Technical Manual

The 880 Performance Series Technical Manual (PN 158387) provides a detailed overview of the 880 indicator installation, configuration and operation procedures.

1280 Enterprise™ Series Indicator/Controller Technical Manual

The 1280 Enterprise Series Technical Manual (PN 167659) provides a detailed overview of the 1280 indicator installation, configuration and operation procedures.

SUMMIT® 3000 Installation Manual

The SUMMIT 3000 Installation Manual (PN 76012) provides a detailed overview of the SUMMIT 3000 installation procedure.

RoughDeck® Floor Scale Installation Manual

The RoughDeck Installation Manual (PN 66662) provides a detailed overview of the RoughDeck HP/HC installation procedure.

2.0 QubeVu Manager

This section provides an overview of QubeVu Manager. QubeVu Manager is the embedded program installed with the iDimension pallet dimensioner and provides configuration, system diagnostics and calibration not accessible from the touchscreen display.

To access QubeVu Manager, connect the iDimension pallet dimensioner via Ethernet to a computer and then open a web browser and enter the dimensioner's IP address: **http://192.168.0.2** (primary) or **169.254.1.1** (secondary).

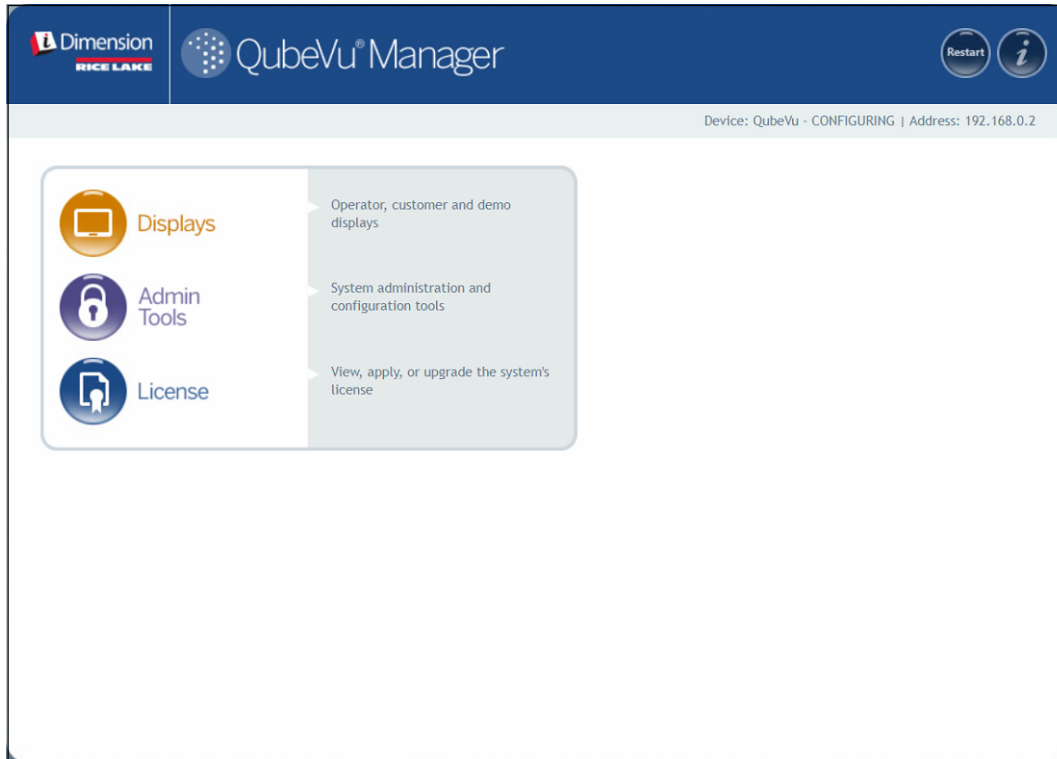


Figure 2-1. QubeVu Manager Home Page

Parameter	Description
Displays	Display information (Section 3.0 on page 16)
Admin Tools	Admin tools information (Section 4.0 on page 21)
License	License information (Section 11.0 on page 84)

Table 2-1. QubeVu Manager Home Page Navigation

2.1 Navigation

The navigation menu is located in the upper left section of all pages. This allows users to track their current menu location and provides links to each preceding page.

For example, from the General Settings menu select Admin Tools to return to the Admin Tools menu or QubeVu Manager to return to the home page.

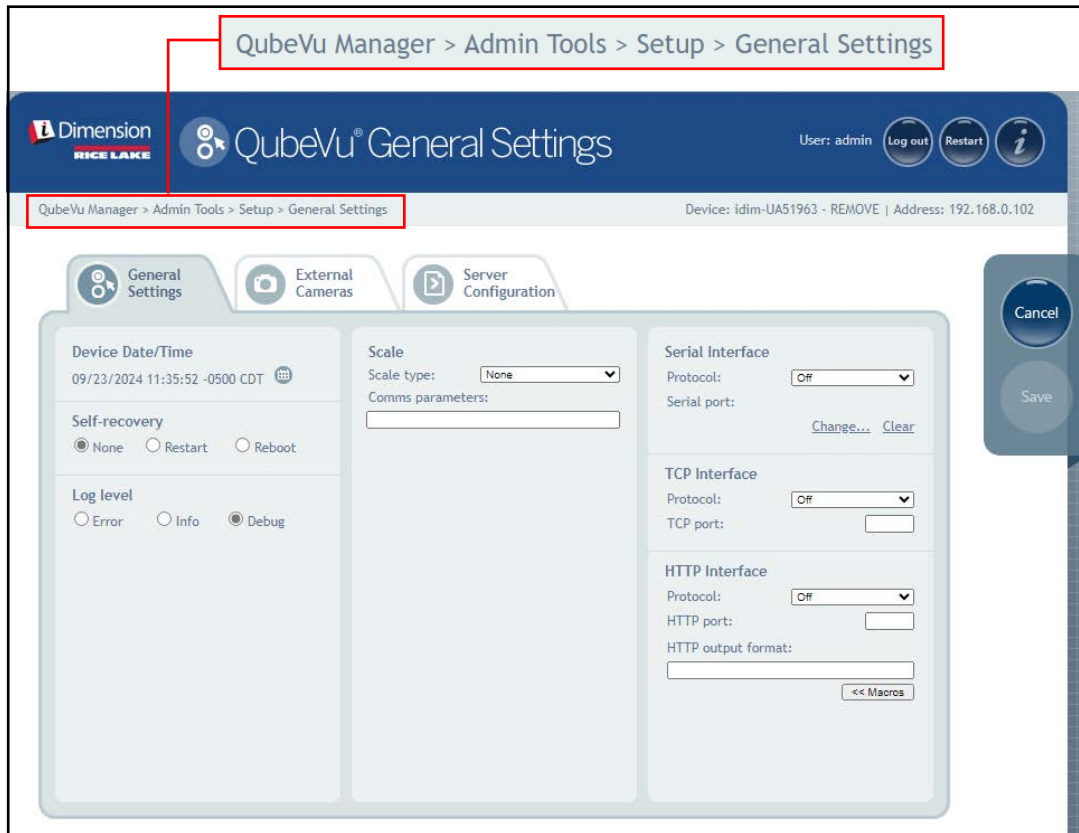





Figure 2-2. Menu Navigation

2.2 Edit/Cancel/Save Buttons

Throughout the menus, three active buttons commonly display: ,  and .

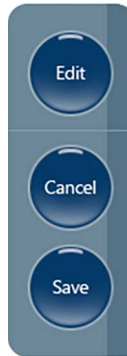


Figure 2-3. Edit, Cancel and Save Buttons








Item	Description
	Press  to enable the functionality to change settings. After changing settings, press  to continue.
	Select  to cancel changes made to the active tab, unless saved.
	Select  to save changes made during the edit process. NOTE: Upon saving, the unit may restart and return to the home screen.

Table 2-2. QubeVu Manager Home Page Navigation

2.3 System Status

The system status of the connected device is displayed in the upper right corner of all pages.

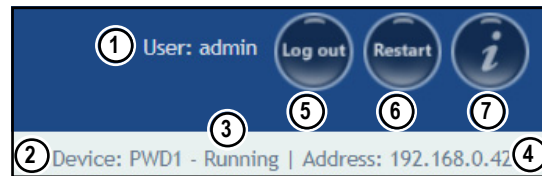


Figure 2-4. Status Display


Item No.	Description
1	User Logged into the device under the Admin mode. Select  to return to the standard user mode.
2	Device The default setting is the serial number of the iDimension device. This can be renamed in the Host Name parameter in Network Settings (while in Admin mode).
3	System Status (Section 2.3.1) The current status of the unit.
4	IP Address 192.168.0.42: The Current IP address of the unit.
5	Log Out (Log In displays if not signed in)
6	Restarts system (Section 2.3.2 on page 12)
7	QubeVu Inspector (Section 2.4 on page 13)

Table 2-3. System Status Indicators

If  is selected while in a screen, the unit may stay in **Configuring** status and a restart is required to return to **Running** mode.

2.3.1 System Status Messages

The device status messages which may be displayed are described below.

Status	Description
STARTING	The system is starting up
STARTED	The device has been power cycled or rebooted. Wait for the status to change to RUNNING before performing a dimension. If the device remains in STARTING mode, use the demo display or USB display Help button to view and clear dimensions
ERROR	The internet browser is unable to determine the status. ERROR may display during a system reboot
STOPPING	The system is transitioning to the STOPPED state
STOPPED	The service has stopped. STOPPED displays during a restart or reboot of the system. If the unit continues to display STOPPED, perform a restart or power cycle the unit from the AC Outlet or power switch on the kiosk
RESTARTING	The device has been power cycled, reset or rebooted and the system is restarting services. Wait for the status to change to RUNNING before performing a dimension
CONFIGURING	While in Admin mode an Edit condition has been activated to change configuration settings. If the settings are saved, the device should return to the RUNNING mode. If a save function has not been performed and the device is in the configuring mode, perform a restart
RUNNING	System is in operational state
SLEEPING	System is in sleep mode

Table 2-4. Status Messages

2.3.2 Restart Device Information

To restart or reboot the system, select one of the following buttons:



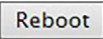

- Select  from the system start bar. The QubeVu Manager restart/reboot prompt appears.
- Select  to restart the service currently running on the device.
- Select  to reboot the operating system. Rebooting the unit takes several minutes and power cycles the unit.
- Select  to return to the previous menu.



Figure 2-5. Restart/Reboot Prompt


2.4 QubeVu Inspector

QubeVu Inspector provides **Device Information** and **Change Log** tabs. These tabs provide information regarding the device and changes made to settings. It is not necessary to log in to view the information available on the **QubeVu Inspector** tab.

2.4.1 Device Information Tab

The **Device Information** tab lists system information such as the serial number, firmware version number and specifications.

Perform the following to access the **QubeVu Inspector**:

1. Select  to access **QubeVu Inspector**.

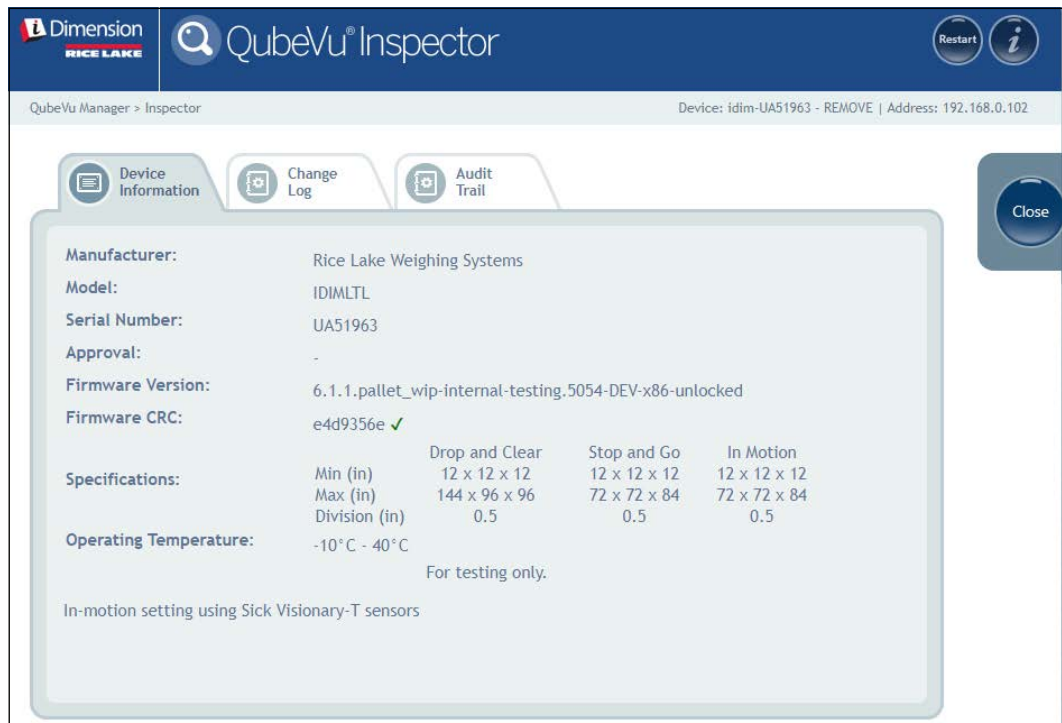



Figure 2-6. QubeVu Inspector

2.4.2 Change Log Tab

The **Change Log** tab provides a list of changes made to settings. This menu is used by the local weights and measures inspector and factory service personnel.

- To view changes using a date range, enter a **Start** and **End** date and then Select .

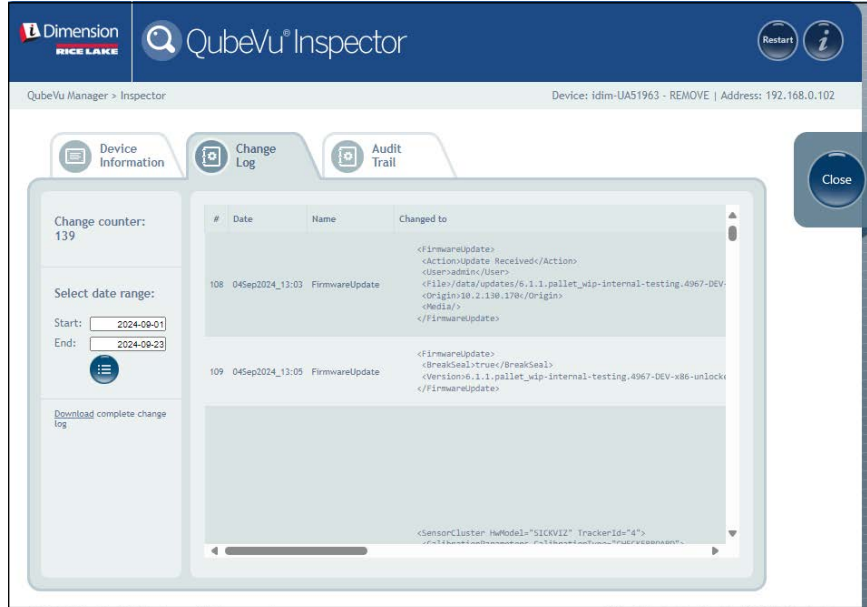


Figure 2-7. Change Log Tab (Date Range)

- To view all previous logs, select  without entering a date range.

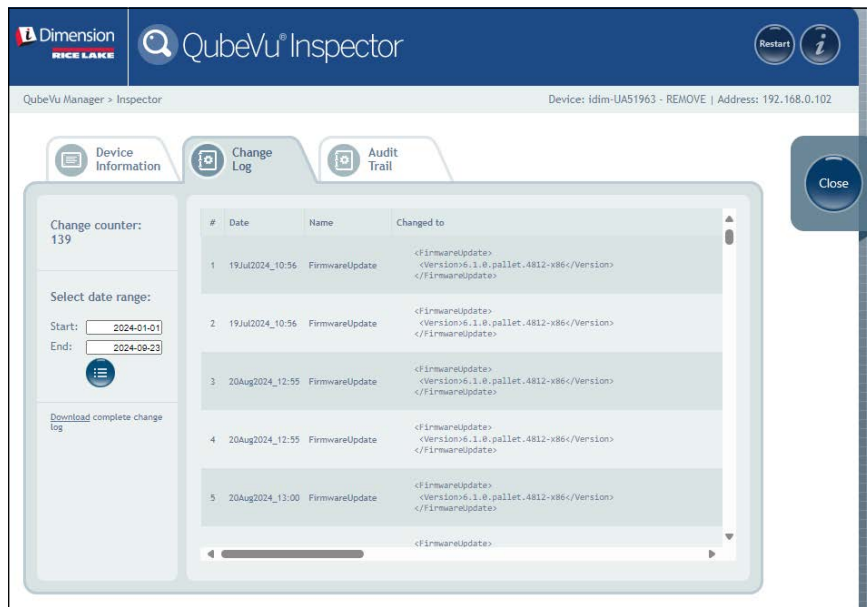




Figure 2-8. Change Log Tab (All Data)

- Use the arrow keys on the PC keyboard to scroll through the results.
- Select  to export the log to a *.csv file.

2.4.3 Audit Trail Tab

The Audit Trail Tab displays record audits history.

- To fetch records, fill the **First record Id:** and **Nb. of records:** fields and select .

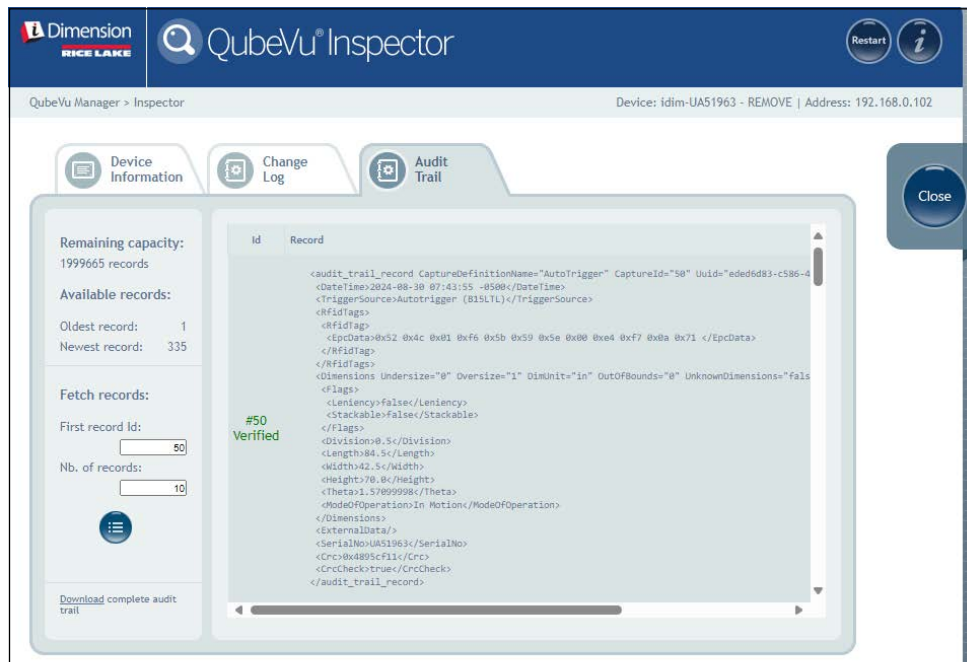


Figure 2-9. Audit Trail Tab (Record Range)

- To fetch all records, select  without entering the fields.

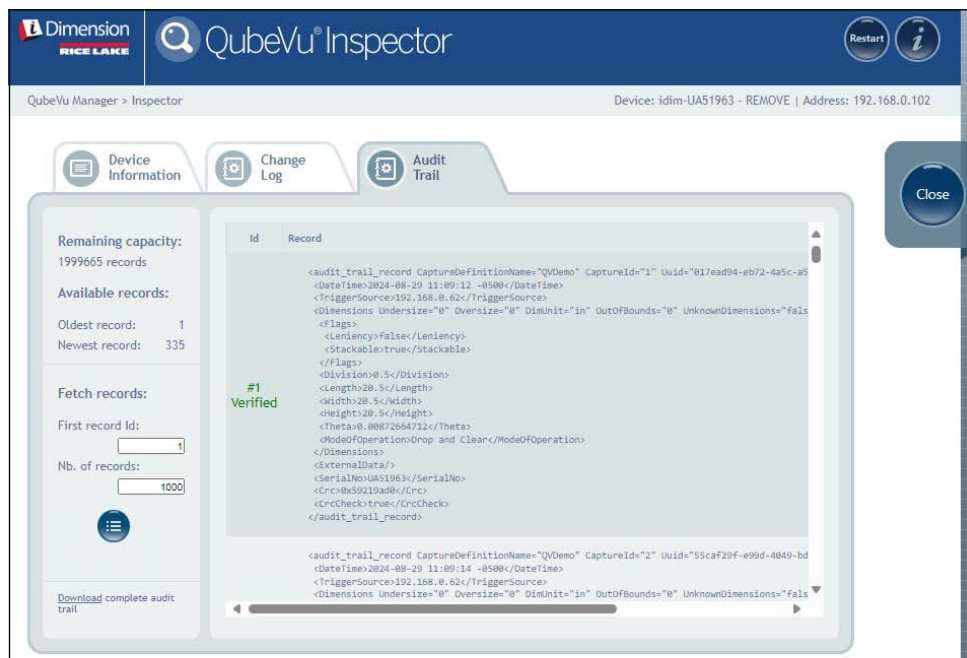



Figure 2-10. Audit Trail Tab (All Records)

- Use the arrow keys on the PC Keyboard to scroll through the results.
- Select Download to export records to a *.csv file.

3.0 Display

This section provides an overview of the QubeVu **Display Pages** menu. There are types of displays that can be used to relay information.

To enter the **Display Pages** menu, perform the following procedure:

- Select  **Displays** from the **QubeVu Manager** menu ([Figure 2-1 on page 8](#)) to enter the **Display Pages** menu

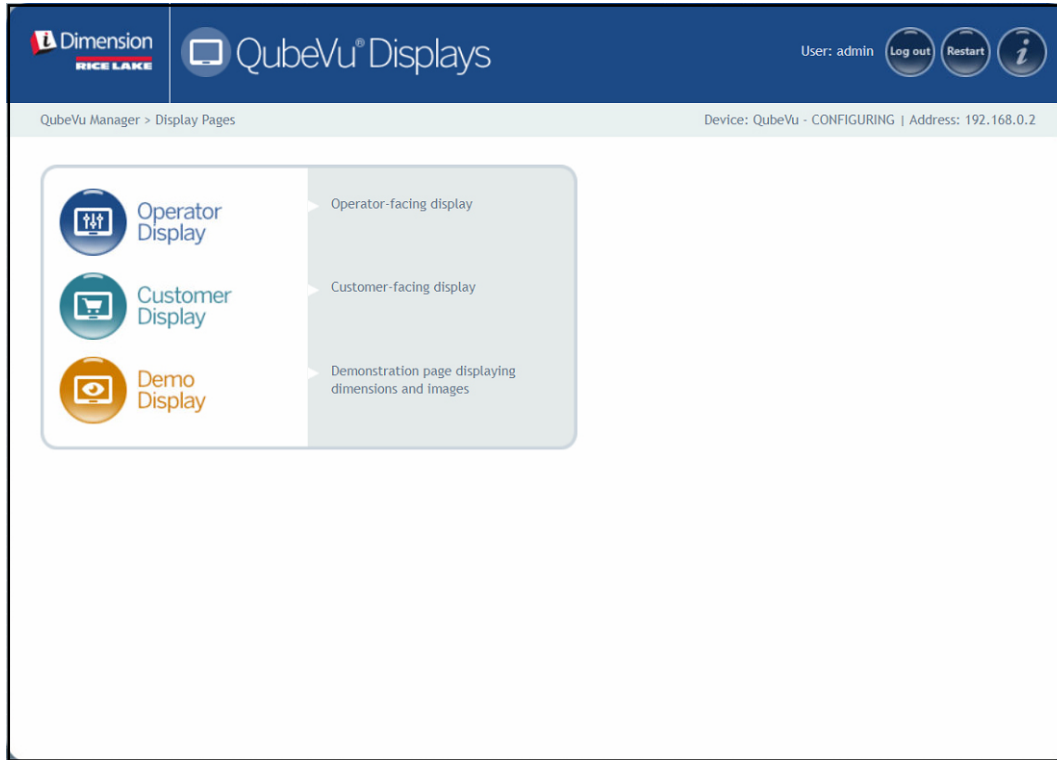


Figure 3-1. Displays Menu

Item	Description
Operator Display	Operator display information (Section 3.2 on page 18)
Customer Display	Customer display information (Section 3.3 on page 18)
Demo Display	Demo display information (Section 3.4 on page 19)

Table 3-1. QubeVu Manager Home Page Navigation

3.1 Touchscreen Display

The touchscreen display is used to navigate QubeVu. The **Power** button for the USB display is located on the back of the unit. The USB display can be configured in QubeVu Manager.

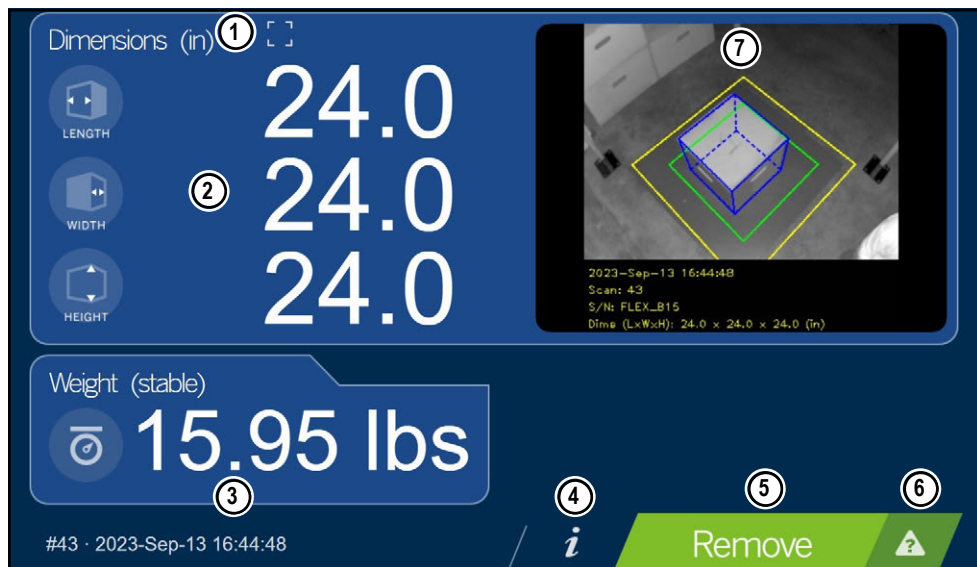


Figure 3-2. Touchscreen Display

Function keys allow the iDimension software to be managed via the touchscreen display.

Item No.	Function	Function
1	Out of Bounds Indication	Displays when objects are out of bounds (see Section 3.1.1)
2	Dimension Display	Displays measured dimensions
3	Weight Display	Displays the weight of the item when the item's metrics when captured. Use Indicator weight display to view live weight data, including negative weight
4	Information Button	Accesses configuration menu to set up time and date, display configured IP address and firmware updates via USB flash drive
5	Scan Button	Activates the device to dimension
6	Help Key	Displays the Issue Review menu; Provides instructions to clear conditions such as started, stopped, wait or remove condition with no object in the scan area
7	Live Image	The weigh area provides a real-time view of the scanning area transmitted from the scanning head to the USB display

Table 3-2. Key Functions

3.1.1 Customer Display Icon – Out of Bounds Indications


The Out of bounds (OOB) indication provides a visual symbol if the placement of the pallet or box is outside of the work area. [Figure 3-3](#) indicates the pallet is out of bounds on the left edge, when facing the scale on a PWD:



Figure 3-3. Out of Bounds Indication

3.2 Operator Display

The **Operator Display** function simulates the USB touchscreen display. The **Operator Display** menu can be configured using the Admin Tools/Setup/Displays Settings function (Section 5.3.1 on page 34).

- Select  **Operator Display** from the **Display Pages** menu (Figure 3-1 on page 16). The Operator Display appears.

