

# RL-DBS-2

*Dual-Range Digital Baby Scale*

## Operator Manual



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RLWS disponibles en Español

**RICE LAKE**<sup>®</sup>  
WEIGHING SYSTEMS

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# Revision History

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

| Revision | Date             | Description                                                                                                   |
|----------|------------------|---------------------------------------------------------------------------------------------------------------|
| E        | October 15, 2025 | Established revision history; updated specifications and compliance section; added periodic maintenance table |
|          |                  |                                                                                                               |
|          |                  |                                                                                                               |

*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](http://www.ricelake.com/training) or obtained by calling 715-234-9171 and asking for the training department.

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# 1.0 Introduction

The Rice Lake Dual-Range Digital Baby Scale (RL-DBS-2) provides precise weighing of babies for accurate, reliable and repeatable weighments. Movement compensation technology eliminates errors caused by spontaneous movement of the baby and the weight can be displayed in pounds/ounces or in kilograms.



Manuals are available from Rice Lake Weighing Systems at [www.ricelake.com/manuals](http://www.ricelake.com/manuals)

Warranty information is available at [www.ricelake.com/warranties](http://www.ricelake.com/warranties)



Figure 1-1. RL-DBS-2 Dual-Range Digital Baby Scale

## 1.1 Safety

### Safety Definitions:



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



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

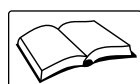


**CAUTION:** Indicates a potentially hazardous situation that, if not avoided, could result in minor or moderate injury.



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

### General Safety



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



#### WARNING

**Failure to heed could result in serious injury or death.**

**Ensure every individual operating or working with this unit has read and understands the following safety information.**

**Do not transport the scale with an infant on the weighing tray.**

**Clean the scale regularly to avoid cross contamination.**

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

**Do not use in the presence of flammable materials.**

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

**Do not drop the scale or subject it to violent shocks.**

**For accurate weighing, the scale must be placed on a level, stable surface.**

**Weight exceeding the maximum rated scale capacity may damage the scale.**

**Avoid contact with excessive moisture.**

**Do not make alterations or modifications to the scale; any alterations void the warranty.**

**For accurate weighing, verify proper setup is complete prior to first use. See [Section 3.2 on page 4](#).**

**Operation at voltages and frequencies other than specified could damage the scale.**

**Utilizing adapters not supplied by Rice Lake Weighing Systems voids all warranties.**

## 2.0 Setup

The RL-DBS-2 comes fully assembled and includes the scale and a 120 V or 230 V AC adapter. Immediately after unpacking, visually inspect the RL-DBS-2 to ensure all components are included and undamaged. If parts were damaged in shipment, notify Rice Lake Weighing Systems and the shipper immediately.

Use the following instructions for scale setup:

1. Place the scale on a sturdy, level surface.
2. Connect the 120 V or 230 V AC adapter to the back of the scale.
3. Plug the AC adapter into a power source.

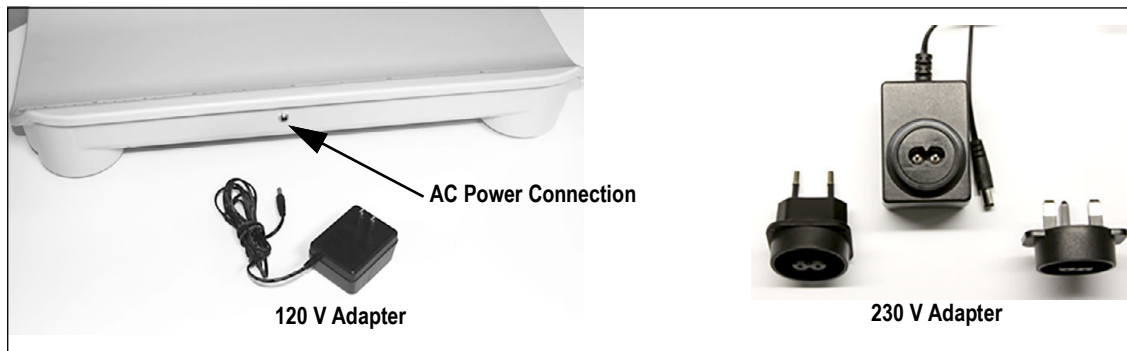


Figure 2-1. AC Power Connection Site

The RL-DBS-2 can also be powered by four AA alkaline batteries if an additional power source is not available. A battery powered scale automatically turns off after two minutes of not being used to save battery life. Replace the batteries or connect to an AC power source as soon as possible if the low battery indicator (**Lo**) displays.

