Manuals+ — User Manuals Simplified.

KRAMER TBUS-4xl Table Connection Bus User Manual

Contents

KRAMER TBUS-4xl Table Connection Bus

Product Information

- **Specifications**
  - **Model:** TBUS-4xl Table Connection Bus
  - **Part Number:** 2900-300067 Rev 3
- **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 daily.
  - 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 11 groups that are clearly defined by function:
- **GROUP**
  - Distribution Amplifiers, GROUP
  - Switchers and Matrix Switchers, GROUP
  - Control Systems, GROUP
  - Format/Standards Converters, GROUP
  - Range Extenders and Repeaters, GROUP
  - Specialty AV Products, GROUP
  - Scan Converters and Scalers, GROUP
  - Cables and Connectors, GROUP
  - Room Connectivity, GROUP
  - Accessories and Rack Adapters, and GROUP
  - Sierra Products.
  - Thank you for purchasing the Kramer TBUS-4xl enclosure, which is ideal for boardrooms, conference and training rooms!
  - Note that the inner frame, power socket assembly, power cord and other inserts for the TBUS-4xl enclosure are purchased separately.

- **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
  - Use Kramer high-performance high-resolution cables
  - Go to **www.kramerav.com** to check for up-to-date user manuals, a complete list of Kramer wall plates and module connectors, and application programs, and to check if firmware upgrades are available (where appropriate).
- **Achieving the Best Performance**
  - **To achieve the best performance:**
    - Use only good-quality connection cables to avoid interference, deterioration in signal quality due to poor matching, and elevated noise levels (often associated with low-quality cables)
    - Avoid interference from neighbouring electrical appliances that may adversely influence the signal quality
    - Position your Kramer TBUS-4xl away from moisture, excessive sunlight and dust
- **Glossary**
  - **Inner frame:** The inner frame fits into the TBUS enclosure
  - **Universal socket:** The Universal socket fits almost all power cords, worldwide

Product Usage Instructions

- **Overview**
  - The TBUS-4xl Table Connection Bus is an enclosure designed for boardrooms, conference rooms, and training rooms. It allows for convenient connectivity of various devices and cables.
- **Your TBUS-4xl Enclosure**
  - The TBUS-4xl enclosure includes the following components:
- **Enclosure top**
  - Optional inner frames (purchased separately)
  - Optional inserts (purchased separately)
  - Power socket options (purchased separately)
  - Power cord options (purchased separately)
- **TBUS-4xl Optional Inner Frames**
  - The TBUS-4xl enclosure supports optional inner frames that allow for customization and organization of cables and devices.
- **TBUS-4xl Optional Inserts**
  - The TBUS-4xl enclosure supports optional inserts that provide additional connectivity options, such as HDMI, USB, and audio ports.
- **Power Socket Options**
  - The TBUS-4xl enclosure supports various power socket options to accommodate different power cords and plug types.
- **Power Cord Options**
  - The TBUS-4xl enclosure supports different power cord options to suit different geographical locations

and power requirements.