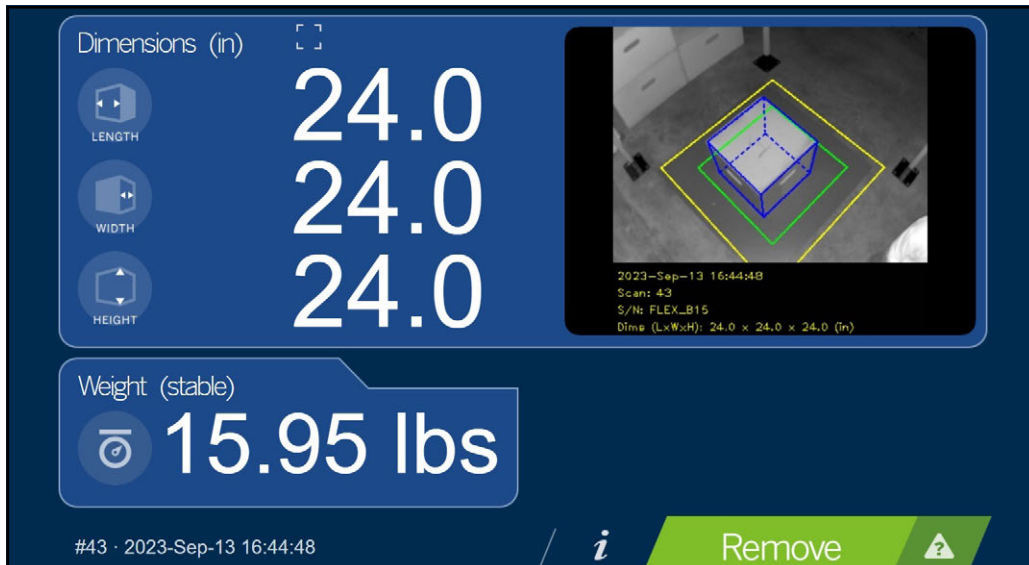



Figure 3-4. Operator Display

 **NOTE:** See Section 3.1 on page 17 for function descriptions.

3.3 Customer Display

The **Customer Display** menu can be used for applications when a visible display is required for dimensioning. The **Customer Display** menu does not provide access to operator controls and is configured with Admin Tools/Setup/Displays Settings function (Section 5.3.2 on page 36).

- Select  **Customer Display** from the **Display Pages** menu (Figure 3-1 on page 16). The Customer display appears.

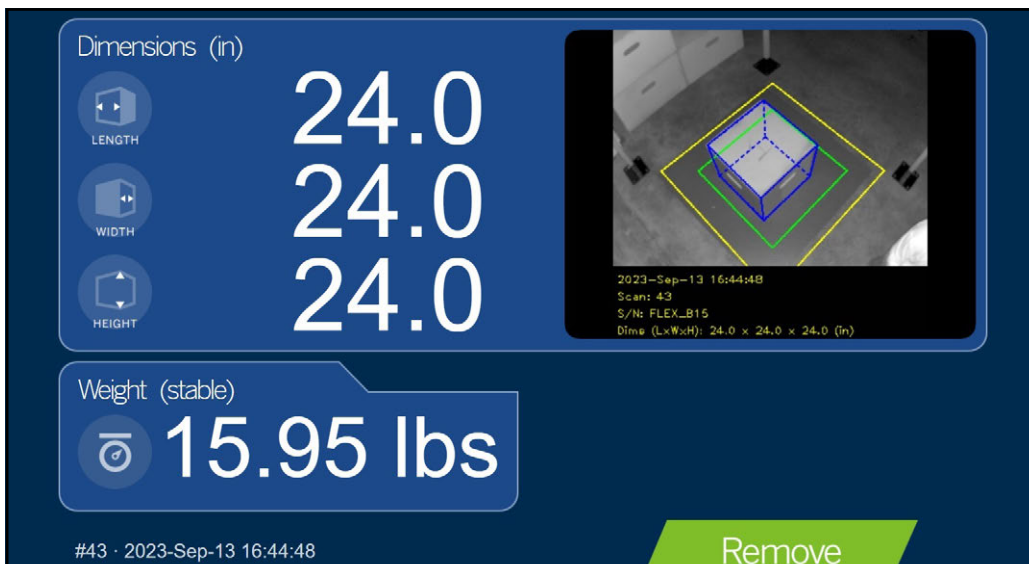


Figure 3-5. Customer Display

3.4 Demo Display

The **Demo Display** menu is intended for demonstrations and testing the effects of configuration changes.

The **Demo Display** menu may help Rice Lake Weighing Systems technical support team during troubleshooting.


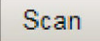
- Select  **Demo Display** from the **Display Pages** menu (Figure 3-1 on page 16).
- The Demo Display appears. Select  to manually trigger a dimensional measurement.



Figure 3-6. Demo Display



NOTE: Status messages are presented within **Display** menus. Messages presented are not error messages. See [Section 12.4 on page 92](#) for displayed status, extended status and error status messages. Weight is only populated if Demo display is used in conjunction with a scale.

3.5 Forklift Display

The **Forklift Display** is used in freight applications to give operators clearance or error messages. Forklift Display access must be addressed by typing the IP address of the unit into the web browser followed by /forkliftdisplay.

Example: 10.2.131.197/forkliftdisplay



Figure 3-7. Ready Message

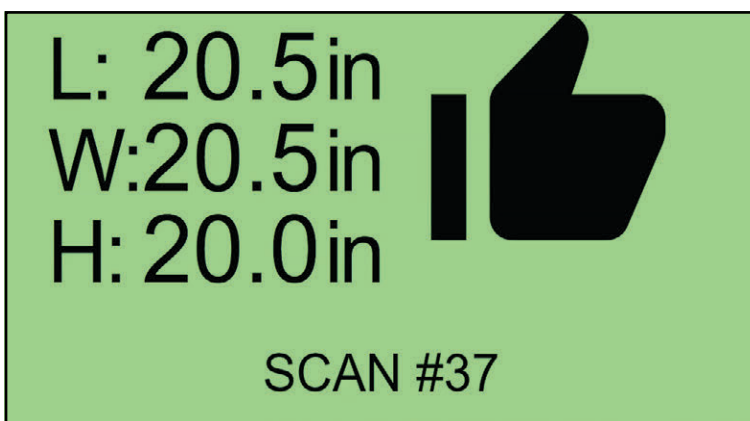


Figure 3-8. Clearance Message





Figure 3-9. Error Message

4.0 Admin Tools

This section provides an overview of the **QubeVu Admin Tools** menu. **Admin Tools** configure, calibrate, upgrade, back up and run diagnostics on the system.

To enter the **Admin Tools** menu, perform the following procedure:

1. Select  **Admin Tools** from the **QubeVu Manager** menu ([Figure 2-1 on page 8](#)).
2. The QubeVu Manager login screen displays. Enter account credentials.

 **NOTE:** The default username and password are admin and password.

3. Admin Tools screen displays.

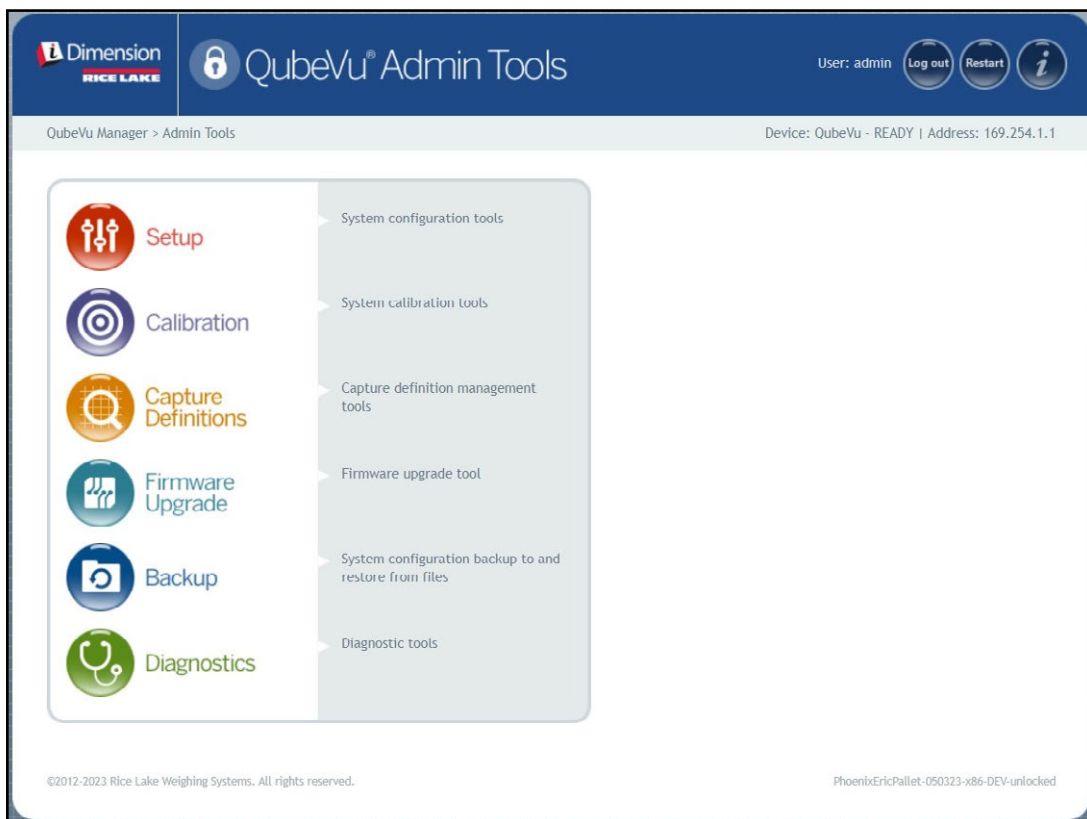


Figure 4-1. Admin Tools Menu


Item	Description
Setup	General (optional and scale), measurement, user and network settings (Section 5.0 on page 22)
Calibration	Calibration settings, define work area and calibrate cameras (Section 6.0 on page 42)
Capture Definitions	Capture definitions for QubeVu (Section 7.0 on page 70)
Firmware Upgrade	Update firmware (Section 8.0 on page 72)
Backup	Backup and restore settings (Section 9.0 on page 76)
Diagnostics	Diagnostics settings (Section 10.0 on page 79)

Table 4-1. Admin Tools Navigation

5.0 Setup


This section provides an overview of the QubeVu **Setup** menu.

To enter the **Setup** menu, perform the following procedure:

1. Select  **Admin Tools** from the **QubeVu Manager** menu (Figure 2-1 on page 8).
2. The QubeVu Manager login screen displays. Enter account credentials.



NOTE: The default username and password are admin and password.

3. Select  **Setup** from the **Admin Tools** menu (Figure 4.0 on page 21). The **Setup** menu displays.

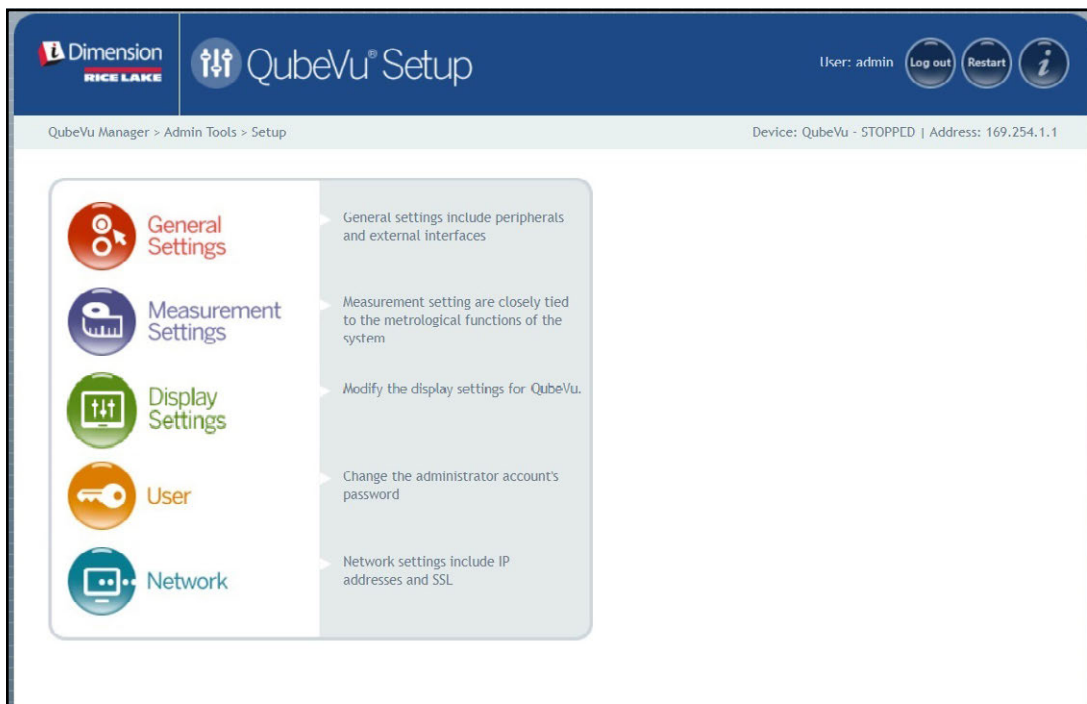


Figure 5-1. Setup Menu

Parameter	Description
General Settings	Modify general settings for QubeVu (Section 5.1 on page 23)
Measurement Settings	Modify measurement settings for QubeVu (Section 5.2 on page 30)
Display Settings	Modify the display settings for QubeVu (Section 5.3 on page 34)
User	Change password for the administrator account (Section 5.4 on page 38)
Network	Modify network settings for QubeVu (Section 5.5 on page 39)

Table 5-1. Setup Navigation

5.1 General Settings

General Settings menu provides access to general device configuration, scale configuration, communication interface configuration.

To access **General Settings** menu, perform the following procedure:

- Select  **General Settings** from the **Setup** menu (Figure 5-1 on page 22). The **General Settings** menu displays.

The **General Settings** menu provides two tabs:

- General Settings (Section 5.1.1)
- External Cameras (Section 5.1.2 on page 27)

5.1.1 General Settings Tab

The **General Settings** tab allows device settings to be customized and changed (Table 5-2 on page 24):



Figure 5-2. General Settings Tab

Item No.	Parameter	Description
1	Device Date/Time	Configurable date and time
2	Self-recovery	Determines the recovery option of the unit. Default: None Selections: <ul style="list-style-type: none"> • None – System will not perform a self recovery • Restart – If the system has determined a critical error state, the unit restarts software and returns the system to normal mode; If an object is under the device during a reboot, Wait displays on the USB display • Reboot – If the system determines a critical error state, the unit performs 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; The USB display cycles power and return to normal operating mode
3	Log level	Changing to error or debug increases the amount of engineering and performance information stored in the diagnostics and log files shown in "ipaddress/log" command Default: debug Selections: <ul style="list-style-type: none"> • Error – Only logs error messages? • Info – Only logs info messages? • Debug – Logs all messages/
4	Scale	Scale Type – Scale options: Auto, None, External, USB HID, Pennsylvania 7300, METTLER TOLEDO, MT-SICS, NCI, A&D FG, Dini, Rice Lake Indicator Communication Parameters USB/RS-232 – Enter settings of the scale selected; configured indicator example: Application setting required: 9600,N,8,1 <ul style="list-style-type: none"> • Baud rate: 9600 • Parity: None • Start bits: 8 • Stop bit: 1
5	Serial Interface	Serial Interface – For use when capturing data from RS-232/Serial Converter when connected to the PC; For detailed information on using these interfaces refer to the iDimension API Guide (Section 12.5.1 on page 94 for details on configuration of TCP Interface) <ul style="list-style-type: none"> • Default: Off • Selections: Off, QubeVu, Cubiscan 110/150 Serial Port – Set-up a RS-232/USB converter for interface to the PC
6	TCP Interface	For use when using the TCP command/response format when attached to the network <ul style="list-style-type: none"> • Default: Off • Selections: Off, QubeVu, Cubiscan 110/150 • TCP Port:
7	HTTP Interface	For use when using the HTTP command/response format when attached to the network Protocol <ul style="list-style-type: none"> • Default: Off • Selections: Off, Text HTTP port – The port used to establish communication <ul style="list-style-type: none"> • Default: blank • Selections: Off, Text HTTP output format <ul style="list-style-type: none"> • Default: blank • Selections: %DATETIME%, %CAPTUREID%, %LENGTH%, %WIDTH%, %HEIGHT%, %VOLUME%, %DIMUNIT%, %WEIGHT%, %WEIGHT-LB%, %WEIGHT-KG%, %WEIGHTUNIT%, %DISPLAYWEIGHT%, %BARCODES%, %STATUS, and %%%%

Table 5-2. Measurement Settings Parameters

Configuring Serial-USB Adapter

1. Select **QubeVu** or **Cubiscan 110/150** from the serial interface drop-down list (Item 5 in [Figure 5-2 on page 23](#)).

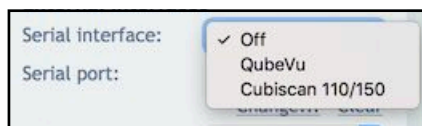


Figure 5-3. Adapter Select

2. Select **Change...** before plugging in the USB – Serial cable. iDimension software begins scanning for a new cable.



Figure 5-4. Cable Scan

3. Plug the cable into the iDimension USB port or the USB-hub. The cable will be detected.
4. Select **OK** to proceed.
5. Select **Save** to complete the serial emulation setup.



Figure 5-5. Cable Detected

The status of the serial port can be viewed from the **General Settings**. The status is only refreshed when the page is refreshed or after selecting the **Change...** dialog.



Figure 5-6. Serial Port Status

Serial Port Status	Description
Unused	Newly plugged in cable, not yet in use
Disconnected	Cable is saved in configuration but it is not plugged in physically
Listening	The cable plugged in is operating
Binding	Cable is plugged in and initializing
Failed	An error condition occurred; To get the details of the error, hover over the cable status indicator text and an info bubble with an extended error message will appear

Table 5-3. Serial Port Statuses

Configuring Date/Time

The **Date/Time** parameter sets the date and time. The date and time are used to time stamp configuration changes which affect the Legal-for-Trade certification.


1. In General Settings, select  to change the date and time settings of the unit.



Figure 5-7. Date and Time Tab

2. Select **Now** to set the date and time to match the local computer date and time or enter a new date and time.
3. Select a **Time Zone**.
4. Select **Done** to apply the settings.

5.1.2 External Cameras Tab

Adding external cameras, requires the configuration of the AXIS IP camera using the AXIS IP Utility program. Ensure the IP camera matches the PC network settings. The default static IP address of the camera is 192.168.0.90. See [Section 12.2 on page 87](#) for instructions on using the Axis IP utility program. The utility program is found on the installation thumb drive, located within the kiosk.

1. To add a new external camera, select **Add New Camera**.

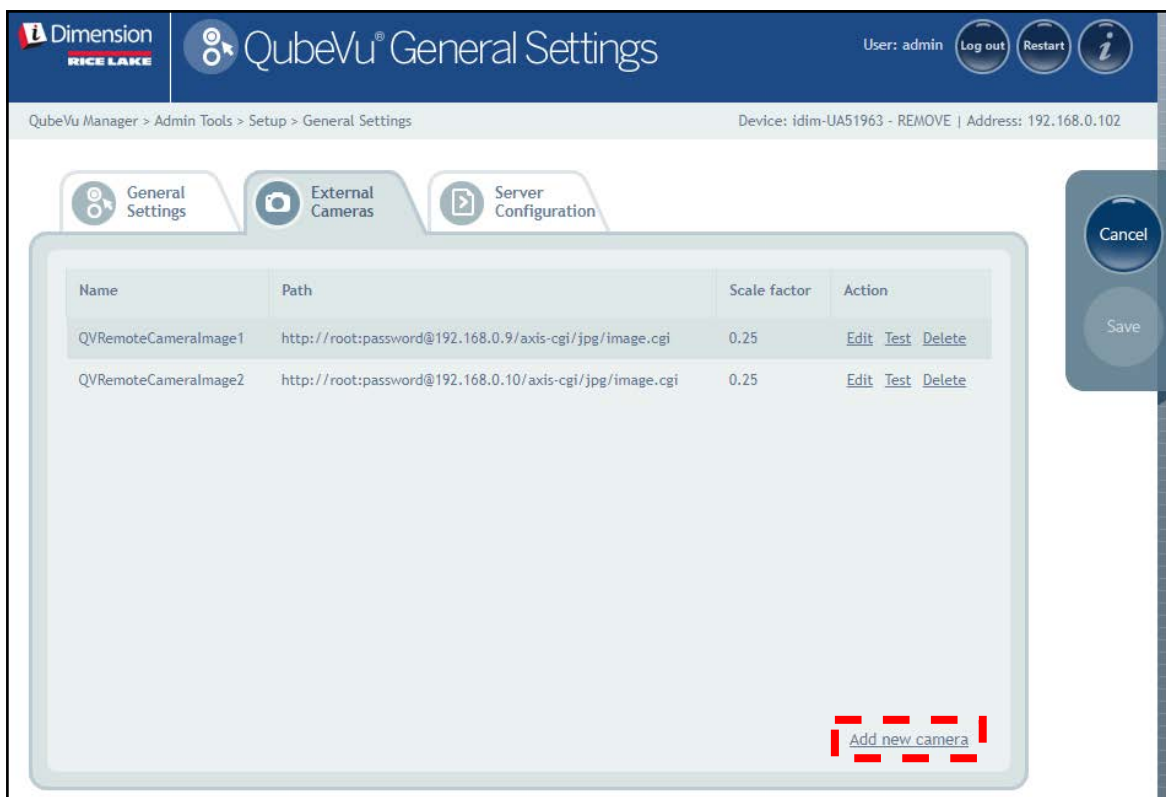


Figure 5-8. External Camera Tab

2. The page refreshes with temporary text added to Name, Path, and Scale factor columns.

Name	Path	Scale factor	Action
QVRemoteCameraImage1	http://admin.password@xx.xx.xx.xx/mjpg/video.mj	0.25	OK Cancel

Figure 5-9. Temporary Camera Information


3. Enter the desired camera name.



NOTE: The operator display only shows images named QVRemoteImageX (where X is the numerical order of the camera).

4. Configure the Path information (`http://username:password@xx.xx.xx.xx/mjpg/video.mjpg`) as the following:
 - username:password — User name and password credentials
 - @xx.xx.xx.xx — IP address of camera (for example 192.168.0.90)
 - Mpg/video.mjpg

- Set the Scale factor as 0.25.

 **NOTE: The scale factor shrinks the original image size to save bandwidth by a user defined percentage. In this example the images is reduced by 25 percent (0.25).**




- Select **OK**.
- Select  to continue.
- The QubeVu Manager restarts and returns to the Home page.
- Return to the external cameras tab and Select **Test**.
- Select .



Figure 5-10. External Camera

5.1.3 Server Configuration Tab

Provides server details where the device uploads measurement and image data.

 **NOTE: Currently only one server can be configured.**

Adding a server

- Files can be selected in the following ways:
 - Drag and drop the file in the Server #1 box.
 - Select **browse for files...** to pick server configuration file (see [Figure 5-11 on page 28](#)).

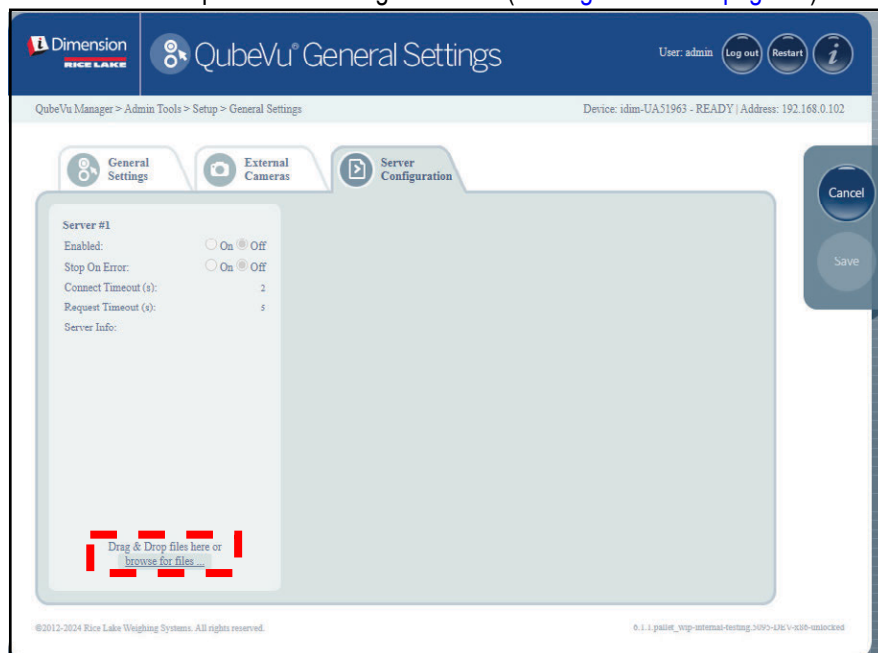


Figure 5-11. Server Configuration Tab

2. Adjust server parameters.

Server #1

Enabled: **1** On Off

Stop On Error: **2** On Off


Connect Timeout (s): **3**

Request Timeout (s): **4**

Server Info: **5**

Press Save to apply settings from:
aws.json

Figure 5-12. Server Configuration Parameters

3. Select .

Item No.	Parameter	Description
1	Enabled	Must be ON for system to upload measurement and image data to the server.
2	Stop On Error	On - System will stop uploading in case of error. Off - System will ignore upload errors and continue processing. NOTE: The system does not resend failed uploads.
3	Connect Timeout	Time in seconds the system will stop attempt to connect to the server.
4	Request Timeout	Time in seconds the system will stop attempt to send data to the server.
5	Server Info	Displays name of server.

Table 5-4. Server Configuration Parameters


5.2 Measurement Settings

Displays and allows a user to modify settings in the parameters menus.



IMPORTANT: Changing measurement parameters voids CubeVu's legal for trade certification.

To enter the **Measurement Settings** menu, perform the following information:

- Select  **Measurement Settings** from the **Setup** menu (Figure 5-1 on page 22). The **Measurement Settings** menu displays.
- A prompt appears describing the affect of changing Measurement parameters. If terms are acceptable select **OK**.

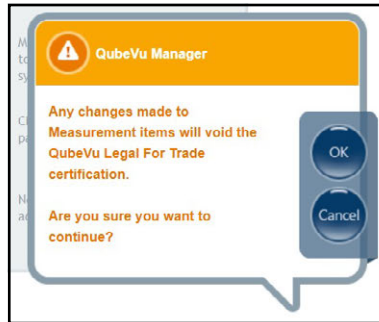


Figure 5-13. Measurement Settings Prompt

- Measurement Settings appears.

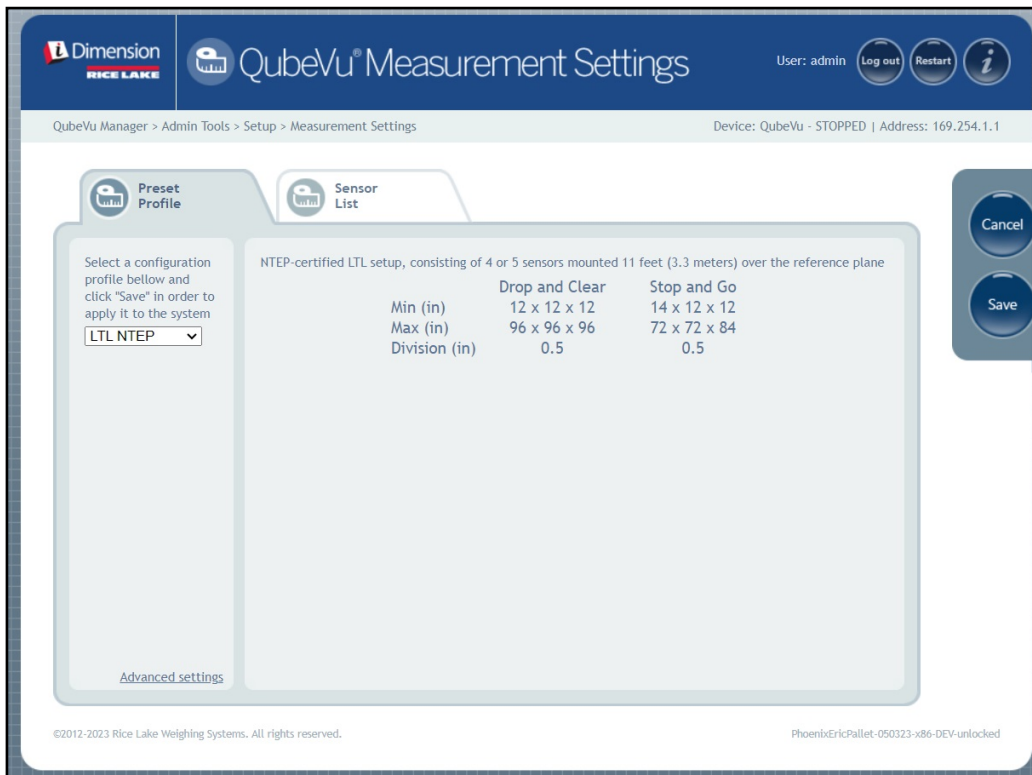


Figure 5-14. Measurement Settings Tab

The Measurement Settings menu contains two tabs:

- Preset Profile (Section 5.2.1)
- Sensors List (Section 5.2.3 on page 33)

5.2.1 Measurement Settings Tab

Modify the values within **Measurement Settings**. See [Table 5-2 on page 24](#) for parameter information.

