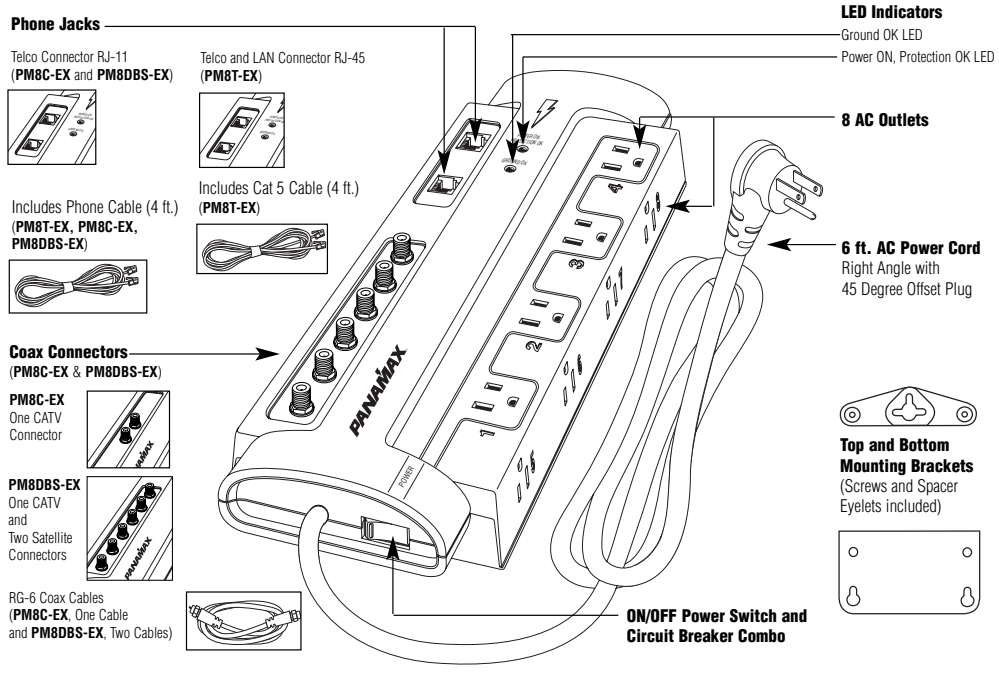
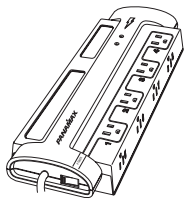


PM8-EX, PM8T-EX, PM8C-EX, PM8DBS-EX INSTRUCTIONS - English

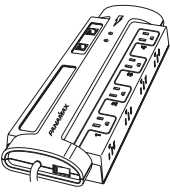
Make sure you have the right surge protector to protect your electronic equipment. Panamax makes protectors for almost every type of electronic equipment. Surge protectors that may look identical from the outside can be very different on the inside. It is very important to use the surge protector designed for your application.



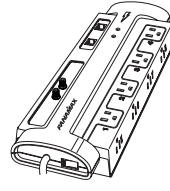
PM8-EX – Provides surge protection for AC-only electronic devices with no other connections.



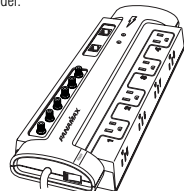
PM8T-EX – Adds telephone and Ethernet line protection to the AC power protection capabilities of the base model.



PM8C-EX – Adds coaxial (CATV, off-air antenna or cable modem) and telephone line protection to the AC power protection capabilities of the base model.



PM8DBS-EX – Adds coaxial (Satellite TV, CATV, off-air antenna or cable modem) and telephone line protection to the AC power protection capabilities of the base model.



All of these units have 8 AC outlets controlled by the combination power switch/circuit breaker. These models feature Panamax's Protect-or-Disconnect™ circuitry for protection against catastrophic surges like lightning.

In addition, these models have 2 diagnostic LEDs. They are designated as follows:

1. POWER ON, PROTECTION OK – (green) normally ON, indicates that the surge protector is functioning properly and that all connected equipment is protected. Also indicates that the power switch is turned ON.