- **Installing the TBUS-4xl Assembling the Inner Frame**
  - **To assemble the inner frame:**
    - Follow the instructions provided with the optional inner frame to assemble it.
- **Installing the Inner Frame**
  - **To install the inner frame into the TBUS-4xl enclosure:**
    - Ensure that the TBUS-4xl enclosure is empty and clean.
    - Align the inner frame with the mounting holes inside the enclosure.
    - Secure the inner frame to the enclosure using the provided screws.
- **Cutting an Opening in the Table**
  - **To install the TBUS-4xl into a table, you need to cut an opening in the table surface. Follow these steps:**
    - Measure and mark the desired location for the opening on the table surface.
    - Use a suitable cutting tool to carefully cut out the marked area. Ensure that the cutout dimensions match the specifications provided in the user manual.
    - Remove any debris or sharp edges from the cutout area.
- **Inserting the TBUS-4xl through the Cut Out Opening**
  - **To insert the TBUS-4xl into the cutout opening:**
    - Ensure that the TBUS-4xl is disconnected from power sources and cables.
    - Hold the TBUS-4xl with both hands and align it with the cutout opening.
    - Gently insert the TBUS-4xl into the opening, ensuring that it is flush with the table surface.
- **Connecting the Cables**
  - **To connect cables to the TBUS-4xl:**
    - Identify the appropriate cable connections on the TBUS-4xl.
    - Connect the cables to their respective ports on the TBUS-4xl.
    - Ensure that the cables are securely connected.
- **Inserting the Pass-through Cables**
  - **If pass-through cables are required:**
    - Identify the pass-through cable openings on the TBUS-4xl.
    - Insert the pass-through cables into their respective openings.
    - Ensure that the pass-through cables are securely inserted.
- **Adjusting the Height of the Inner Frame**
  - **If necessary, adjust the height of the inner frame within the TBUS-4xl enclosure:**
    - Loosen the height adjustment screws located on the sides of the inner frame.
    - Slide the inner frame up or down to the desired height.
    - Tighten the height adjustment screws to secure the inner frame in place.
- **Using the TBUS-4xl**
  - Once the TBUS-4xl is installed and cables are connected, you can use it to conveniently access and manage various devices and connections in your boardroom, conference room, or training room.
  - Technical Specifications of the Assembled TBUS-4xl
  - For technical specifications of the assembled TBUS-4xl, please refer to the user manual or contact Kramer Electronics for more information.
- **FAQ**
  - **Q:** Can I purchase the inner frame, power socket assembly, power cord, and inserts separately?

- **A:** Yes, the inner frame, power socket assembly, power cord, and inserts for the TBUS-4xl enclosure are purchased separately to allow for customization and flexibility.
- **Q:** Can I use low-quality cables with the TBUS-4xl?
- **A:** It is recommended to use good quality connection cables to avoid interference, signal quality deterioration, and elevated noise levels. Low-quality cables may negatively impact performance.
- **Q:** How should I position the TBUS-4xl?
- **A:** Position your Kramer TBUS-4xl away from moisture, excessive sunlight, and dust to ensure optimal performance and longevity.

Quick Start Guide

TBUS-4xl Quick Start Guide

- This page guides you through a basic installation and first-time use of your TBUS-4xl.
- For more detailed information, see the TBUS-4xl user manual and modular instruction sheets.
- You can download the latest manual at **http://www.kramerelectronics.com**.

Step 1: Check what's in the box

- ☑ TBUS-4xl Table Connection Bus Enclosure
- ☑ 2 table clamps
- ☑ 6 self locking ties
- ☑ 1 Cut out Template
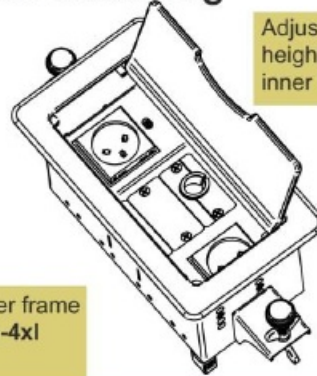- ☑ 1 Quick start guide
- ☑ 1 User Manual
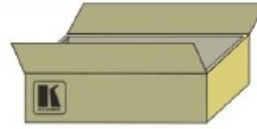
Save the original box and packaging materials in case your Kramer product needs to be returned to the factory for service.

Step 2: Prepare the TBUS-4xl for mounting

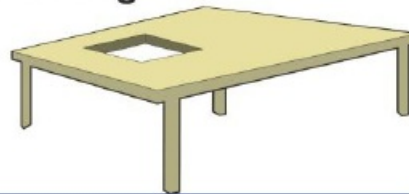Assemble the inner frame and install the power socket (if required).
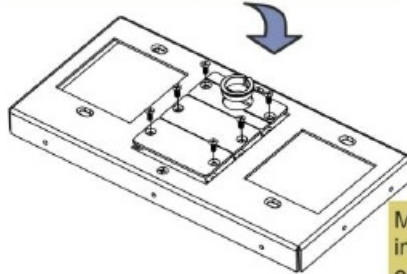
Adjust the height of the inner frame.

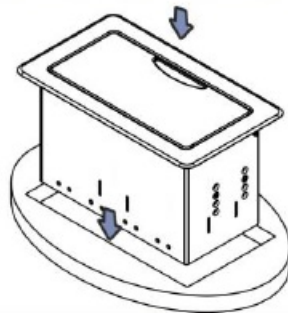Mount the inner frame into the **TBUS-4xl** enclosure.