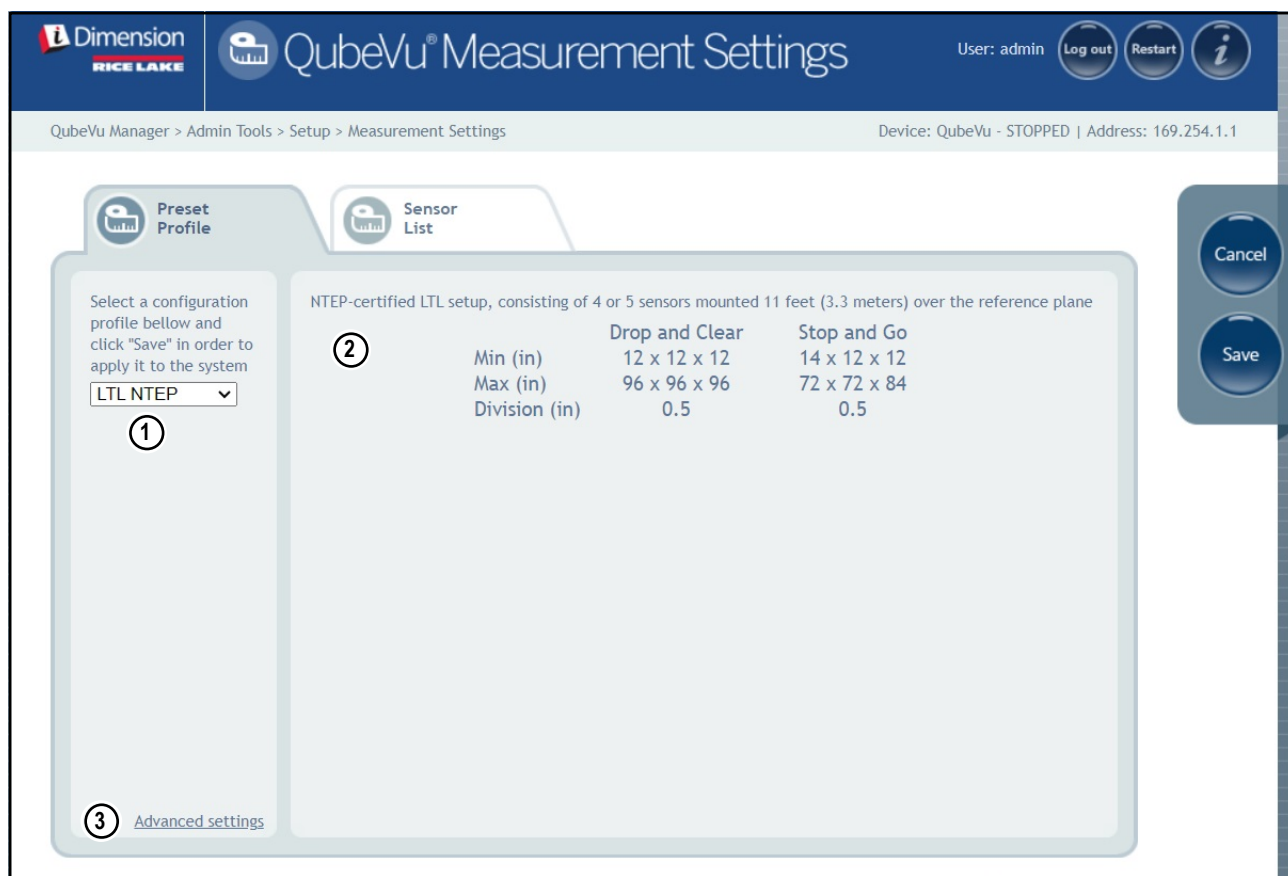


Figure 5-15. Measurement Settings Tab

Item No.	Parameter	Description
1	Preset profile	Multiple profiles configured with specific measurement settings: <ul style="list-style-type: none"> • LTL NTEP • LTLXLNTEP • Metric • US Customary
2	Profile description	Lists specifications of the Preset Profile
3	Advanced Settings	Opens Advanced Measurement Settings (see Section 5.2.2 on page 32)

Table 5-5. Measurement Settings Functions

5.2.2 Measurement Advanced Settings (Configuration Editor)

This menu contains various parameters that affect Measurements.

To enter the **Measurement Advanced Settings** menu, perform the following information:

- Select **Advanced settings** from the **Measurement Settings** menu (Figure 5-1 on page 22). The **Configuration Editor** menu displays.



IMPORTANT: Do not modify parameters without contacting Rice Lake Weighing Systems first.

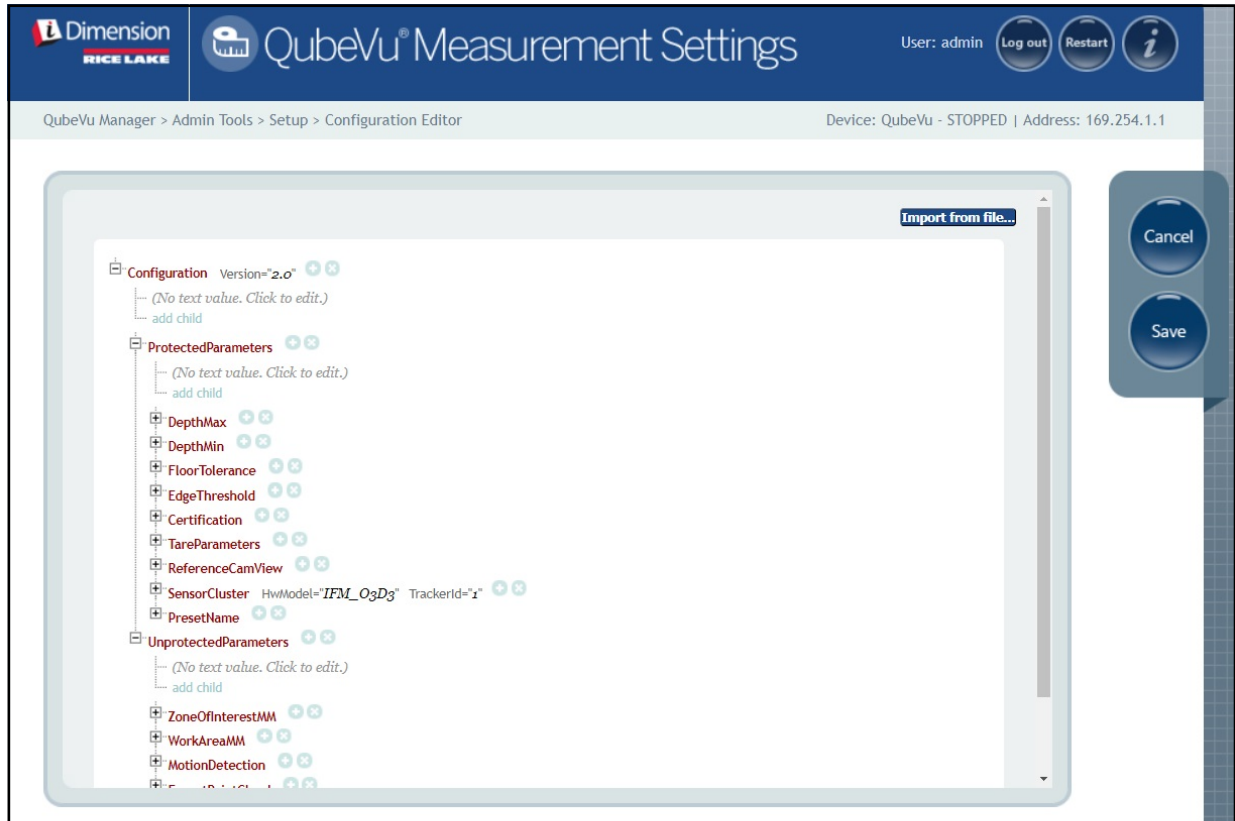


Figure 5-16. Measurement Advanced Settings

5.2.3 Sensor List Tab

The Sensor List tab provides access to the iDimension working status status and calibration status.

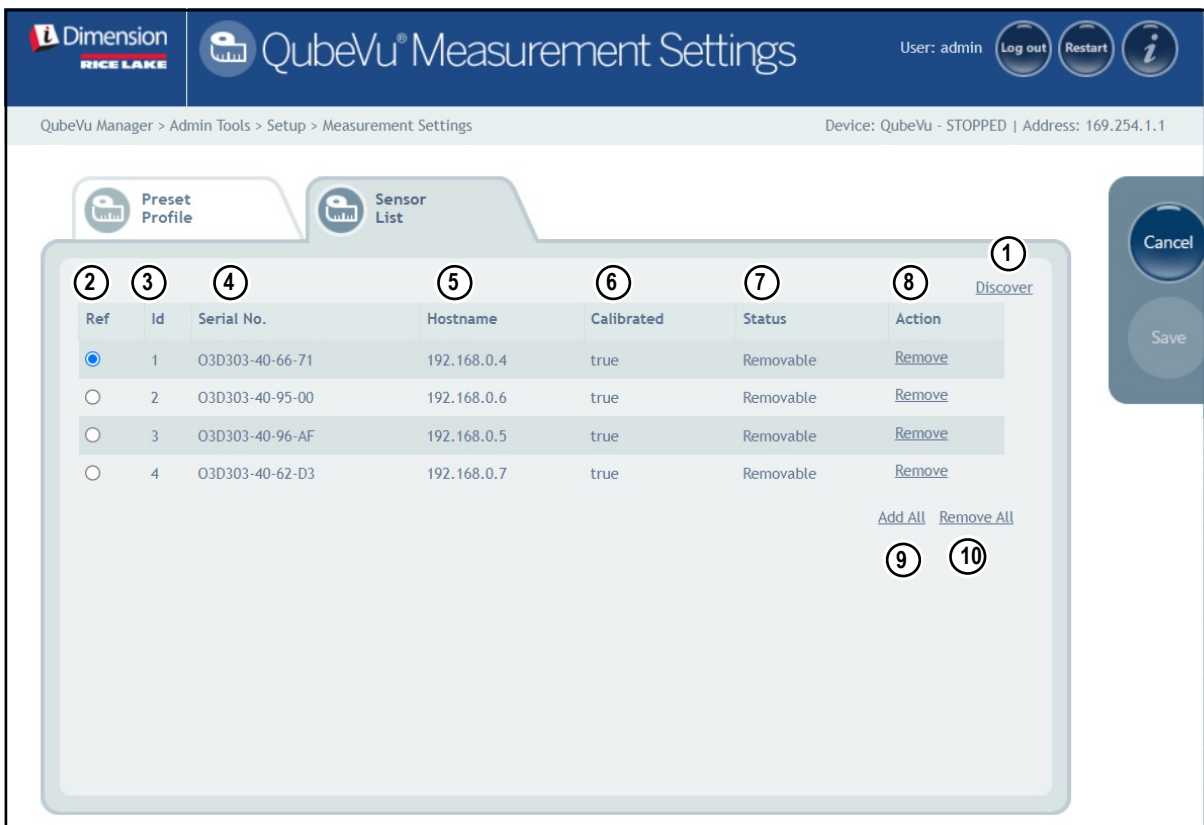


Figure 5-17. Sensors List Functions

Item	Parameter	Description
1	Discover	Upon a new installation, a "Remove All" function or sensor replacement; select Discover to update the Sensor List and firmware with IFM sensors used for the iDimension system
2	Ref	The "Ref" or reference selection configures which sensor will be used as the visual reference when configuring "Set Work Area" in the calibration menu and defines the Out-Of-Bounds indications on the USB display correctly; If a fifth overhead sensors is used, the iDimension software will automatically select this sensor as a reference sensor
3	ID	Automatic assignment of sensor by firmware; The id number is configured in the IFM sensor using the vision assistant
4	Serial No.	Serial number of IFM sensor
5	Host Name	IP address of IFM sensor; IP addresses are configured using the IFM vision assistant and must use the same network address and subnet with unique host numbers as the iDimension software Network settings The factory default setting of the IFM sensors are: <ul style="list-style-type: none"> • ID 1 = 192.168.0.4 • ID 2 = 192.168.0.5 • ID 3 = 192.168.0.6 • ID 4 = 192.168.0.7 • ID 5 = 192.168.0.8 (applicable for 5 sensor installation) • ID 6 = 192.168.0.24 (applicable for 8 sensor installation) • ID 7 = 192.168.0.25 (applicable for 8 sensor installation) • ID 8 = 192.168.0.26 (applicable for 8 sensor installation)

Table 5-6. Remote Sensor Discovery Settings

Item	Parameter	Description
6	Calibrated	The Calibrated parameter indicates whether or not the individual sensor has been calibrated <ul style="list-style-type: none"> No – During initial installation, the sensors have not been calibrated to the iDimension unit; Upon successful calibration, the status changes to Yes; If a sensor has been replaced in the field, a new serial No will appear and display No Yes – The remote sensors have been calibrated during initial installation; If the sensors, IP address has been changed in the field after installation, remove all sensors, perform a Discovery and add new sensors prior to a new calibration being performed
7	Status	The status filed defines the current connection status of each sensor after initial installation, Discovery and Add All have been performed <ul style="list-style-type: none"> Removable – Sensor has been identified during initial installation Pending Add – Sensor has not been added Disconnected – Sensor is not connected to network switch or sensor has error
8	Action	Available selections: <ul style="list-style-type: none"> Add – Individually add each sensor to embedded firmware for use wit; It is recommended to use Add All; After selecting this function calibration is required Remove - Individually remove each sensor from the embedded firmware; It is recommended to use Remove All when changing sensors or IP addresses, then use Add All; After selecting this function calibration is required
9	Add All	Adds all sensors when status is Pending Add; Calibration is required after selected
10	Remove All	Removes all sensors when status shows removable; For use when changing a sensor or changing IP addresses after calibration; Calibration is required after selected

Table 5-6. Remote Sensor Discovery Settings (Continued)

5.3 Display Settings

To access Display Settings:

- Select  Display Settings from the **Setup** menu (Figure 5-1 on page 22) to enter the **Display Settings** menu.

5.3.1 Operator Display

The display settings configures the functionality of the USB display.

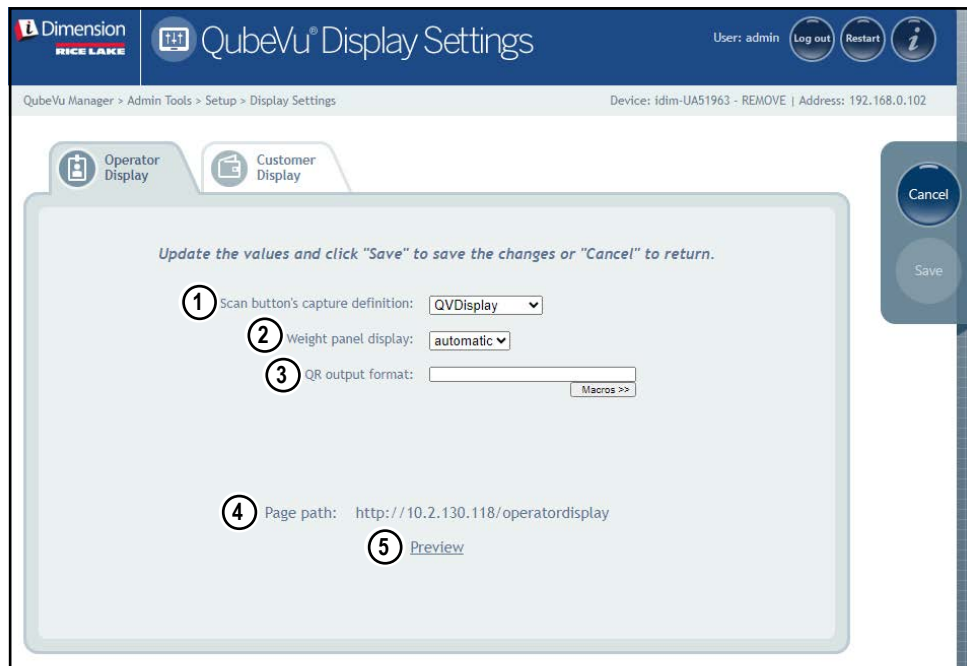


Figure 5-18. Operator Display



NOTE: See Section 3.1 on page 17 for touchscreen display information.


The scan button and live image feed are not available in the customer display.

Item No.	Parameter	Description
1	Scan button's capture definition	<p>Select a capture definition from the available list to add a Scan button onto the Operator Display. Adding a Scan button to the Operator Display enables manual triggering the system to perform a dimension.</p> <p>Available selections:</p> <ul style="list-style-type: none"> • QVDemo - The scan button performs the QVDemo scan • QVDisplay - The scan button performs the QVDisplay scan • Default - No scan button <p>NOTE: The parameters in this drop-down menu are retrieved from capture definitions (see See Section 7.0 on page 70).</p>
2	Weight panel display	<p>Default: Automatic</p> <p>Available selections:</p> <ul style="list-style-type: none"> • Automatic – USB display shows weight panel display with or without scale attached • Hidden – The weight panel display is removed from the USB display
3	QR output format	<p>Configures a QR code that is presented on the USB display.</p> <p>Macros provide definitions that may be selected:</p> <ul style="list-style-type: none"> • %DATETIME% • %CAPUREID% • %LENGHT% • %WIDTH% • %HEIGHT% • %VOLUME% • %DIMUNIT% • %WEIGHT% • %WEIGHT-LB% • %WEIGHT-KG% • %WEIGHTUNIT% • %DISPLAYWEIGHT% • %BARCODE% • %%%%
4	Page path	The address to the operator display page.
5	Preview	Displays a preview of the configuration

Table 5-7. Operator Display Settings

5.3.2 Customer Display

The display settings configures the functionality of the USB display.

- Select  **Display Settings** from the **Setup** menu (Figure 5-1 on page 22) to enter the **Display Settings** menu.
- Select the **Customer Display** tab.

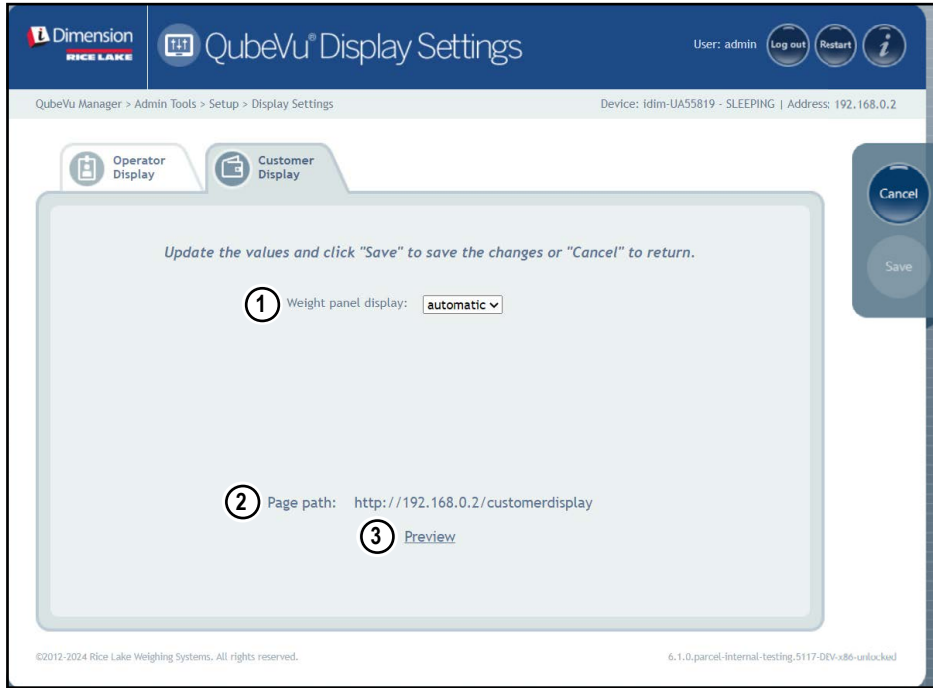


Figure 5-19. Customer Display



NOTE: See [Section 3.1 on page 17](#) for touchscreen display information.

The scan button and live image feed are not available in the customer display.

Item No.	Parameter	Description
1	Weight panel display	Default: Automatic Available selections: <ul style="list-style-type: none"> • Automatic – USB display shows weight panel display with or without scale attached • Hidden – The weight panel display is removed from the USB display
2	Page path	The address to the operator display page.
3	Preview	Displays a preview of the configuration

Table 5-8. Customer Display Settings

Display Examples

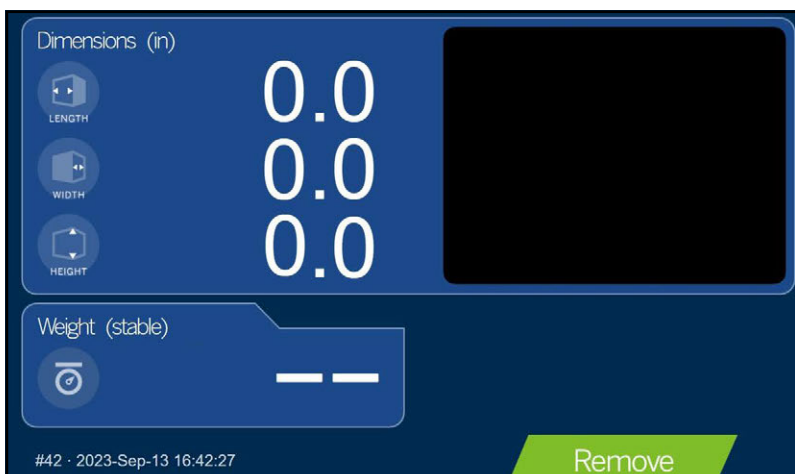


Figure 5-20. Default Display Screen

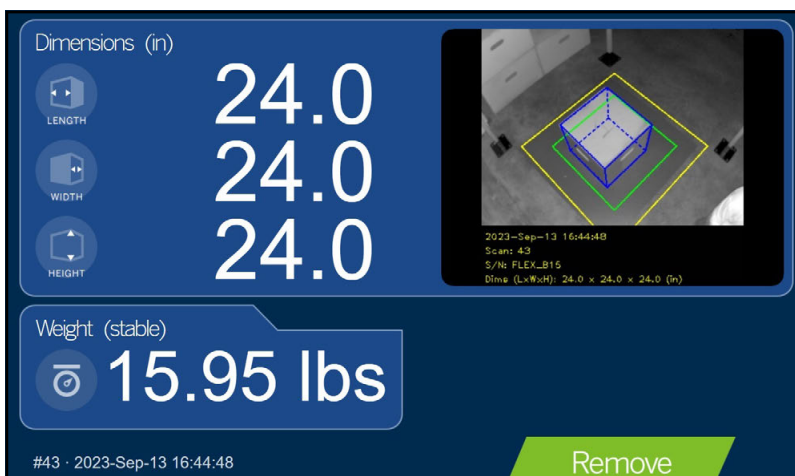


Figure 5-21. Customer Display




NOTE: The display screen shown in [Figure 5-21](#) is a different dimensioning unit and is only used for reference.

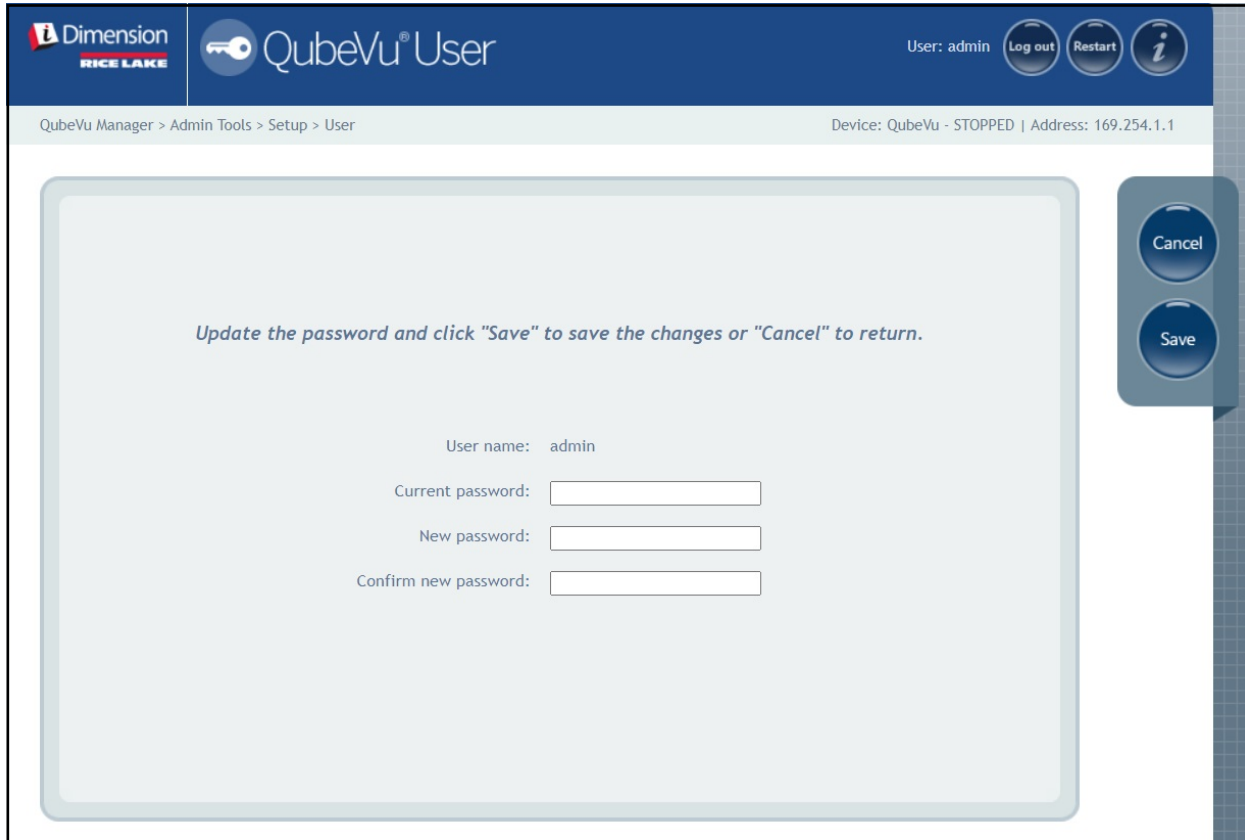


Figure 5-22. Example Display Screen with QR code

5.4 User

This section provides an overview of the QubeVu **User** menu. The **User** menu provides access to modify the default password. To enter the **User** menu, perform the following information:

- Select  **User** from the **Setup** menu (Figure 5-1 on page 22). The **User** menu displays.



Dimension
RICE LAKE

QubeVu® User

User: admin Log out Restart i

QubeVu Manager > Admin Tools > Setup > User Device: QubeVu - STOPPED | Address: 169.254.1.1

Cancel

Save

Update the password and click "Save" to save the changes or "Cancel" to return.

User name: admin

Current password:

New password:

Confirm new password:

Figure 5-23. User Tab

When entering a new password, adhere to the following criteria:


- Minimum length: 6 characters
- Maximum length: 511 characters
- All printable characters are allowed except Unicode characters
- Password may not resemble the last password



NOTE: Factory assistance is required to reset the password.

