



## CM2000-WL 45dB

Dual Band Amplifier

### User Manual



Model: CM2000-WL-45

FCC ID: RSNDUAL-62UNDER

IC: 7784A-D60UNDER



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2. Right Angle Antenna
3. AC power supply
4. DC power supply

**NOTE:** An outdoor antenna and 20-foot cable are required for full operation. Please consult the Cellphone-Mate website ([www.Cellphone-Mate.com](http://www.Cellphone-Mate.com)) or call toll-free at 888-365-MATE.

#### OPTIONAL: CM2000-WL-45 COMPLETE KIT:

The complete KIT (CM2000-WL-45 KIT) includes outdoor and indoor antenna as well as the cable required for full operation. This package is sold separately from the CM2000-WL-45.



1. CM2000-WL 45dB: 45dB Amplifier with power supplies
2. Right angle antenna
3. CM004-40-FN: 40ft CM400 Cable
4. CM288: Outdoor Antenna

#### SAFETY NOTES

The Federal Communications Commission (FCC) have tested this product and found it to comply with their RF Exposure Requirements, Pursuant to FCC Part 24. In order to comply with

the FCC RF exposure requirements, **the human user's body should always be separated from the indoor antenna of the Amplifier by at least 25cm (10").**

Don't expose this product to extreme high or low temperature. For example, putting the Amplifier under direct sunlight for too long may cause it to overheat, thereby damaging the electronic components inside.

There are no consumer serviceable or modifiable parts inside this Amplifier product. Alteration or abuse of the Amplifier or other components will void this product's warranty, and could be dangerous to the user.

#### CONNECTING THE AMPLIFIER INDOORS

The signal is received by the outside antenna from the cell tower, then AMPLIFIED and transmitted to your phone through the inside antenna. When the phone transmits, the signal is received by the inside antenna, then AMPLIFIED and transmitted to the cell tower through the outside antenna.

**Connect the Inside Antenna:** The patch antenna is intended for indoor use only. The inside antenna should be mounted within 200 square feet from where the phone is used. Do not mount on a surface within 4 inches of metal. Remove the cap from the Amplifier connector labeled **CELLPHONE**. Screw the patch antenna in to the **CELLPHONE** connector and make sure to tighten it.

**NOTE:** The internal antenna always needs to be positioned vertically. The inside antenna must be mounted with a separation distance of at least 10 inch (25 cm) from all people and must not be co-located in conjunction with any other antenna or amplifier.

**WARNING:** The SMA connector is fragile when used with thick cable such as 9311. Handle it with extra caution, otherwise the connector could break, and it might not be covered under the manufacturer's warranty.

**Connect the Outside Antenna:** The outdoor antenna is for outdoor use only. Select an outside mounting location. For best performance, keep the antenna on top of the roof. The outside antenna should be located in an area with at least a 12" radius clear of obstructions, and other radiating elements. Remove the cap from the Amplifier connector labeled **ANTENNA**. Screw the outside antenna in to the **ANTENNA** connector and tighten it.

**NOTE:** Keep the separation distance between the inside and outside antennas at least 20ft apart.

**WARNING:** The outside antenna must be mounted with a separation distance of at least 20" from any of the vehicle

**occupants or nearby persons and must not be co-located or operating in conjunction with any other antenna or amplifier.**

**Connect the Power Cord:** To prevent damage to the Amplifier, make sure the Amplifier's power switch is in the OFF position before plugging in the Amplifier to an AC power outlet. Connect the AC power cords to the Amplifier then connect the plug to a 110V AC outlet. Make sure that all of the connections to the Amplifier are tight and secure, then turn on the Amplifier's power switch. The LED light will glow, indicating that the Amplifier is ready to use.  
**NOTE: The wireless amplifier can be used for an RV or boat or other applications, but is not recommended for small vehicles since there is not enough separation between the inside and outside antenna.**

**Safety Warning: The input voltage for the Amplifier is 6V. DO NOT use this Amplifier with a regular 12V power supply. If a 12-volt power supply is connected directly to this Amplifier, it could be damaged and the user may also be injured.**

## USING THE AMPLIFIER

Now you are ready to make and receive cellphone calls with powerful signal amplification! Note that it is normal for the Amplifier's case to be warm during operation.

Press any cell phone key to refresh its communication with the base station. If your signal is weak, having this Amplifier installed and operating properly will give you a large increase in the signal quality and strength.. The change in the signal strength can be seen on the visual display of your cellphone and heard on your receiver or headset. To see the difference, try operating your phone in an area that is known to have weak cellphone signals. You will be amazed at the dramatic difference the Cellphone-Mate Signal Amplifier provides!

**(Optional) Mounting the Amplifier with Velcro:** You can leave the Amplifier on top of a flat surface or use the enclosed Velcro straps to mount the Amplifier underneath or on the side of your desk or table. There are two 6cm x 2.5cm Velcro strips (hook-and-loop pairs) in the box for mounting the amplifier.