Step 3: Prepare the table for mounting

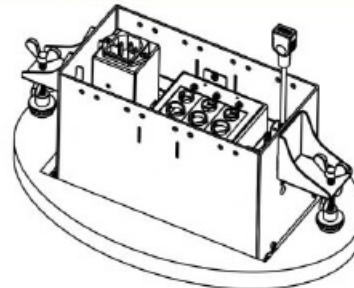Cut out an opening in the table using the cut out template.

Step 4: Install the TBUS-4xl to the table

Insert the unit through the table opening.

Secure the unit to the table and connect the cables.

Introduction

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- Adapters, and GROUP 11: Sierra Products.

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training rooms!

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Achieving the Best Performance
To achieve the best performance:

- Use only good-quality connection cables to avoid interference, deterioration in signal quality due to poor matching, and elevated noise levels (often associated with low-quality cables)
- Avoid interference from neighbouring electrical appliances that may adversely influence signal quality
- Position your Kramer TBUS-4xl away from moisture, excessive sunlight and dust

Glossary

Inner frame	The inner frame fits into the TBUS enclosure
Universal socket	The Universal socket fits almost all power cords, worldwide
Insert	The insert is fitted in the inner frame. Go to our Web site to check for a variety of single and dual-sized inserts

Overview

- The Kramer TBUS-4xl is a high-quality, anodized aluminium, table-mounted connection bus enclosure for boardrooms and conference rooms.
- Its attractive enclosure is designed to provide maximum connectivity in the smallest possible footprint.
- The unit is sturdy, cost-effective, and easy to install.

TBUS-4xl features:

- A modular design, letting you tailor the TBUS-4xl according to your requirements
- A black anodized or brushed clear aluminium lid with a special opening for cable pass-through (note, that other customized colors can also be ordered)
- Height adjustment screw holes to set the inner frame (ordered separately) to the desired height
- Power socket openings that are suitable for any of the following power sockets: for the USA, Germany (the

Europlug), Belgium-France, Italy,

- Australia, Israel, South Africa or "Universal" for use anywhere (see compatibility restrictions in Section 7)
- Order the power sockets separately from Kramer Electronics
- An optional insert kit to replace one power socket
- The insert kit can include two wall plate module inserts, two cable pass-through connectors, or one of each
- TBUS-4xl is height-adjustable and the cover opens and closes manually, keeping the cables and the connectors out of sight when not used.

Figure 1: TBUS-4xl inside a Table

- Do not place heavy objects on ! top of the TBUS-4xl.
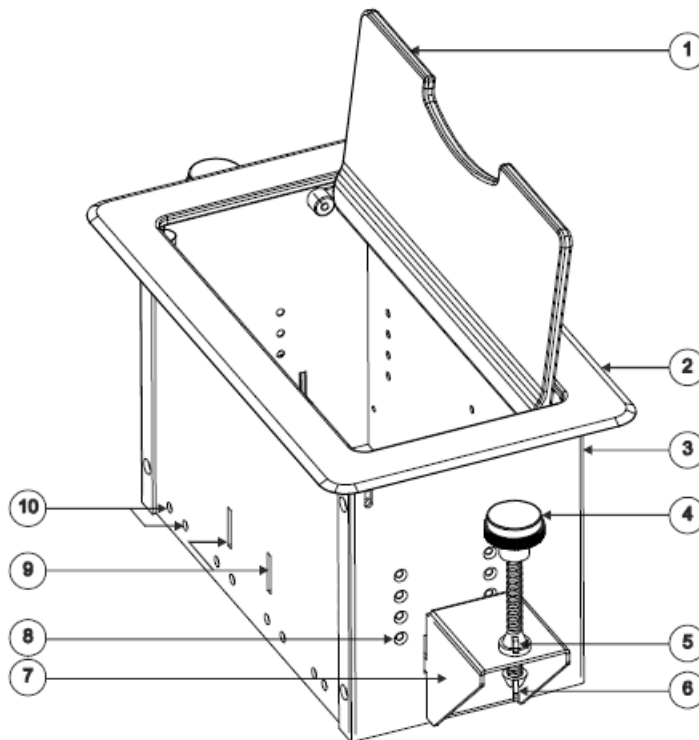
Your TBUS-4xl Enclosure

