

## USER MANUAL

### **MODEL:**

MegaEdge  
All Day Portable Power Supply

# Contents

<b>Introduction</b>	<b>1</b>
Getting Started	1
Overview	2
Typical Applications	3
<b>Defining MegaEdge All Day Portable Power Supply</b>	<b>4</b>
<b>Mounting MegaEdge</b>	<b>5</b>
<b>Operating and Controlling MegaEdge</b>	<b>6</b>
<b>Replacing the MegaEdge Battery</b>	<b>7</b>
<b>Technical Specifications</b>	<b>8</b>

# 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 the video, audio, presentation, and broadcasting professional on a daily basis. In recent years, we have redesigned and upgraded most of our line, making the best even better!

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## 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 [www.kramerav.com/downloads/MegaEdge](http://www.kramerav.com/downloads/MegaEdge) to check for up-to-date user manuals, application programs, and to check if firmware upgrades are available (where appropriate).

## Achieving 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 **MegaEdge** away from moisture, excessive sunlight and dust.

## Safety Instructions



### Caution:

- This equipment is to be used only inside a building. It may only be connected to other equipment that is installed inside a building.
- For products with relay terminals and GPI\O ports, please refer to the permitted rating for an external connection, located next to the terminal or in the User Manual.
- There are no operator serviceable parts inside the unit.



### Warning:

- Use only the power cord that is supplied with the unit.
- Disconnect the power and unplug the unit from the wall before installing.
- Do not open the unit. High voltages can cause electrical shock! Servicing by qualified personnel only.
- To ensure continuous risk protection, replace fuses only according to the rating specified on the product label which located on the bottom of the unit.

## 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 [www.kramerav.com/support/recycling](http://www.kramerav.com/support/recycling).

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## Overview

Congratulations on purchasing your Kramer **MegaEdge-US** and/or **MegaEdge-WW All Day Portable Power Supply**.



Although this user manual describes the **MegaEdge** it refers to both **MegaEdge-US** and **MegaEdge-WW**, unless specified otherwise.

**MegaEdge** has two AC Power Sockets, two USB type A charging stations, one USB type C charging station, and a 5m (15ft) Retractable AC Power Cord Reel for charging.



**MegaEdge-US** outputs 110/120V AC.

**MegaEdge-WW** outputs 220/240V AC.

## Advanced and User-friendly Operation

- Intelligent, microprocessor controlled, safe, and reliable.
- Battery capacity percentage indicator.
- Electronic overload protection with automatic shutdown.
- Low battery voltage shutdown.
- Overheat protection with automatic shutdown.
- Over current protection.
- Short circuit protection.
- Standby timer off.
- Charging over timer protection.
- Temperature protection.

## Flexible Connectivity

- Portable power.
- All day continuous 'Bring Your Own Device' (BYOD) charging.
- Powers any laptop or mobile device.
- Maximizes learning flexibility.
- Average charging capacity.
  - For smartphone: approx. 35 times (iPhone 1900mah).
  - For tablet: approx. 10 times (iPad 6930mah).
  - For a Laptop: approx. 3-4 times.

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## Typical Applications

**MegaEdge** is ideal for the following typical applications:

- Active class learning freedom & flexibility.
- Mobile podium.

# Defining MegaEdge All Day Portable Power Supply

This section defines **MegaEdge**.

