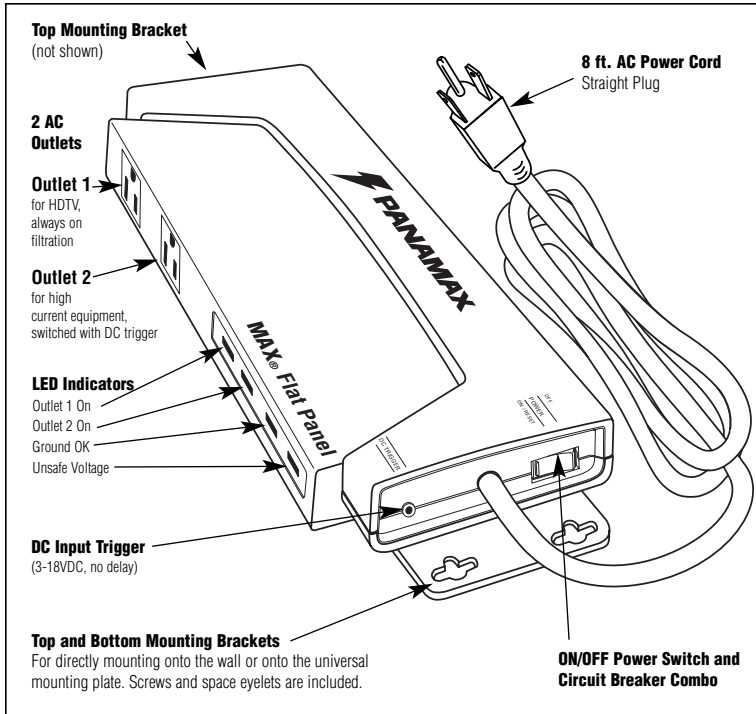


MFP500-EX INSTRUCTIONS

MAX® FLAT PANEL POWER CONDITIONER



The MFP500-EX is designed specifically for high definition flat panel display power filtering (AC noise filtration) and power protection (surge and over-voltage/under voltage protection for the AC line).

In addition, it features a 3-18VDC input trigger and two banks of noise filtration circuitry. One, a capacitive filter circuit, is for high-current draw.

A secondary use for this product is for use with remotely located sub-woofer amps or other accessory equipment.

IMPORTANT SAFETY POINTS

Panamax surge protectors and the connected equipment must be indoors, in a dry location and in the same building. Although your Panamax protector is very durable, its internal components are not isolated from the environment. Do not install any Panamax product near heat emitting appliances such as a radiator or heat register. Do not install this product where excessive moisture is present; for example near a bathtub, sink, pool, basement floor, fish tank, etc.

It is not uncommon for a building to be improperly grounded. In order to protect your equipment, Panamax products must be plugged into a properly wired and grounded 3-wire outlet. Additionally, building wiring and grounding must conform to applicable NEC (USA) or CEC (Canada) codes for the Panamax protection policy to be valid.

Do not use 2-blade adapters or any other "power strips" with this product. Use only Panamax extension cords if a longer cord is required.

NOTE TO TV ANTENNA, SATELLITE DISH and CATV INSTALLERS:

Articles 810.21 and 820.40 of the NEC provide specific guidelines for proper grounding, and in particular, specify that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

2 AC outlets individually filtered.

Outlet 1 is designated as the always on outlet.

Power will be disconnected from this outlet under a fault condition or tripping of the circuit breaker. When power is applied to this outlet the Outlet 1 On LED will be illuminated.

Outlet 2 is designated as the switched high current outlet. When power is applied to this outlet, the Outlet 2 On LED will be illuminated.

Power from this outlet can be disconnected under 3 conditions: (1) a fault condition, (2) tripping of the circuit breaker (3) via the DC trigger input.

Over/under voltage shutoff

When the line voltage exceeds the overvoltage threshold, power is disconnected from both outlets and the Unsafe Voltage LED turns ON (red).

When the line voltage falls below the under-voltage threshold, power is disconnected from both outlets and the Unsafe Voltage LED will turn on (red).

4 Diagnostic LEDs for maximum safety. They are designated as follows:

1. Outlet 1 On – (blue) normally ON; indicates that the surge protector is functioning properly and that all connected equipment is protected.

2. Outlet 2 On – (blue) normally ON; indicates that the surge protector is functioning properly and that all connected equipment is protected.

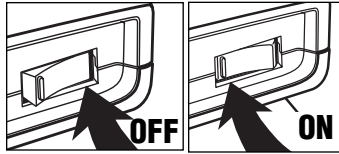
2. Wiring OK – (blue) When the unit is plugged into a properly wired outlet, the Wiring OK LED is ON. If it is plugged into an outlet with reversed L-N wiring or open ground, the LED is OFF.