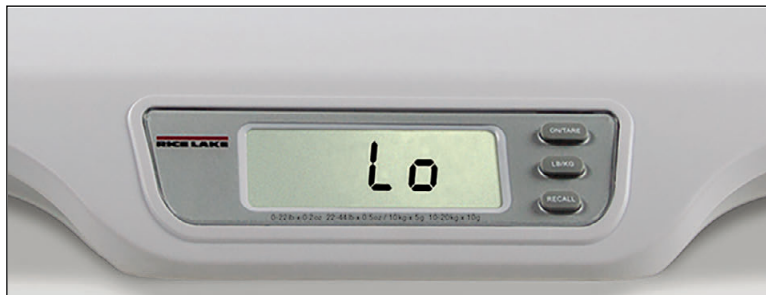


Figure 2-2. Low Battery Indicator

## 3.0 Operation

The RL-DBS-2 accurately weighs babies up to 44 lb (20 kg) and features a dual-range capacity for increased precision from 0-22 lb (0-10 kg). The weighing surface also includes a ruler for measuring the length of the baby. The built-in ruler can measure babies up to 22.5 in (57 cm).



**NOTE:** If the scale is battery powered and has not been used for two minutes, it automatically turns off to save battery life.

### 3.1 Display Descriptions

The following section describes the RL-DBS-2 operating keys and their functions.

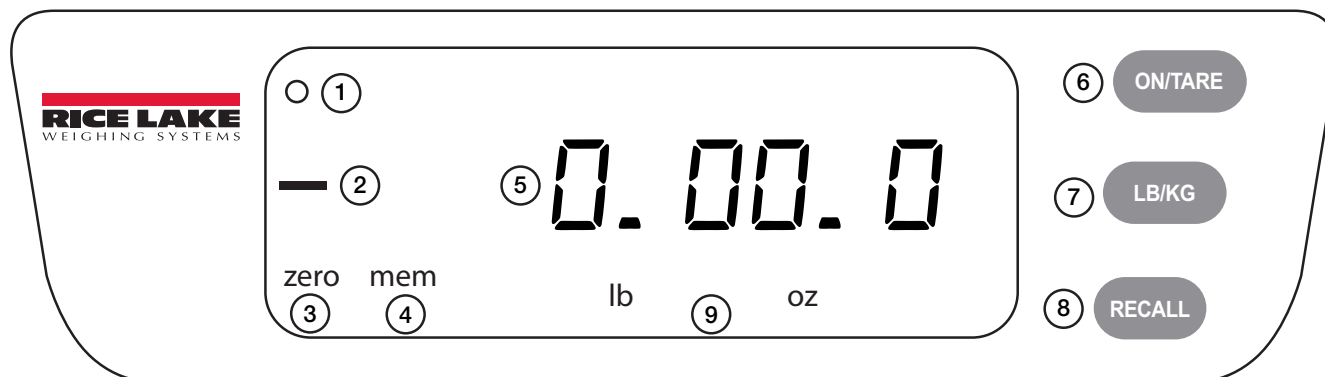


Figure 3-1. RL-DBS-2 Display

| Item | Description                 | Function                                                                                                                                                        |
|------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Motion annunciator          | Displays when a weight reading is complete                                                                                                                      |
| 2    | Negative/Minus annunciator  | Indicates a negative weight reading                                                                                                                             |
| 3    | Zero annunciator            | Indicates the scale is stable and ready for use                                                                                                                 |
| 4    | Memory annunciator          | Indicates the last weight measurement is displayed after pressing RECALL                                                                                        |
| 5    | 6-Digit LCD digital display | Displays the weight in pounds/ounces or kilograms                                                                                                               |
| 6    | On/Off                      | Press to turn On<br>Press and hold to turn Off                                                                                                                  |
|      | Tare                        | With weight on the scale, short press to tare off the weight, 0 displays                                                                                        |
| 7    | LB/KG                       | Selects pounds/ounces or kilograms                                                                                                                              |
| 8    | RECALL                      | Recalls the last weight measurement<br><i>Example: Weigh a baby on the scale and then remove the baby<br/>Press RECALL and the baby's weight displays again</i> |
| 9    | LB/OZ annunciator           | Indicates the scale is weighing in pounds/ounces                                                                                                                |
|      | KG annunciator              | Indicates the scale is weighing in kilograms                                                                                                                    |

Table 3-1. Front Panel with Annunciators Displayed



**NOTE:** The RL-DBS-2 comes pre-calibrated from the factory.

## 3.2 Initial Setup

Use the following steps to set up and verify the RL-DBS-2 upon initial power up and periodically thereafter.