5.5 Network

Use the **Network** menu to configure network parameters. To enter the **Network** menu, perform the following:

- Select  **Network** from the **Setup** menu (Figure 5-1 on page 22). The **Network** menu displays.

5.5.1 Network Settings Tab

Network Settings tab provides parameters that set the network configuration.

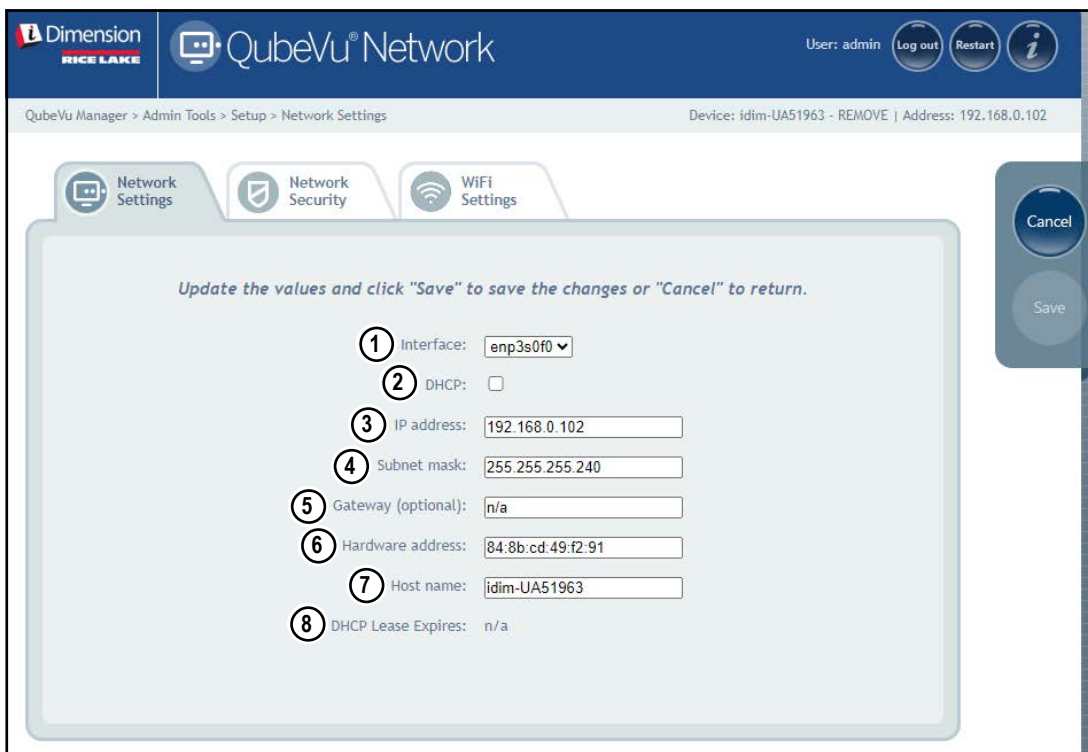


Figure 5-24. Default Network Interface Settings

Enter or modify the network settings for the network.

Item No.	Parameter	Description
1	Interface	There are two Ethernet parameters, eth0 or eth. These parameter configure which port is used on the system. Default: eth0
2	DHCP	Enables or disables DHCP.
3	IP Address	If DHCP is disabled, define a unique IP address for each iDimension pallet dimensioner installed. Consult with the network administrator if unsure how to assign a new IP address. If using static IP addresses, access pallet dimensioner by the hostname or the IP address: http://<hostname>; http://<ip address>/ Default IP address: 192.169.0.1
4	Subnet Mask	Consult the network administrator for the correct setting Default: 255.255.255.0
5	Gateway	Consult the network administrator for the correct setting Default: 192.168.0.2 NOTE: The Gateway parameter is unavailable when DHCP is enabled.
6	Hardware Address	Do not modify, each iDimension pallet dimensioner has been assigned a unique hardware MAC address.
7	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
8	DHCP Lease Expires	Displays the time when DHCP lease expires. The DHCP lease time is typically set by the internet service provider and varies in duration.

Table 5-9. Network Interface Parameters

5.5.2 Network Security Tab

Network Security tab allows enhanced security by encrypting communications with iDimension software using Hypertext Transfer Protocol Secure (HTTPS). By default, communication with iDimension software is via HTTP.

To configure **Network Security**, perform the following:

1. Select the **Network Security** tab to display the current settings.
2. Select **Enable HTTPS**.
3. Select **Choose File**.
4. Select the certification file.
 - Certifications may be self-signed or sourced by third-parties and are not exclusively provided by Rice Lake Weighing Systems
5. Enter the file name of the key file, certificate file and key pass phrase.
6. Select **Upload** to transfer the information from the PC to the iDimension software.

QubeVu Manager > Admin Tools > Setup > Network Settings

Device: idim-UA51963 - REMOVE | Address: 192.168.0.102

User: admin Log out Restart Info

Network Settings Network Security WiFi Settings

SSL certificate

Public key algorithm	rsaEncryption
Issuer	CN = QubeVuCharlestownTestCA, C = US, L = Charlestown
Subject	C = US, ST = Massachusetts, L = Charlestown, O = QubeVuTest, OU = QubeVuTest, CN = QubeVuCharlestownTestCA
Validity	Nov 2 15:34:26 2022 GMT to Nov 2 15:34:26 2023 GMT
Usage	
Thumb print algorithm	sha1
Thumb print	40:5e:a4:d6:eb:3f:3e:49:7f:5e:dc:87:98:f9:4d:f4:ef:4b:f8:28

Enable HTTPS:

Upload new key and certificate

Key file: **Choose File** No file chosen Cert file: **Choose File** No file chosen

Key pass phrase:

Upload

Cancel Save

Figure 5-25. Network Security Tab



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

5.5.3 WiFi Settings Tab

The **WiFi Settings** displays WiFi connection characteristics and details.

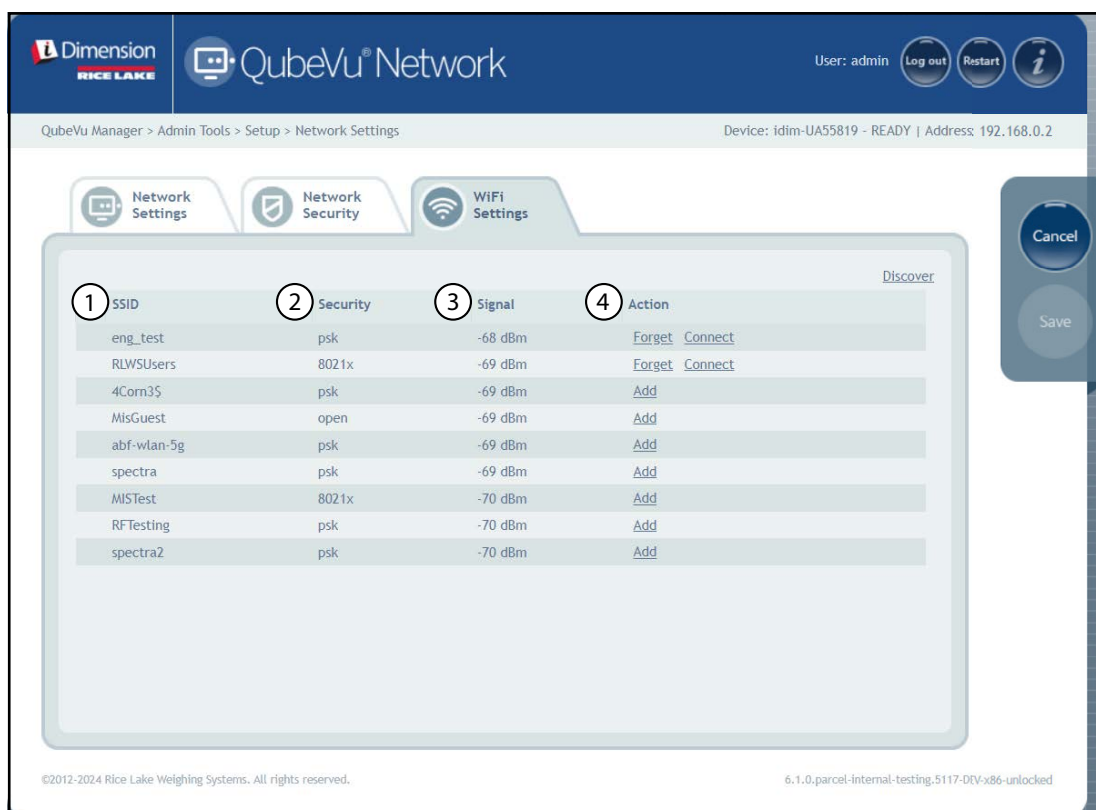


Figure 5-26. WiFi Settings Tab

Item No.	Parameter	Description
1	SSID	Name of the wireless network
2	Security	Network security type: <ul style="list-style-type: none"> open - no authentication psk - pre-shared key used for authentication 8021x - WPA Enterprise security
3	Signal	Signal strength of wireless network
4	Action	Available actions: <ul style="list-style-type: none"> Add - adds the wireless network to the list of remembered networks and connects Connect - connects to a previously added wireless network Disconnect - disconnects from a connected the wireless network Forget - removes the wireless network from the list of remembered networks

Table 5-10. WiFi Setting Parameters

6.0 Calibration

This section provides an overview of the QubeVu **Calibration** menu. Calibration is required during initial setup, adding sensors, replacing sensors or if the sensors have become out of alignment during use. This sections discusses the following topics:

- Calibration Object [Section 6.1 on page 42](#)
- Accessing Calibration [Section 6.2 on page 43](#)
- FLEX, LTL, and PWD Calibration [Section 6.3 on page 44](#)
- LTL XL Calibration [Section 6.4 on page 50](#)
- Plus Calibration [Section 6.5 on page 59](#)
- Set Work Area [Section 6.6 on page 65](#)
- Verify Calibration [Section 6.7 on page 69](#)

6.1 Calibration Object

A calibration object is provided with each unit and is required for calibration. There are three types of calibration objects:

- 8 x 7 square checkerboard (1118 mm x 982 mm / 44.02 in x 38.66 in) packaged in a carton with protective foam inserts
- 7 x 6 square checkerboard (980 mm x 840 mm / 38.58 in x 33.07 in) packaged in a carton with protective foam inserts
- 7 x 6 square checkerboard (288 mm x 252 mm / 11.33 in x 9.92 in) packaged in a carton with protective foam inserts



NOTE: The calibration procedure remains the same regardless which calibration object is used.

The smallest checkerboard is only used with the iDim Plus.



IMPORTANT: The calibration objects must be kept free from dirt, fingerprints and damage.

To store the calibration object, carefully repackage the calibration object back into the carton for future use.

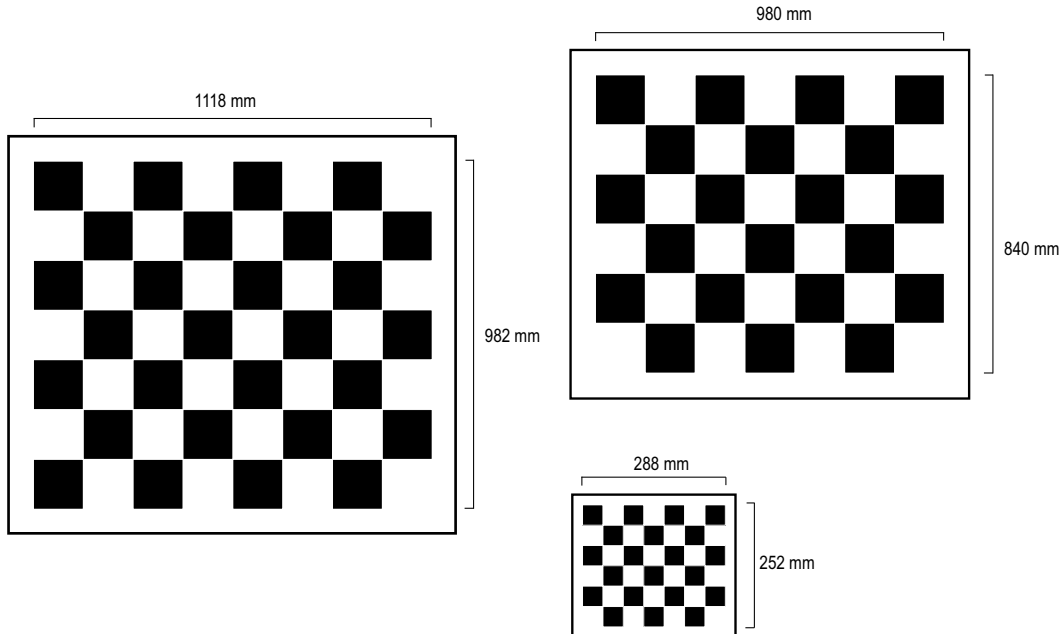




Figure 6-1. Calibration Objects

6.2 Accessing Calibration

To enter the **Calibration** menu, perform the following:

1. Select  **Admin Tools** from the **QubeVu Manager** menu (Figure 2-1 on page 8). The **Admin Tools** menu displays (Figure 4.0 on page 21).
2. The QubeVu Manager login screen displays. Enter account credentials.

 **NOTE:** The default username and password are admin and password.

3. Select  **Calibration** from the **Admin Tools** menu (Figure 4.0 on page 21). The **Calibration** menu displays.

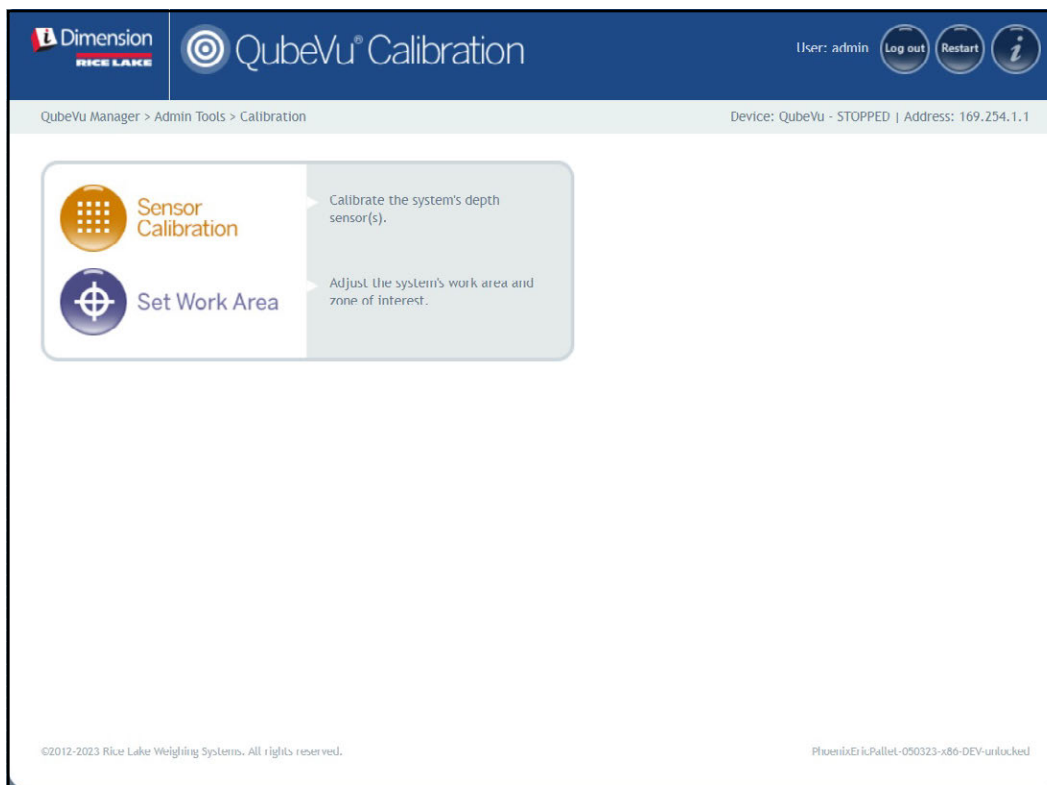



Figure 6-2. Calibration Menu

4. Proceed to one of the following:
 - [Section 6.3 on page 44](#) for Flex, LTL and PWD calibration
 - [Section 6.4 on page 50](#) for LTL XL calibration

6.3 FLEX, LTL, and PWD Calibration

Initial setup requires alignment of sensors towards the middle of the floor scale or calibration object using crosshairs. Calibration requires the use of the calibration object and requires a 5-point procedure. Calibration is performed by placing the calibration object at the 4 o'clock position (120°) and rotating the object clockwise 30° each step.

1. Select  **Sensor Calibration** from the **Calibration** menu (Figure 6-2 on page 43). The **Sensors Calibration** menu displays.

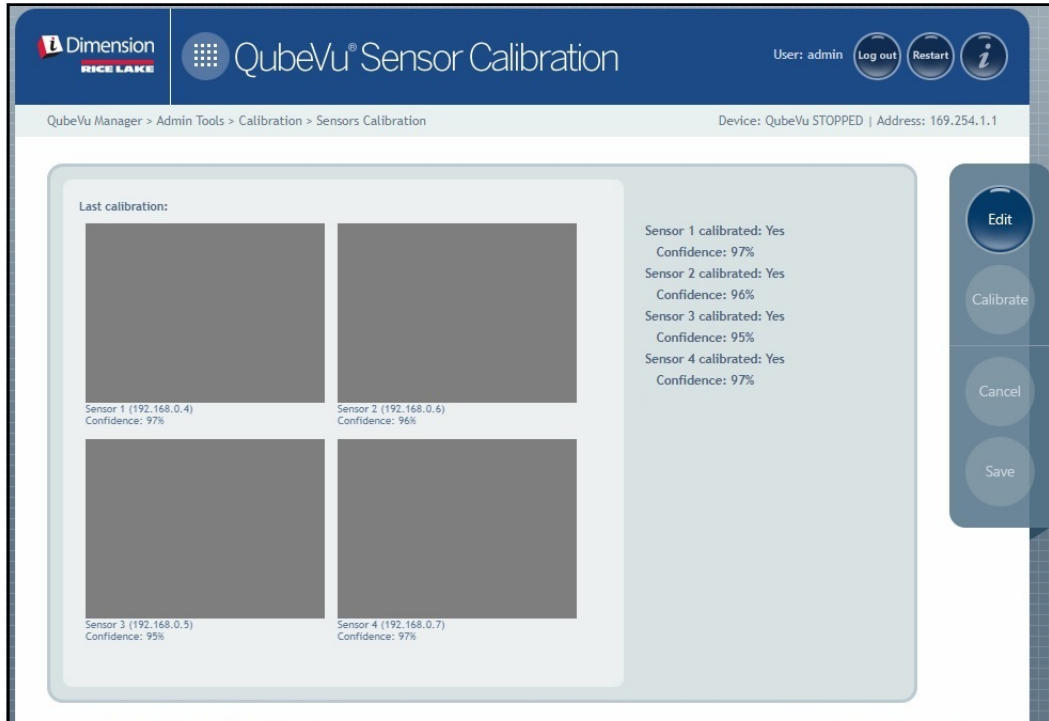



Figure 6-3. Sensors Calibration

2. Select  **Edit** to enter configuration mode. The switching to configuration mode pop-up message briefly displays.



NOTE: Select the internet browser's refresh if the message does not close after several minutes.

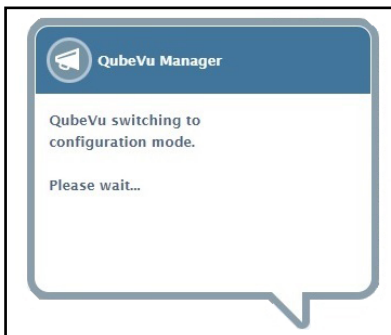


Figure 6-4. Switching to Calibration Mode Message

3. Align calibration object under remote sensors using sensor crosshairs as guides to center:
 - Ensure sensor rods are securely mounted in place
 - Exact alignment is not critical
 - Alignment defines the calibration position of each sensor

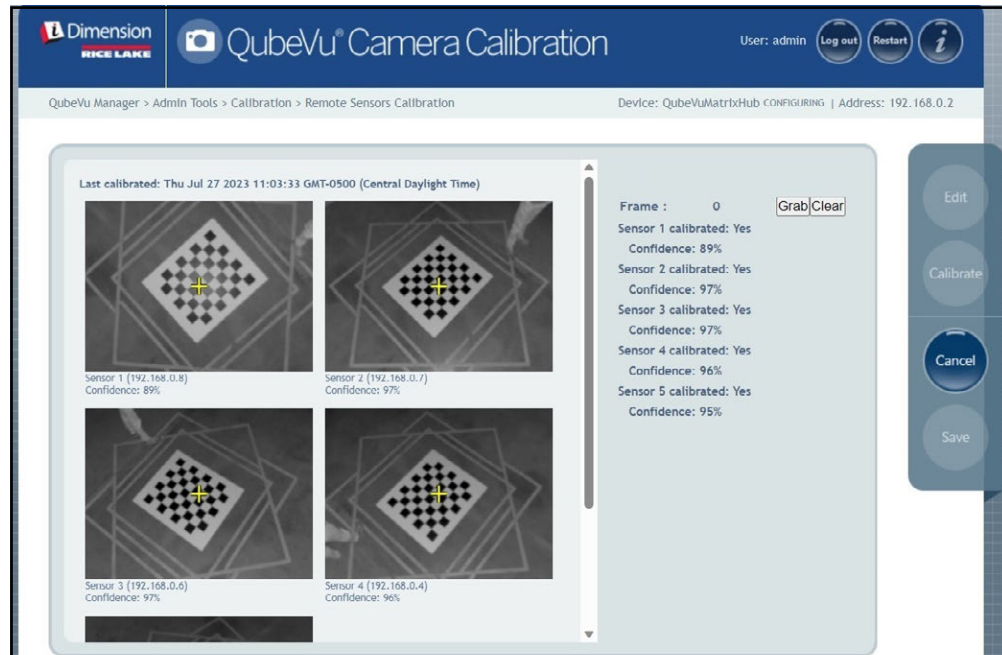


Figure 6-5. Sensors Calibration

4. Select **Grab**. The grabbing frame pop-up message briefly displays.



Figure 6-6. QubeVu Frame Grabbing Message

- The first frame is now collected. Observe the frame counter increased from 0 to 1.

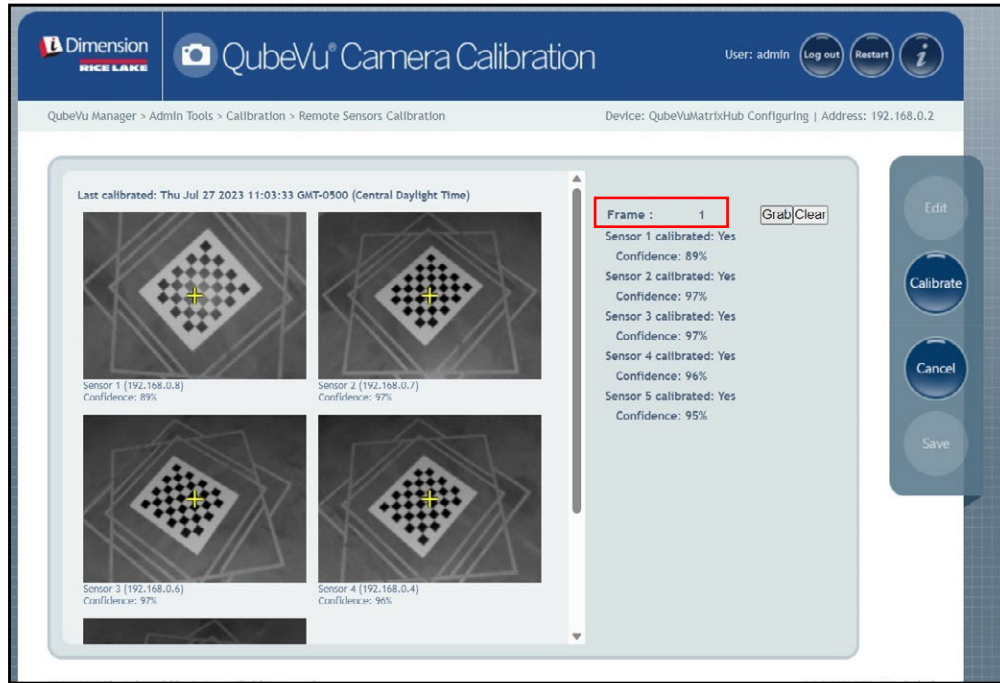


Figure 6-7. Sensors Calibration

- Rotate the calibration object clockwise for the next grab as indicated in Table 6-1.
- Repeat steps Step 3 through Step 6 four additional instances (a total of 5 grabs).

Grab/Rotation	Calibration Object Position with Tower	Calibration Object Position when Hanging
2/1		

Table 6-1. Required Calibration Object Orientation

Grab/Rotation	Calibration Object Position with Tower	Calibration Object Position when Hanging
3/2		
4/3		
5/4		

Table 6-1. Required Calibration Object Orientation (Continued)

- When all frame grabs are completed, QubeVu displays calibration results and sensor confidence levels.

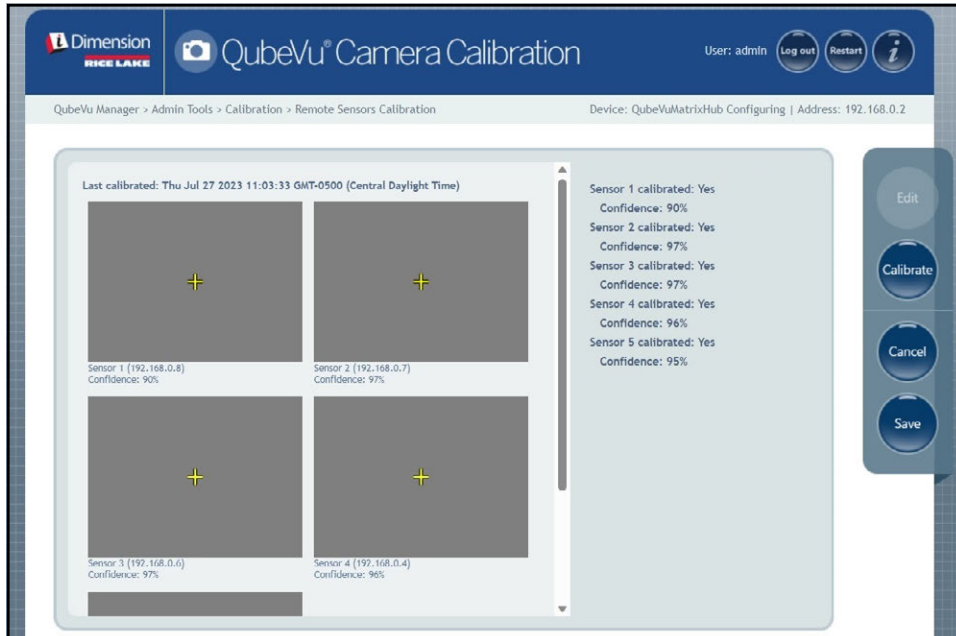


Figure 6-8. Sensor Calibration Result

 **NOTE:** If calibration fails, check for direct sunlight affecting the system then perform a new calibration.

- Select . The calibration details prompt displays.

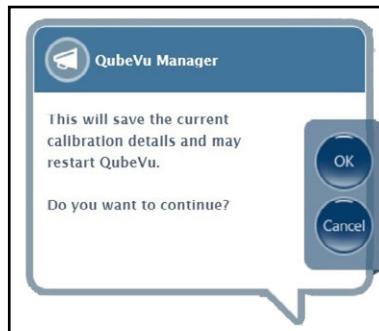



Figure 6-9. Calibration Details Save Prompt

- Select  to continue.

11. After calibration details are saved, the restart or reboot prompt displays.
12. Select the desired option and allow QubeVu to process the command.