2. GROUND OK – (green) normally ON; indicates that the wall outlet is properly wired and grounded.

The PM8-EX family has been designed with flexibility and expansion in mind. All of these models will accept add-on signal-line protection modules in the event that your installation has more signal-lines than can be protected with one of the above units. More information is available on our website (www.panamax.com) or from our Customer Support Department (800-472-5555; 7:30AM – 4:30PM PST).

If you have any questions about which protector is best for your application, please check our website (www.panamax.com) or contact Panamax Customer Support.

PROPERLY CONNECTING YOUR SURGE PROTECTOR

To completely protect your equipment from surges, every wire leading into or out of the equipment you want to protect must be connected to the appropriate Panamax surge protector. Damaging lightning and power surges can enter your system through any AC power or signal-line (phone line, grounding wires, coax cables, modem cables, LAN cables, etc.) connected to your electronic equipment.

The Panamax \$100,000 Connected Equipment Protection Policy is void if any wire leading into or out of the equipment is not properly connected to the appropriate Panamax surge protector(s). The surge protector must also be plugged into a properly wired and grounded outlet. Please see the warranty for details or contact the Panamax Customer Support Department with questions.

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:

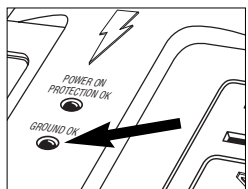
Articles 810.21 and 820.40 of the NEC provide specific guidelines for proper grounding, and in particular, specify that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

INSTALLATION (AC Power):

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

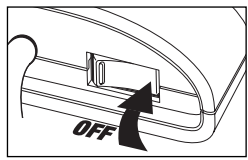
2. Make sure that the ON/OFF switch is in the **OFF** position (see figure). Plug the unit into the wall outlet and then turn it **ON**.

3. Verify that the green "Ground 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.

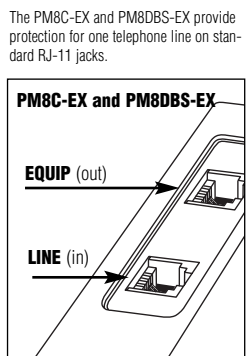
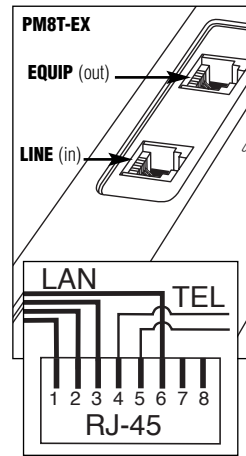
5. Turn **OFF** the unit and all connected equipment before connecting any signal-lines or installing any add-on signal line modules.



INSTALLATION (Telephone or LAN Lines):

IMPORTANT: Note the position of the **LINE** and **EQUIP** jacks on the Panamax unit. **LINE** is for the line connection that comes from the wall or floor jack. **EQUIP** is for the line connection to your connected equipment. The protection circuit will only function if connected properly. Reversed connections will pass the signal to the connected equipment but will also prevent the protection circuitry from working and will invalidate the Panamax Connected Equipment Protection Policy.

The PM8T-EX provides both telephone and LAN protection on one set of RJ-45 (RJ-11 compatible) jacks. The telephone circuit uses pins 1, 2, 3 & 6. Adaptors or custom cables (not included) must be used when utilizing both protection circuits at the same time.



1. Make sure the Panamax protector and all connected equipment is turned **OFF**.

2. Take the incoming telephone or LAN line and plug it into the appropriate **LINE** jack on the protector. The line should now be connected between the wall and the Panamax unit.

3. Plug a telephone or LAN line into the **EQUIP** jack and then plug the other end into the equipment to be protected.

4. Turn On the protector and the connected equipment. Verify that each piece of connected equipment is receiving power and signal.

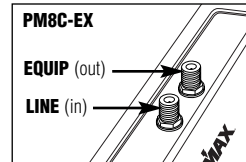
INSTALLATION (Coaxial Lines):

IMPORTANT: Note the position of the **LINE** and **EQUIP** jacks on the Panamax unit. **LINE** is for the line connection that comes from the wall or floor jack. **EQUIP** is for the line connection to your connected equipment.

