KRAMER ELECTRONICS LTD.

USER MANUAL

MODEL:

**RTBUS-11**
Round Table Connection Bus

P/N: 2900-300085 Rev 4
Step 1: Check what’s in the box
- RTBUS-11 Round Table
- Connection Bus
- 1 Quick Start sheet
- 2 Mounting brackets
- Locking ties

Step 2: Install the RTBUS-11

1: Cut an opening in the table
   Drill a 92mm to 95mm (3.62in to 3.74in) hole in your table using a cup type drill bit

2: Insert the unit

3: Insert the mounting brackets

4: Secure the unit

5: Connect the cables
   Note that the connecting surface cannot be detached from the RTBUS-11 enclosure.
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1 Introduction

Welcome to Kramer Electronics! Since 1981, Kramer Electronics has been providing a world of unique, creative, and affordable solutions to the vast range of problems that confront video, audio, presentation, and broadcasting professionals on a daily basis. In recent years, we have redesigned and upgraded most of our line, making the best even better!

Our 1,000-plus different models now appear in 14 groups that are clearly defined by function: GROUP 1: Distribution Amplifiers; GROUP 2: Switchers and Routers; GROUP 3: Control Systems; GROUP 4: Format/Standards Converters; GROUP 5: Range Extenders and Repeaters; GROUP 6: Specialty AV Products; GROUP 7: Scan Converters and Scalers; GROUP 8: Cables and Connectors; GROUP 9: Room Connectivity; GROUP 10: Accessories and Rack Adapters; GROUP 11: Sierra Video Products; GROUP 12: Digital Signage; GROUP 13: Audio; and GROUP 14: Collaboration.

Congratulations on purchasing your Kramer RTBUS-11 Round Table Connection Bus, which is ideal for the following typical applications:

- Boardrooms
- Conference rooms
- Training rooms
2 Getting Started

We recommend that you:

- Unpack the equipment carefully and save the original box and packaging materials for possible future shipment
- Review the contents of this user manual

Go to http://www.kramerelectronics.com/support/product_downloads.asp to check for up-to-date user manuals, application programs, and to check if firmware upgrades are available (where appropriate).

2.1 Achieving the Best Performance

To achieve the best performance:

- Use only good quality connection cables (we recommend Kramer high-performance, high-resolution cables) to avoid interference, deterioration in signal quality due to poor matching, and elevated noise levels (often associated with low quality cables)
- Do not secure the cables in tight bundles or roll the slack into tight coils
- Avoid interference from neighboring electrical appliances that may adversely influence signal quality
- Position your Kramer RTBUS-11 away from moisture, excessive sunlight and dust

This equipment is to be used only inside a building. It may only be connected to other equipment that is installed inside a building.
2.2 Safety Instructions

Caution: There are no operator serviceable parts inside the unit

Warning: Use only the power cord that is supplied with the unit

Warning: Do not open the unit. High voltages can cause electrical shock! Servicing by qualified personnel only

Warning: Disconnect the power and unplug the unit from the wall before installing

2.3 Recycling Kramer Products

The Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/EC aims to reduce the amount of WEEE sent for disposal to landfill or incineration by requiring it to be collected and recycled. To comply with the WEEE Directive, Kramer Electronics has made arrangements with the European Advanced Recycling Network (EARN) and will cover any costs of treatment, recycling and recovery of waste Kramer Electronics branded equipment on arrival at the EARN facility. For details of Kramer’s recycling arrangements in your particular country go to our recycling pages at http://www.kramerelectronics.com/support/recycling/.
The **RTBUS-11** is an elegant furniture-mounted, round connection bus, featuring a pneumatic mechanism for automatic lifting and smooth closing of its lid. The **RTBUS-11** is easily installed into a table or podium top for the USA (Power Input - 110V AC). The **RTBUS-11** enables you to connect any equipment to systems installed in a room via cable access or passive interfaces.

In addition, the **RTBUS-11** includes the following pass-through connectors:

- 1 VGA on a 15-pin HD connector
- 1 HDMI connector
- 1 stereo audio on a 3.5mm connector
- 1 Ethernet port on an RJ-45 connector
- C14 power socket

The **RTBUS-11** supports HDMI with Deep Color, x.v.Color™, Lip Sync, HDMI Uncompressed Audio Channels, Dolby TrueHD, DTS-HD, and CEC.