4. UNSAFE VOLTAGE –(red) normally OFF, indicates that incoming voltages are unsafe and the surge protector has disconnected the power to your connected equipment.

INSTALLATION (AC Power):

1. Turn **OFF** the power to all equipment that will be plugged into the unit.

2. Make sure that the ON/OFF switch is in the **OFF** position (see figure). Plug the unit into the wall outlet and then turn it **ON**.



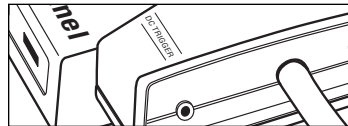
3. Verify that the blue "Wiring OK" LED is lit, indicating that the wall outlet is properly wired and grounded.

4. Plug the equipment to be protected into the Panamax unit and one at a time, turn each piece of connected equipment **ON** and check for correct operation.

a. Audio/Video equipment like HDTVs, receivers, DVD players, TVs, etc. should be plugged into outlet number **1**. This outlet provides power from a "Balanced Double L" filtration circuit so that EMI/RFI noise is prevented from reaching your source/display equipment.

b. High-current equipment like amplifiers and powered subwoofers should be plugged into outlet number **2**. This outlet's capacitive (inductor-less) filter circuit cleans the power without limiting current flow to your amplifiers.

INSTALLATION & OPERATION OF DC TRIGGER (optional):



The DC Trigger input uses a standard 3.5mm (1/8") mono jack. The circuitry is bidirectional regarding signal polarity so it doesn't matter whether the center-pin of the plug is positive or negative. Connect a standard 2-wire cable with a 3.5mm mini-plug from your source component's DC Trigger output (or appropriate AC Adapter plugged into a switched outlet on your receiver) to this jack. The high-current outlet will turn **ON** when a DC voltage (3-18VDC) signal is received from your source component. Power to this outlet is turned **OFF** when a DC voltage signal is not being received.

Please note: Power to the high-current outlet will be controlled by the combination power switch/circuit breaker if nothing is plugged into the DC Trigger jack.

Wall Mounting procedure:

1. Determine the mounting location on the wall and mark the position for the top mounting screw.

2. Place a spacer eyelet on one of the #6 pan-head screws with the flared end of the eyelet toward the wall. Drive the screw into the wall (use the included drywall anchors for hollow walls) at the marked location, leaving the eyelet exposed.

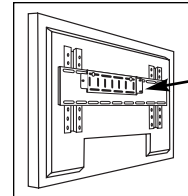
3. Position the key-hole on the unit's top mounting bracket over the eyelet/screw and slide the unit down to lock the screw-head into the bracket.

4. Mark the location for the two lower mounting screws (in the narrow portion of the key-holes) and drive the screws into the wall using the other 2 spacer eyelets like in step #3. The included drywall anchors should be used for mounting on hollow walls.

5. Position the protector over the 3 eyelets/screws and slide the unit down to lock it into place.

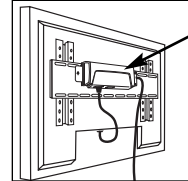
6. Using the above procedure allows easy removal of the unit by sliding the unit up to disengage the brackets from the eyelets/screws.

Back of Display Mounting procedure:



Universal Mounting Plate (for horizontal or vertical positioning).

1. Determine the mounting location on the rear of the display panel and attach using bolts with low profile heads for clearance to mount MFP500-EX to the universal mounting plate.



2. Position the protector over the 3 eyelets/screws on the universal plate and slide the unit down to lock it into place.

Velcro Mounting (optional)

Two pair of 3 in. Velcro strips are included for mounting to either wall or back of display.

TROUBLESHOOTING—

If you are having problems with your surge protector, read this section.

The "Outlet 1 On / Outlet 2 On" LED is not lit, there is no AC power to my equipment, or my equipment doesn't turn on.

- Make sure that the protector is plugged into a working AC outlet.

- Check all AC power connections.

- Make sure that the protector and connected equipment are turned on.

- If using the DC Trigger input, verify that the source equipment is providing the proper DC voltage signal. (Outlet 2 only)

- Verify that the "Unsafe Voltage" LED is not lit. If it is on, the incoming line voltage is either too high or too low and has been disconnected from your connected equipment.

- Check to see if the circuit breaker on the surge protector (combination power switch/circuit breaker) needs to be reset (press "ON" to reset).

- If you still have no power, the protector may be damaged. Contact Panamax (website or Customer Support Department) for replacement.

There is no audio or video for my TV, stereo or VCR.

- Check the coaxial connections, making sure they are correctly and securely installed.

- If you still have no picture, a problem with your cable provider's signal may exist.

The Panamax circuit breaker disconnects AC power from the connected equipment.

- You have exceeded the ampere rating for your surge protector. As a temporary fix, disconnect one or more pieces of equipment. Ask your Panamax dealer about additional Panamax protectors that may be required.

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