1. Plug AC adapter cable into the back of the scale ([Figure 2-1 on page 2](#)) and the AC adapter plug into a power source.
2. Turn on the scale. A self test runs and **0.00.0 lb** or **0.00 kg** displays when complete.
3. Place a weight, not exceeding 40 lb, on the scale. The weight measurement is complete when **0** displays.
4. Press **LB/KG** to select unit of measure, lb/oz or kg.
5. Remove the weight from the scale. To display the weight again, press **RECALL**.



**NOTE:** If setup procedure fails, see [Section 4.4 on page 7](#). If the problem is not resolved, refer to a qualified service provider.

## 3.3 Set Units

The RL-DBS-2 can be set to display weights in lb/oz only, kg only, or to toggle between lb/oz and kg units on the scale.

### 3.3.1 KG Units Only

Lock the weight units to display in kg only.

1. Ensure the scale is turned on.
2. Press **LB/KG** to change the displayed units to kg.
3. Press and hold **LB/KG** for five seconds until **kg** flashes.
4. Release **LB/KG**. The weight units are now locked in kg. Pressing **LB/KG** does not switch units to lb/oz.

### 3.3.2 LB/OZ Units Only

Lock the weight units to display in lb/oz only.

1. Ensure the scale is turned on.
2. Press **LB/KG** to change the displayed units to lb/oz.
3. Press and hold **LB/KG** for five seconds until **lb oz** flashes.
4. Release **LB/KG**. The weight units are locked in lb/oz. Pressing **LB/KG** does not switch units to kg.

### 3.3.3 Unlock Units

Unlock the weight units to toggle between lb/oz and kg.

1. Ensure the scale is turned on.
2. Press and hold **LB/KG** for five seconds until **kg** or **lb oz** flashes.
3. Release **LB/KG**. Pressing **LB/KG** toggles units between lb/oz and kg.



### 3.4 Weigh With A Tare

The tare function removes the weight of additional items on the scale, such as a pad or blanket, at the time the baby is weighed.

1. Turn on the scale. **0:0.0 lb oz** or **0.00 kg** displays.
2. Place a pad on the weighing tray, ensuring the edges of the pad are not touching the stand. **○** displays when the weight reading is complete.
3. Press **ON/TARE** to remove the weight of the pad or any other accessory on the weighing tray.
4. Place a baby on the scale. **○** displays when the weight reading is complete.
5. Remove the baby from the scale.
6. Press **RECALL** to display the weight again, if necessary.

### 3.5 Weigh Without A Tare

Use this procedure when there are no additional items on the scale at the time the baby is weighed.

1. Turn on the scale. **0:0.0 lb oz** or **0.00 kg** displays.
2. Place a baby on the scale. **○** displays when the weight reading is complete.
3. Remove the baby from the scale.
4. Press **RECALL** to display the weight again, if necessary.

## 4.0 Maintenance

The following section provides instructions for maintaining, cleaning and troubleshooting the RL-DBS-2.



**IMPORTANT:** Maintenance operations not described in this section must be performed by qualified service personnel.

### 4.1 Basic Maintenance

- Check the scale for proper operation and function before first use and after periods of non-use.
- Inspect the scale. If the scale does not operate correctly, contact qualified service personnel.
- Check the overall appearance of the entire scale for any obvious signs of damage.
- Inspect the condition of the AC adapter for cord fraying or for broken or bent prongs.

### 4.2 Cleaning

Proper care and cleaning is essential to ensure a long life of accurate and effective operation. Disconnect the scale from the AC power source before beginning the cleaning process.



**IMPORTANT:** Do not immerse the scale into cleaning solutions or other liquids. Do not use Isopropyl alcohol or other solutions to clean the display surface.

1. Clean all external surfaces with a clean, damp cloth or tissue. Mild soap and water solution can be used.
2. Dry with a clean, soft cloth.