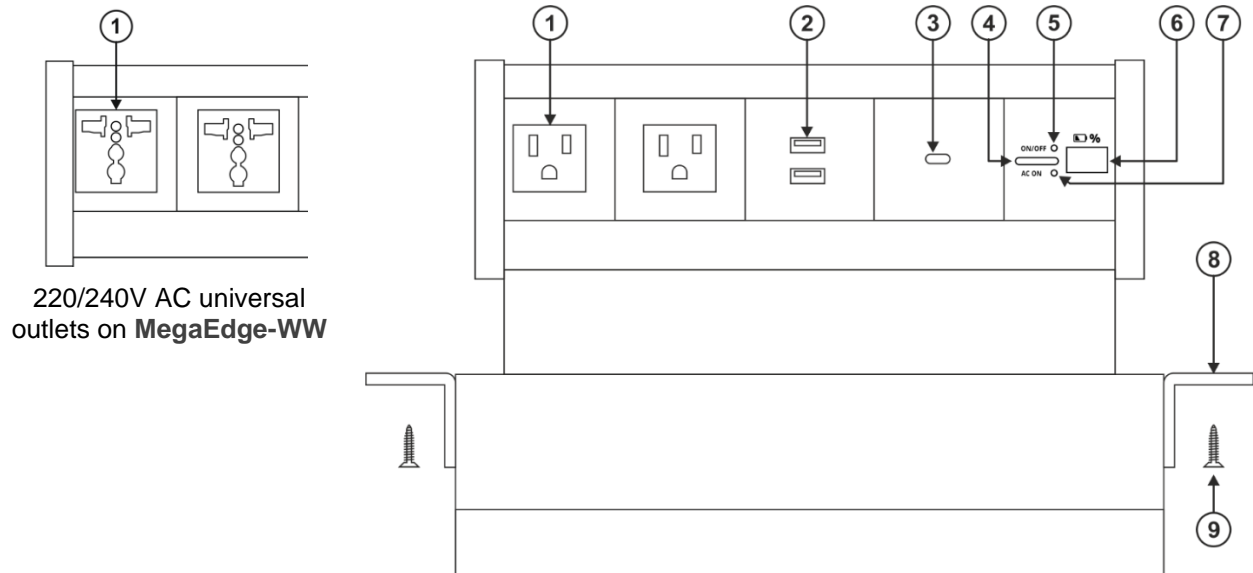


Figure 1: **MegaEdge-US** All Day Portable Power Supply

#	Feature	MegaEdge-US Function	MegaEdge-WW Function
①	AC Power Connector (x2)	Connect to up to two US power consuming devices simultaneously.	Connect to up to two power consuming devices simultaneously to a universal socket.
		<p>⚠ When a single power socket is connected, consumption should not exceed 5A. When both power sockets are connected, the total consumption should not exceed 6A.</p>	
②	5V-2A USB Fast Charging Port (x2)	Use to charge a mobile device.	
③	USB-C	Use to charge a mobile device.	
④	Control Button	<p>Short press to turn <b>MegaEdge</b> On. Once on, each additional short press toggles <b>MegaEdge</b> AC power outlets On/Off</p> <p>ℹ <b>MegaEdge</b> consumes some power when the AC power indicator is on even when no devices are connected to it.</p> <p>Long press to turn <b>MegaEdge</b> Off.</p>	
⑤	Power On Indicator LED	Lights blue when <b>MegaEdge</b> is on.	
⑥	Numeric LED Display	Indicates percent of power remaining.	
⑦	AC Indicator LED	<p>Lights red when AC power enabled.</p> <p>ℹ USB DC power is always on when <b>MegaEdge</b> is on.</p>	
⑧	Mounting Bracket	Used with security screw for securing the <b>MegaEdge</b> to the table.	
⑨	Security Screw (2)	For securing the <b>MegaEdge</b> to the table.	

# Mounting MegaEdge

This section provides instructions for mounting **MegaEdge**. Before installing, verify that the environment is within the recommended range:



- Operation temperature – 0° to 40°C (32 to 104°F).
- Storage temperature – -40° to +70°C (-40 to +158°F).
- Humidity – 10% to 90%, RHL non-condensing.



## Caution:

- Mount **MegaEdge** before connecting to power.



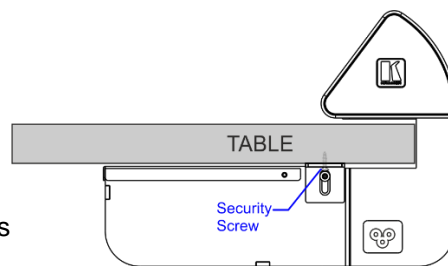
## Warning:

- Ensure that the environment (e.g., maximum ambient temperature & air flow) is compatible for the device.
- Avoid uneven mechanical loading.

## To mount the MegaEdge on a table

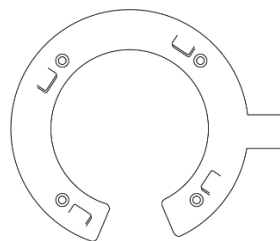
### Install MegaEdge

1. Carefully place **MegaEdge** over the edge of a table at the desired location so that the table edge is pressed against the device.
2. Secure **MegaEdge** to the table using the Torx bit and the two security screws provided.
3. Tighten each security screw through the **MegaEdge** mounting bracket into the table.

