iDimension 100

Workstation

Assembly Instructions

RICE LAKE
WEIGHING SYSTEMS

PN 171899
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1.0 Introduction

This document describes how to assemble the iDimension 100.

Manuals can be viewed or downloaded on the Rice Lake Weighing Systems distributor site at www.ricelake.com
Warranty information can be found on the website at www.ricelake.com/warranties

1.1 Safety

Safety Symbol Definitions

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

- **CAUTION** Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury.

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

Safety Precautions

Do not operate or work on this equipment unless you have read and understand the instructions and warnings in this manual. Contact any Rice Lake Weighing Systems dealer for replacement manuals. Proper care is your responsibility.

General Safety

*WARNING*

Failure to heed may result in serious injury or death.

**Electric shock hazard!**
- Pluggable equipment must be installed near an easily accessible socket outlet.
- Always disconnect from main power before performing any work on the device.
- Check the power cable for damage regularly and replace it immediately if it is damaged.
- On the side of the device, maintain a clearance of at least 1.5 inches in order to prevent damage to the cable.

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

Do not operate without all shields and guards in place.

Do not place fingers into slots or possible pinch points.

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

Do not make alterations or modifications to the unit.

Do not remove or obscure warning labels.

Keep hands, feet and loose clothing away from moving parts.

Do not use in hazardous areas.

Do not open the scanning head. The warranty and certification is void if this stipulation is ignored. The device may only be opened by authorized persons.
1.2 iDimension 100 Parts

Immediately after unpacking the iDimension 100, visually inspect the contents to ensure all components are included and undamaged. If any parts were damaged in shipment, notify the shipper immediately.

*Failure to adhere to the notes below will invalidate the warranty and may result in damage that could require repair or replacement charges.*

- Retain packaging. When transporting the unit, always disassemble and pack it in its original packaging.
- Use only supplied power adaptor. Never short-circuit the power adaptor or the device.
- Keep the unit dry.
- Operate between 41 - 104°F (5 - 40°C).
- Never remove the iDimension 100's head cover or the electrical connection panels at the base of the pole assembly.
- Never modify or attempt to repair the unit. Service must be performed only by Rice Lake Weighing Systems.
- Handle cables and cable connectors with care. Never use damaged power cords or plugs or loose electrical sockets. Never touch the power cord with wet hands.
- Ensure that the base plate, pole assembly and head unit are all securely attached before attempting to move the unit.
- Never lift the unit by grasping only the pole assembly; always ensure that both sections of the pole assembly and the base plate are supported.
- Never drop or allow an impact to the head.
- Mount on a flat surface.
- Never use product for anything other than its intended purpose.
2.0 Assembly

2.1 Pole Assembly

1. Using the appropriate hex wrench, remove the two screws at the pole joint. Retain the screws for assembly. Leave the other two screws in place.

Note Leave the other two screws in place.

2. Lay the pole out on a hard surface covered with a rug or similar soft covering.

3. Ensure that the poles are aligned correctly using the notch and pin as a guide.

4. Insert the lower half of the pole into the upper half.

5. Reinsert and tighten the screws removed in step 1.

6. Lay the pole assembly on a table or other stable surface. Ensure the power block is hanging over the edge.

7. Remove the four screws that are in the bottom of the power block.

8. Insert the two pins on the base into the matching holes of the power block.

9. Reinsert and tighten the four bolts removed in step 7.
10. Stand the assembled pole upright.

2.2 Head Attachment

1. Loosen the four screws that secure the cable shroud cover. Do not remove them.
2. Slide the shroud cover back and lift it off.
3. Align the head with the cable shroud at the top of the pole.
4. Connect the cables. See Figure 2-7.
5. Push the cables into the cable shroud carefully.
6. Insert the screws on the head into the keyhole slots on the shroud. Do not tighten them yet.
7. Place the shroud cover in the cable shroud and slide it forward until it clicks into place.
8. Re-tighten the four screws that secure it.

9. Tighten the bolts that attach the head to the shroud.

2.3 Display Assembly

1. Loosen the bolt that holds the u-shaped display bracket.
2. Remove the cable cover on the back of the display (for attachment of the USB cable in steps 5 and 6).

3. Select the display location. The display is usually mounted just above the display cable opening. It's possible to mount the display up to six inches above or below the opening. This depends on the size of the items that are to be dimensioned, operator height or other factors (the location can be easily adjusted later).

4. Mount the display to the pole at the selected location by re-tightening the bolt on the u-shaped bracket.
5. Insert the display cable into the mini USB port.
6. Route the USB cable into the cable slot and replace the cover that was removed in step 2 above.
7. Remove the overlay that protects the display screen.

The USB port is for attaching a scale that is compatible with the iDimension 100. See Operators Manual for compatible scales. Most scales are equipped with an RS-232 option (an RS-232 to USB adaptor may be required).