Figure 2: TBUS-4xl Enclosure Top View

#		Feature	Function
1		Black Anodized/Brushed Clear Textured Lid	Includes an opening for cable pass-through; covers the Inner Frame, leaving the table surface neat
2		Outer Rim	Fits over the table surface. A protective rubber guard protects the outer rim during shipping. Remove it before installing the unit
3		Enclosure	Inserted into the table cut-out
4		Rubber Protectors	Protect the table surface when mounting the unit (one for each clamp)
5	Table Clamping Set	Locking Butterfly Screws	Tighten to lock the mounting butterfly screw (one for each clamp)
6		Mounting Butterfly Screws	Tighten to secure the unit to the table surface (one for each clamp)
7		Mounting Brackets	Fit in the bracket slits after inserting the enclosure into the table – to secure the unit to the table surface (one for each clamp)
8		Height Adjustment Screw holes	The screw holes on each side panel are used for adjusting the height of the Inner Frame
9		Bracket Slits	For attaching the two mounting brackets on opposite sides
10		Tie Holes	Insert the self-locking tie through the holes to fix the pass-through cables to the inside walls of the unit

TBUS-4xl Optional Inner Frames

The following inner frames can be installed in the TBUS-4xl enclosure:

Custom-made inner frames can be designed if required. Contact Kramer Electronics for more details.
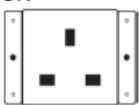
TBUS-4xl Optional Inserts

Accessories	Description
Inserts	You can install any wall plate devices as well as any of the single or dual inserts—see our Web site for details.
	T-2INSERT (P/N: 80-00006699) The **T-2INSERT** kit can be installed inside a single power socket opening and includes: 1 single cable pass-through insert 1 dual cable pass-through insert

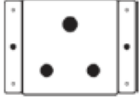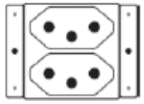## Power Socket Options
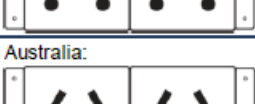
- Inner frames support installing one or more of the following power socket assemblies.
- **Note:** The Brazilian power sockets are supplied as dual power sockets in a single power socket assembly (see table below).

Single Power Socket Assemblies

Socket Type	Power Specs	
Universal: 	TS-1U (80-000899) 100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet	**Fully compatible** with power plugs in the UK, India, Italy and Denmark, as well as with the 2-prong Europlug. **Partially compatible** (if the polarity is reversed) with plugs in China, Switzerland, Israel and the USA. The universal socket does not supply grounding to plugs in Central Europe and France and so you should order country specific sockets instead. **Not compatible** with South African plugs.

Socket Type	Power Specs	Socket Type	Power Specs
USA: 	TS-1US (80-000999) 100-125V AC, 50/60Hz, 5A Maximum 5A per power outlet	UK 	TS-1UK (91-000022) 100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet
Belgium and France: 	TS-1FR (80-001399) 100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet	Israel: 	TS-1IL (80-001799) 100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet
Germany and EU: 	TS-1DE (80-001299) 100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet	South Africa 	TS-1ZA (80-001699) 100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet
Italy: 	TS-1IT (80-001499) 100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet	Australia: 	TS-1AU (80-001599) 100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet

Socket Type	Power Specs	Socket Type	Power Specs
Switzerland	TS-1CH (80-000027) 100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet	Brazil	TS-BR (80-000034) 100-240V AC, 50/60Hz, 5A Maximum 5A/2.5A per power outlet

Dual Power Socket Assemblies

Socket Type	Power Specs
Universal:	TS-2U (80-001899) 100-240V AC, 50/60Hz, 5A Maximum 5A/2.5A per power outlet
USA:	TS-2US (80-001999) 100-125V AC, 50/60Hz, 5A Maximum 5A/2.5A per power outlet
Belgium and France:	TS-2FR (80-002299) 100-240V AC, 50/60Hz, 5A Maximum 5A/2.5A per power outlet
Germany and EU:	TS-2DE (80-002199) 100-240V AC, 50/60Hz, 5A Maximum 5A/2.5A per power outlet
Italy	TS-2IT (80-002399) 100-240V AC, 50/60Hz, 5A Maximum 5A/2.5A per power outlet
Switzerland	TS-2CH (80-000026) 100-240V AC, 50/60Hz, 5A Maximum 5A/2.5A per power outlet
UK	TS-2UK (91-000023) 100-240V AC, 50/60Hz, 5A Maximum 5A/2.5A per power outlet
Israel:	TS-2IL (80-002699) 100-240V AC, 50/60Hz, 5A Maximum 5A/2.5A per power outlet

