

# USER GUIDE

## MDM Tablet Cart



### MDMTAB30

30 Tablet Computers in Vertical Slots

#### Maximize your technology investment

Unique Power Management & Control System gives you the ability to:

**Save on energy costs** – the “Power Manager” knows the more charged a battery, the less power it requires.

**Extend the battery life** of your computers with one touch!

#### Designed for the IT Coordinator, the Instructor & the Student

Easy set-up for the **IT Coordinator**

Easy to maintain by the **Instructor**

Easy to use for the **Student**

Laser-cut Identification System helps keep you in control and your investment organized.



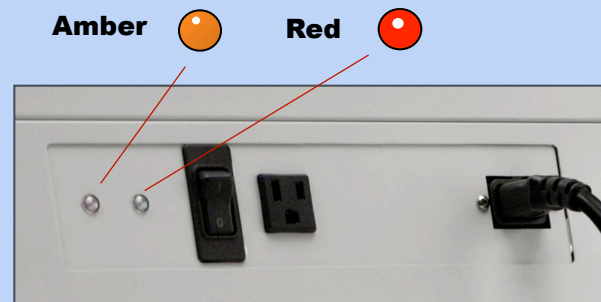
11000 Seymour Avenue Franklin Park, IL 60131 USA 800 521 9614

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## Power Management System ... The “Power Manager”

- The MDM Tablet Cart features the **new and improved “Power Manager”**, which is designed to continuously charge even the most power hungry laptops using only one wall outlet.
- The system uses a **“Round Robin” charging cycle** that constantly evaluates the demand for power and allows each electrical strip time to cool down. **Cooler batteries last longer**, and extended battery life saves you money.
- **One Auxiliary Outlet** is included on the side of the cart to plug in a video projector or printer. Since the “Power Manager” dedicates power to the auxiliary outlet when in use, the risk of tripping the circuit is eliminated.
- A **Divider Panel** separates the computer/battery from the transformer, minimizing the transformer’s heat impact on the battery ... cooler batteries last longer.

The “Power Manager” has two LED indicator lights visible on the side of the cart that let you know what it is doing. The light on the left is Amber and the right one is Red



### What is the “Power Manager” doing?

#	Amber Light	Red Light	Meaning
1	On	On	Start-Up
2	Off	Off	Self-Test
3	On	Off	Smart Charge Mode
4	Off	Off	All Charge Mode

1. When the power button is switched to the “On” position, both indicator lights will light up for approximately 2 seconds.
2. Both lights will then turn off while the “Power Manager” evaluates the power required to charge the first set of devices.
3. The Amber light will come on and stay lit indicating that the “Power Manager” is now in “Smart Charge” mode. This means that tablets will be charged in groups, three minutes at a time.
4. Once the power needed to charge all of the devices in the cart reaches a level that will not trip the circuit, the “Power Manager” enters “All Charge” mode and both lights will be off. All devices are now charging.



**Please Note: It is recommended that nothing be plugged into the Auxiliary outlet while charging**

### Basic Troubleshooting

#	Amber Light	Red Light	Meaning	Solution
1	Single Blinks	Off	Auxiliary Drawing Too Much Power	Unplug Auxiliary
2	Single Blinks	Single Blinks	One Set Drawing Too Much Power	Turn Off & Back On
3	Double Blinks	Off	Internal Temp of Cart Too High	Open Doors/Move Cart

1. If the Amber light displays single blinks, it means the current required to power the auxiliary outlet is too high. Unplugging whatever is in the auxiliary outlet should allow the “Power Manager” to resume charging the devices.
2. If both the Amber and Red lights start to blink, it means one set of devices is drawing too much current and the “Power Manager” needs to be reset by turning it off and back on. If problem persists there may be a faulty device that needs to be removed.
3. If the Amber light displays double blinks, the internal temperature of the cart is too high. Open the doors of the cart and/or move the cart to a cooler room. The cart should cool down without having to turn off the “Power Manager”

## Dual-Locking Swing Handle Flexible Security

**The MDM Tablet Cart is secured with a unique dual-locking handle built right into the doors. The handle can be opened by using EITHER the three digit combination or a key.**

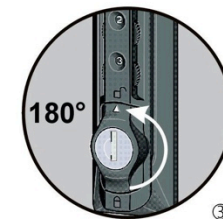
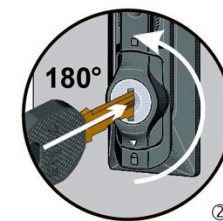


### 1. Using the Key

- Insert the key into the lock and turn it 180 degrees counter clockwise (2)
- Lift and turn the handle to open the door.
- To re-lock, turn the key 180 degrees clockwise.