Figure 6-10. Reboot or Restart Prompt

13. A message displays alerting of choice selected. In this example restart is selected.

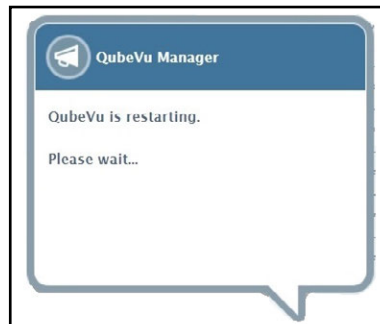



Figure 6-11. Restart Message

14. Calibration is complete. Proceed to [Section 6.6 on page 65](#).

6.4 LTL XL Calibration

Initial setup requires alignment of sensors towards the middle of the floor scale or calibration object using crosshairs. During calibration, frames of the calibration object are grabbed at strategic positions under S1 (4), S2 (4), and directly under the device (2). Under S1 and S2, the calibration object is positioned at the 3 o'clock position and rotated clockwise 30° each step. When directly under the device, the calibration object is positioned on the floor scale at the 3 o'clock position and rotated clockwise 30° once.

1. Select  **Sensor Calibration** from the **Calibration** menu (Figure 6-2 on page 43). The **Remote Sensors Calibration** menu displays.

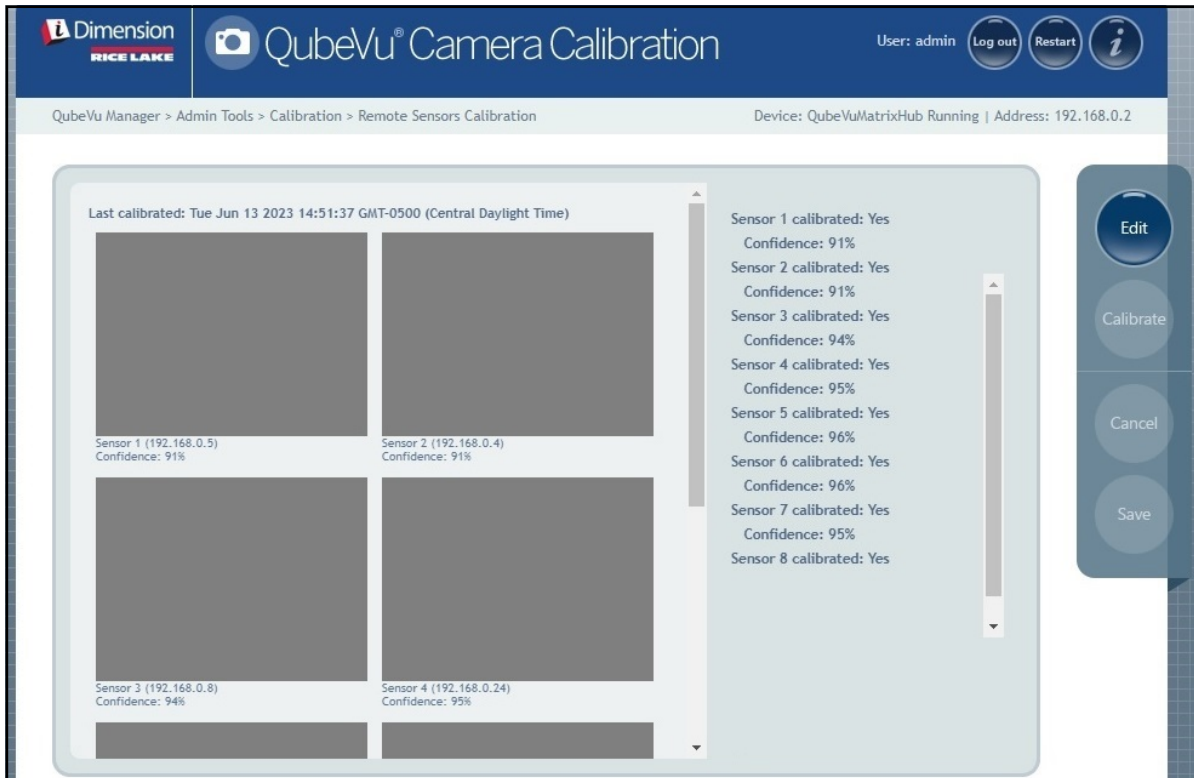



Figure 6-12. Remote Sensors Calibration

2. Select  **Edit** to enter configuration mode. A pop-up window briefly displays.



NOTE: Refresh the internet browser if the message does not close after several minutes.



Figure 6-13. Switching to Configuration Message

3. Place the calibration object directly under the reference sensor (S1) and then align S3/S5/S7 sensors to the center of the calibration object:
 - Ensure the sensor rods are securely mounted in place
 - Exact alignment is not critical
 - Alignment defines the calibration position of each sensor

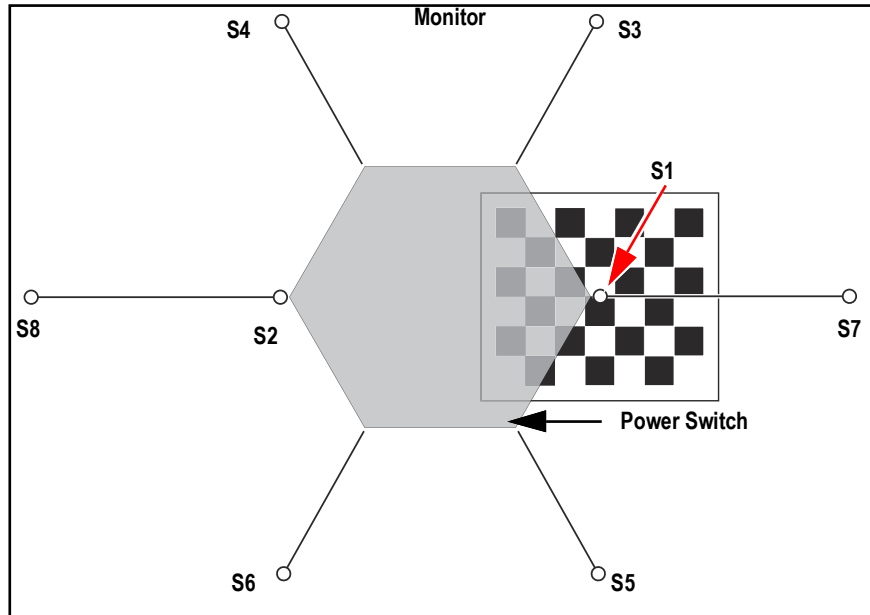


Figure 6-14. Calibration Object Under S1 and Aligned with S3/S7/S5

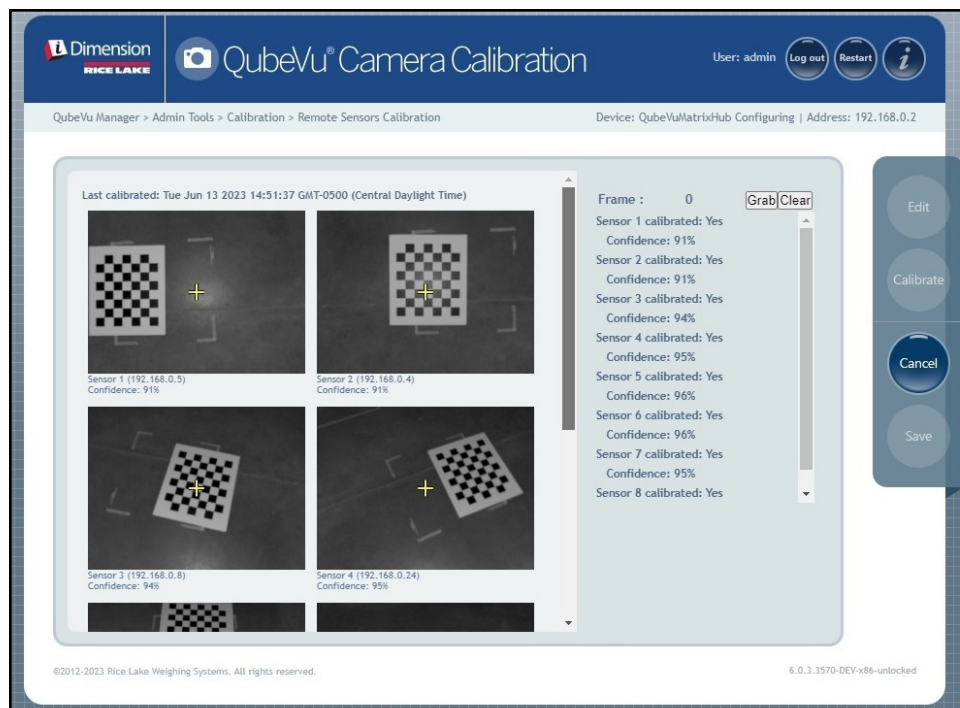


Figure 6-15. Calibration Object Under S1

4. Select **Grab**. The grabbing frame pop-up message briefly displays.

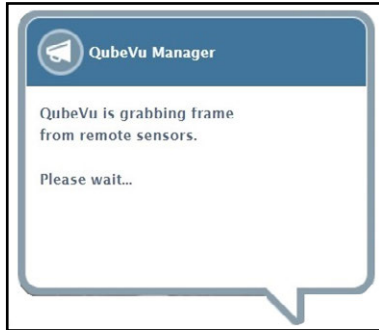


Figure 6-16. QubeVu Frame Grabbing Message

5. The first frame is collected and the Frame parameter increases to 1.
6. Rotate the calibration object clockwise for the next grab as indicated in [Table 6-2](#).
7. Repeat steps [Step 4](#) through [Step 6](#) three additional instances (a total of 4 grabs for S1).

Grab/Rotation	Calibration Object Position	Grab/Rotation	Calibration Object Position
2/1		4/3	
3/2			

Table 6-2. Calibration Object Orientation for Sensors S1/S3/S7/S5

8. Place the calibration object directly under the reference sensor (S2) and then align S4/S6/S8 sensors to the center of the calibration object:
 - Ensure the sensor rods are securely mounted in place
 - Exact alignment is not critical
 - Alignment defines the calibration position of each sensor

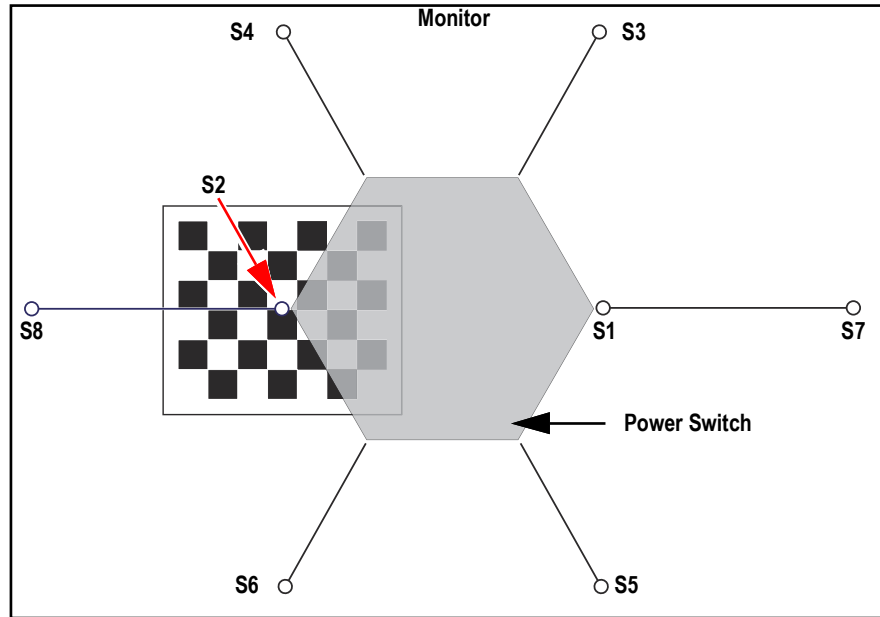


Figure 6-17. Calibration Object Under S3 and Aligned with S/S4/S6/S8

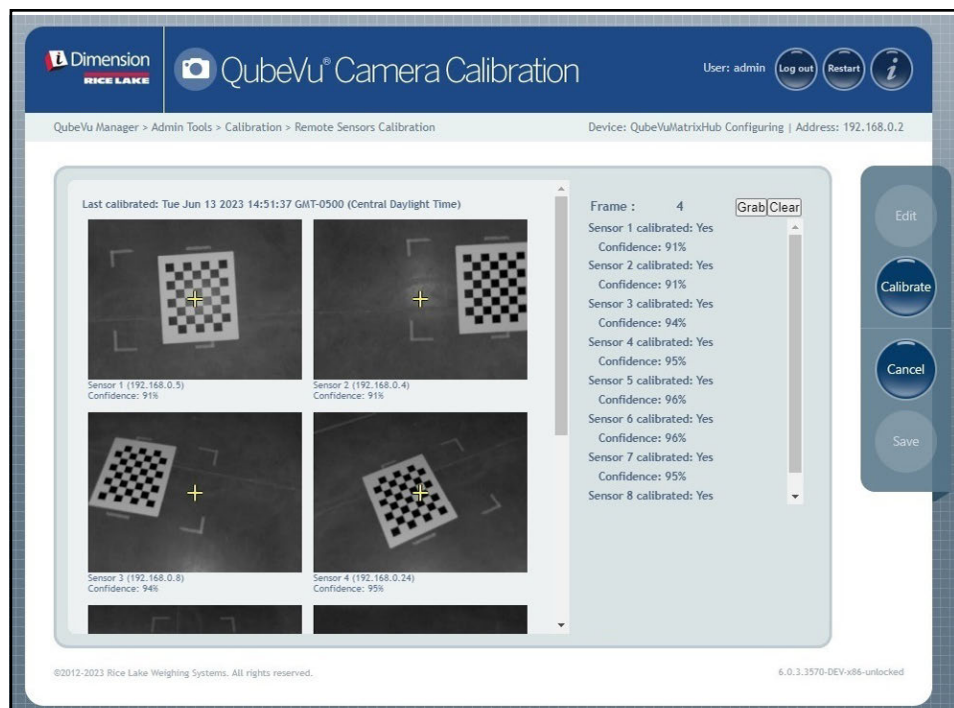


Figure 6-18. Calibration Object Centered Under S2

9. Select **Grab**. The grabbing frame pop-up message briefly displays.

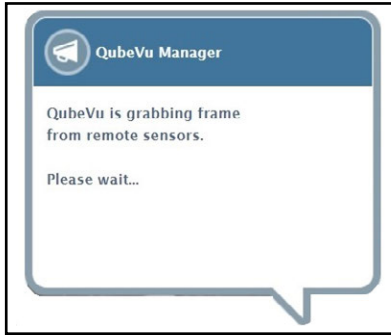


Figure 6-19. QubeVu Frame Grabbing Message

10. The frame is collected and the Frame parameter increases by one.
11. Rotate the calibration object clockwise for the next grab as indicated in Table 6-3.
12. Repeat steps Step 9 through Step 11 three additional instances (total of 4 grabs for S2).

Grab/Rotation	Calibration Object Position	Rotation	Calibration Object Position
6/1		8/3	
7/2			

Table 6-3. Calibration Object Orientation for Sensors S2/S8/S4/S6

13. Center the calibration object directly under the dimensioner.

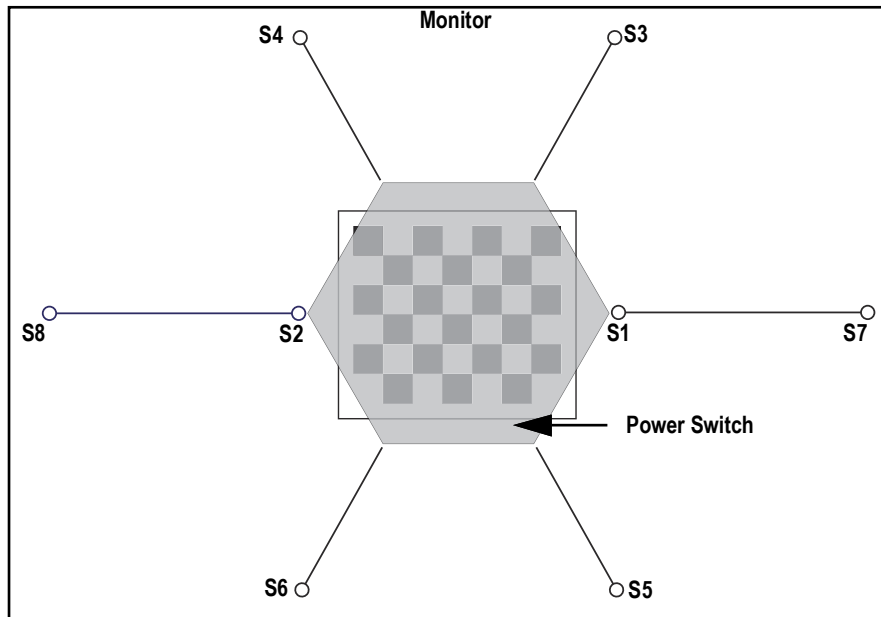


Figure 6-20. Calibration Object Under Dimensioner

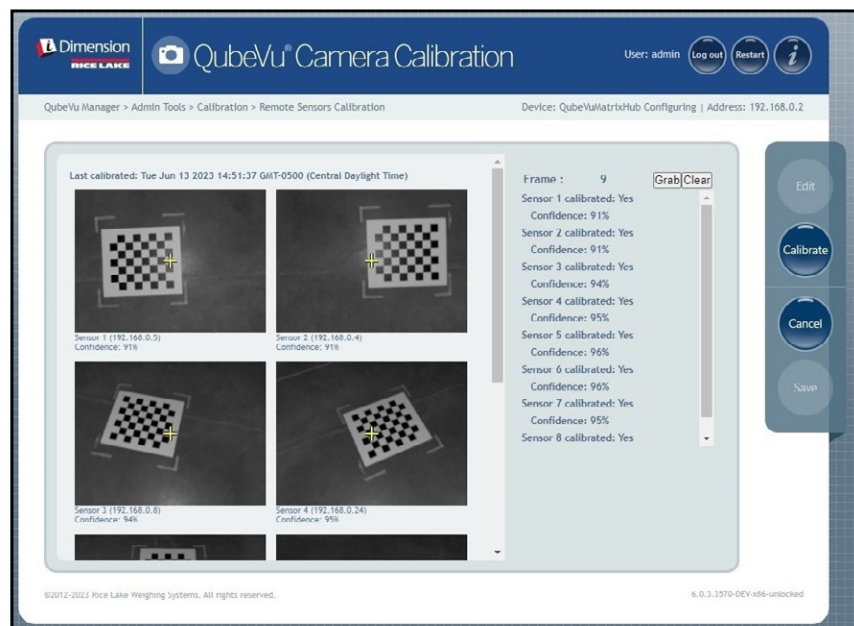


Figure 6-21. Calibration Object Under Dimensioner

14. Select **Grab**. The grabbing frame pop-up message briefly displays.

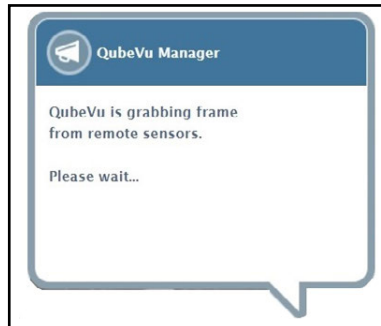


Figure 6-22. QubeVu Frame Grabbing Message

15. After the message closes, rotate calibration object 30° clockwise.

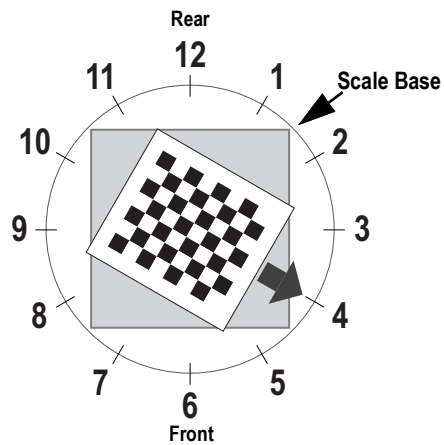


Figure 6-23. Rotate to 4 o'clock

16. Select **Grab**. The grabbing frame pop-up message briefly displays.

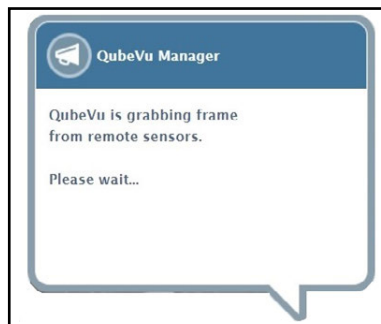


Figure 6-24. QubeVu Frame Grabbing Message


17. Select . The calibrating sensors pop-up message briefly displays.



Figure 6-25. Sensors Calibrating Message

18. Calibration completes and QubeVu displays calibration result and sensor confidence levels.

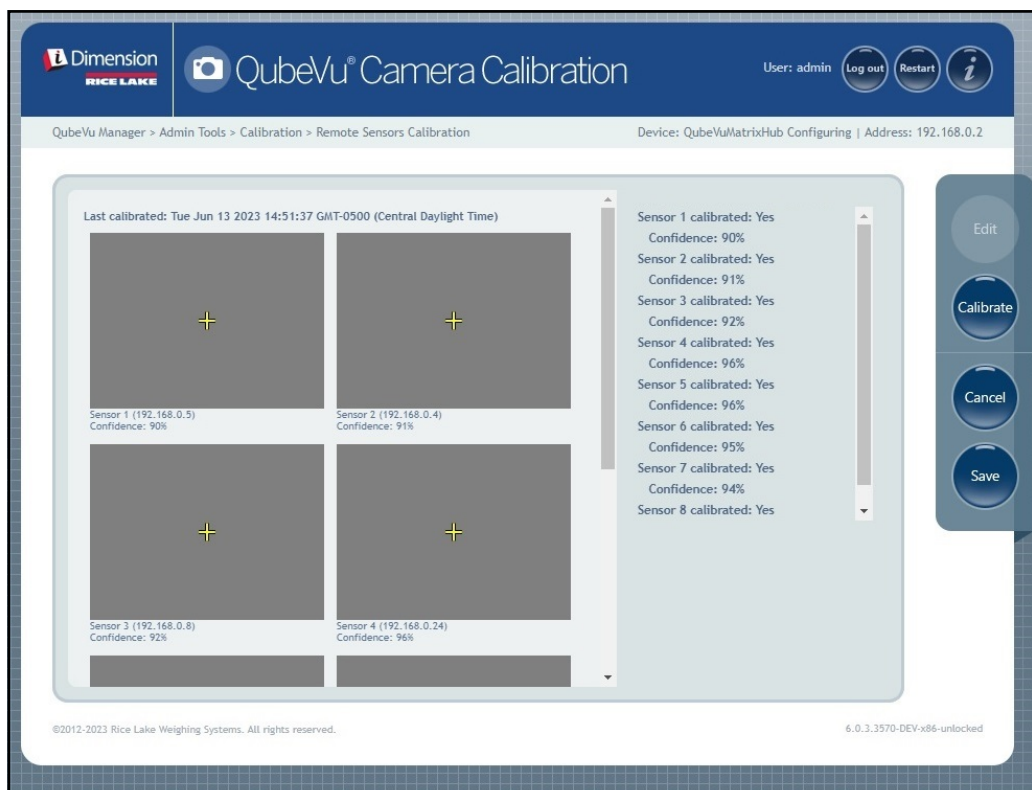



Figure 6-26. Sensor Calibration Result



NOTE: If calibration fails, check for direct sunlight affecting the system then perform a new calibration.

19. Select . The save calibration details prompt displays.

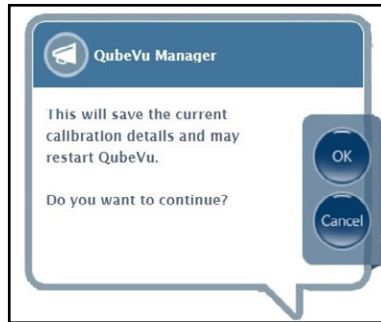



Figure 6-27. Save Calibration Details Prompt

20. Select . The calibration saving message displays.

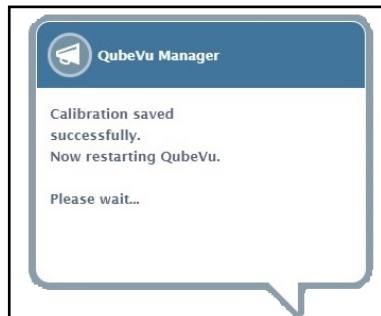


Figure 6-28. Calibration Saving Message

21. After the save is completed, restart message displays while QubeVu restarts.

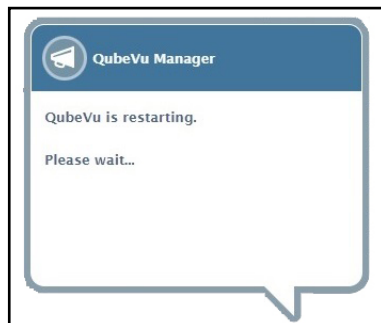


Figure 6-29. QubeVu Restart Message


22. After QubeVu restarts, calibration is complete. Proceed to [Section 6.6 on page 65](#).

6.5 Plus Calibration

Initial setup requires alignment of sensors toward the middle of the floor scale or calibration object using crosshairs. Calibration requires the use of the calibration object with a 4-point procedure. Calibration is performed by placing the calibration object at the 6 o'clock position (180°) and rotating the object clockwise 30° each step.



NOTE: Calibration should only be performed if the unit has been powered on for at least 20 min.

1. Select  **Sensor Calibration** from the **Calibration** menu (Figure 6-2 on page 43). The **Sensors Calibration** menu displays.

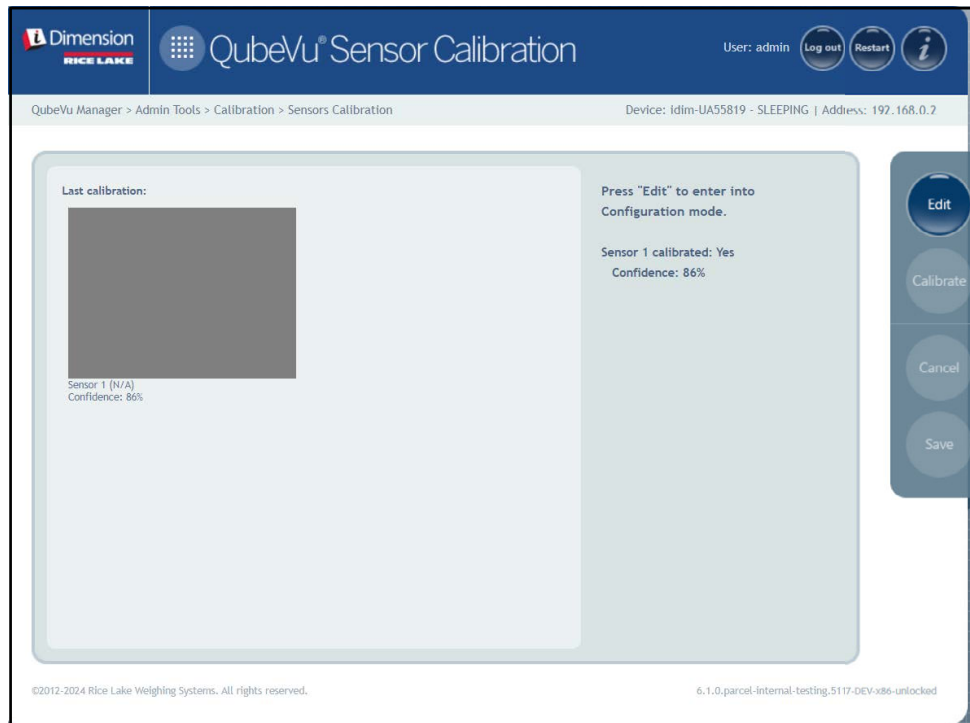



Figure 6-30. Sensors Calibration

2. Select  to enter configuration mode. The switching to configuration mode pop-up message briefly displays.



NOTE: Select the internet browser's refresh button if the message does not close after several minutes.