Socket Type	Power Specs
South Africa:	TS-2ZA (80-002599) 100-240V AC, 50/60Hz, 5A Maximum 5A/2.5A per power outlet
Australia:	TS-2AU (80-002499) 100-240V AC, 50/60Hz, 5A Maximum 5A/2.5A per power outlet

Power Cord Options
You can order any of the following power cords to use with a modular TBUS:

Power Cord Type	Description	P/N
6ft/110V (North America)	C-AC/US (110V)	91-000099
6ft/125V (Japan)	C-AC/JP (125V)	91-000699
6ft/220V (Europe)	C-AC/EU (220V)	91-000199
6ft/220V (Israel)	C-AC/IL (220V)	91-000999
6ft/250V (UK)	C-AC/UK (250V)	91-000299
6ft/250V (India)	C-AC/IN (250V)	91-001099
6ft/250V/10A (China)	C-AC/CN (250V)	91-001199
6ft/250V/10A (South Africa)	C-AC/ZA (250V)	91-001299

Installing the TBUS-4xl

To install the TBUS-4xl perform the following steps:

1. Assemble the Inner Frame.
2. Install the Inner Frame.
3. Cut an opening in the table.
4. Insert the unit through the opening and secure to the table.
5. Connect the cables.
6. Insert the pass-through cables.
7. Adjust the height of the inner frame.

Assembling the Inner Frame

- The modules mounted on the inner frame can include single inserts and/or dual inserts as well as a power socket (in some models).
- This section describes how to assemble these modules.
- Each module kit comes with detailed assembly instructions.

Mounting the Inserts

You can rearrange or remove any of the plates mounted on the Inner Frame and replace them with Kramer passive wall plates or connector modules for interfacing A/V type signals.
To mount a Kramer insert or connector module:

1. Unscrew the two screws that fasten the blank plate to the inner frame and remove the blank plate.
2. Place the required Kramer insert over the opening, insert the two screws to fix the Kramer insert in place, and tighten them.
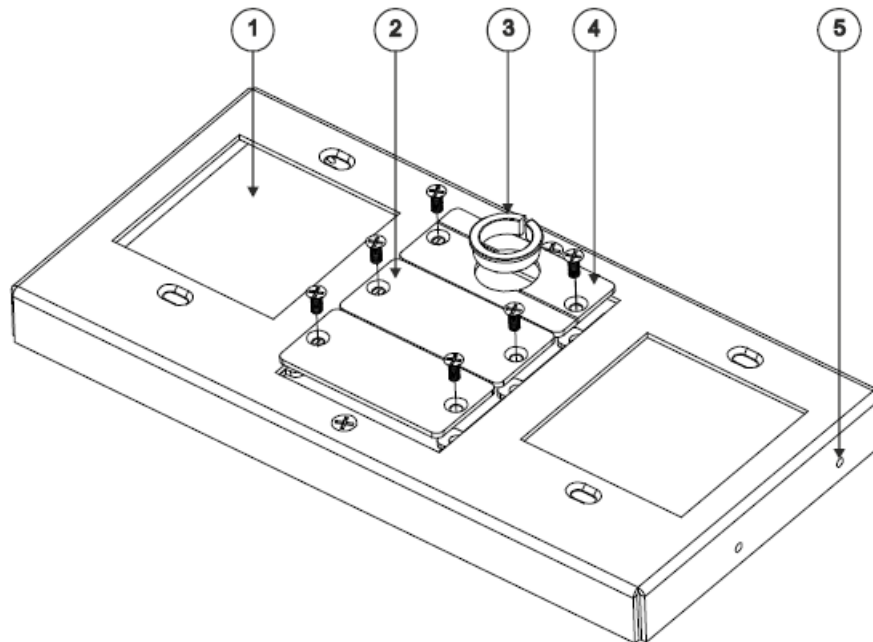
Figure 3: TBUS-4xl Inner Frame (P/N: 80-003699)

#	Feature	Function
1	Power Socket Opening	Suitable for a single power socket or the optional insert kit for TBUS
2	Blank Plates	Two blank covers that can be replaced with wall plates as required
3	Split Grommets	Push apart slightly to insert cables
4	Split Brackets	Support the split grommet for the pass through-cables
5	Adjustable Height Screw Holes	For adjusting the height of the inner frame

Mounting the Power Socket Assemblies

- To mount the power socket, place the power socket under the frame in its appropriate place and tighten it with the two screws (supplied).
- Power socket kits come with assembly instructions.