The **RTBUS-11** surface is available in black anodized or brushed clear.

### 3.1 Defining the RTBUS-11 Round Table Connection Bus

This section defines the **RTBUS-11**.
Figure 1: RTBUS-11 Round Table Connection Bus
<table>
<thead>
<tr>
<th>#</th>
<th>Feature</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Black Anodized or Brushed Aluminum semi-automatic Lid</td>
<td>Covers the connecting surface, leaving the table surface neat and tidy</td>
</tr>
<tr>
<td>2</td>
<td>Outer Rim</td>
<td>Fits over the table surface</td>
</tr>
<tr>
<td>3</td>
<td>Pneumatic Mechanism</td>
<td>Enables automatic lifting and smooth closing of the lid</td>
</tr>
<tr>
<td>4</td>
<td>Connecting Surface</td>
<td>See Figure 2</td>
</tr>
<tr>
<td>5</td>
<td>Rubber Protectors</td>
<td>Protect the table surface when mounting the unit (one on each side)</td>
</tr>
<tr>
<td>6</td>
<td>Mounting Screws (2)</td>
<td>For securing the RTBUS-11 to the table</td>
</tr>
<tr>
<td>7</td>
<td>Locking Butterfly Nuts</td>
<td>Tighten to lock the mounting butterfly screw (one on each side)</td>
</tr>
<tr>
<td>8</td>
<td>Mounting Brackets (2 units)</td>
<td>Place in the bracket slits after inserting the enclosure into the table – for securing the unit to the table surface (one on each side)</td>
</tr>
<tr>
<td>9</td>
<td>Mounting Butterfly Nuts</td>
<td>Tighten to secure the unit to the table surface (one on each side)</td>
</tr>
<tr>
<td>10</td>
<td>Mounting Bracket Slits (two sets on each side)</td>
<td>Insert the mounting brackets to the slits when installing the RTBUS-11 (see Section 4.2)</td>
</tr>
<tr>
<td>11</td>
<td>HDMI Connector</td>
<td>Connect to an HDMI source</td>
</tr>
<tr>
<td>12</td>
<td>PC 15-pin HD Connector</td>
<td>Connect to a computer graphics source</td>
</tr>
<tr>
<td>13</td>
<td>Audio 3.5mm Mini Jack</td>
<td>Connect to an analog audio source</td>
</tr>
<tr>
<td>14</td>
<td>C14 power socket</td>
<td>Connect to the mains power</td>
</tr>
</tbody>
</table>

Figure 2: RTBUS-11 Connecting Surface

<table>
<thead>
<tr>
<th>#</th>
<th>Feature</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ETHERNET RJ-45 Connector</td>
<td>Connect to a network</td>
</tr>
<tr>
<td>2</td>
<td>PC 15-pin HD Connector</td>
<td>Connects to a VGA source</td>
</tr>
<tr>
<td>3</td>
<td>HDMI Connector</td>
<td>Connect to HDMI source</td>
</tr>
<tr>
<td>4</td>
<td>5A MAX. Power Socket</td>
<td>Connect to a 110V AC power consuming device</td>
</tr>
<tr>
<td>5</td>
<td>AUDIO 3.5mm Mini Jack</td>
<td>Connects to an unbalanced stereo audio source</td>
</tr>
<tr>
<td>6</td>
<td>Lid Latch</td>
<td>For safely closing the lid</td>
</tr>
</tbody>
</table>
4 Installing the RTBUS-11

To install the RTBUS-11 perform the following steps:

1. Drill a hole in the table (see Section 4.1).

2. Insert the unit through the hole and secure the unit to the table (see Section 4.2).

3. Connect the cables (see Section 4.3).

4.1 Drilling a Hole in the Table

To drill an opening in the table:

1. Using any standard cup bit drill with a diameter ranging from 92mm to 95mm (3.62in to 3.74in), drill a hole in the table in the desired location.

Note: The thickness of the table should be 3in (76mm) or less.

2. Clean the table surface.

Take care not to damage the table.

Kramer Electronics is not responsible for any damage caused to the table.
4.2 Mounting the RTBUS-11 in the Table

To mount the unit, follow these steps:

**Step 1**: Insert the RTBUS-11 into the hole cut into the table making sure the outer rim is firm against the surface of the table.