### 4.3 Periodic Maintenance

Refer to the following table for periodic maintenance guidelines:

| Task                            | Process                                                                            | Daily/Weekly | Quarterly | Per Local Regulations |
|---------------------------------|------------------------------------------------------------------------------------|--------------|-----------|-----------------------|
| Routine Cleaning                | Remove dirt, dust and debris                                                       | X            |           |                       |
| Ensure scale is level           | Check level and adjust scale feet as needed                                        | X            |           |                       |
| Test repeatability and accuracy | Place a minimum of 5% of full scale capacity on the scale 3 times in each quadrant |              | X         |                       |
| Inspect for damage              | Check AC power adaptor, hinges, etc for visible damage or missing parts            |              | X         |                       |
| Calibrate                       | Perform certified calibration                                                      |              |           | X                     |
| Certification                   | Review and renew test weight certifications                                        |              |           | X                     |

Table 4-1. Periodic Maintenance

## 4.4 Troubleshooting

Use the following instructions to troubleshoot any errors with the scale.

| Symptom                                             | Possible Cause                                                      | Corrective Action                                                                                                                                    |
|-----------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Scale does not turn on                              | Batteries are dead                                                  | Replace batteries or connect scale to a power source                                                                                                 |
|                                                     | Electrical outlet is faulty                                         | Use a different electrical outlet                                                                                                                    |
|                                                     | Power supply is faulty                                              | Replace the adapter<br><b>NOTE: Utilizing adapters not supplied by Rice Lake Weighing Systems voids all warranties</b>                               |
| Scale displays questionable weight or does not zero | There is weight on or an object interfering with the scale          | Remove baby, weight or interfering object from scale                                                                                                 |
|                                                     | Weight was placed on the scale before 0.0 displayed                 | Remove baby or weight from the scale; zero scale and begin weighing process again                                                                    |
|                                                     | Scale is not on a level surface                                     | Place scale on a stable surface and begin weighing process again                                                                                     |
|                                                     | Weighing tray is not placed properly                                | Ensure weighing tray is properly installed                                                                                                           |
|                                                     | Scale is out of calibration                                         | Check scale calibration with a known weight value; contact a qualified service provider to perform a new calibration if the calibration is incorrect |
| <b>o_Ld</b> message is displayed                    | Load on the scale exceeds the capacity                              | Remove excess weight and use scale according to its stated limit                                                                                     |
| <b>Err</b> message is displayed                     | <b>RECALL</b> key was pressed with insufficient weight on the scale | Place more than 2 lb 30 oz on the scale                                                                                                              |