Installing the Inner Frame
To install the inner frame:

1. Place the inner frame inside the TBUS-4xl enclosure.
2. Set the required height using your fingers to bring the inner frame to the desired position, and screw and tighten it in place using the height adjustment screws (supplied with the inner frame).
   - Inner Frame kits come with assembly instructions.

Cutting an Opening in the Table
To cut an opening in the table:

1. Place the included cut-out template (that is included with your TBUS-4xl) on the surface of the table exactly

where you want to install the TBUS-4xl.

2. Attach the template to the table with the included screws (if using the cutout template).

3. Following the inside edge of the template, cut a hole in the table surface with a sabre or keyhole saw according to the dimensions shown in Figure 4 (not to scale). The thickness of the table should be 76.2mm / 3 inches or less.
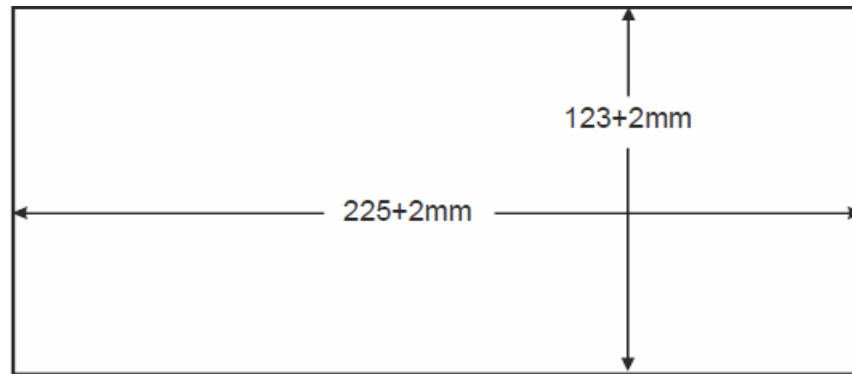

4. Unscrew and remove the template from the surface of the table and clean the table surface.

- Take care not to damage the table.
- If needed, you can download a full-scale template from our Web site.
- Kramer Electronics is not responsible for any damage caused to the table.

Inserting the TBUS-4xl through the Cut Out Opening
To install TBUS-4xl in the opening:

1. Remove the protective rubber guard from around the outer rim of the TBUS-4xl housing. Beware of the sharp edge!

2. Carefully insert the unit into the prepared opening (see Figure 5).

3. Take the support brackets under the table and place them into the support bracket grooves on both sides of the unit (see Figure 2, item 7).

4. Verify proper alignment of the unit before tightening the mounting screws.

5. Tighten both mounting butterfly screws upward until they reach the table surface (from underneath). Tighten firmly (see Figure 5).

6. Tighten the locking butterfly screws downward until tight against the mounting bracket.
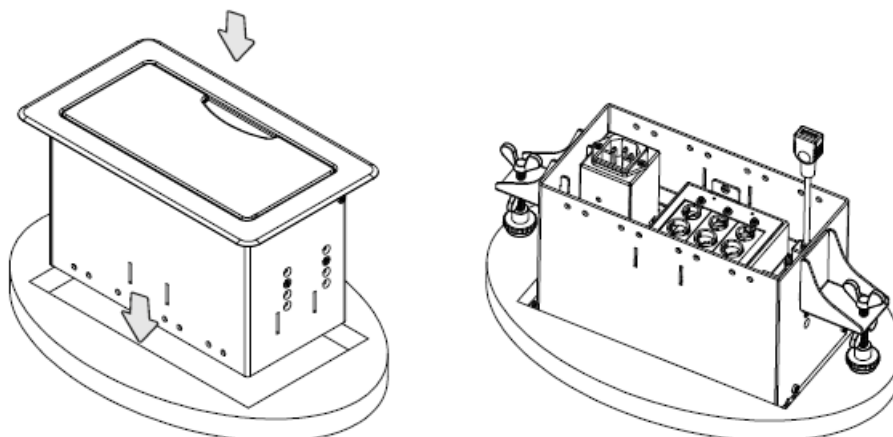