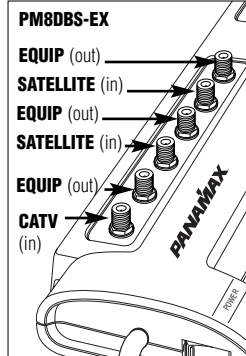
Panamax offers two types of coaxial line protection; **1) Satellite TV** **2) Cable TV (CATV), Off-air antenna or Cable modem**. Each one is optimized for the specific application and **can not** be used with the other. Detailed information may be found on the Panamax website (www.panamax.com)

NOTE: The CATV/Off-Air Antenna protection circuit in these models is bi-directional and has been designed to work with cable TV systems that send pay-per-view ordering information to the cable company over the coaxial line.

The **PM8C-EX** provides protection for one CATV, off-air antenna or cable modem line. It is **not** compatible with Satellite TV. When used with diplexers, this protection circuit must be placed between the diplexer and the TV or VCR; it will **not** protect the diplexer.



The **PM8DBS-EX** provides protection for one CATV, off-air antenna line or cable modem and two Satellite TV lines. These are **not** interchangeable. Make sure that your equipment is connected to the proper jacks. When used with diplexers, this protection circuit must be placed between the diplexer and the Satellite receiver; it will **not** protect the diplexer.



1. Make sure the Panamax protector and all connected equipment is turned **OFF**.

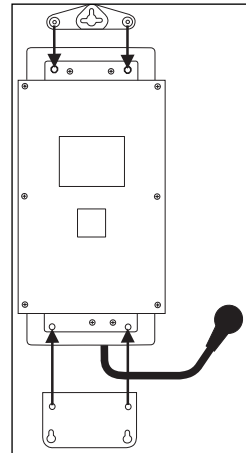
2. Connect the coaxial cable from the CATV system, antenna, or Satellite dish to the appropriate **LINE** connector on the Panamax protector.

3. Connect a coaxial cable from the **EQUIP** jack on the protector to appropriate input jack on your TV, VCR, cable modem or Satellite receiver.

4. Repeat steps 2 & 3 for all additional coaxial lines.

WALL MOUNTING (optional):

The small triangular bracket with one "key-hole" is for the top end of the unit. This bracket mounts directly to the back of the unit with the #8-32 x 5/16" machine screws, then to the wall with one of the #6-20 x 3/4" pan-head screws and spacer eyelets (drywall anchors optional).



The large rectangular bracket with two "key-holes" is for the bottom, line-cord end of the unit. It mounts directly to the unit with the thread-forming screws, then to the wall with the other two #6 pan-head screws and spacer eyelets (drywall anchors optional).

Mounting procedure:

1. Mount both brackets to the unit with the appropriate screws.

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

3. 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.

4. 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.

5. 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 dry-wall anchors should be used for mounting on hollow walls.

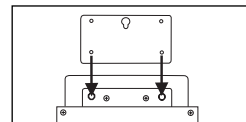
6. Position the protector over the 3 eyelets/screws and slide the unit down to lock it into place.

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

8. Repeat steps 2 & 3 for all additional coaxial lines.

ADDING SIGNAL-LINE MODULES (Optional):

Some connected equipment may have more signal-lines than can be protected by the base unit alone. Panamax offers a line of add-on signal-line modules (sold separately) for these situations. Each module includes installation instructions



and a small rectangular bracket with a grounding interface. This bracket replaces the small triangular wall-mount bracket that comes with the AC base unit and is needed only when add-on modules are being installed. More information can be obtained on the Panamax website or by calling our Customer Support Department.

TROUBLESHOOTING–

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

The "Protection OK" 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.

• 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.

• Bypass the coaxial connectors. If your picture returns, the protector is damaged. Contact Panamax (website or Customer Support Department) for replacement.

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

My fax machine, modem or telephone has AC power but still does not work.

• Check to see if your connected equipment is receiving a dial tone.

• If not, bypass the surge protector's phone jacks to see if the protector is damaged.

• If your dial tone returns, the protector is damaged. Contact Panamax (website or Customer Support Department) for replacement.

• If you still have no dial tone, a problem with the phone company's lines may exist.