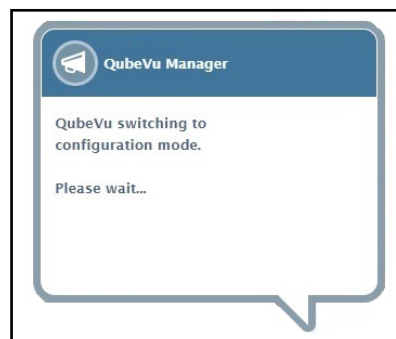


Figure 6-31. Switching to Calibration Mode Message

- Align calibration object under remote sensors using sensor crosshairs as guides to center:
 - Ensure sensor rods are securely mounted in place
 - Exact alignment is not critical
 - Alignment defines the calibration position of each sensor

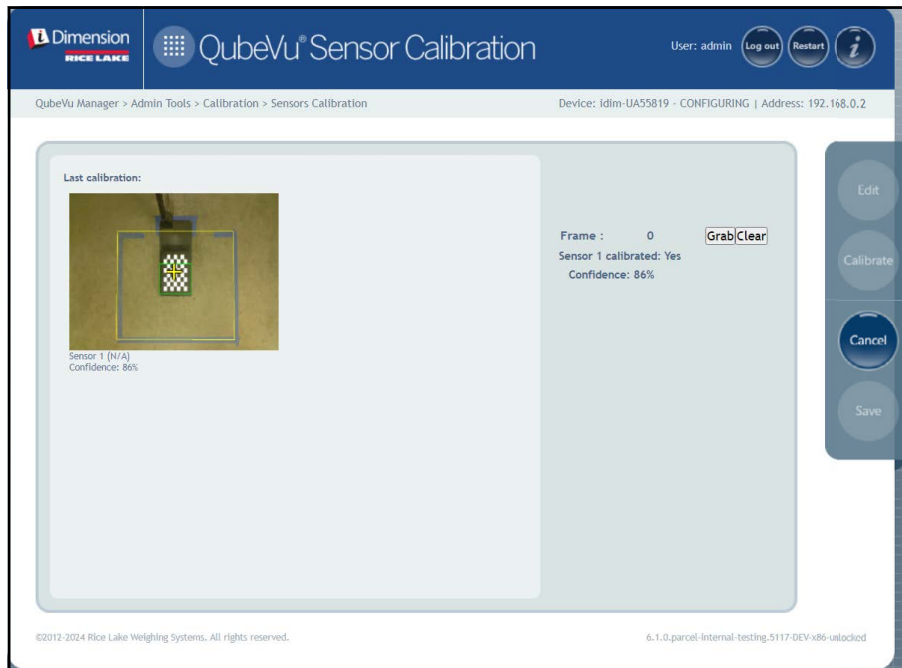


Figure 6-32. Sensors Calibration

- Select **Grab**. The grabbing frame pop-up message briefly displays.

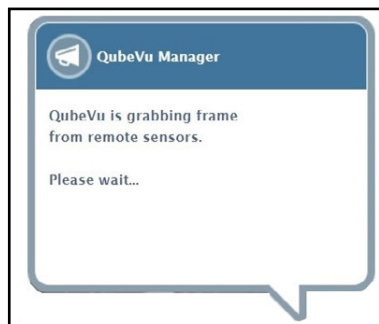


Figure 6-33. QubeVu Frame Grabbing Message

- The first frame is now collected. Observe the frame counter increased from 0 to 1.

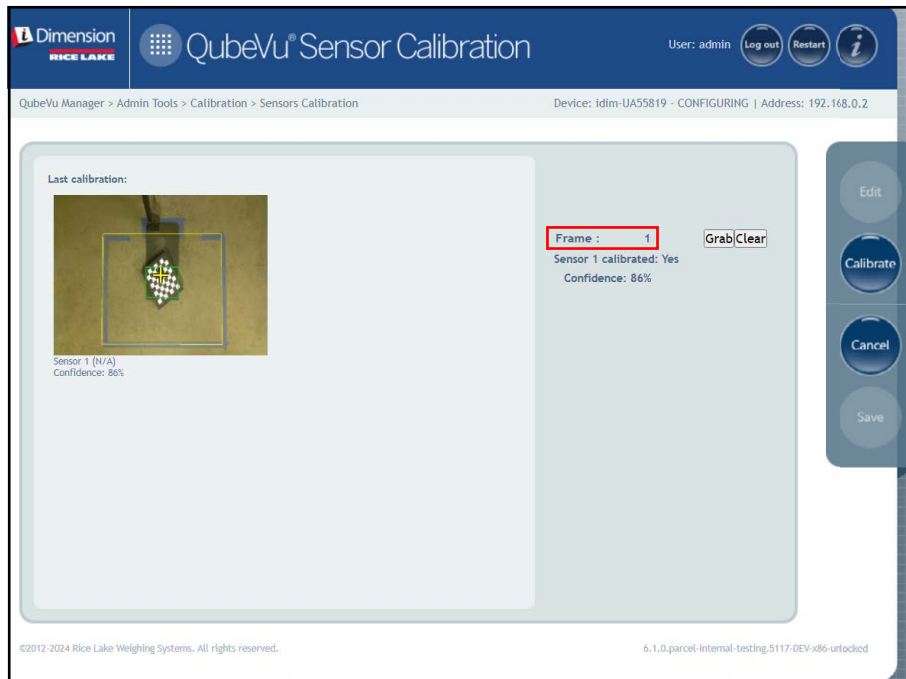


Figure 6-34. Sensors Calibration

- Rotate the calibration object clockwise for the next grab as indicated in Table 6-4.
- Repeat steps Step 3 through Step 6 four additional instances (a total of 5 grabs).

Grab/Rotation	Calibration Object Position
2/1	

Table 6-4. Required Calibration Object Orientation

Grab/Rotation	Calibration Object Position
3/2	
4/3	


Table 6-4. Required Calibration Object Orientation (Continued)

8. When all frame grabs are completed, QubeVu displays calibration results and sensor confidence levels.



Figure 6-35. Sensor Calibration Result

 **NOTE:** If calibration fails, check for direct sunlight affecting the system then perform a new calibration.

9. Select . The calibration details prompt displays.

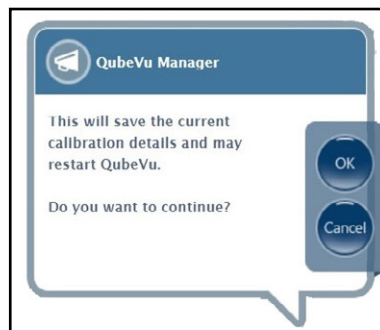



Figure 6-36. Calibration Details Save Prompt

10. Select  to continue.

11. After calibration details are saved, the restart or reboot prompt displays.
12. Select the desired option and allow QubeVu to process the command.



Figure 6-37. Reboot or Restart Prompt

13. A message displays alerting of choice selected. In this example restart is selected.

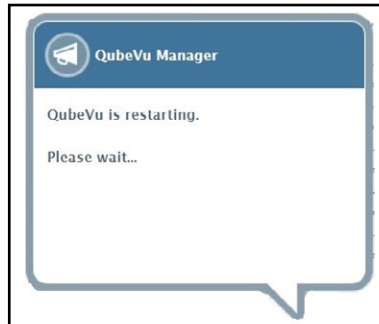



Figure 6-38. Restart Message

14. Calibration is complete. Proceed to [Section 6.6 on page 65](#).

6.6 Set Work Area

The Set Work Area configures the area that is used for dimensioning.

1. Select  **Set Work Area** from the **Calibration** menu (Figure 6-2 on page 43). The **Set Work Area** menu displays.

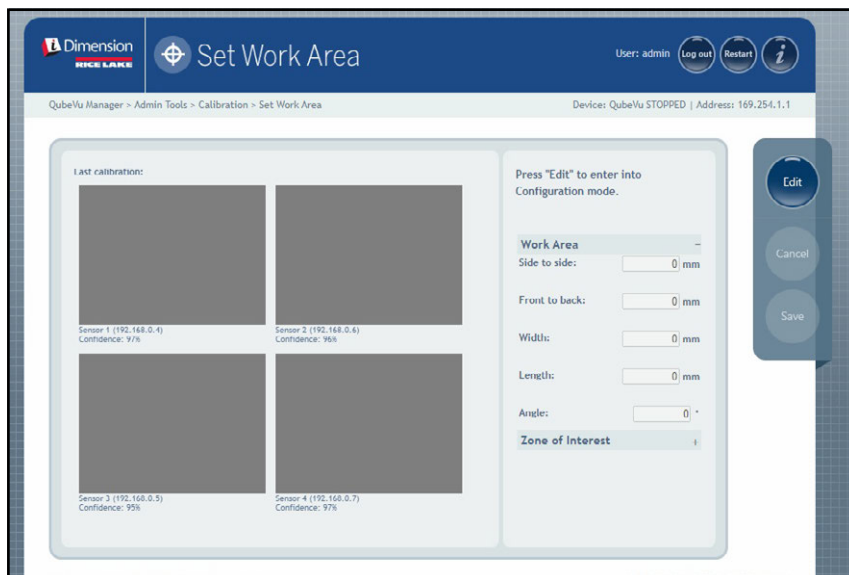



Figure 6-39. Work Area Settings

2. Select .
3. Configure the Work Area parameters as displayed in Figure 6-5:

Product	Configuration
Flex, LTL, PWD	<p>Last calibrated: Fri Jul 28 2023 10:19:42 GMT-0500 (Central Daylight Time)</p>

Table 6-5. Work Area Parameter Configuration

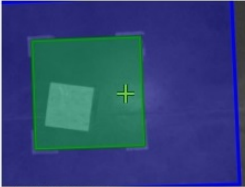
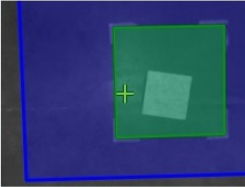
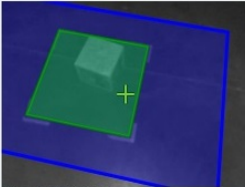
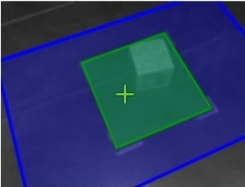


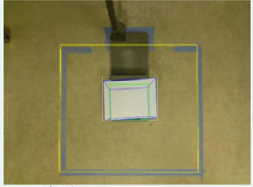
Product	Configuration
LTL XL	<div style="border: 1px solid #ccc; padding: 10px;"> <p>Last calibrated: Thu Jul 27 2023 15:58:52 GMT-0500 (Central Daylight Time)</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Sensor 1 (192.168.0.5)</p> </div> <div style="text-align: center;">  <p>Sensor 2 (192.168.0.4)</p> </div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Sensor 3 (192.168.0.8)</p> </div> <div style="text-align: center;">  <p>Sensor 4 (192.168.0.24)</p> </div> </div> <div style="margin-top: 10px;">   </div> <div style="float: right; width: 300px;"> <p>Work Area -</p> <p>Side to side: <input type="text" value="0"/> mm</p> <p>Front to back: <input type="text" value="0"/> mm</p> <p>Width: <input type="text" value="4000"/> mm</p> <p>Length: <input type="text" value="2600"/> mm</p> <p>Angle: <input type="text" value="2"/> °</p> <p>Zone of Interest +</p> </div> </div>
Plus	<div style="border: 1px solid #ccc; padding: 10px;"> <p>Last calibration:</p> <div style="display: flex;"> <div style="flex: 1;">  <p>Sensor 1 (N/A) Confidence: 86%</p> </div> <div style="flex: 2; margin-left: 20px;"> <p>Work Area -</p> <p>Side to side: <input type="text" value="0"/> mm</p> <p>Front to back: <input type="text" value="50"/> mm</p> <p>Width: <input type="text" value="1300"/> mm</p> <p>Length: <input type="text" value="900"/> mm</p> <p>Angle: <input type="text" value="2"/> °</p> <p>Zone of Interest +</p> </div> </div> </div>

Table 6-5. Work Area Parameter Configuration (Continued)

4. Configure the Zone of Interest parameters as shown in Figure 6-6:

Product	Configuration
Flex, LTL, PWD	
LTL XL	

Table 6-6. Zone of Interest Parameter Configuration



Product	Configuration
Plus	

Table 6-6. Zone of Interest Parameter Configuration (Continued)

Select . The Work Area save prompt displays.



Figure 6-40. Work Area Save Prompt

5. Select . Camera calibration and Work Area save messages briefly display.

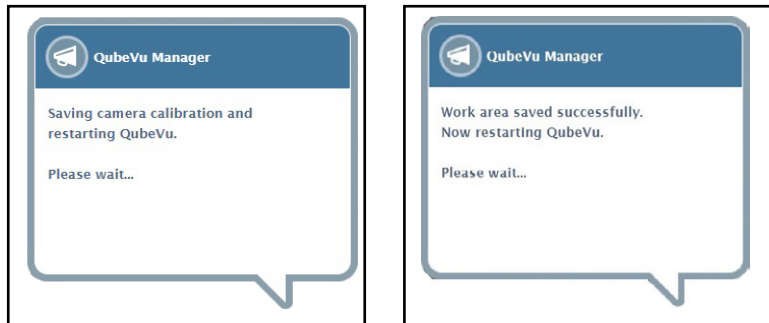


Figure 6-41. Camera Calibration and Work Save Message

6. Work Area configuration is complete.

6.7 Verify Calibration

Verify calibration with the 20 in x 20 in x 20 in test box in Demo mode.



1. Place the 20 in x 20 in x 20 in test box under the dimensioner.
2. Select  **Displays** from the *QubeVu Manager* menu (Figure 2-1 on page 8) to enter the *Display Pages* menu.
3. Select  **Demo Display** from the *Display Pages* menu (Figure 3-1 on page 16).
4. Select **Scan**.
5. Measurement results should be 20 in x 20 in x 20 in \pm 0.5 in.



Figure 6-42. Demo Mode


7.0 Capture Definitions

This section provides an overview of the QubeVu **Capture Definitions** menu.

Unique capture definitions can be created with external triggering, or modify the existing capture definitions. A programmer can change the capture definition, or define a new one, when integrating with a client application. The capture definitions controls the low resolution images available through the web-service API, displays and the markings on each image.

Capture definitions are used to define the operations and output of a capture request.

To enter the **Capture Definitions** menu, perform the following procedure:

1. Select  **Admin Tools** from the **QubeVu Manager** menu (Figure 2-1 on page 8). The **Admin Tools** menu displays (Figure 4.0 on page 21).
2. The QubeVu Manager login screen displays. Enter account credentials.



NOTE: The default username and password are admin and password.


3. Select  **Capture Definitions** from the **Admin Tools** menu (Figure 4.0 on page 21). The **Capture Definitions** menu displays.

Figure 7-1. Capture Definitions Menu with Definition Selected

Figure 7-2. Capture Definitions Menu with Definition Selected

Item No.	Parameter	Description
1	Select Definition	QV Demo – The scan button performs the QV Demo scan QVDisplay – The scan button performs the QVDisplay scan Default – Used when capture command is triggered from attached barcode scanner
2	Low Res Camera Capture	If enabled, configures cameras and remote sensors to capture images during each scan using capture definitions. NOTE: If disabled, images are not captured and the operator display does not display image data.
3	Markings	If enabled, iDimension software marks low resolution images with the selected information (Figure 7-2 on page 70): <ul style="list-style-type: none"> • Serial Number – Serial number • Date and Time – Date and time stamp of the scan • Scan ID – Unique scan ID number • Dimensions – Height, width, length dimensions • Indicators – Any indicators (Undersized, oversized, irregular and other indications) • Item Outline – 2D outline of the dimensioned item • Barcodes – Barcode number • Weight – Weight of object
4*	Stop and Go Markers Distance (mm)	The distance in mm between the two markers that were applied to the fork scale.
5*	Stop and Go Markers Locations (mm)	A 3D vector that locates the center between the two markers in the fork's heel coordinate system. In Figure 7-1 on page 70 the center of the marker is centered with the middle of the forks (0 -124 497), it is 497 mm higher than the heel, and back 124 mm from the backplane of the forks.
6*	Tare Mode	Selections: <ul style="list-style-type: none"> • None – Performs scans as “Drop and Clear” • ForkTruck – Performs scans as “Stop and Go” • AutoDetectForkTruck – Attempts to automatically determine the mode by trying both parameters (none and ForkTruck). • Default: None
7*	Pallet	A non-Legal-for-Trade feature; If selected, enter the height of the pallet in mm. The system measures the object on the pallet; <TareExpectedHeight>0<TareExpectedHeight>

* = not applicable to the iDimension Plus



Table 7-1. Pre-Defined Capture Definitions

8.0 Firmware Upgrade

This section provides an overview of the QubeVu **Firmware Upgrade** menu.

Firmware upgrades are available at www.ricelake.com. Operators may be instructed to update the unit firmware to take advantage of new features or software improvements to increase the performance of the unit.

To enter the **Firmware Upgrade** menu, perform the following procedure:

1. Select  **Admin Tools** from the **QubeVu Manager** menu (Figure 2-1 on page 8) to enter the **Admin Tools** menu (Figure 4.0 on page 21).
2. The QubeVu Manager login screen displays, enter login credentials. The default username and password are **admin** and **password**.
3. Select  **Firmware Upgrade** from the **Admin Tools** menu (Figure 4.0 on page 21) to enter the **Firmware Upgrade** menu.

 **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 software Admin Tools.

8.1 Firmware Upgrade Tab

The **Firmware Upgrade** tab configures how firmware is upgraded and facilitates the firmware upgrade process.

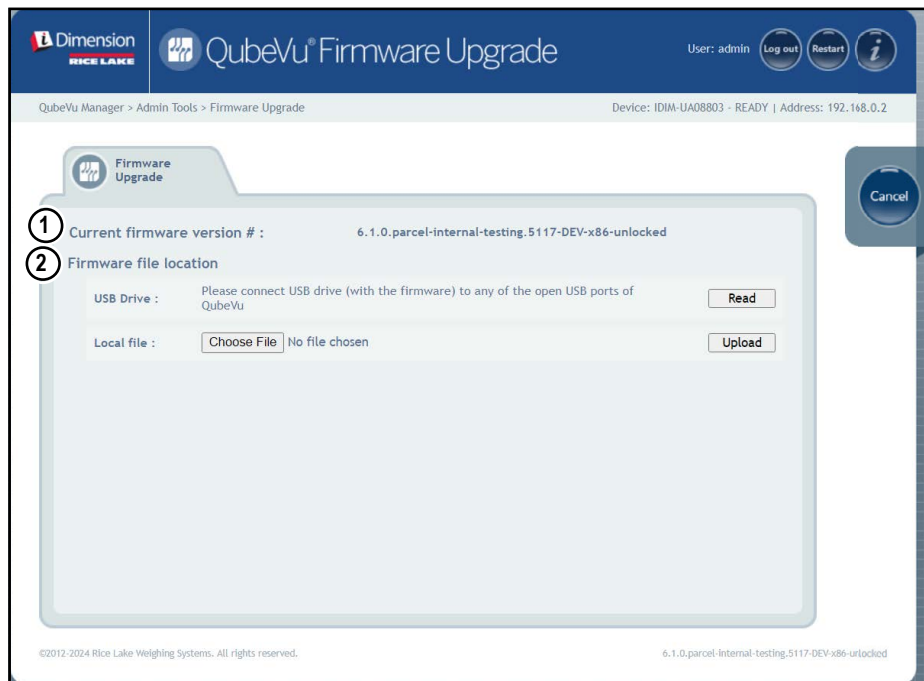


Figure 8-1. Firmware Upgrade

Item No.	Parameter	Description
1	CurrentFirmware Version #	Displays the current firmware version number
2	Firmware File Location	USB Drive – Connect a USB drive with the firmware for the iDimension unit to an open USB port of the unit (Section 8.1.1 on page 73) Network Share – Network path, username and password for sharing information with the local network (Section 8.1.1 on page 73) Local File – Choose a file to load firmware (Section 8.1.2 on page 74)

Table 8-1. Firmware Upgrade Definitions

8.1.1 USB Drive or Network Share

To upgrade firmware with a USB drive or network share, perform the following:

1. Perform one of the following:
 - Connect USB drive with firmware to the device.
 - Enter the Network Path, Username and Password to the network with the firmware update.
2. Select **Read**.

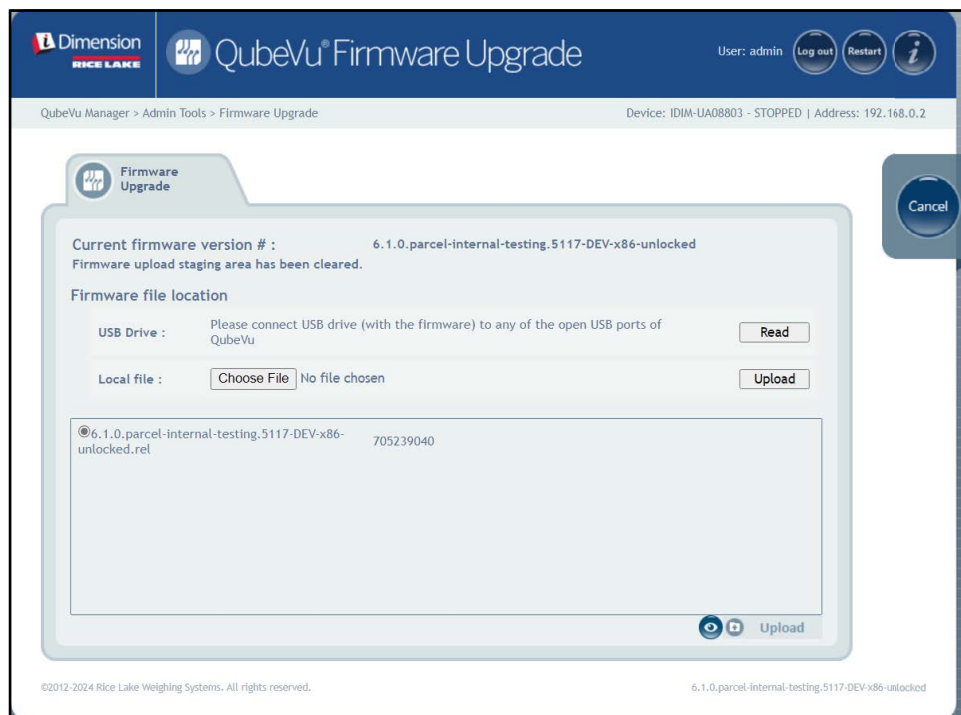



Figure 8-2. Firmware Upgrade USB File Read

3. Select the firmware version from the list of firmware version updates.
4. Select  to compute the checksum.
5. Select **Upload** after the checksum is computed. The firmware upgrade process copies the update file to the iDimension pallet dimensioner's embedded processor.
6. Proceed to Update Firmware (see [Section 8.1.3 on page 75](#)).



NOTE: Do not interrupt the upload process. An opportunity to stop the firmware upgrade is available after the file is uploaded.

8.1.2 Local File

To upgrade firmware with a local file, perform the following:

1. Select **Choose File**.
2. Select the firmware from the directory.
3. Select **Read to Compute Checksum** and upload firmware.

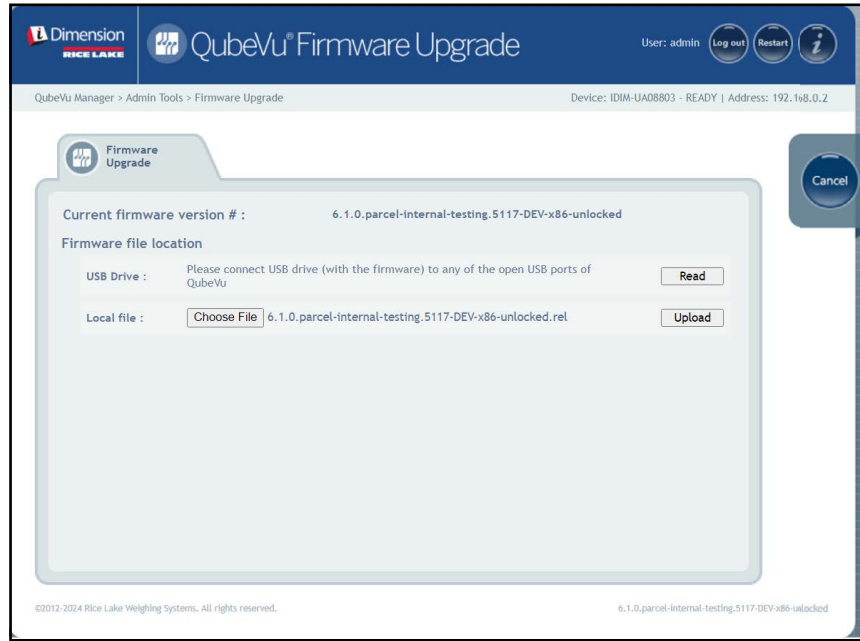


Figure 8-3. Firmware Select with Local File

4. The uploaded firmware notice appears and instructs to wait for firmware upload to complete. The firmware upgrade process uploads the update file to the iDimension pallet dimensioner's embedded processor.
5. The notice closes when the firmware is uploaded to the iDimension pallet dimensioner's embedded processor.

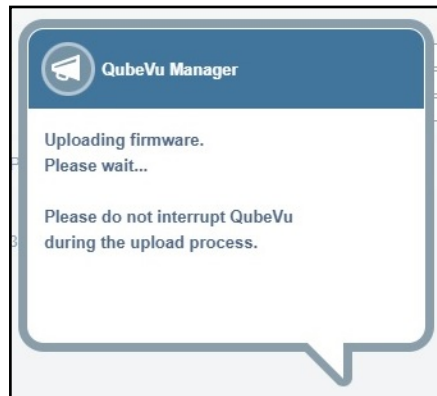




Figure 8-4. Upload Firmware Notice

6. Proceed to Update Firmware (see [Section 8.1.3 on page 75](#)).

8.1.3 Updating Firmware

Once the firmware has been uploaded, Select **Update Firmware** and follow the pop-up window directions.

Select  to delete the firmware uploaded, in case an error has been made.

Select  to validate checksum.

The system will enter into a stopped state and return to normal operating mode within a few minutes.

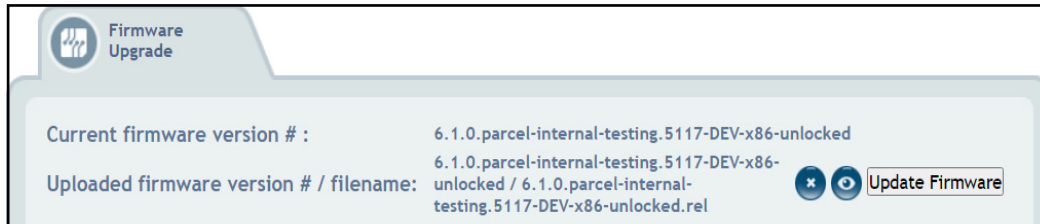




Figure 8-5. Updating Firmware

9.0 Backup and Restore

This section provides an overview of the QubeVu **Backup** menu.

To enter the **Backup** menu, perform the following procedure:

1. Select  **Admin Tools** from the **QubeVu Manager** menu (Figure 2-1 on page 8) to enter the **Admin Tools** menu (Figure 4.0 on page 21).
2. The QubeVu Manager login screen displays. The default username and password are **admin** and **password**.
3. Select  **Backup** from the **Admin Tools** menu (Figure 4.0 on page 21). The **Backup** menu displays.



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 software Admin Tools.

The **Backup** menu is used to create a backup file of settings and to restore those settings.

