

# PANAMAX® M5400-PM

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



**4+**

• **Clean Power Level 4+**

Panamax PM family's highest level of power filtration plus voltage regulation ensure components receive a consistent level of clean power. Improves picture and sound quality by eliminating noise across the entire AC bandwidth.



• **Voltage Regulation**

Improve system performance and prolong equipment life by providing a consistent level of optimal power to your equipment.



• **AVM (Automatic Voltage Monitoring)**

Protects equipment against prolonged over/under voltages by disconnecting the power and reconnecting it when safe power returns.



• **High Current Outlets**

2 outlets for equipment with high power demands (Amps/Subwoofers).



• **USB Charger**

Convenience charger for mp3 players, cell phones, and other small electronics.



• **Gaming LAN Port**

Easy access to LAN port on front panel. Perfect for online gaming.



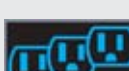
• **5 Isolated Outlet Banks**

Isolating outlet banks from one another prevents noise contamination between components.



• **12 Volt Trigger**

Allows source equipment to activate or deactivate the outlets on the M5400-PM.



• **Power Sequencing**

Guards against blown fuses and potentially damaging speaker thump by automatically powering outlets on and off in sequence.



• **11 Outlets**

5 Always On, 4 Switched, 2 Switched High Current.

## M5400-PM

### HOME THEATER POWER MANAGEMENT

**1 Voltage Regulation**

Improve system performance and prolong equipment life by providing a consistent level of optimal power to your equipment.

**2 Improves Picture and Sound Quality**

Level 4+ Power Cleaning and 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.

**3 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 under voltage or an over voltage, a flashing red lightning bolt will be displayed 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.

**4 Reduces Cross-Contamination Between Components**

The M5400-PM is designed to provide noise isolation between 5 isolated outlet banks (including 1 bank with 2 high current outlets) so that any noise created by an A/V component cannot 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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## M5400-PM BACK PANEL FEATURES

### 1. 15A Main Circuit Breaker:

Automatically opens when the current load is greater than 15 Amps. Push to reset.

### 2. Outlet Bank 5

Two switched, high-current outlets controlled by the front panel Power Button or the DC Trigger input. Bank 5 has a 5 second turn on delay and turns off immediately upon shutdown. The High Current outlets provide 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 Banks 3 and 4

Each bank features two switched outlets with voltage regulation and linear filtration technology (LiFT) controlled by the front panel Power Button or the DC Trigger input. Banks 3 & 4 will turn on immediately and turn off after a 10 second delay. LiFT EMI/RFI noise filtration is provided by a two-stage balanced Pi filter which also provides noise isolation from all other outlet banks.

### 4. Outlet Banks 1 and 2

Each bank features two always-on outlets with voltage regulation and linear filtration technology (LiFT). Power will only be turned off under a fault condition. (See specifications for over-voltage and under-voltage thresholds). LiFT EMI/RFI noise filtration is provided by a two-stage balanced Pi filter which also provides noise isolation from all other outlet banks.

### 5. Universal Coaxial Connectors

3 pairs of bidirectional protection circuits optimized for satellite, cable, and antenna TV signal lines.



6. Main Power Cord 10ft. 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 & 2 Indicator Light Normally ON, is lit when there is power present on the Bank 1 and 2 receptacles.

9. Voltage Sense Trigger Output 3.5mm (1/8") Mini-Plug jack. Connecting a trigger wire to the Voltage Sense Output jack will allow the input signal to pass through the M5400-PM to control the startup/shutdown of an additional device.

10. 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.

11. LAN Jacks Protection circuits for 10/100 baseT Ethernet lines. For the LAN 2 protected jacks, the incoming LAN line MUST be plugged into the LINE jack and the patch cord to the equipment MUST be plugged into the EQUIP jack. For the LAN 1 protected jacks the incoming LAN line must be plugged into the LINE jack and the equipment must be plugged into the gaming jack on the front panel. 8 wire protection, 60V ± 5V clamping.

12. 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.

## M5400-PM SPECIFICATIONS

### General

Dimensions.....17 in. W x 12.75 in. D x 3.5 in H, (4.1 in. Including feet)  
Weight.....20 lbs.

### AC Power

Line Voltage.....120V, 60Hz  
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, 141 V RMS  
Energy Dissipation.....2350 Joules  
Peak Impulse Current.....75,000 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 -86 db (100 KHz – 2 MHz)  
Bank 2 .....Up to -91 db (100 KHz – 2 MHz)  
Bank 3 .....Up to -81 db (100 KHz – 2 MHz)  
Bank 4 .....Up to -100 db (100 KHz – 2 MHz)  
Bank 5, High Current Outlets .....Up to -81 db (100 KHz – 2 MHz)

### Voltage Regulation (Banks 1-4)

Power / Current.....1500 VA / 12A  
Input Voltage Range.....100-136 VAC  
Output Voltage Range.....120 VAC ± 6 VAC  
Buck Stage:.....reduces voltage in the 125-136 V range  
Boost Stage 1:.....boosts voltage in the 109-119 V range  
Boost Stage 2:.....boosts voltage in the 100-109 V range

Design and specifications are subject to changes due to product upgrades and improvements.

### 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

### DC Trigger Output

Pass through.....no delay  
Positive = Tip, Negative = Ring

### 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  
Wires Protected.....2-Wire, Pins 4 & 5  
Connectors.....RJ-11

### Universal Coax Protection

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

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

MODEL M5400-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	20 lbs	23.25" x 19" x 9.25"	23 Lbs	0 50616 00815 0	1	23.75" x 19.75" x 10"	24 Lbs	5 00 50616 00815 5