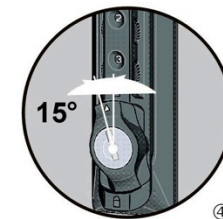
### 2. Using the Combination Locks

- Dial in the factory set combination – “000”
- Turn the wing knob 180 degrees counter clockwise until the arrow points straight up (3). Lift and turn the handle to open the door.
- To re-lock, turn the wing knob 180 degrees clockwise and scramble the combination.



### 3. Changing the Combination

- Put the keylock in the locked position and dial in the existing combination.
- Turn the wing knob 180 degrees + 15 degrees counter clockwise (3) & (4). Enter the desired new combination.
- Turn the wing knob 15 degrees clockwise. The new combination is now set.





- ELECTRICAL:** Avoid sparks. Avoid arcing **Always turn OFF the power to the cart before plugging IN or OUT!**
- ELECTRICAL:** For Safety Purposes, make sure all electrical components do not exceed the the maximum load rating of 12 amps.
- ELECTRICAL:** Risk of electrical shock. Do not plug the power cord into another extension cord or relocatable power tap.
- ELECTRICAL:** The power strips inside the tablet cart are only for charging tablet computers. Any other use may cause an overload for the Power Management System, causing the "Power Manager" to shutdown. To reset the "Power Manager", turn off the main power switch, unplug the non-tablet device, then turn the main switch back on.



- CAUTION:** Be sure each tablet computer is turned OFF before plugging into the cart..
- CAUTION:** Do Not block the ventilation holes on the cart. Proper air flow is required for safe operation of equipment.
- CAUTION:** Cart with computers should be kept in a room with a maximum temperature not to exceed 77° F or 25° C.
- CAUTION:** Maximum weight of accessories on top of cabinet is 25 pounds.
- CAUTION:** Avoid loading equipment in the cart in a uneven fashion. Uneven weight distribution could cause a hazardous condition.
- CAUTION:** Before moving cart from one room to the next, wrap the power cords on the cord winders located on the side of the cart.
- CAUTION:** Engage locking casters when cart is not in transit.

## Cable Management System ... Instructions

### Step-by-Step Instructions to Organize Your Cords

- Unpack the Tablet Computers, being careful to keep each computer with its matching cord set.



- For tablets with a smaller USB connected power supply**, from the rear of the cart, thread the plug end that connects to the device through the laser numbered hole matching the appropriate slot for the device in front.
- Thread that cable through the cable management channel above each storage slot, leaving enough slack to connect to the device and then reconnect the USB cable to the power adapter.
- Then plug in to any available outlet in the rear of the cart.



- For tablets that have a larger type power adapter (1" x 1" x 3")** the power adapter and the excess cord can be wrapped with the Velcro straps provided and stored on end in the cavity behind the tablet stop (pictured), leaving enough cord slack for both the AC plug end and the device connector end.
- Then thread the cord that goes to the device through the cable management channel.
- Disconnect the connector from the power adapter (pictured) and thread that smaller end through from the rear to the front of the cart, (pictured) reconnecting it after threading.
- Then plug in to any available outlet in the rear of the cart.

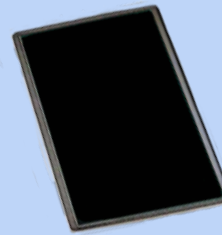


Cable management channel



Storing power supply in rear cavity

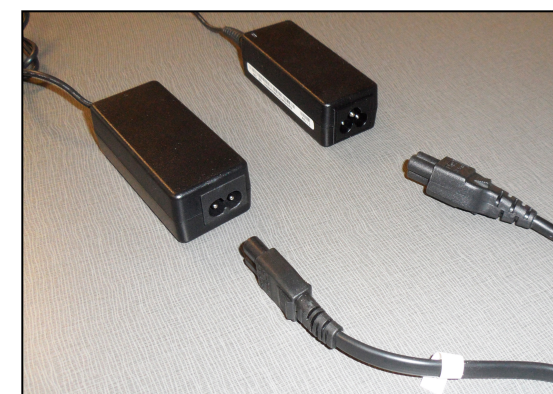
### How Does a Tablet Computer Manage Heat?