Figure 5: Inserting TBUS-4xl into the Prepared Opening

Connecting the Cables
When replacing blank inserts with connector inserts (for example, VGA, audio, HDMI and so on):

1. Insert the cables to their appropriate connectors from underneath.
2. Secure the cables to the tie holes using the included self-locking ties. Do not secure the cables too tightly or too loosely. Leave a small amount of slack. After the TBUS-4xl is connected to mains power and the proper cables, it is ready for use.

Inserting the Pass-through Cables

To insert the pass-through cables, for example, to connect a laptop, do the following (see Figure 3):

1. Remove the two screws attaching the split pass-through bracket.
2. Remove the split grommet.
3. Insert the cable through the rectangular opening.
4. Open the split grommet slightly and insert the required cables.
5. Place the split bracket around the grommet and position this assembly over the Inner Frame.
6. Place the two screws appropriately and tighten the split bracket together with the grommet and inserted cables to the inner frame.
7. Insert the self-locking ties through the tie holes to secure the cables to the inside walls of the enclosure.

Adjusting the Height of the Inner Frame

If needed, you can adjust the inner frame height to accommodate large or bulky cables. To adjust, perform the following:

1. Remove the four height adjustment screws, while supporting the surface from underneath with your fingers.
2. Raise or lower the inner frame to the required height, insert the screws, and tighten them in place.

Using the TBUS-4xl

- Once the TBUS-4xl is installed, you can easily customize it to suit your requirements by plugging in the required A/V equipment, as illustrated in the example in Figure 6.
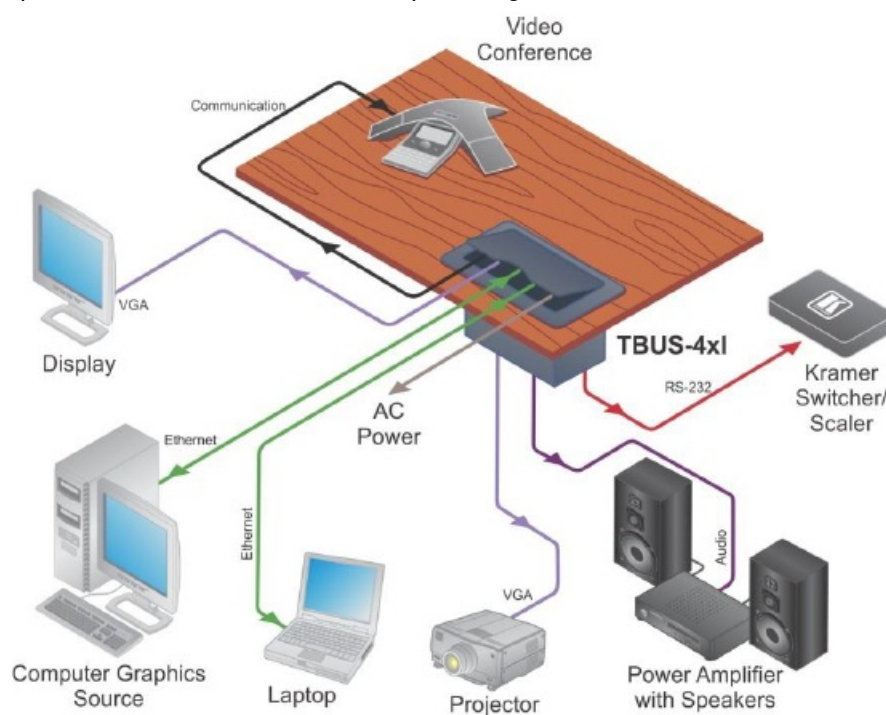