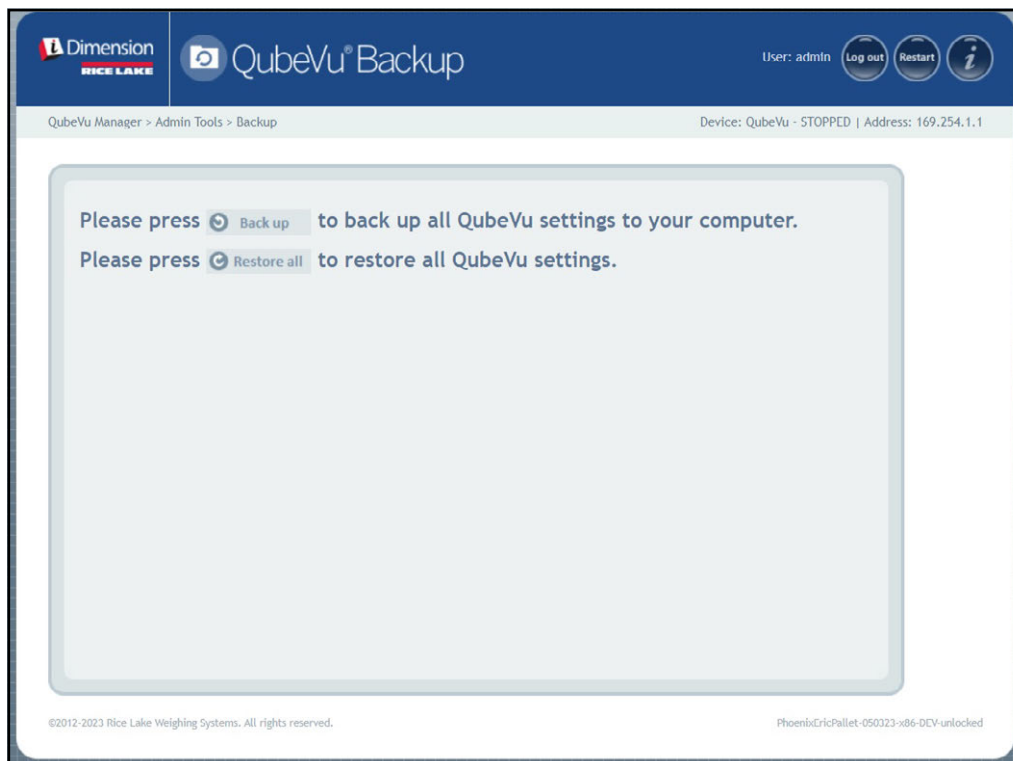



Figure 9-1. Backup and Restore Menu

Parameter	Description
Backup	Back up all QubeVu settings to the local computer (Section 9.1 on page 77)
Restore All	Restore all QubeVu settings (Section 9.2 on page 78)

Table 9-1. Setup Navigation

9.1 Backup

The **Backup** function creates a backup file of all settings. It is recommended to create a backup after the initial setup of the iDimension pallet dimensioner. The backup file is saved to a PC folder as an XML file. Also, a backup file can be sent to the customer support to help troubleshoot the device.

1. Select  **Back up** to begin the backup process.



The installed internet browser and its configuration determines the behavior when downloading the backup. The internet browser may automatically download the backup, open the Save As window, or request if the file should be downloaded. In this example the Save As window appears.

2. Navigate to the desired folder and then select **Save**.

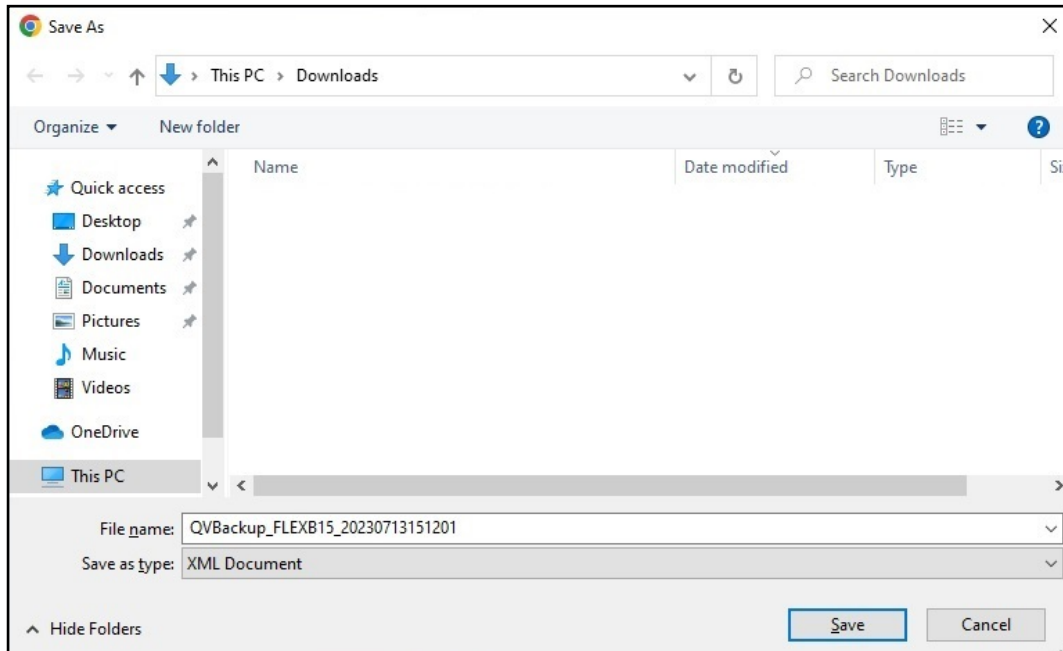


Figure 9-2. Download Ribbon - Accept

9.2 Restore

The **Restore** function is used to restore settings to factory default or from a saved backup file.

1. Select  **Restore all** to begin the restore process.

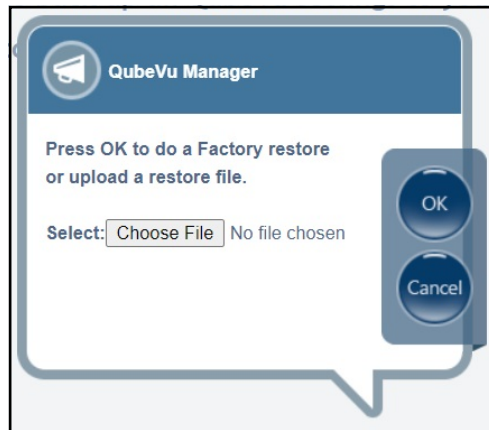







Figure 9-3. Restore Menu Browse Window

2. Select  to restore all settings from the factory calibration or Select  to select a saved file from the PC.
3. If  is selected in [Step 2](#), find and select the desired backup file. Select  to restore settings.

10.0 Diagnostics


This section provides an overview of the QubeVu **Diagnostics** menu.

To enter the **Diagnostics** menu, perform the following procedure:

1. Select  **Admin Tools** from the **QubeVu Manager** menu (Figure 2-1 on page 8) to enter the **Admin Tools** menu (Figure 4.0 on page 21).
2. The QubeVu Manager login screen displays. Enter account credentials.



NOTE: The default username and password are admin and password.

3. Select  **Diagnostics** from the **Admin Tools** menu (Figure 4.0 on page 21). The **Diagnostics** menu. Displays

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

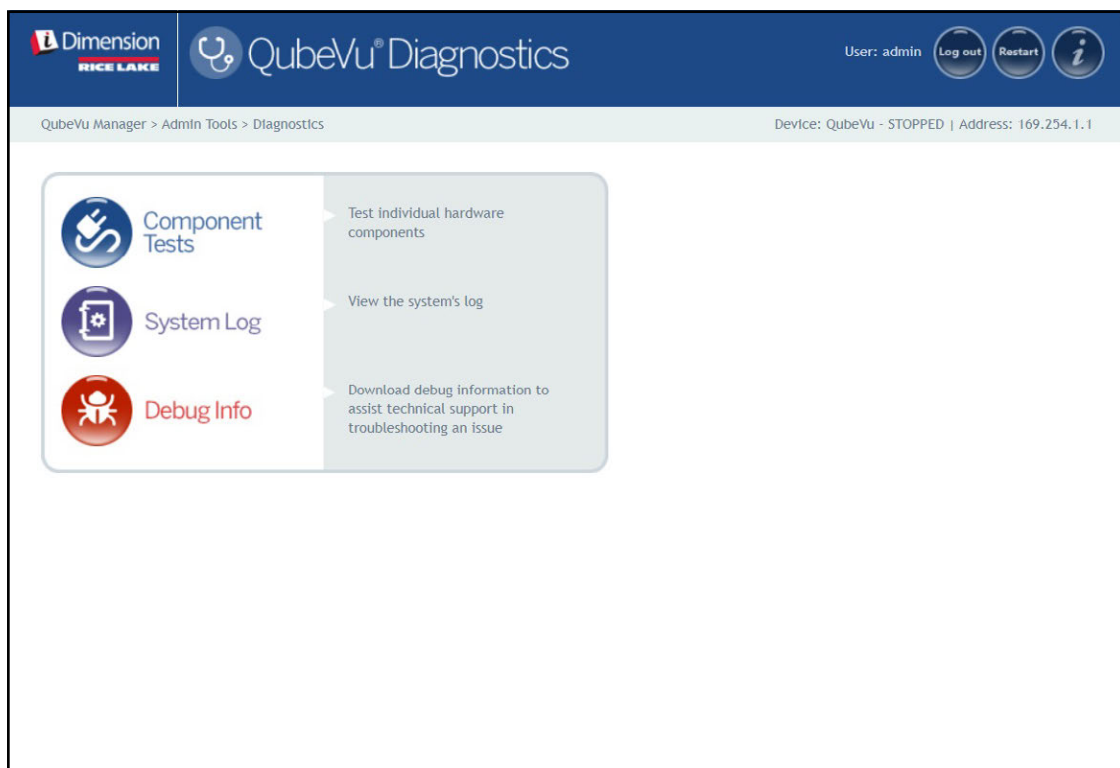


Figure 10-1. Diagnostics Menu





Parameter	Description
Component Tests	Tests each hardware component (Section 10.1 on page 80)
System Log	Views system log (Section 10.2 on page 83)
Debug Info	Downloads debug information to assist technical support in troubleshooting an issue (Section 10.3 on page 83)

Table 10-1. Setup Navigation

10.1 Component Tests

Select  from the **Diagnostics** menu (Figure 10-1 on page 79) to enter the **Component Tests** menu.

The **Component Tests** menu helps diagnose operation status of the iDimension pallet dimensioner. Tests include, **Scale Test**, **Sensors Test** and **Network Test**. Contact the factory to determine if a failure has occurred.

- Select  to perform a specific test
- Select  test each component
- The status of each component is returned as either **Passed** or **Failed**. Select  to view additional details.
- Select  on a test with results. A new tab in internet browser tab opens with details that is print formatted.



NOTE: Upon completion of a component test, restart the system to return to normal operating mode.

Scale Test

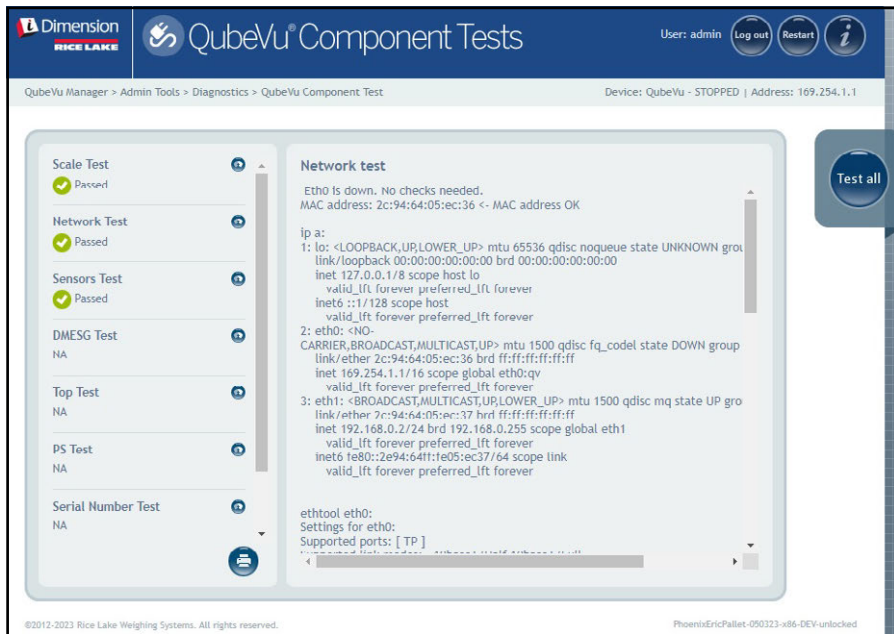
The **Scale Test** determines if the configured scale is communicating and operating correctly with the attached unit.

Network Test

The **Network Test** confirms the iDimension software network address is 169.254.1.1. The **Network Test** checks if the remote sensors and IP cameras, which are connected through ethernet to the device, are pinging correctly. Report component failures to the Rice Lake Weighing Systems technical support team.



NOTE: Network tests are for manufacturing purposes only.



The screenshot displays the 'QubeVu Component Tests' web interface. The left sidebar lists several tests: Scale Test (Passed), Network Test (Passed), Sensors Test (Passed), DMESG Test (NA), Top Test (NA), PS Test (NA), and Serial Number Test (NA). The main content area shows the 'Network test' results, indicating that 'eth0 is down' and 'No checks needed'. It also displays the MAC address (2c:94:64:05:ec:36) and a list of IP addresses (1, 2, 3) with their respective network configurations. A 'Test all' button is visible on the right side of the interface.

Figure 10-2. Network Test

The screenshot displays the 'QubeVu Component Tests' web interface. On the left, a list of tests is shown with their status: Scale Test (Passed), Network Test (Passed), Sensors Test (Passed), DMESG Test (NA), Top Test (NA), PS Test (NA), and Serial Number Test (NA). The main panel shows the 'Network test' details, including supported ports, link modes, pause frame use, auto-negotiation, FEC modes, and advertised link modes. A 'Test all' button is visible on the right.

Figure 10-3. Network Test (Continued)

DMESG Test

The **DMESG Test** performs a firmware diagnostics test.



NOTE: DMESG tests are for manufacturing purposes only.

The screenshot displays the 'QubeVu Component Tests' web interface with the 'DMESG test' selected. The test status is 'Passed'. The main panel shows the output of the DMESG test, including Linux version information, kernel supported cpus, and various hardware capabilities like XSAVE features and BIOS memory maps. A 'Test all' button is visible on the right.

Figure 10-4. DMESG Test

Sensor Test – determines if sensors are connected and retrieves data frames from each sensor. This test runs for approximately 3-5 minutes. Scroll through pages to identify failures, each of the sensors has a unique IP address. This test runs through the configuration of the IFM sensor, including firmware and application file loaded.

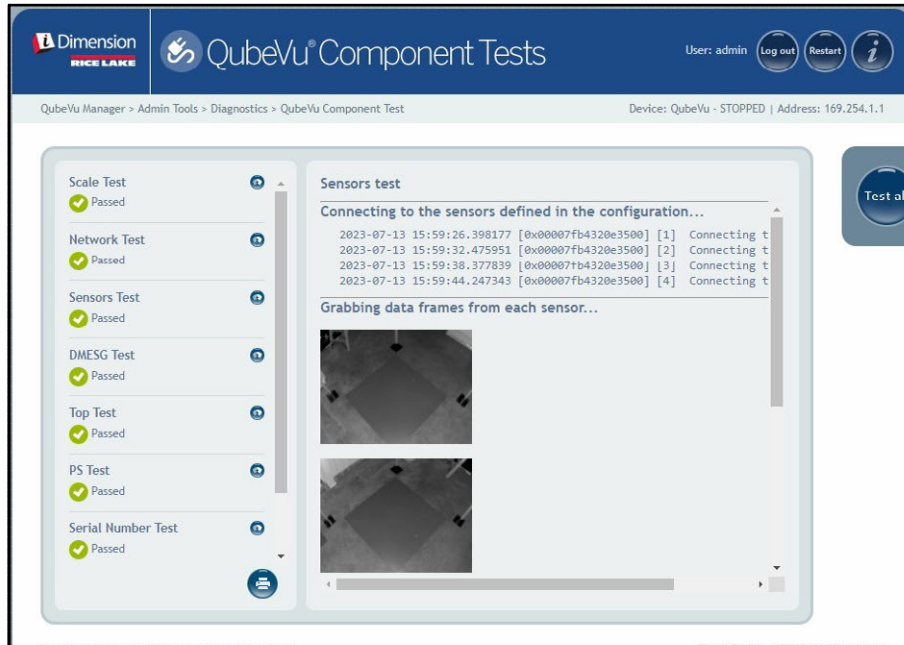


Figure 10-5. Depth Information Test

Top Test, PS Test, Serial Number Tests

Do not modify unless instructed by Rice Lake Weighing Systems dimensioning support.

Port Scan Test

The **Port Scan Test** provides details about devices connected to ports.

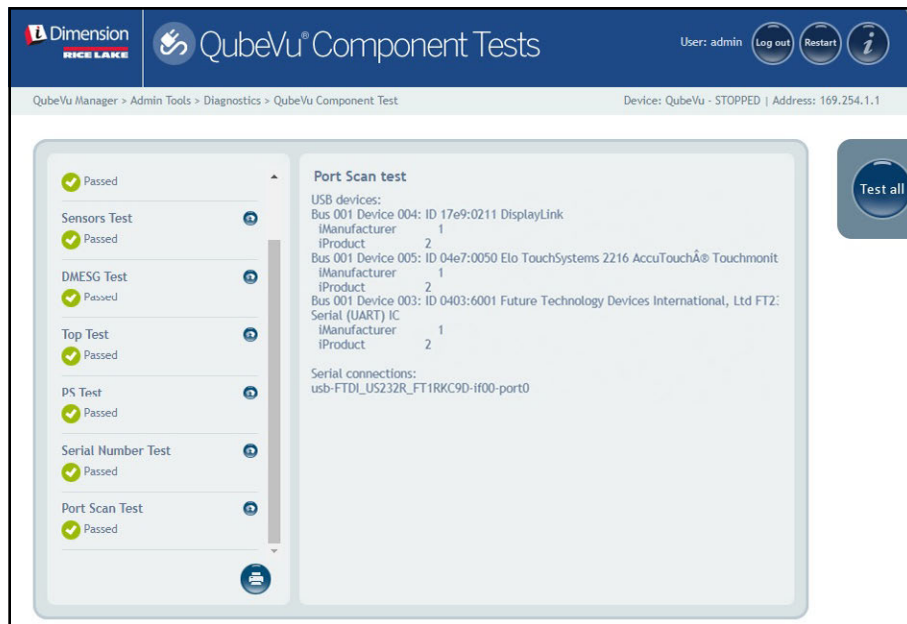



Figure 10-6. Port Scan Test

10.2 System Log Tab

Select  **System Log** from the **Diagnostics** menu (Figure 10-1 on page 79). The **System Log** menu displays.

The system log log level is configured in the setup menu. The log view can be customized by type (ALL, debug, info, warning or error messages only) or by order (view latest first or earliest first).

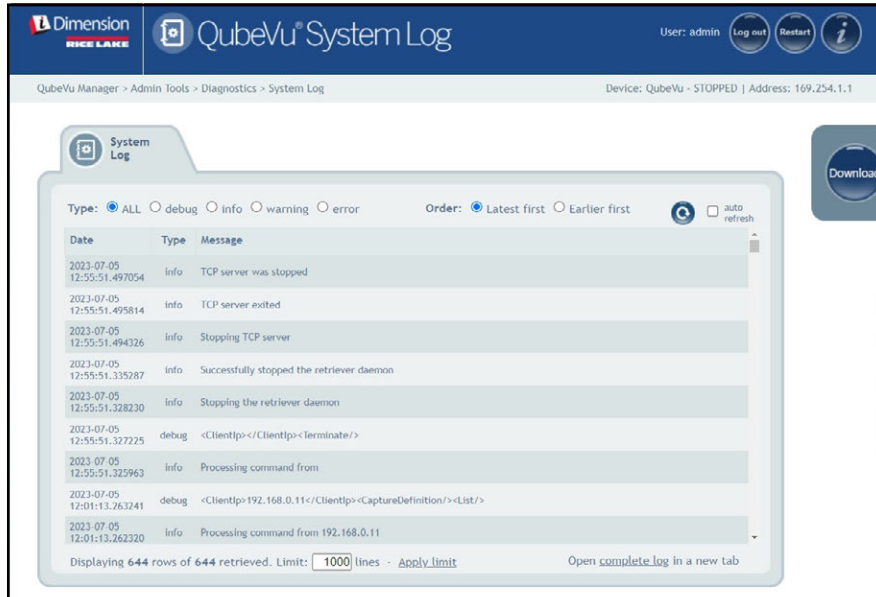



Figure 10-7. System Log Tab

10.3 Debug Info

Select  **Debug Info** from the **Diagnostics** menu (Figure 10-1 on page 79). The **Debug Information** menu displays.

The **Debug Info** provides engineering and troubleshooting information on the operation of the unit. This file may be requested for troubleshooting purposes. Enable the **Select All** box and then Select  to save the file to the computer.

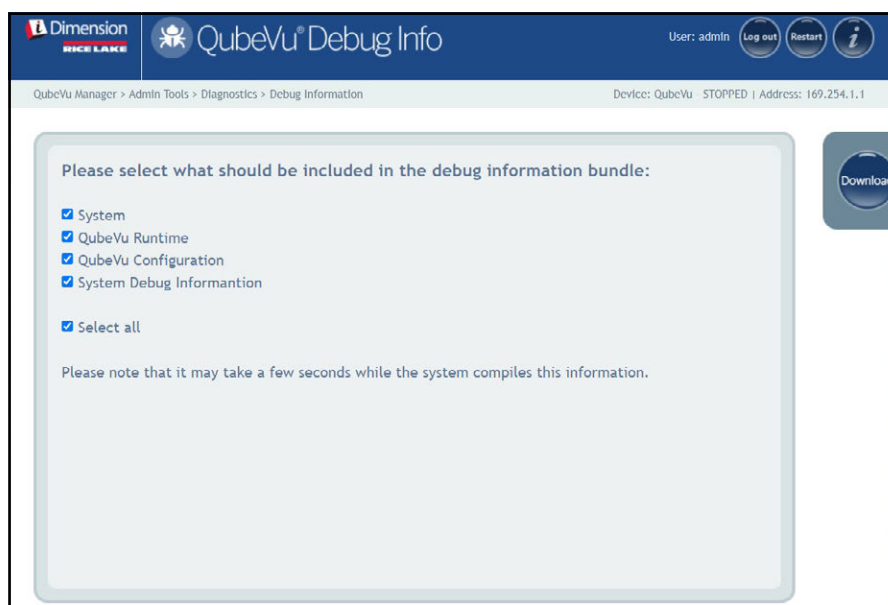



Figure 10-8. Debug Information

11.0 License

This section provides an overview of the QubeVu **License** menu.

To enter the **License** menu, perform the following procedure:

1. Select  **License** from the **QubeVu Manager** menu (Figure 2-1 on page 8). The **License** menu displays.
2. The QubeVu Manager login screen displays. Enter account credentials.



NOTE: The default username and password are admin and password.



NOTE: A license file is uploaded at the time of manufacturing and includes the the installation date. A QubeVu license will not expire. A license code request is sent to support@postea.com, with the license request code.

3. Select to upload the license provided.

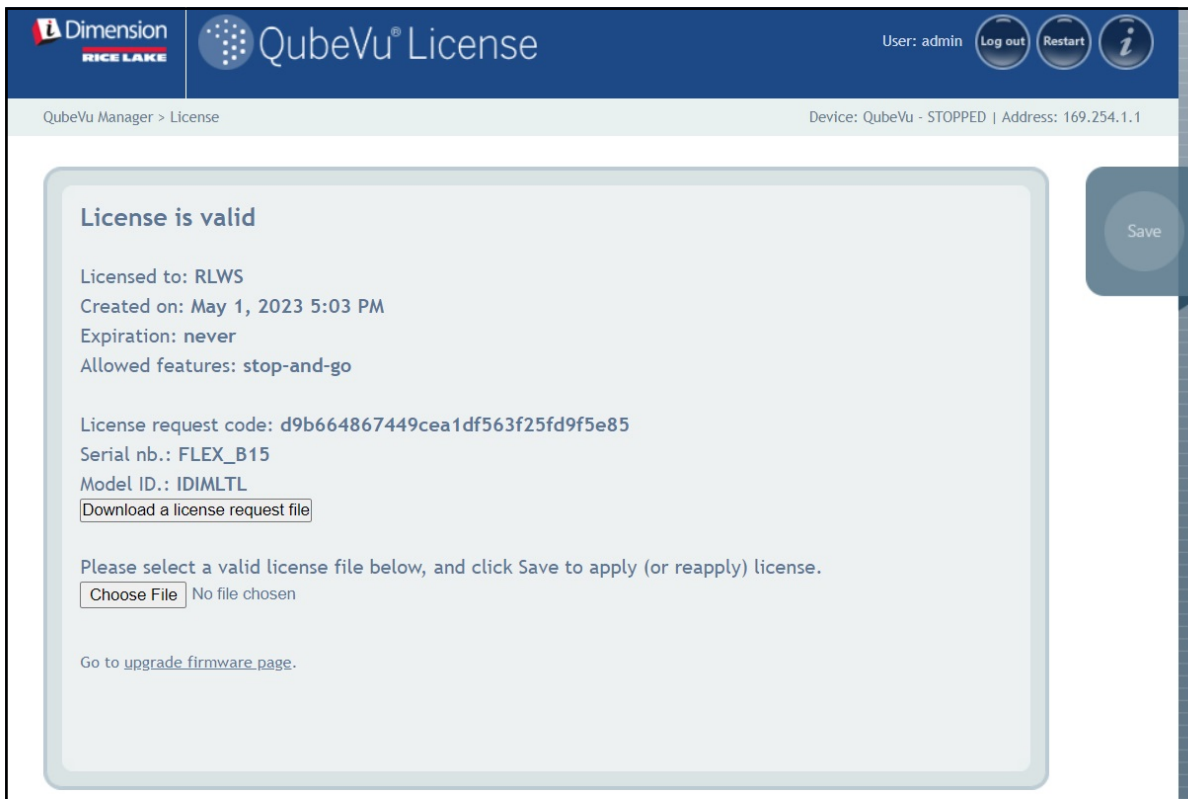


Figure 11-1. QubeVu License

12.0 Appendix

This section provides an overview of additional iDimension software documentation.

12.1 QubeVu Engineering Application

The **QubeVu Engineering Application** downloads a record of data that can be emailed to the factory for engineering analysis.

- Using an internet browser, type the following in the address bar:
 - IPaddress/tools/engapp.php



NOTE: IP addresses may vary. The IP address in this example is 192.168.0.2, therefore, 192.168.0.2/tools/engapp.php is entered in the internet browser.

- Select **Connect**.



NOTE: **Connect** is located in the same spot as **Disconnect**. Figure 12-1 is for reference.

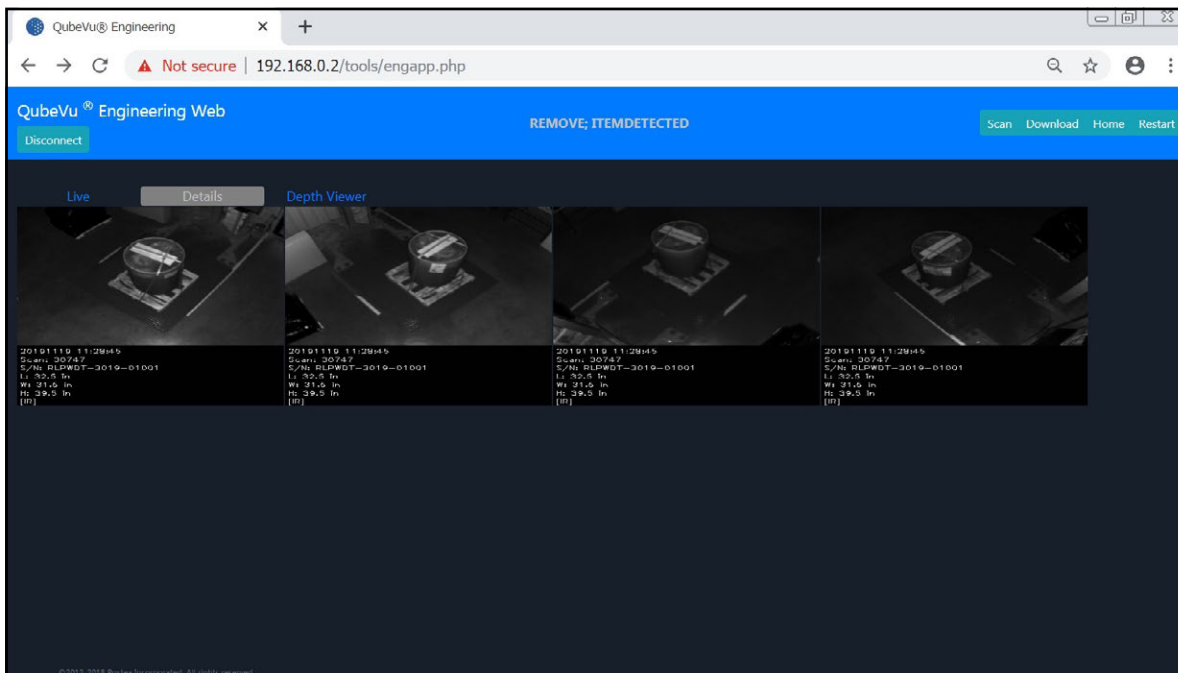


Figure 12-1. Engineering Application

- The status message changes from **Disconnect** to **HS1; Ready** or **Remove**
- Select **Details**.