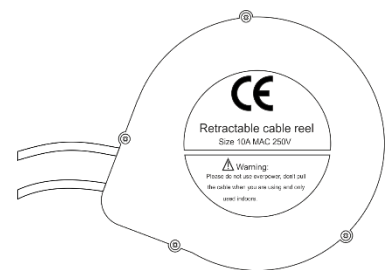


### Install Retractable AC Power Cord Reel

1. Attach the Reel Mounting Bracket under the table using the four screws (provided) so that the Retractable AC Power Cord Reel's fixed plug can easily reach the **MegaEdge** AC socket (less than 50cm distance).
2. Press the Retractable AC Power Cord Reel to the Reel Mounting Bracket and rotate clockwise until you hear a click.
3. Plug the Retractable AC Power Cord Reel's fixed plug into the **MegaEdge**.



Reel Mounting Bracket



Retractable AC Power Cord Reel

# Operating and Controlling MegaEdge

## To Charge MegaEdge

When not in use, extend the AC plug from the Retractable AC Power Cord Reel and plug it into an AC outlet for at least 8 hours to fully charge the **MegaEdge**.

## To Turn MegaEdge On

- Press the Control button.  
Power On LED lights blue.

## To Turn MegaEdge On/Off

- Press the Control button for 3 seconds.  
Power On LED is no longer lit.  
To Toggle AC Power On/Off
- Press the Control Button to toggle between AC power On and AC power Off  
AC LED is lit red when AC is on.



**MegaEdge** consumes some power when the AC power indicator is on even when no devices are connected to it.



When no power is being used, the **MegaEdge** powers off automatically after 1 minute.



**MegaEdge** batteries are rated to run 500 cycles and are replaceable.



**MegaEdge-WW** outputs 220/240V AC and cannot be used with devices that only support 110V AC.



# Replacing the MegaEdge Battery

1. Unplug the Retractable AC Power Cord Reel's fixed plug from **MegaEdge**.
2. Remove the 2 Torx screws securing **MegaEdge** to the table using the Torx bit provided.
3. Detach **MegaEdge** from the table and place on a flat surface.
4. Open the **MegaEdge** cover by removing the four screws indicated in [Figure 2](#).
5. Unplug the AC and USB extension cords from the **MegaEdge** battery.
6. Place the new battery into **MegaEdge**.
7. Plug the AC and USB extension cords into the new **MegaEdge** battery.
8. Close the **MegaEdge** cover using the four screws indicated in [Figure 2](#).
9. Follow the instructions for remounting **MegaEdge** (see [Mounting MegaEdge](#) on page [5](#)).