Table 4-2. Troubleshooting Table

## 5.0 Compliance

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>EU DECLARATION OF CONFORMITY</b><br><small>EU-KONFORMITÄTSERKLÄRUNG<br/>DÉCLARATION UE DE CONFORMITÉ</small>                                                                             | Rice Lake Weighing Systems<br>230 West Coleman Street<br>Rice Lake, Wisconsin 54868<br>United States of America<br> |                                                                                                                     |                                                                         |                                            |                |                     |  |                |  |                                                                                                                                          |                 |               |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------|----------------|---------------------|--|----------------|--|------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------|--|
| <b>Type/Typ/Type:</b> RL-DBS, RL-DBS-2 baby scale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                             |                                                                                                                                                                                                        |                                                                                                                     |                                                                         |                                            |                |                     |  |                |  |                                                                                                                                          |                 |               |  |
| English                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | We declare under our sole responsibility that the products to which this declaration refers to, is in conformity with the following standard(s) or other regulations document(s).           |                                                                                                                                                                                                        |                                                                                                                     |                                                                         |                                            |                |                     |  |                |  |                                                                                                                                          |                 |               |  |
| Deutsch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Wir erklären unter unserer alleinigen Verantwortung, dass die Produkte auf die sich diese Erklärung bezieht, den folgenden Normen und Regulierungsbestimmungen entsprechen.                 |                                                                                                                                                                                                        |                                                                                                                     |                                                                         |                                            |                |                     |  |                |  |                                                                                                                                          |                 |               |  |
| Français                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Nous déclarons sous notre responsabilité que les produits auxquels se rapporte la présente déclaration, sont conformes à la/aux norme/s suivante ou au/aux document/s normatif/s suivant/s. |                                                                                                                                                                                                        |                                                                                                                     |                                                                         |                                            |                |                     |  |                |  |                                                                                                                                          |                 |               |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #cccccc;"> <th style="text-align: left; padding: 5px;">EU Directive</th> <th style="text-align: left; padding: 5px;">Certificates</th> <th style="text-align: left; padding: 5px;">Standards Used / Notified Body Involvement</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">2014/35/EU LVD</td> <td style="padding: 5px;">EN 60950-1:2006+A11</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;">2014/30/EU EMC</td> <td style="padding: 5px;"></td> <td style="padding: 5px;">EN 55022:2006+A1:2007, EN 55024:1998+A1:2001+A2:2003, EN 61000-3-2:2006, EN 61000-3-3:2008, EN 61000-6-3:2007+A1:2011, EN 61000-6-1:2017</td> </tr> <tr> <td style="padding: 5px;">2011/65/EU RoHS</td> <td style="padding: 5px;">EN 50581:2012</td> <td style="padding: 5px;"></td> </tr> </tbody> </table> |                                                                                                                                                                                             |                                                                                                                                                                                                        | EU Directive                                                                                                        | Certificates                                                            | Standards Used / Notified Body Involvement | 2014/35/EU LVD | EN 60950-1:2006+A11 |  | 2014/30/EU EMC |  | EN 55022:2006+A1:2007, EN 55024:1998+A1:2001+A2:2003, EN 61000-3-2:2006, EN 61000-3-3:2008, EN 61000-6-3:2007+A1:2011, EN 61000-6-1:2017 | 2011/65/EU RoHS | EN 50581:2012 |  |
| EU Directive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Certificates                                                                                                                                                                                | Standards Used / Notified Body Involvement                                                                                                                                                             |                                                                                                                     |                                                                         |                                            |                |                     |  |                |  |                                                                                                                                          |                 |               |  |
| 2014/35/EU LVD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | EN 60950-1:2006+A11                                                                                                                                                                         |                                                                                                                                                                                                        |                                                                                                                     |                                                                         |                                            |                |                     |  |                |  |                                                                                                                                          |                 |               |  |
| 2014/30/EU EMC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                             | EN 55022:2006+A1:2007, EN 55024:1998+A1:2001+A2:2003, EN 61000-3-2:2006, EN 61000-3-3:2008, EN 61000-6-3:2007+A1:2011, EN 61000-6-1:2017                                                               |                                                                                                                     |                                                                         |                                            |                |                     |  |                |  |                                                                                                                                          |                 |               |  |
| 2011/65/EU RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | EN 50581:2012                                                                                                                                                                               |                                                                                                                                                                                                        |                                                                                                                     |                                                                         |                                            |                |                     |  |                |  |                                                                                                                                          |                 |               |  |
| <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;">           Signature: <u><i>Derrick Bender</i></u><br/><br/>           Name: <u>Derrick Bender</u><br/><br/>           Title: <u>Compliance Engineer</u> </td> <td style="width: 50%; vertical-align: top;">           Place: <u>Rice Lake, WI. USA</u><br/><br/>           Date: <u>September 16, 2025</u> </td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                             |                                                                                                                                                                                                        | Signature: <u><i>Derrick Bender</i></u><br><br>Name: <u>Derrick Bender</u><br><br>Title: <u>Compliance Engineer</u> | Place: <u>Rice Lake, WI. USA</u><br><br>Date: <u>September 16, 2025</u> |                                            |                |                     |  |                |  |                                                                                                                                          |                 |               |  |
| Signature: <u><i>Derrick Bender</i></u><br><br>Name: <u>Derrick Bender</u><br><br>Title: <u>Compliance Engineer</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Place: <u>Rice Lake, WI. USA</u><br><br>Date: <u>September 16, 2025</u>                                                                                                                     |                                                                                                                                                                                                        |                                                                                                                     |                                                                         |                                            |                |                     |  |                |  |                                                                                                                                          |                 |               |  |

## 6.0 Specifications

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**Capacity:**

0-22 lb x 0.2 oz (0-10 kg x 5 g)

22-44 lb x 0.5 oz (10-20 kg x 10 g)

**Power Requirements:**

Four AA alkaline batteries (included)

120 V or 230 V AC adapter (included)

Adapter is UL and C-UL approved

**Environmental:**

Operating temperature: 50 to +104° F (10 to +40° C)

Storage temperature: -4 to +140° F (-20 to +60° C)

Humidity: < 80% relative humidity

**Dimensions (L x W x H):**

23.6" x 15.0" x 3.9" (60.9 x 38.1 x 9.9 cm)

**Weight:**

5.26 lb (2.5 kg)

**Warranty:**

Two-year limited warranty

**Acceptable Tolerance (d = display divisions)**

5 kg +/- 3 d

10 kg +/- 5 d

15 kg +/- 6 d

20 kg +/- 8 d







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