**Step 2**: From underneath the table, slide the mounting brackets into the appropriate slots.
**Step 3**: Tighten the butterfly mounting screws securely upward against the table.

**Step 4**: Lock the mounting screws into position with the locking butterfly screws.
4.3 Connecting the Cables

Figure 3 illustrates how to connect the cables to the underside of the unit:

Note that the connecting surface is an integral part of the RTBUS-11 enclosure and cannot be detached.

![Figure 3: Connecting the Cables]

We recommend that you use the Kramer C-AC/US AC Power Cord - 6ft USA 110V AC (P/N: 91-000099) to power the unit.
5 Using the RTBUS-11

Once the **RTBUS-11** is installed, you can easily customize it to your own needs by plugging in the required AV equipment, as illustrated in the example in *Figure 4*.

![Figure 4: RTBUS-11 Boardroom Installation](image-url)
# Technical Specifications

<table>
<thead>
<tr>
<th>PORTS:</th>
<th>1 HDMI connector, 1 15-pin HD connector, 1 3.5mm mini jack, 1 RJ-45 connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPERATING TEMPERATURE:</td>
<td>0° to +40°C (32° to 104°F)</td>
</tr>
<tr>
<td>STORAGE TEMPERATURE:</td>
<td>-40° to +70°C (-49° to 158°F)</td>
</tr>
<tr>
<td>HUMIDITY:</td>
<td>10% to 90%, RHL non-condensing</td>
</tr>
<tr>
<td>POWER SOURCE (AC power limits):</td>
<td>115V AC, 50/60Hz, 5A Max</td>
</tr>
<tr>
<td>FUSE RATING:</td>
<td>T 6.3A 250V</td>
</tr>
<tr>
<td>DIMENSIONS:</td>
<td>10.5cm x 16cm (4.1” x 6.3”) Diameter, H</td>
</tr>
<tr>
<td>WEIGHT:</td>
<td>0.85kg (1.9lbs) approx.</td>
</tr>
<tr>
<td></td>
<td>1.2kg (2.6lbs) approx. with mounting brackets</td>
</tr>
<tr>
<td>INCLUDED ACCESSORIES:</td>
<td>Six self-locking ties</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice at [http://www.kramerelectronics.com](http://www.kramerelectronics.com)
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The warranty obligations of Kramer Electronics for this product are limited to the terms set forth below:
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This limited warranty does not cover any damage, deterioration or malfunction resulting from any alteration, modification, improper or unreasonable use or maintenance, misuse, abuse, accident, neglect, exposure to excess moisture, fire, improper packing and shipping (such claims must be presented to the carrier), lightning, power surges, or other acts of nature. This limited warranty does not cover any damage, deterioration or malfunction resulting from the installation or removal of this product from any installation, any unauthorized tampering with this product, any repairs attempted by anyone unauthorized by Kramer Electronics to make such repairs, or any other cause which does not relate directly to a defect in materials and/or workmanship of this product. This limited warranty does not cover cartons, equipment enclosures, cables or accessories used in conjunction with this product.
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How Long Does this Coverage Last
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Only the original purchaser of this product is covered under this limited warranty. This limited warranty is not transferable to subsequent purchasers or owners of this product.
What Kramer Electronics will do
Kramer Electronics will, at its sole option, provide one of the following three remedies to whatever extent it shall deem necessary to satisfy a proper claim under this limited warranty:
1. Elect to repair or facilitate the repair of any defective parts within a reasonable period of time, free of any charge for the necessary parts and labor to complete the repair and restore this product to its proper operating condition. Kramer Electronics will also pay the shipping costs necessary to return this product once the repair is complete.
2. Replace this product with a direct replacement or a similar product deemed by Kramer Electronics to perform substantially the same function as the original product.
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If it is decided that this product should be returned directly to Kramer Electronics, this product should be properly packed, preferably in the original carton, for shipping. Cartons not bearing a return authorization number will be refused.
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For the latest information on our products and a list of Kramer distributors, visit our Web site where updates to this user manual may be found.

We welcome your questions, comments, and feedback.
Web site: www.kramerelectronics.com
E-mail: info@kramerel.com

SAFETY WARNING
Disconnect the unit from the power supply before opening and servicing.