Determine the location where your Amplifier will be placed. Clean the intended surface and allow it to dry. Peel the protective paper from the back of the hook sides of the Velcro. Press the adhesive side of the Velcro strips into place on the bottom of the Amplifier, one strip on each end. Wait 5 minutes for the adhesive to set before attaching the loop side of the Velcro to the hook side. The adhesive bond will reach its maximum strength after 24 hours.

With both of the Velcro loop and hook pieces attached to the back of the Amplifier, peel the protective paper off of the back of the loop strips. Press the entire Amplifier into its mounting place. Wait 5 minutes for the adhesive to set. Make sure the Amplifier is firmly seated. To remove the Amplifier, rotate it across the Velcro – do not pull the Amplifier or cables.

**(Optional) Using Other External Antennas:** It is possible to connect this Amplifier to an external antenna not supplied in this package. If the user wishes to do that, it may be necessary to use the included Adapter (item 3 or 4 above) to couple that antenna to the Amplifier. This Adapter connects to the antenna input side of the Amplifier with an SMA-type male connection. The other side of the Adapter is an FME-type male or N-type female connector, which may be used to connect with other antennas that use the FME or N type of physical connector.

## TROUBLESHOOTING GUIDE

During operation, if the Amplifier interferes with your radio or other electronic receivers, move the Amplifier further away from those devices.

For a list of Frequently Asked Questions and a complete and up-to-date Troubleshooting Guide, please visit our website at:

[www.Cellphone-Mate.com/FAQ.htm](http://www.Cellphone-Mate.com/FAQ.htm)

You can also consult a Cellphone-Mate technical specialist directly by sending an e-mail to us at:

[info@Cellphone-Mate.com](mailto:info@Cellphone-Mate.com)

Or write to:

**Cellphone-Mate Inc.  
48346 Milmont Drive  
Fremont, CA, 94538 U.S.A.**

## WARRANTY

1. Cellphone-Mate, Inc. warrants to the Buyer that each of its products, when shipped will be free from defects in material and workmanship and will perform in full accordance with applicable specifications. The limit of liability under this warranty is, at Cellphone-Mate, Inc.'s option, to repair or replace any product or part thereof which shall within TWO YEARS of purchase as determined by examination by Cellphone-Mate, Inc., prove defective in material and/or workmanship. Warranty returns must first be authorized in writing by Cellphone-Mate, Inc. Disassembly of any Cellphone-Mate, Inc. product by anyone other than an authorized representative of Cellphone-Mate, Inc. voids this warranty in its entirety. Cellphone-Mate, Inc. reserves the right to

make changes in any of its products without incurring any obligation to make the same changes on previously delivered products.

2. As a condition to the warranties provided for herein, the Buyer will prepay the shipping charges for all products returned to Cellphone-Mate, Inc. for repair and Cellphone-Mate, Inc. will pay the return shipping with the exception of product returned from outside the United States in which case the Buyer will pay the shipping charges.
3. The Buyer will pay the cost of inspecting and testing any goods returned under the warranty or otherwise which are found to meet the applicable specifications or which are not defective or not covered by this warranty.
4. Products sold by Cellphone-Mate, Inc. shall not be considered defective or non-conforming to the Buyers' order if they satisfactorily fulfill the performance requirements that were published in the product specification literature, or in accordance with samples provided by Cellphone-Mate, Inc.. This warranty shall not apply to any products or parts thereof which have been subject to accident, negligence, alteration, abuse, or misuse. Cellphone-Mate, Inc. makes no warranty whatsoever in respect to accessories or parts not supplied by it.
5. Limitations of Warranty, Damages and Liability:

**EXCEPT AS EXPRESSLY SET FORTH HEREIN, THERE ARE NO WARRANTIES, CONDITIONS, GUARANTEES OR REPRESENTATIONS AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHER WARRANTIES, CONDITIONS, GUARANTEES OR REPRESENTATIONS, WHETHER EXPRESSED OR IMPLIED, IN LAW OR IN FACT, ORAL OR IN WRITING.**

**CELLPHONE-MATE, INC.'S AGGREGATE LIABILITY IN DAMAGES OR OTHERWISE SHALL NOT EXCEED THE PAYMENT, IF ANY, RECEIVED BY CELLPHONE-MATE, INC. FOR THE UNIT OF PRODUCT OR SERVICE FURNISHED OR TO BE FURNISHED, AS THE CASE MAY BE, WHICH IS THE SUBJECT OF CLAIM OR DISPUTE. IN NO EVENT SHALL CELLPHONE-MATE, INC. BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES, HOWSOEVER CAUSED.**

6. All matters regarding this warranty shall be interpreted in accordance with the laws of the State of California and any controversy that cannot be settled directly shall be settled by arbitration in California in accordance with the rules then prevailing of the American Arbitration Association, and judgment upon the award rendered may be entered in any court having jurisdiction thereof.
7. If one or more provisions provided herein are held to be invalid or unenforceable under applicable law, then such provision shall be ineffective and excluded to the extent of such invalidity or unenforceability without affecting in any way the remaining provisions hereof.