



WaveMark Cabinet P/N 01-0001 Installation Manual

This manual is P/N 99-0002, Version 1.00

Document Revision History		
Rev.	Notes/Changes	Date
1.00	Initial Release	Jan 23, 2007

Notice of FCC Compliance

Changes or modifications not expressly approved by WaveMark, Inc. could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This product must be professionally installed by WaveMark trained installation personnel and must only be serviced by WaveMark trained service personnel.

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1. Working Safely

It is WaveMark's highest priority that all field installations comply with the company's installation and safety procedures and any safety procedures in place at the location of installation.

In order to assure that WaveMark equipment is installed in a safe manner and in compliance with WaveMark's installation guidelines only factory trained personnel are authorized to install or service WaveMark products. This WaveMark product contains no user-serviceable components.

All personnel involved with the transportation, installation, commissioning or repair of WaveMark equipment are required to follow WaveMark's ***Infection Control Practice*** policy (effective 12/2006).

2. Unpacking the Cabinet

- Step 1 When the cabinet arrives, it will need to be unpacked. WaveMark ships its cabinets on pallets with built-in ramps. Once the packing material has been removed from the outside of the cabinet, unlock the front wheels of the Cabinet, lower the ramp, and carefully guide the Cabinet down the ramp.
- Step 2 With the packing material removed inspect the cabinet for damage. If the Cabinet is obviously damaged notify the shipping company immediately. Don't proceed with the installation of any damaged Cabinet.
- Step 3 Set the pallet aside and discard the rest of the shipping material as directed by the facility's shipping personnel. When all Cabinets have been unpacked, stack the WaveMark pallets and coordinate with shipping personnel to return them to WaveMark's designated storage facility; this is NOT WaveMark's corporate address.

3. Placing the Cabinet

Step 1 Before moving a Cabinet up to its location in the facility, walk the route and note any obstructions such as signs on the walls or ceilings, or any flooring issues such as elevator thresholds that might be a problem for the Cabinet's wheels.

Step 2 Identify where the Cabinet is to be placed and locate an easily accessible socket outlet and the nearest usable Ethernet jack. The Cabinet MUST be connected to a power outlet that is properly grounded and has a three wire connection.

Step 3 The Cabinet is designed to be rolled over smooth flooring; the cabinet should never be tilted, placed on its side, or rolled across parking lots. If necessary relocate the Cabinet on its shipping pallet to avoid these situations.

When crossing elevator entrances use the portable threshold provided to prevent the Cabinet's wheels from becoming lodged in the elevator entrance track.

Note that the Cabinet has been designed to be very stable, but moving too quickly and pushing against the top of the Cabinet may cause it to tip. When placing the cabinet move slowly and push or pull only the lower half of the Cabinet.

Step 4 Be sure the Cabinet is installed in a suitable environment. The environment should be free from airborne corrosive agents and excessive dust. The floor should be dry and the cabinet should not be placed in an area where it would be exposed to dripping water.

Step 5 Inspect the exterior of the Cabinet and if it's become marred during shipping clean the exterior plastics with a mild household cleaner or isopropyl alcohol. Other solvents that are more harsh may damage or discolor the Cabinet's exterior and should NOT be used.

4. Cabinet Installation

- Step 1 Carefully wheel the cabinet to its location. Move the Cabinet slowly and carefully to avoid objects and people who may be traveling in the same corridors. Use the moveable threshold provided when traveling over rough spots, such as elevator entrances.
- Step 2 When the cabinet is in place, remove the top and bottom Cabinet Back pieces. Each antenna is held in place with a protective foam insert. Remove and discard the inserts for all the Antennas.
- Step 3 Remove the power cable from the cabinet bottom and set it aside; DO NOT connect power to the Cabinet at this time!
- Step 4 Check the location of the Mux board and the DCP PC, and all of the interconnect wiring. Be sure there are no loose, unconnected wires in the base of the Cabinet.
- Step 5 Remove the Front Access Panel and check the power switch wiring; be sure the switch is secure in the Front Panel and the power interconnects at the switch are secure. Replace the Panel.
- Step 6 Connect the network cable from the Cabinet to the Ethernet jack. If the Ethernet cable supplied is not long enough obtain a longer straight-thru Ethernet cable (a cross over cable will NOT work). In the final installation the Ethernet cable should not be under physical stress and should not be resting against electrical equipment such as motors or heating units.

- Step 7 With the Cabinet Backs removed connect the power cord provided. If the motors don't start to move the Antennas to their Home position within five seconds check the power switch on the Front Access Panel. If the switch is OFF it will not be lit. Switch power ON and confirm the motors move the Antennas. If the power cord is not long enough, you must use an extension cable. If you use an extension cable it must be approved for permanent, indoor installation.



DO NOT use a temporary power strip to connect any cabinet to facility power!

Step 8 When the cabinet is powered verify that the Mux power LED is lighted and that the 'heartbeat' LEDs are blinking on all the motor boards.

Step 9 Confirm that the Link LED is lit on the PC's Ethernet port.

5. Hardware Checkout

- Step 1 Connect the WaveMark commissioning laptop to the Cabinet's Ethernet network.

- Step 2 Establish a secure IP connection with the Cabinet and execute the command to start the hardware checkout process.

- Step 3 Verify that all the motors start to operate, moving the Antennas from their positions at Home.

- Step 4 Confirm that all the antennas move smoothly over their entire length of travel on the shelf.

- Step 5 Replace the Cabinet Backs and set the Cabinet into its final installed location.

- Step 6 Lock the front wheels of the Cabinet.

6. Product Specifications

Power	100 - 120 Vac, 2A, 60 Hz
Fuse	120Vac, 4A, time delay (slow blow); UL recognized component
Environment	50 to 90 degrees F, non-condensing; must be installed in an environment free of corrosive agents and excessive dust
Size	78 inches high by 44½ inches wide by 21 inches deep
Weight	285 pounds
Network	Auto-select Ethernet 10 Base-T, 100 Base TX or 1000 Base-T

7. Cabinet Servicing

The Cabinet must be serviced ONLY by WaveMark trained service personnel.