

# PANAMAX® M5100-PM

LOOKING FOR **CRYSTAL CLEAR** PICTURE AND SOUND?



- 3**  
**Clean Power Level 3**  
Improves picture and sound quality by eliminating noise across the entire AC bandwidth. 60% more efficient at eliminating noise than single stage linear filtration (Level 2).
- 3**  
**3 Isolated Outlet Banks**  
Isolating outlet banks from one another prevents noise contamination between components.
- 2+**  
**High Current Outlets**  
2 outlets for equipment with high power demands (Amps/Subwoofers).
- USB**  
**USB Charger**  
Convenience charger for mp3 players, cell phones, and other small electronics.
- LAN**  
**Gaming LAN Port**  
Easy access to LAN port on front panel. Perfect for online gaming.
- 120V**  
**Digital Volt Meter**  
Monitor the voltage supplying your home theater equipment.
- 12v**  
**12 Volt Trigger**  
Allows source equipment to activate or deactivate the outlets on the M5100-PM.
- Power**  
**Power Sequencing**  
Guards against blown fuses and potentially damaging speaker thump by automatically powering outlets on and off in sequence.
- 11**  
**11 Outlets**  
5 Always On, 4 Switched, 2 Switched High Current.
- AVM**  
**AVM (Automatic Voltage Monitoring)**  
Protects equipment against prolonged over/under voltages by disconnecting the power and reconnecting it when safe power returns.

## M5100-PM

### HOME THEATER POWER MANAGEMENT

#### 1 Improves Picture and Sound Quality

Level 3 Power Cleaning and Linear Filtration eliminates common symptoms of contaminated power (including loss of detail, pops, hisses, hums and visual artifacts) and allows your A/V equipment to perform up to its full capability.

#### 2 Monitors Incoming Line Voltage and Provides a Visual Indication of Power Level

Panamax's patent pending AVM™ circuitry continuously monitors the incoming power as displayed on the digital voltmeter. In case of an undervoltage or an overvoltage, a flashing lightning bolt will be displayed in red in the voltmeter, and power to the connected equipment is automatically turned off if either of these conditions is detected. When voltage returns to a safe level, power to the equipment is automatically reconnected.

#### 3 Reduces Cross-Contamination Between Components

The M5100-PM is designed to provide noise isolation between 3 isolated outlet banks including 2 high current outlets so that any noise created by an A/V component can not contaminate the power going to equipment plugged into another outlet bank.



Three Year Product Warranty\*  
\$5,000,000 Limited Connected Equipment Policy\*  
Product Upgrade Program\*  
\* See actual warranty/policy for details.

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## M5100-PM BACK PANEL FEATURES

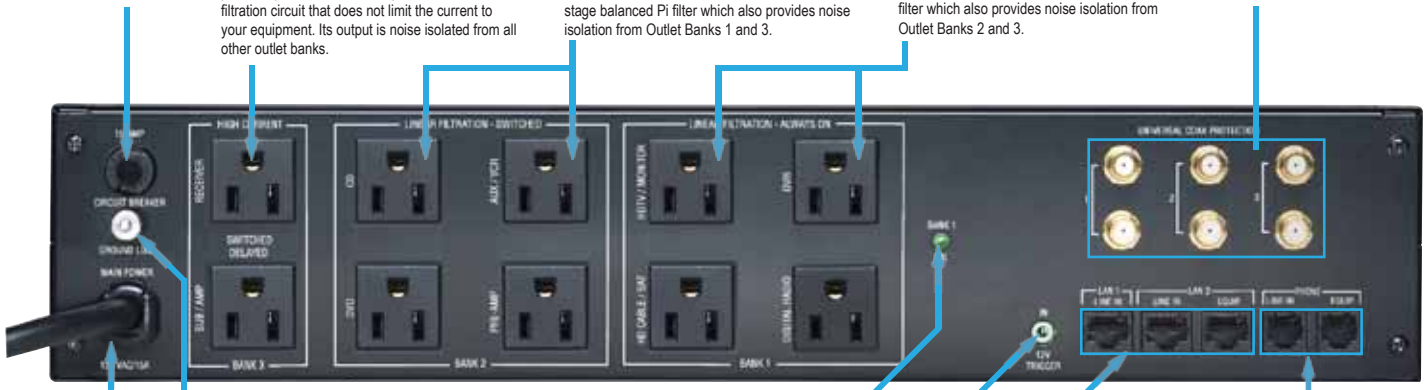
**1. Circuit Breaker:**  
Automatically opens when the current load is greater than 15 Amps. Push to reset.

**2. Outlet Bank 3**  
Two switched, high-current outlets controlled by the front panel Power Button or the DC Trigger input. Bank 3 has a 5 second turn on delay and turns off immediately. The High Current outlet provides power from a low impedance noise filtration circuit that does not limit the current to your equipment. Its output is noise isolated from all other outlet banks.