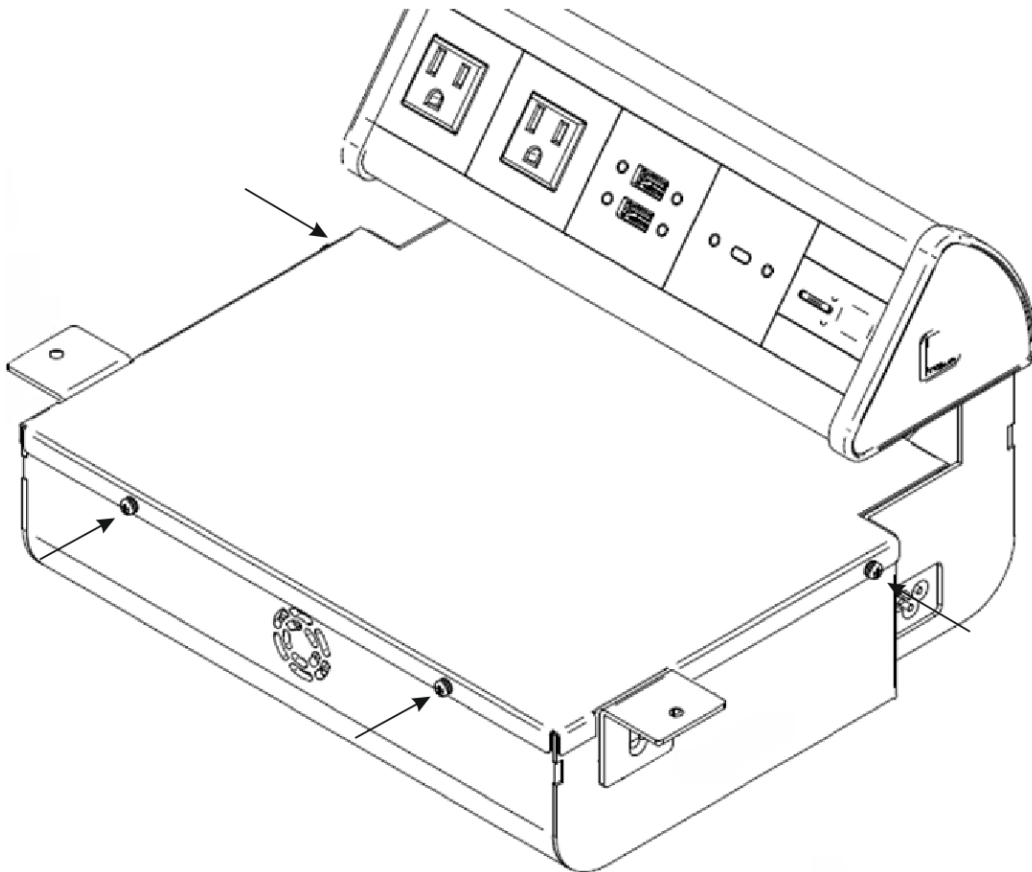


Figure 2: MegaEdge cover screws

# Technical Specifications

Ports	2 AC Power Sockets	On a 5A/125V Power Socket	
	2 USB Type A	On a female USB type A connector	
	1 USB Type C	On a female USB type C connector	
Reach	<b>MegaEdge-US:</b> Retractable 110 V AC Power Cord Reel	Up to 5m (15ft)	
	<b>MegaEdge-WW:</b> Retractable 220 V AC Power Cord Reel 4M + EU (German) plug	Up to 5m (15ft)	
Controls	Front Panel	1 Power button (also used to toggle AC power On/Off)	
Indication LEDs	Front Panel	1 Power on LED 1 AC on LED	
Cooling		Fan Ventilation	
AC Adapter	Input	AC 100V-240V, 50/60Hz 2.0 A	
	Output	DC 24V /2A	
Power	Consumption	AC 100V-240V, 50/60Hz	
		<b>MegaEdge-US</b>	<b>MegaEdge-WW</b>
AC power Output	AC Output Voltage (Nominal)	120V	240V
	Continuous AC Output Power	200W	200W
	Maximum AC Output Power	250W	250W
	AC Output Frequency	60Hz	50Hz
	AC Output Waveform	Modified sine wave	
DC power Output	Dual USB Output	Voltage: 5V Current: Max. 3.4 A	
	TYPE-C Output	Voltage: 5V Current: Max. 3.1 A	
Battery	Type	SANYO (Panasonic) Lithium-ion Battery NCR18650BF 3350mAh*24	
	Drain	No load: < 1.5mA	
		AC Load: 200W Time : >1.1h, 100W : >1.8h	
		DC Load: 3.0A Time : >14.3h, 2.0A : >22.2h	
	Rated Capacity	3200mAh 0.64A discharge at 20°C (68°F)	
	Capacity (Minimum)	3250mAh 0.65A discharge at 25°C (77°F)	
	Capacity (Typical)	3350mAh (Reference only)	
	Normal Voltage	3.6V (0.65A discharge)	
	Discharging End Voltage	2.5V	
	Charging Current (Std.)	1.625A	
	Charging Voltage	4.20 +0.03V	
	Continuous Discharge Current (Max.)	4.875A 0°C ~ +40°C (32°F to 104°F)	
Environmental Conditions	Operating Temperature	0° C to +35°C (32°F to 95°F)	
	Storage Temperature	-10°C to +60°C (14°F to 140°F)	
	Humidity	10% to 90%, RHL non-condensing	
Regulatory Compliance	Safety	CE	
Enclosure	Type	Aluminum, Steel	
General	Net Dimensions (W, D, H)	32.2cm x 25.4cm x 18.2cm (13.07" x 10.0" x 7.17")	
	Shipping Dimensions (W, D, H)	44.5cm x 36.5cm x 28.5cm (17.5" x 14.3" x 11.2")	
	Net Weight	4.6kg (10.2lbs) approx.	
	Shipping Weight	6.8kg (15lbs) approx.	
Accessories	Included	1 Retractable AC Power Cord Reel 5m (15ft) 1 Torx bit (1/4" T20 25mm) 2 T20 Torx screws 4 4x½" screws	
Charging Time		8h	

The warranty obligations of Kramer Electronics Inc. ("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 circuit(s) 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 this Coverage Lasts**