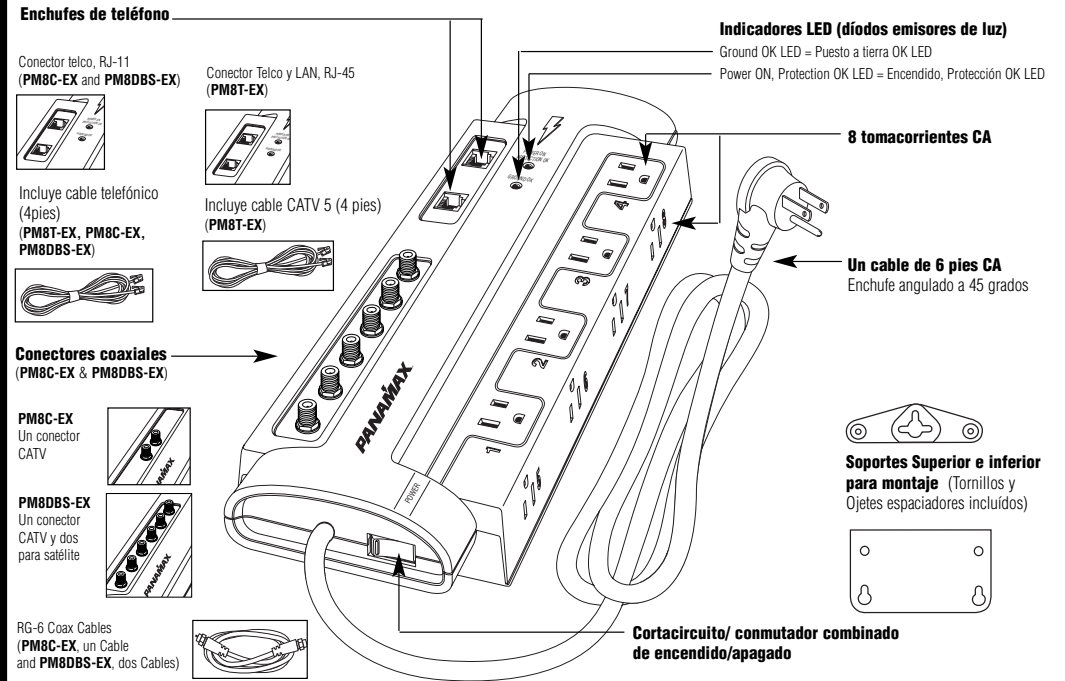
The Panamax circuit breaker disconnects AC power from the connected equipment.

• 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.

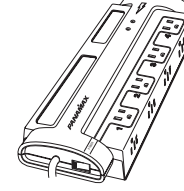


PM8-EX, PM8T-EX, PM8C-EX, PM8DBS-EX INSTRUCCIONES - Español

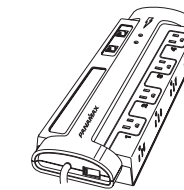
Asegúrese de que tiene el protector contra sobrecargas de tensión correcto para proteger su equipo electrónico. Panamax fabrica protectores para casi todo tipo de equipo electrónico. Protectores contra sobrecarga de tensión pueden ser idénticos por afuera pero ser muy diferentes por adentro. Es importante usar el protector contra sobrecarga diseñado para su equipo, ector designed for your application.



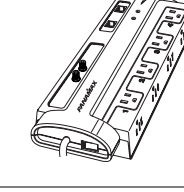
PM8-EX –Provee protección contra sobrecargas para aparatos electrónicos de CA sin ninguna otra conexión.



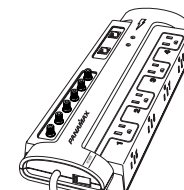
PM8T-EX – Añade protección para los cable de teléfono y ethernet a las capacidades de protección de CA del modelo base.



PM8C-EX –Añade protección para los cables coaxiales (CATV, antena fuera de aire o modem por cable) y cable de teléfono a las capacidades de protección de CA del modelo base.



PM8DBS-EX – Añade protección para los cables coaxiales (TV de satélite y CATV, antena fuera de aire o modem por cable) y cable de teléfono a las capacidades de protección de CA del modelo base.



Todas estas unidades tienen 8 tomacorrientes para CA que son controlados por la combinación de corta circuito/conmutador. Estos modelos contienen la circuitería Protect-or-Disconnect™ (proteger-o-desconectar) de Panamax para proteger contra sobrecargas catastróficas como relámpagos.