**3. Outlet Bank 2**  
Four isolated, switched outlets with linear filtration technology (LIFT) controlled by the front panel Power Button or the DC Trigger input. Bank 2 will turn on immediately and turn off after 10 seconds. LIFT EMI/RFI noise filtration is provided by a two-stage balanced Pi filter which also provides noise isolation from Outlet Banks 1 and 3.

**4. Outlet Bank 1**  
Four always-on outlets with linear filtration technology (LIFT). Power will only be turned off under a fault condition. (See specifications for over-voltage and under-voltage thresholds) Power is cleaned by a two-stage balanced Pi filter which also provides noise isolation from Outlet Banks 2 and 3.

**5. Universal Coaxial Connectors**  
3 pairs of bidirectional protection circuits optimized for satellite, cable, and antenna TV signal lines.



**6. Main Power**  
Must be plugged into a properly wired & grounded 3-wire outlet.

**7. Ground Lug:**  
Provides a common grounding point for equipment with separate ground leads

**8. Bank 1 Indicator Light**  
Normally ON, is lit when there is power present on the Bank 1 receptacles.

**9. Voltage Sense Trigger Input**  
3.5mm (1/8") mono mini-plug. Connect to a remote trigger device that uses a DC output to trigger a startup/shutdown sequence.

**10. LAN Jacks**  
Protection circuits for 10/100 baseT Ethernet lines. Incoming LAN line MUST be plugged into the LINE jack. Patch cord to the equipment MUST be plugged into the EQUIP jacks. 1 LAN jack goes to the front panel output jack. 8 wire protection, 50V clamping.

**11. Phone Jacks**  
Protection circuits for standard telephone or pay-per-view lines. Phone circuit is autoresetting. Incoming phone cord MUST be plugged into the LINE jack. Patch cords to the equipment (satellite receiver, digital video recorder, telephone, etc.) MUST be plugged into the EQUIP jacks.

## M5100-PM SPECIFICATIONS

### General

Dimensions..... 17 in. W x 12.75 in. D x 3.5 in H, (4.1 in. Including feet)  
Weight..... 13.5 lbs.

### AC Power

Line Voltage..... 120V, 60Hz  
Voltage Regulation..... No  
Total Current Capacity..... 15 A (1800 W)  
Voltage Protection Rating (UL1449 3rd Edition, 3,000A)..... 500V  
Protection Modes..... L-N, L-G, N-G  
Initial Clamping Level..... 200V Peak, 141V RMS  
Energy Dissipation..... 1875 Joules  
Peak Impulse Current..... 60,000 Amps  
Catastrophic Surge Circuit..... Yes  
Thermal Fusing..... Yes

Auto-resetting Over-voltage shutoff..... 142 VAC ± 8 VAC  
Auto-resetting Under-voltage shutoff..... 86 VAC ± 6 VAC

### EMI/RFI Noise Filtration

Bank 1 ..... Up to -82 db (100 KHz – 2 MHz)  
Bank 2 ..... Up to -80 db (100 KHz – 2 MHz)  
Bank 3 ..... Up to -70 db (100 KHz – 2 MHz)

### DC Trigger Input

Jacks..... 3.5mm (1/8") mono mini-plug  
Voltage and Polarity..... 3 - 24V DC, bidirectional  
Current Requirement..... 4.6 mA @3V, 58 mA @24V

### LAN Protection

Clamping Level..... 60V ± 5V  
Compatibility..... 10/100bT  
Connectors..... RJ-45  
Wires Protected:..... 8-Wires

### USB Circuit

Jacks..... USB-A  
Power Delivery..... 500 mA @5VDC

### Telco Protection

Fuseless/Auto-resetting..... Yes  
Clamping Level..... 260V  
Capacitance..... 30pf (approx.)  
Suppression Modes..... Metallic & Longitudinal  
Connectors..... RJ-11  
Lines Protected..... 2-Wire, Pins 4 & 5

### Universal Coax Protection

HD 1080 i/p Ready..... Yes  
Bidirectional..... Yes  
Shielded..... Yes  
Clamping Level..... 75V  
Frequency Range..... 0MHz - 2.2 GHz  
Insertion Loss..... < 0.5 dB  
Connectors..... Female "F", Gold Plated

Design and specifications subject to change without notice due to product improvement.

## UPC'S, QUANTITIES, WEIGHTS & MEASUREMENTS FOR ORDERING & SHIPPING

MODEL M5100-PM		UNIT CARTON			MASTER CARTON			
Dimensions	Weight	Dimensions	Weight	UPC	Qty	Dimensions	Weight	UPC
17" x 12.75" x 3.5" 4.1" H with feet	13.5 lbs	23.25" x 19" x 9.25"	18 Lbs	0 50616 00817 4	1	23.75" x 19.75" x 10"	19 Lbs	5 00 50616 00817 9