NOTE: **Details** may not be available until the device detects an object. Figure 12-1 is for reference.

5. Select **Scan**.

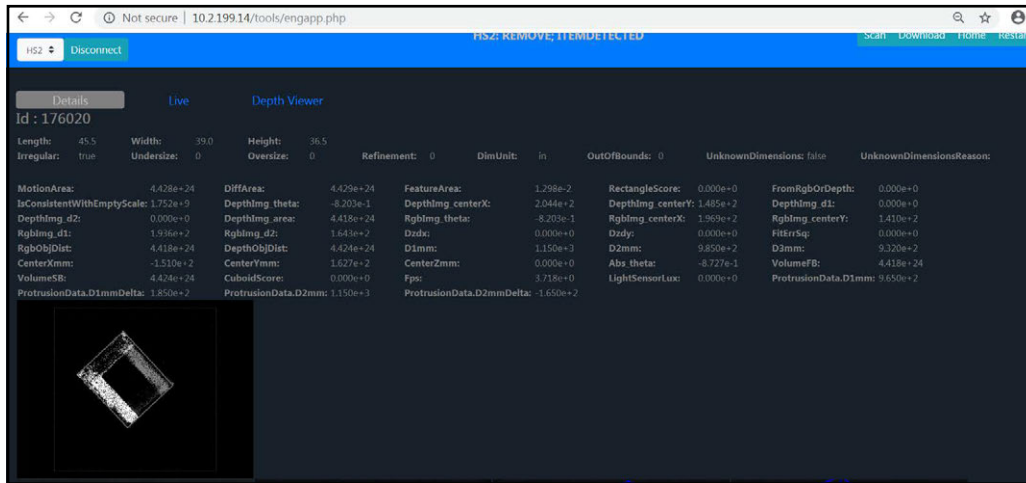


Figure 12-2. Application Scan

6. Select **Download**.
7. Enter the length, width and height (L, W and H) then select **Download**. The file is downloaded.
8. Navigate to the downloaded file location on the local PC.
9. Email this file to the Rice Lake Weighing Systems Dimensioning support team for analysis.



NOTE: If known, the ground truth is the exact dimensions measured with a tape measure.

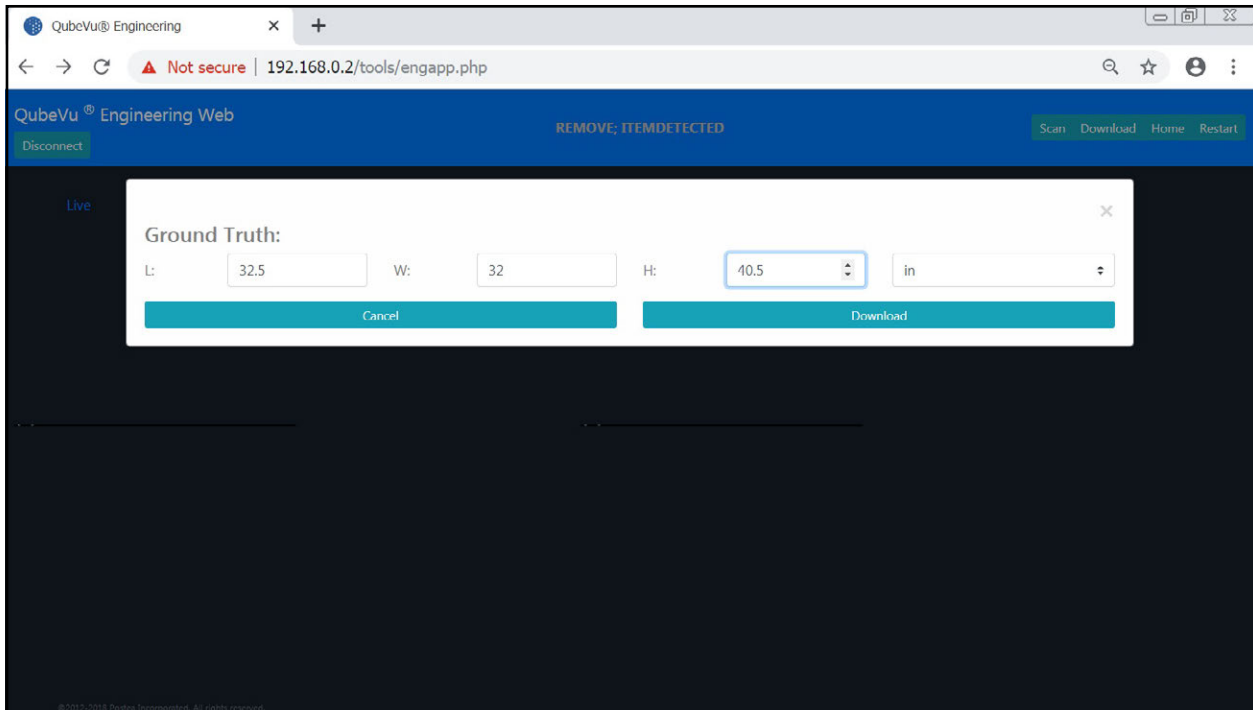


Figure 12-3. Ground Truth

12.2 Configuring Axis IP Camera Using IP Utility

1. Run IPUtility.exe.
2. Select the camera, right-click and select **Assign Network Parameters**.



Figure 12-4. Assign Network Parameters

3. If prompted, login using the **username** and **password**.



NOTE: The default Axis username and password are root and password.

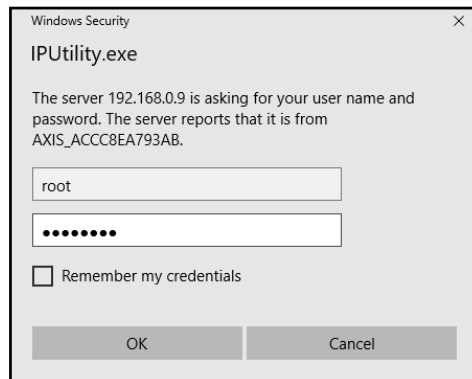


Figure 12-5. Login

4. Make necessary changes and select .

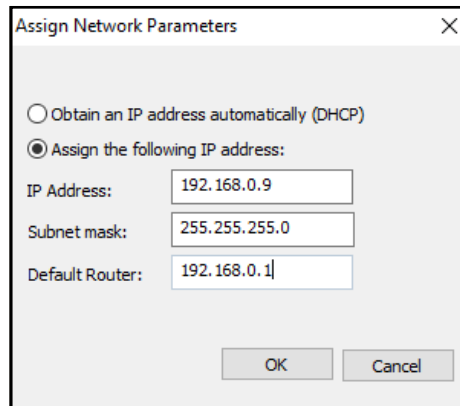


Figure 12-6. Assign Network Parameters

5. Select **OK**.

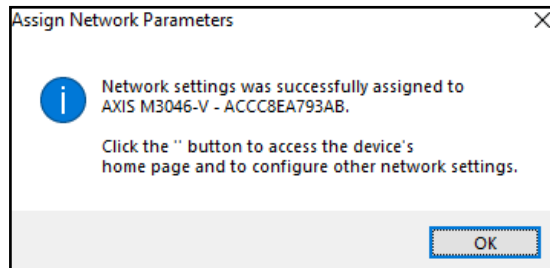


Figure 12-7. Network Parameter Confirmation

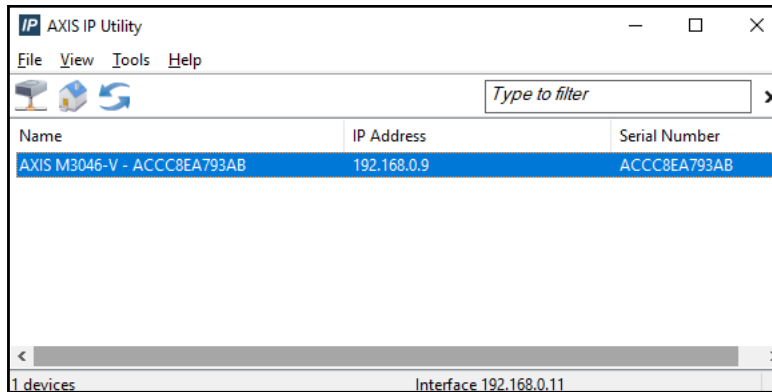



Figure 12-8. AXIS IP Utility

6. Type the new IP address of the IP camera (192.168.0.9 is the default IP address for the iDimension software).
7. The login displays. Enter the **username** and **password**.

 **NOTE:** The default Axis username and password are root and password.

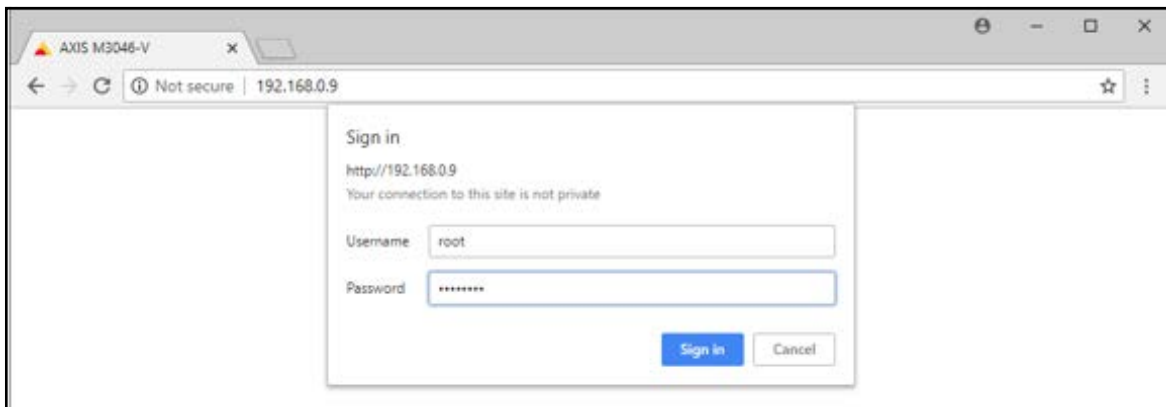


Figure 12-9. AXIS Sign-in

8. Select **Sign in**.

9. Select **Next**.

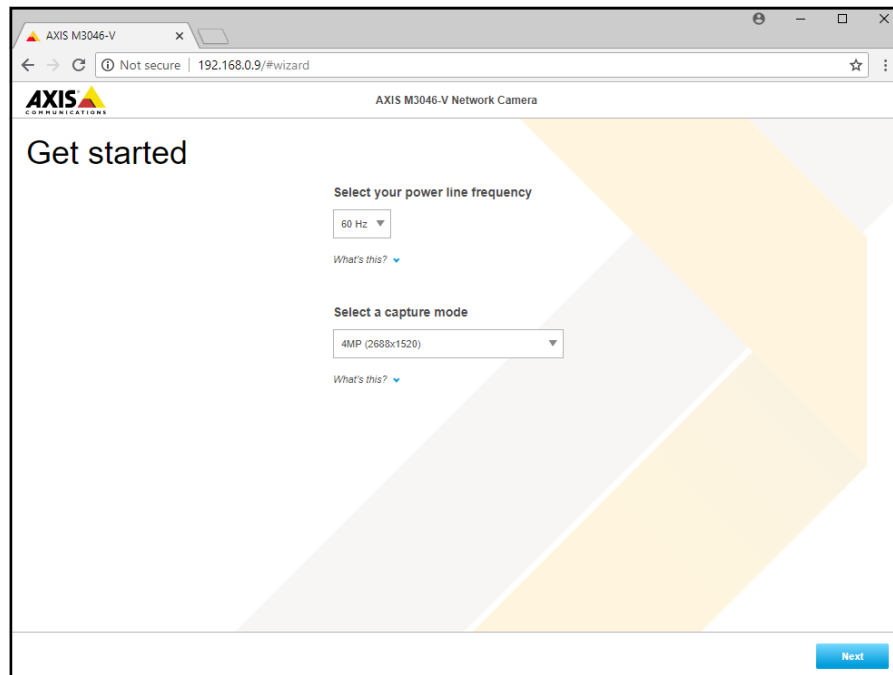


Figure 12-10. Network Camera

10. Select **Next**.

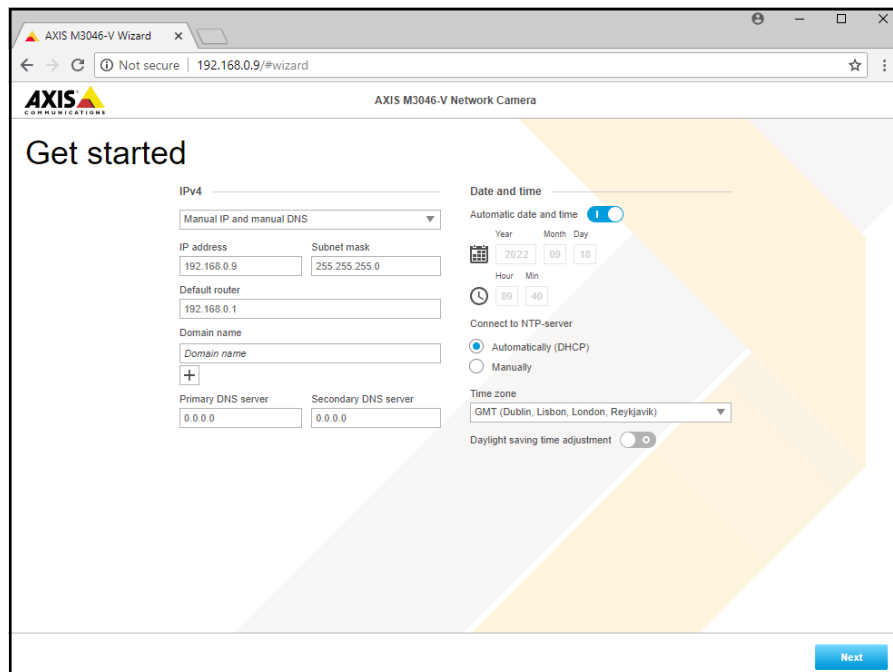



Figure 12-11. Network Camera (Continued)

11. Adjust camera angle and zoom to application requirements.
12. Select .

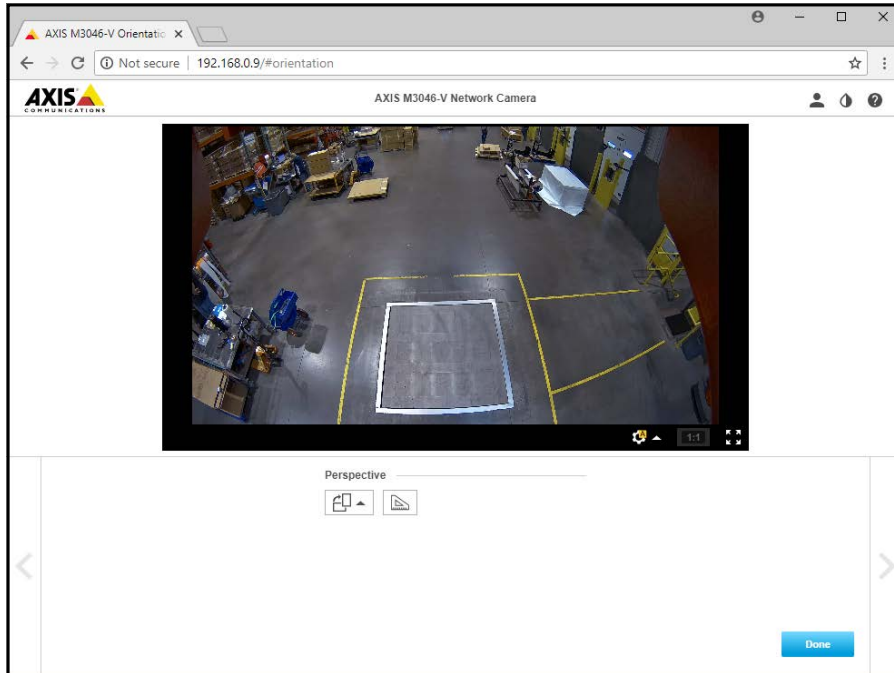


Figure 12-12. Camera Feed

13. Close the window.

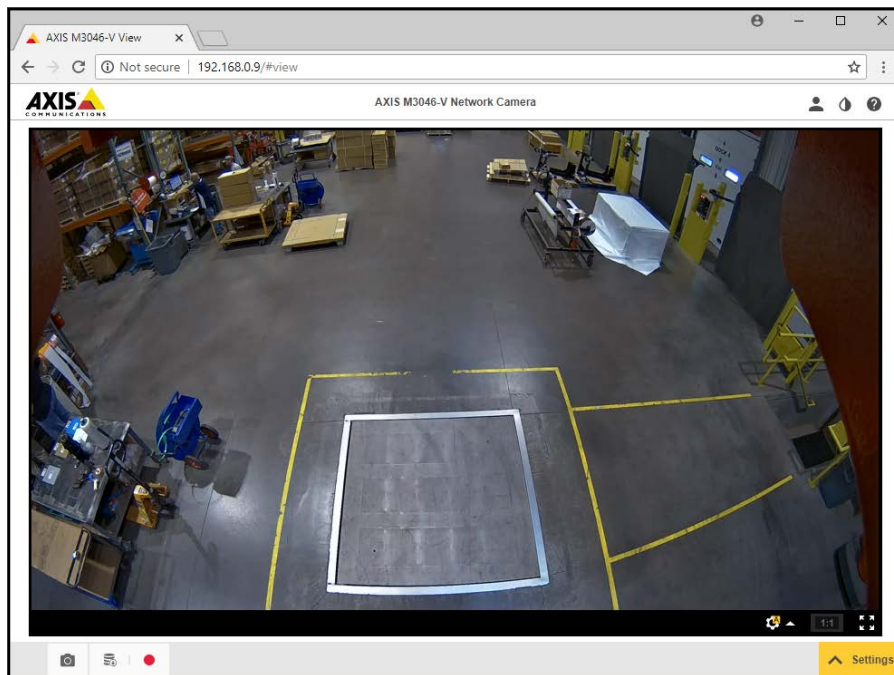


Figure 12-13. Camera Feed (Expanded)

12.3 Installation Notes

The following actions are required to configure an iDimension pallet dimensioner during initial installation. This process is followed after the unit has been installed using one of the mounting methods. The IP camera and Forklift Operator display should be configured prior to mounting into the ceiling.

1. Check for Customer network IP address. If connected to the customer's network:
 - Configure sensors using IFM vision assistant with new network addresses
 - Configure Network Setting tab
 - Configure IP camera using Axis IP utility program

The following is the network scheme used from the factory:

Device	IP Address	Notes
Gateway	192.168.0.1	For all sensors, internal PC, JLT and IP camera
Subnet Mask	255.255.255.0	For all sensors, main head, JLT and IP camera
Internal PC	192.168.0.2	After configuration default/back door, connect to this on first power up
	169.254.1.1	
Web Relay	192.168.0.3	When applicable
Remote Sensor #1	192.168.0.4	–
Remote Sensor #2	192.168.0.5	–
Remote Sensor #3	192.168.0.6	–
Remote Sensor #4	192.168.0.7	–
Remote Sensor #5	192.168.0.8	Center sensor, for 5 sensor systems
IP Camera 1	192.168.0.9	If applicable (optional)
IP Camera 2	192.168.0.10	If applicable (optional)
Mobile HMI PC	192.168.0.11	Ethernet connection to the iDimension pallet dimensioner
Forklift Operator Display	192.168.0.12	If applicable (optional)
Remote Sensor #6	192.168.0.24	For 8 sensor systems
Remote Sensor #7	192.168.0.25	For 8 sensor systems
Remote Sensor #8	192.168.0.26	For 8 sensor systems

Table 12-1. Network IPs

Use the QubeVu Manager Admin Tools to calibrate settings in each tab:

2. Configure Capture Definitions (QV Demo and Default) to meet application requirements. Markings to meet customer requirements and Tare mode should be none.
3. Configure Displays/Customer Display:
 - a. iDimension software – Display Screen Version 1
4. Add Remote Sensors:
 - a. Discover
 - b. Add all
5. Calibration Mode:
 - a. Align sensors centered onto calibration object
 - b. Perform calibration

12.4 Status Messages

Status and error messages are visible from the QubeVu Manager Demo Display (Section 3.4 on page 19).

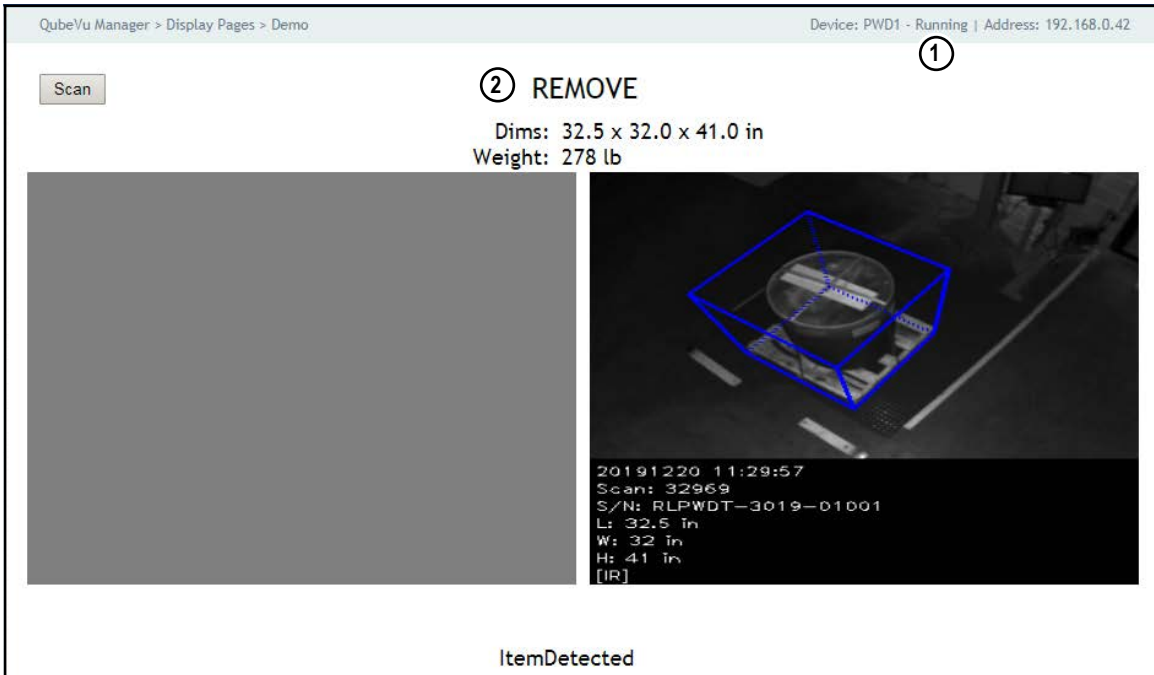


Figure 12-14. Demo Display

Item No.	Description
1	Status
2	Extended Status

Table 12-2. Status

Status	Description
STARTING	The system is starting up
STARTED	The system has started but is not ready for processing a dimension; If the device is in this status for more than a couple of seconds there is most likely an object on the platform that needs to be cleared or the scale is not at zero weight; If no object is on the platform, perform a zero height
READY	The system is ready and waiting to be used
TRACKING	The system is processing a dimension
REMOVE	The dimension has been fully processed – the item can be removed when the client processing has completed transferring the data
STOPPING	The system is transitioning into STOPPED state
STOPPED	The service has stopped – there is a problem; Perform a restart or power cycle the unit from the AC Outlet
CALIBRATING	The device is in calibration mode
CONFIGURING	The device is in configuration mode; A restart can take the device out of configuration mode

Table 12-3. Status Messages

12.4.1 Extended Status Messages

Status	Description
ScaleNotStable	This is set during tracking if the scale indicates that the value returned is not stable. This is only used when a recognized scale is connected to the system. Processing will not progress to the next step until this flag is cleared by receiving a stable weight from the scale
MotionDetected	This is set during tracking and ready states and indicates that the system has detected movement. Processing will not progress to the next step while this is set
ItemDetected	This is set when the system detects an item is placed on the device platform/scale. When a scale is used this indicates that weight returned is not zero. In 'scale-less' mode this indicates that the system cannot find the target panel
ItemNotDetected	This is set when the system is in ready mode and there is no item on the platform/scale
TrackerNotConfident	This indicates that the tracker detected an item but it is not confident what the dimensions of the item are. After a timeout (configurable) the system progresses to the next step and return zero-valued dimensions
ExceptionOccured	This is set when an exception occurs
DeviceNotStable	This is set during tracking if one of the sensors indicates that the sensor value returned is not a stable. Processing will not progress to the next step until this flag is cleared by receiving a stable value from the sensor
ServiceStarting	This is set when the system is initializing
ConfigMode	This is set when the system is in configuration mode, such as during calibration or image exposure adjustment. A restart operation takes the device out of configuration mode
ResultNotStable	This is set when the item is being manipulated such as when the item is in the act of being placed on the platform or removed from it
ItemOutOfBounds	This indicates that the item protrudes outside the measurable area. Repositioning the item is necessary
WaitingToWarmUp	This is set during the warm-up period. If device is used in a certified-for-trade application the warm-up period must have been elapsed before certified measurements can be taken
PlatformNotClear	This is set when there is something on the platform

Table 12-4. Extended Status Messages

12.4.2 Error Messages

The device error messages which may be displayed are described below.

Error Code	Description
1	Hardware Initialization FAILED
2	Tracker Config Initialization FAILED
3	Missing RegistrationMarksCropped.bmp
4	Setting reference image for Targetfinder FAILED
5	Loading of Calibration files FAILED
6	Getting new Images from hardware FAILED
7	Tracking FAILED
8	Calibrating
9	TCP Server Port binding failed
10	TCP Server exception in Processing Client
11	TCP Server time out on Imaging
12	Low res camera needs to be calibrated first
13	Calibration stopped
14	Error loading / parsing Configuration
15	Unable to save Calibration to file
16	Unable to use name set in Capture/Get command; CaptureDefinition with name were not set
17	Invalid CaptureDefinition command
18	Unable to delete Calibration files
19	Unable to Zero Height
20	Failed to write or verify audit trail

Table 12-5. Error Messages

12.5 TCP Interface

To edit the TCP interface, see Item 6 in [Section 5.1 on page 23](#). The TCP interface operates in two modes:

- QubeVu – A request or response protocol; See the QubeVu Developer Guide for information on using this interface
- Cubiscan – 110/150 Emulates a subset of commands supported by Cubiscan 110/150

12.5.1 TCP Interface

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.


C:\Users\chrsean.RLWS>telnet 169.254.1.1 1024
```

Figure 12-15. TCP Interface Example 1

```
?
D
470 x 460 x 250 mm 1.63 kg
```

Figure 12-16. TCP Interface Example 2

12.5.2 TCP Interface Configuration

1. Select **QubeVu** or **Cubiscan 110/150** from the TCP interface drop-down list.
2. Set the TCP port.
3. Select  to complete the TCP emulation setup.

12.6 QubeVu Protocol

Command		
Description	Request	Response
Causes the QubeVu to send the dimension and weight data to the client computer	D<CR>	{length} x {width} x {height} {dimUnit} {displayWeight}<CR><LF>
Error Handling		
Unit will return following response when dimensions are not available	D<CR>	0 x 0 x 0 {dimUnit}<CR><LF>

Table 12-6. Remote Sensors Parameters

12.6.1 Sample Requests and Responses

1. Dimension Command Request: D<CR>
Response: 9.75 x 7.25 x 3.50 in<CR><LF>
2. Dimension Command Request: D<CR>
Response: 0 x 0 x 0 in<CR><LF>
3. Invalid Command Request: M<CR>
Response: ?<CR><LF>

12.6.2 Serial Interface

The serial interface operates in two modes:

- QubeVu – A simple request or response protocol; Refer to the iDimension API Guide ([Section 12.5.1](#)) for detailed information on using this interface
- Cubiscan – 110/150 Emulates a subset of commands supported by Cubiscan 110/150



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230 W. Coleman St. • Rice Lake, WI 54868 • USA USA: 800-472-6703 • International: +1-715-234-9171