Además, estos modelos tiene 2 díodos emisores de luz (LED) para diagnosis. Están nombrados como sigue:

1. Power ON, Protection OK – (verde) normalmente ON; indica que el protector está funcionando correctamente y que todo el equipo conectado está protegido. También indica que está encendido.

2. Ground OK – (verde) normalmente ON; indica que el tomacorriente de la pared está correctamente alambrado y puesto a tierra.

La familia PM8-EX ha sido diseñada, teniendo en mente, flexibilidad y expansión. Todos estos modelos aceptan módulos de protección de línea de señal adicionales en el evento que su instalación tenga más líneas de señales que necesiten protección con una de las unidades nombradas. Más información está a su disposición en nuestro sitio web (www.panamax.com) o de nuestro departamento de cuidado del cliente (800-472-5555; 7:30 am-4:30 PM tiempo pacífico).

Si tiene alguna pregunta sobre cual protector es el mejor para su equipo, favor de ir a nuestro sitio web (www.panamax.com) o póngase en contacto con nuestro departamento de cuidado del cliente.

Conectando su protector contra sobrecargas de tensión correctamente

Para proteger su equipo completamente de sobrecargas, cada alambre que sale o entra del equipo que usted quiere proteger debe ser conectado al protector de sobrecargas de tensión indicado. Relámpagos dañinos y sobrecargas de tensión pueden entrar a su sistema por cualquier línea de señal (línea telefónica, alambres de tierra, cables coaxiales, cables modem, cables red de área local (LAN), etc.) o corriente alterna que estén conectados a su equipo electrónico.

La garantía de \$100,000 de protección de equipo conectado de Panamax es nula si cualquier alambre entrando o saliendo del equipo no está correctamente conectado al protector(es) contra sobrecargas de tensión indicado. El protector contra sobrecargas de tensión también debe ser enchufado a un tomacorriente alambrado correctamente y puesto a tierra. Favor de leer la garantía para detalles o si tiene preguntas llame al departamento de atención del cliente de Panamax.

Puntos importantes de seguridad

Los protectores contra sobrecargas de tensión y el equipo conectado deben estar adentro en un local seco y en el mismo edificio. Aunque su protector Panamax es duradero, sus componentes internos no están aislados del ambiente. No instale ningún producto de Panamax cerca de aparatos que emitan calor tal como un radiador o contador térmico. No instale este producto donde haya humedad excesiva tal como una tina, fregadero, piscina, en el piso de un sótano, pescera, etc.

Es común que un edificio no esté correctamente conectado a tierra. Para proteger su equipo, los productos de Panamax deberán ser directamente enchufados a un tomacorriente CA de 3-alambres con conexión a tierra. Adicionalmente, el alambrado del edificio y conexión a tierra deberán conformarse a los códigos NEC (EEUU) o CEC (Canada) para que la póliza de protección de Panamax sea válida.

No use adaptadores de 2-cuchillas o cualquier otro "cintas de energía" con este producto. Sólo use cables de extensión de Panamax si requiere un cable más largo.

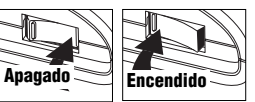
Una nota para instaladores de antena fuera de aire s de televisión, satélite, y cable:

Artículos 810.21 y 820.40 del código NEC provee guías específicas a como conectar a tierra correctamente, y en particular, especifica que el cable de tierra será conectado al sistema de tierra del edificio, lo más cercano a la entrada del cable que sea posible.

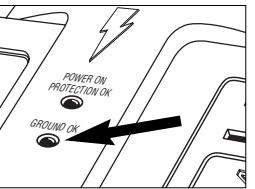
Instalación (CA):

1. Apague todo el equipo que va a ser conectado a la unidad.

2. Asegúrese que el protector esté apagado y que esté en la posición OFF (vea el dibujo). Enchufe la unidad al enchufe en la pared y encienda.



3. Verifique que el LED verde "Ground OK" esté prendido, esto indica que el enchufe en la pared está correctamente alambrado y puesto a tierra.



4. Enchufe el equipo que va a proteger a la unidad Panamax y uno por uno, encienda cada una de las piezas de equipo conectado y vea si están operando correctamente.

5. Apague la unidad y todo el equipo conectado antes de conectar cualquier línea de señal o instalando módulos adicionales de línea de señal.