The standard limited warranty for Kramer products is seven (7) years from the date of original purchase, with the following exceptions:

1. All Kramer VIA hardware products are covered by a standard three (3) year warranty for the VIA hardware and a standard three (3) year warranty for firmware and software updates; all Kramer VIA accessories, adapters, tags, and dongles are covered by a standard one (1) year warranty.
2. Kramer fiber optic cables, adapter-size fiber optic extenders, pluggable optical modules, active cables, cable retractors, ring mounted adapters, portable power chargers, Kramer speakers, and Kramer touch panels are all covered by a standard one (1) year warranty.
3. All Kramer Cobra products, all Kramer Calibre products, all Kramer Minicom digital signage products, all HighSecLabs products, all streaming, and all wireless products are covered by a standard three (3) year warranty.
4. All Sierra Video MultiViewers are covered by a standard five (5) year warranty.
5. Sierra switchers & control panels are covered by a standard seven (7) year warranty (excluding power supplies and fans that are covered for three (3) years).
6. K-Touch software is covered by a standard one (1) year warranty for software updates.
7. All Kramer passive cables are covered by a ten (10) year warranty.

#### **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:

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 with a similar product deemed by Kramer Electronics to perform substantially the same function as the original product. If a direct or similar replacement product is supplied, the original product's end warranty date remains unchanged and is transferred to the replacement product.
3. Issue a refund of the original purchase price less depreciation to be determined based on the age of the product at the time remedy is sought 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, visit our web site at [www.kramerav.com](http://www.kramerav.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 (RMA number). 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.

#### **Limitation of Liability**

THE MAXIMUM LIABILITY OF KRAMER ELECTRONICS UNDER THIS LIMITED WARRANTY SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE PAID FOR THE PRODUCT. TO THE MAXIMUM EXTENT PERMITTED BY LAW, KRAMER ELECTRONICS IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR CONDITION, OR UNDER ANY OTHER LEGAL THEORY. Some countries, districts or states do not allow the exclusion or limitation of relief, special, incidental, consequential or indirect damages, or the limitation of liability to specified amounts, so the above limitations or exclusions may not apply to you.

#### **Exclusive Remedy**

TO THE MAXIMUM EXTENT PERMITTED BY LAW, THIS LIMITED WARRANTY AND THE REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES AND CONDITIONS, WHETHER ORAL OR WRITTEN, EXPRESS OR IMPLIED. TO THE MAXIMUM EXTENT PERMITTED BY LAW, KRAMER ELECTRONICS SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IF KRAMER ELECTRONICS CANNOT LAWFULLY DISCLAIM OR EXCLUDE IMPLIED WARRANTIES UNDER APPLICABLE LAW, THEN ALL IMPLIED WARRANTIES COVERING THIS PRODUCT, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY TO THIS PRODUCT AS PROVIDED UNDER APPLICABLE LAW.

IF ANY PRODUCT TO WHICH THIS LIMITED WARRANTY APPLIES IS A "CONSUMER PRODUCT" UNDER THE MAGNUSON-MOSS WARRANTY ACT (15 U.S.C.A. §2301, ET SEQ.) OR OTHER APPLICABLE LAW, THE FOREGOING DISCLAIMER OF IMPLIED WARRANTIES SHALL NOT APPLY TO YOU, AND ALL IMPLIED WARRANTIES ON THIS PRODUCT, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR THE PARTICULAR PURPOSE, SHALL APPLY AS PROVIDED UNDER APPLICABLE LAW.

#### **Other Conditions**

This limited warranty gives you specific legal rights, and you may have other rights which vary from country to country or state to state.

This limited warranty is void if (i) the label bearing the serial number of this product has been removed or defaced, (ii) the product is not distributed by Kramer Electronics or (iii) this product is not purchased from an authorized Kramer Electronics reseller. If you are unsure whether a reseller is an authorized Kramer Electronics reseller, visit our web site at [www.kramerav.com](http://www.kramerav.com) or contact a Kramer Electronics office from the list at the end of this document.

Your rights under this limited warranty are not diminished if you do not complete and return the product registration form or complete and submit the online product registration form. Kramer Electronics thanks you for purchasing a Kramer Electronics product. We hope it will give you years of satisfaction.

# KRAMER



P/N:



2900-301232

Rev:



4



## SAFETY WARNING

Disconnect the unit from the power supply before opening and servicing

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.

All brand names, product names, and trademarks are the property of their respective owners.