USER MANUAL

MODEL:

MegaEdge
All Day Portable Power Supply
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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!

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 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.

Overview

Congratulations on purchasing your Kramer MegaEdge All Day Portable Power Supply. 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.

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.
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 All Day Portable Power Supply

<table>
<thead>
<tr>
<th>#</th>
<th>Feature</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AC Power Connector (x2)</td>
<td>Connect to up to two US power consuming devices simultaneously.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>⚠️</strong> 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.</td>
</tr>
<tr>
<td>2</td>
<td>5V-2A USB Fast Charging Port (x2)</td>
<td>Use to charge a mobile device.</td>
</tr>
<tr>
<td>3</td>
<td>USB-C</td>
<td>Use to charge a mobile device.</td>
</tr>
<tr>
<td>4</td>
<td>Control Button</td>
<td>Short press to turn MegaEdge On.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Once on, each additional short press toggles MegaEdge AC power outlets On/Off</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>ℹ️</strong> MegaEdge consumes some power when the AC power indicator is on even when no devices are connected to it.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Long press to turn MegaEdge Off.</td>
</tr>
<tr>
<td>5</td>
<td>Power On Indicator LED</td>
<td>Lights blue when MegaEdge is on.</td>
</tr>
<tr>
<td>6</td>
<td>Numeric LED Display</td>
<td>Indicates percent of power remaining.</td>
</tr>
<tr>
<td>7</td>
<td>AC Indicator LED</td>
<td>Lights red when AC power enabled.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>ℹ️</strong> USB DC power is always on when MegaEdge is on.</td>
</tr>
<tr>
<td>8</td>
<td>Mounting Bracket</td>
<td>Used with security screw for securing the MegaEdge to the table.</td>
</tr>
<tr>
<td>9</td>
<td>Security Screw (2)</td>
<td>For securing the MegaEdge to the table.</td>
</tr>
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</table>
Mounting MegaEdge

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

- Operation temperature – 0°C to 40°C (32 to 104°F).
- Storage temperature – -40°C 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.
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.
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 |
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<thead>
<tr>
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<tbody>
<tr>
<td><strong>Reach</strong></td>
<td>Retractable 110 V AC Power Cord Reel Up to 5m (15ft)</td>
</tr>
<tr>
<td><strong>Controls</strong></td>
<td>Front Panel 1 Power button (also used to toggle AC power On/Off)</td>
</tr>
</tbody>
</table>
| **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  
AC power Output AC Output Voltage (Nominal) 120V  
Continuous AC Output Power 200W  
Maximum AC Output Power 250W  
AC Output Frequency 60Hz  
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)  
Internal Resistance less than 100mΩ (AC impedance 1 kHz)  
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 x½” 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 for recovery), 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.

Within the terms of 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, adaptors, 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 bare fiber optic, products if the label bearing the serial number of this product has been removed or defaced 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.
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 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, products if the label bearing the serial number of this product has been removed or defaced by you.

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.

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 website at www.kramerav.com or contact a 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.

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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 by you or (ii) 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 website at 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.
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.

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