8. Attach the power cable to the port labeled Input 24v.

2.3.1 Install Scale (Optional)
When using a scale it should be installed prior to plugging the unit in.

1. When using a scale, place it on the base, centering it from side to side.
2. To place the scale front-to-back, find the small grooves engraved on both edges of the base. Center the scale between them.
3.0 Setup

The iDimension 100 is now ready to be plugged in. When it is, the software setup process will begin automatically. Don’t plug in the unit until there is time to complete all of the setup steps.

Additional setup may be required for connecting a compatible scale, placing the unit in its permanent location or interfacing to a compatible software program.

When the iDimension 100 is powered up for the first time, the setup wizard will launch automatically.

![Welcome Screen](image1)

*Figure 3-1. Welcome Screen*

1. Touch the **Arrow** button to begin setup.

![User Agreement Screen](image2)

*Figure 3-2. User Agreement Screen*

2. Review the End User License Agreement (EULA) by using the **Up/Down** scroll buttons.
3. Press the **Thumbs Up** button to confirm the EULA terms and conditions have been read and accepted. Setup cannot be continued until it is pressed.
4. Press the **Check Mark** to continue.
5. Using the Up/Down arrows, select the time zone for the iDimension 100.
6. Press the Check Mark to continue.

7. Using the Up/Down arrows, adjust the date and time if necessary.
8. Press the Check Mark to continue.
Zero Height calibration allows iDimension 100 to calculate the distance between the scan head and the base. The process differs depending on whether the base is flat or uneven.

9. Select the scale base that is being used.
   - If the base is a smooth-topped scale or the DimStation base, touch the left button.
   - If the base is a scale with an uneven surface (such as rollers), touch the right button.

10. If the base is an uneven scale, place the calibration box on top of the scale.
11. Press the Check Mark to continue.
10. Clear the base.

11. It is important to keep the base clear and unobstructed during zero height calibration, so that it can set Zero Height accurately.

12. Clear the base.

13. Stand clear of device while the countdown completes.
14. If a calibration object was used, remove it from the base.
15. Press the **Check Mark** to continue.

**Figure 3-9. Zero Height Complete**

The Scan Zone (Work Zone) is the area in which the unit looks for motion during the dimensioning of items. For best performance, adjust this to cover the largest area possible that can be used for scanning items and can be kept clear of all other objects.

16. Adjust the scan area by dragging each of the four touch points.
17. Press the **Check Mark** to continue.

**Figure 3-10. Identify Scan Area**

**Note**
18. Press the **Check Mark** to begin using the *iDimension 100*.

19. Test the *iDimension 100* to ensure it is properly calibrated. Place the calibration object on the base or scale and check the displayed dimensions.

20. Dimensions should be:
   - Length: 14.0 inches
   - Width: 12.0 inches
   - Height: 3.0 inches
3.1 Advanced configuration with QubeVu Manager

The QubeVu Manager is an optional set of software tools provided to enable advanced configuration. They are not needed in most cases. They are recommended for use only by a technical systems administrator.

This introduction is not intended as a replacement for complete documentation. Please refer to the QubeVu Manager Guide for a complete guide to the tools. The latest version of the Manager Guide, along with all other product documentation, can be downloaded from www.ricelake.com.

3.1.1 Define QubeVu on your Network

QubeVu Manager is accessed via the iDimension 100’s IP address over a wired Ethernet connection. To access these tools the iDimension 100 must be defined on the network.

The iDimension 100 can be installed as a network device and can be configured with a static IP address or by using DHCP. Talk to the network administrator to determine the best approach for the enterprise network.

The iDimension 100 is shipped with a dual IP configuration. The network interface will lease an IP address from any available DHCP server. However, it also has a fixed, fail-safe IP address of 169.254.1.1. If DHCP is preferred, the network administrator can share the IP address leased by the iDimension 100.

- Configure PC network settings to connect to iDimension 100 on 169.254.1.1
- Connect iDimension 100 to a computer using a standard Ethernet cable
- Configure the computer’s Ethernet interface with an IP address of 169.254.1.10.
- Consult with the network administrator if unsure how to change the computer’s IP address.

Verify connectivity

Verify the communication between the iDimension 100 and the computer.

Use the ping command to confirm connectivity.

  ping 169.254.1.1

If the ping command does not show that the iDimension 100, is responding this may be due to an issue with the network configuration. Make sure that wireless networking is turned off and then try the ping command again. If this is still unsuccessful contact the network administrator for further assistance.

Access QubeVu Manager

To view the QubeVu Manager home page, open an Internet browser and enter http://169.254.1.1. If using DHCP, remember to replace 169.254.1.1 with the IP address provided by the network administrator.