Figure 6: TBUS-4xl Boardroom Installation

Technical Specifications

Technical Specifications of the Assembled TBUS-4xI

POWER SOURCE	Power Socket Assemblies	
(AC power limits):	Universal	100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet
	Fully compatible with power plugs in the UK, India, Italy and Denmark, as well as with the 2-prong Europlug. **Partially compatible** (if the polarity is reversed) with plugs in China, Switzerland, Israel and the USA. The universal socket does not supply grounding to plugs in Central Europe and France (you should order country-specific sockets instead). **Not compatible** with South African plugs.	
	USA	100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet
	Germany and EU	100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet
	Belgium and France	100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet
	South Africa	100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet
	Australia	100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet
	Israel	220V AC, 50/60Hz, 5A Maximum 5A per power outlet
	South Africa	220V AC, 50/60Hz, 5A Maximum 5A per power outlet
FUSE RATING:	T 6.3A 250V	
OPERATING TEMPERATURE RANGE:	+5 to +45 Deg. Centigrade	

OPERATING HUMIDITY RANGE:	10 to 90% RHL, non-condensing
STORAGE TEMPERATURE RANGE:	-20 to +70Deg. C.
STORAGE HUMIDITY RANGE:	5 to 95% RHL, non-condensing
DIMENSIONS:	Top plate: 243mm x 140.4mm (9.6″ x 5.5″) W, D Enclosure: 203mm x 102mm x 130mm (8.0″ x 4.0″ x 5.1″) W, D, H
WEIGHT:	TBUS-4: 0.88kg (1.948lbs) approx. Table clamps: 0.25kg (0.6lbs)
ACCESSORIES:	Power cord, six self-locking ties, template, template screws
OPTIONS:	Inner frames, passive wall plates and interfaces, power socket kits, power cord
Specifications are subject to change without notice at **www.kramerav.com**	

LIMITED WARRANTY

The warranty obligations of Kramer Electronics for this product are limited to the terms set forth below:

What is Covered

- This limited warranty covers defects in materials and workmanship in this product.

What is Not Covered

- 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.
- Without limiting any other exclusion herein, Kramer Electronics does not warrant that the product covered hereby, including. without limitation, the technology and/or integrated circuits) included in the product, will not become obsolete or that such items are or will remain compatible with any other product or technology with which the product may be used.

How Long Does This Coverage Last

- Seven years as of this printing; please check our Web site for the most current and accurate warranty

information.

Who is Covered

- 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:

What Kramer Electronics will not do Under This Limited Warranty
If this product is returned to Kramer Electronics or the authorized dealer from which it was purchased or any other party authorized to repair Kramer Electronics products, this product must be insured during shipment, with the insurance and shipping charges prepaid by you. If this product is returned uninsured, you assume all risks of loss or damage during shipment. Kramer Electronics will not be responsible for any costs related to the removal or re-installation of this product from or into any installation. Kramer Electronics will not be responsible for any costs related to any setting up this product, any adjustment of user controls or any programming required for a specific installation of this product.

How to Obtain a Remedy under this Limited Warranty
To obtain a remedy under this limited warranty, you must contact either the authorized Kramer Electronics reseller from whom you purchased this product or the Kramer Electronics office nearest you. For a list of authorized Kramer Electronics resellers and/or Kramer Electronics authorized service providers, please visit our web site at www.kramerelectronics.com or contact the Kramer Electronics office nearest you. In order to pursue any remedy under this limited warranty, you must possess an original, dated receipt as proof of purchase from an authorized Kramer Electronics reseller. If this product is returned under this limited warranty, a return authorization number, obtained from Kramer Electronics, will be required. You may also be directed to an authorized reseller or a person authorized by Kramer Electronics to repair the product. 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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We welcome your questions, comments, and feedback.

- **Web site: www.kramerav.com**.
- **E-mail: info@kramerel.com**.
- **P/N**: 2900- 300067
- **Rev:** 3

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

- **MODEL:** TBUS-4xl Table Connection Bus
- **P/N:** 2900-300067 Rev 3

Documents / Resources

KRAMER TBUS-4xl Table Connection Bus [pdf] User Manual
TBUS-4xl Table Connection Bus, TBUS-4xl, Table Connection, Bus

References

- 🌐 [**Kramer | Audio Visual Solutions - Kramer**](#)
- 🌐 [**Kramer | Audio Visual Solutions - Kramer**](#)
- [**User Manual**](#)