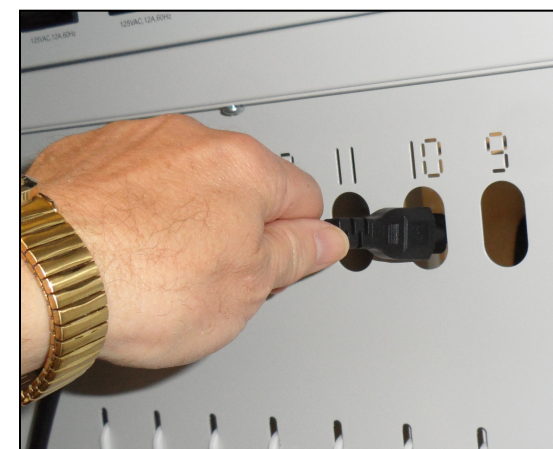
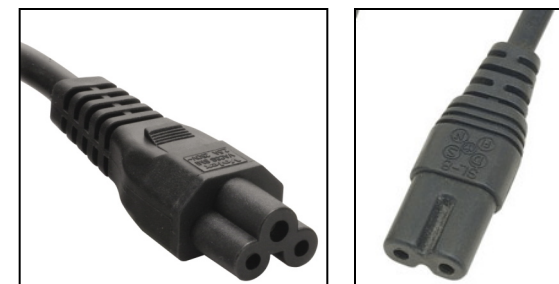
To manage the heat stress of the battery, computer engineers include sophisticated battery management functions in the design of the computers. They can be found in two places: the external charger & internal to the tablet computer itself. The transformer converts the alternating current from the wall socket to a lower voltage direct current. Besides charging the tablet's battery these "adapters" can supply enough electricity to operate the tablet and charge the battery simultaneously.

Deep inside the computer a dedicated microcircuit continuously monitors and manages the charging current, voltage and temperature of the battery. If the temperature of the battery exceeds limits, the microcircuit will stop charging the battery until the temperature drops to acceptable levels.

Keeping the battery cooler while charging allows the battery to charge faster.



Disconnect connector from power adapter



Thread power supply connector through back panel

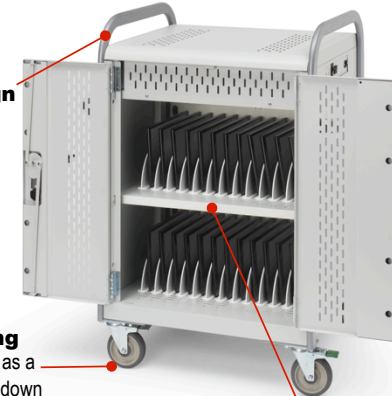
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## MDM Tablet Cart



### MDMTAB30

30 Tablet Computers in Vertical Slots



#### Dual Handle Design

Allows both teachers and students to push and pull the cart easily and safely.

#### Directional Locking Casters

can be locked as a rigid caster for easy rolling down the hallway, or unlocked to swivel for easily getting into tight spaces.

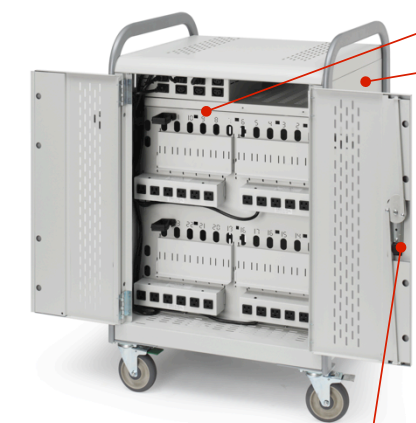
Front View

#### Power Manager

keeps the constant flow of power from a single wall outlet charging batteries where needed.

#### Laser-Cut ID Numbers

in both front & back help keep computers and their cable sets in the right place and make it easy to identify if something is missing.



Back View

#### Cord Winder

on the side panel, under outlet, provides easy access up high, so that the cord does not get crimped under the wheel.

**Security** provided by dual-locking handles built right into the steel constructed doors.



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Part #: 031-9809