

INSTRUCTIONS - MAX® ImagePRO™-EX Series (15Amp and 20Amp)

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, the 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.

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 grounded 3-wire outlet. Additionally, building wiring and grounding must conform to applicable NEC (USA) or CEC (Canada) codes for the Panamax warranty to be valid.

Do not use 2-blade ground adapters with this product. If an extension cord is required, use only Panamax #GEC1410. If your surge protector indicates a Line Fault, do not use the product. Call your electrician to correct the building's wiring.

CAUTION – Do not install this device if there is not at least 10 meters (30 feet) or more of wire between the electrical outlet and electrical service panel.

Power Filtration and Surge Protection for Digital Office Equipment

The MAX® ImagePRO™ EX Series is designed to provide clean power and protect digital office equipment from a variety of undesirable power conditions. Digital components are prone to operating at unacceptable performance levels when exposed to EMI/RFI interference or power fluctuations (surges and spikes). Without the proper protection, digital equipment may experience data loss, lock-ups or even circuit damage. The MAX® ImagePRO-EX series will protect your digital office equipment from a combination of power problems including, normal and common mode EMI/RFI noise interference, ground noise, surges, spikes, and sustained over-voltages.

The MAX® ImagePro™-EX is available in 15-Amp (MIP-15A-EX) and 20-Amp (MIP-20A-EX) models. This includes:

Firewall for Noise™ Circuitry – This technology provides enhanced Neutral-to-Ground Noise Filtration for your digital office equipment. EMI/RFI noise can contaminate the equipment safety ground, which in turn will contaminate the connected digital equipment, and prevent it from operating at peak performance levels.

GFCI Compatibility

This circuit features an improved 2-stage common-mode architecture that provides compatibility for GFCI's and NEC article 250.6.

Firewall for Noise™ - circuitry prevents EMI/RFI noise from contaminating the connected digital equipment through the ground wiring.

Automatic Voltage Monitoring (AVM) –

This power monitoring system acts as a gate to prevent unsafe voltages from damaging sensitive electronic equipment. It automatically detects a prolonged over-voltage and disconnects the power to the connected equipment, then reconnects it when the power returns to a safe level. It even protects the MAX® ImagePro™ unit.

Wiring Fault Safety Shutoff – This technology will detect a miswired wall receptacle or an open-ground by monitoring the voltage between neutral and ground. If an unsafe condition exists, the MAX® ImagePro™ will disconnect the power from the connected equipment.

SignalPerfect™ Telephone Line Protection

Two pairs of RJ-11 phone jacks are available to protect a single-line telephone modem (pins 4,5 protected) with fuseless Auto-Resetting technology and optimized circuitry to ensure a clean, clear signal.

Ethernet LAN Protection – Two pairs of RJ-11/45 jacks are available to protect one Ethernet 10/100 Base-T network connection (all pins protected).

Diagnostic lights -

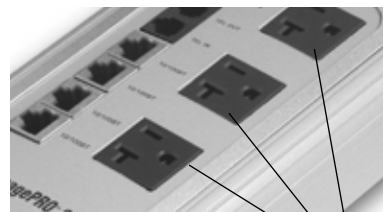
Power ON and Protection OK- (green) normally ON - indicates that the surge protector is functioning properly, power is on, and it is protecting all connected equipment.

Ground OK – (green) normally ON - indicates that the wall outlet is properly wired.

Line Fault – (red) normally OFF - when lit, indicates that the wall outlet is improperly wired.

Unsafe Power – (red) normally OFF – when lit, indicates that incoming voltages are unsafe and the surge protector has disconnected the power to protect your equipment or that there is a wiring fault.

Features



MIP-20A-EX
20 Amp AC configured receptacles

LAN Protection
2 pairs of RJ-45 bi-directional connectors (2 LAN cables included)

Telephone Protection
2 pairs of RJ-11 In/Out connectors (2 telco cable included)

Separate protection circuits for 10/100 BaseT Ethernet and telephone

Three Always-on AC outlets
(20 Amp MIP20)
(15 Amp MIP15)

Unsafe Power Indicator light

Line Fault Indicator light

Ground OK Indicator light

Protection OK Indicator light

Three-stage, GFCI Compatible filter circuit provides high levels of Normal and Common mode EMI/RFI noise filtration

Eight foot power cord

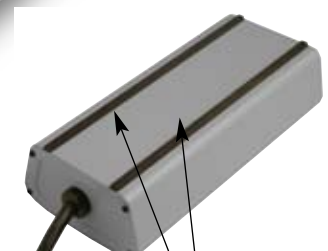


15 amp plug
MIP-15A-EX

20 amp plug
MIP-20A-EX

Wall mountable
(Velcro strips included).

Includes security lock to prevent theft.



Two rubber strips running the length of the product provide a non-slip grip and prevent marring surface.

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Properly Connecting Your Surge Protector

To completely protect your equipment from power 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 get into your system through any AC power or signal line (phone lines, grounding wires, LAN cables, modem cables, etc.) connected to your electrical equipment.

Installation Procedures

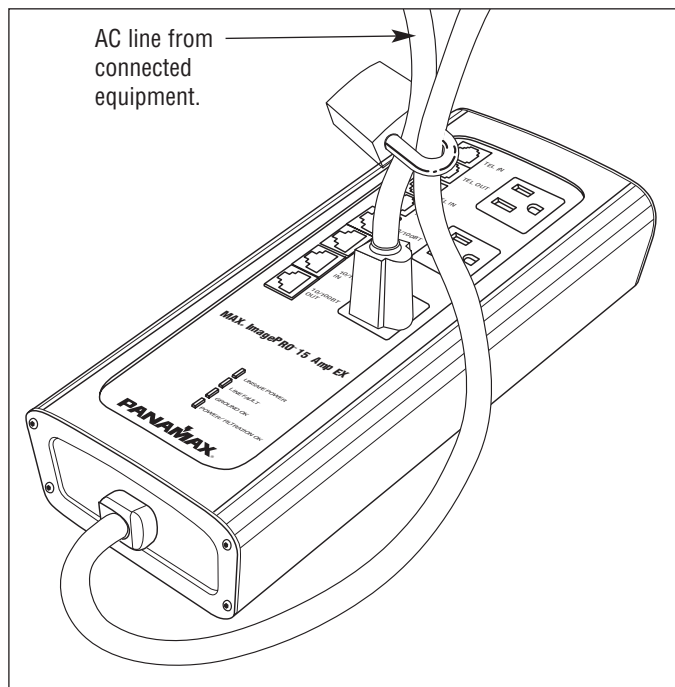
1. Turn OFF the power to all equipment that will be plugged into the unit.
2. Plug the protector into a properly grounded AC outlet.
3. Once proper AC wiring and grounding has been established via a green "Ground OK" light, plug the equipment to be protected into the AC outlets on the unit.
4. Note the position of the IN and OUT jack on the ImagePro™ -EX unit. The IN jacks are for the line connections that come from the wall or floor jack. The OUT jacks are the line connections to your connected equipment.

5. Plug the incoming LAN and/or telephone line into the appropriate IN jack. The line should now be connected between the wall and the unit.
6. Plug the LAN and/or phone cord into the appropriate OUT jack. Plug the other end into the equipment to be protected.
7. One at a time, turn each piece of connected equipment ON and check for power and correct operation.

Security Lock Installation

Security Lock – An equipment-to-protector cord security lock is included with the MAX® ImagePro™. This feature will allow the user to attach and lock the connected equipment's power cord to the protector. This will insure that the protector remains connected to the office equipment, which is a useful tool for ensuring the validity of service agreements.

1. Open the security lock and route both power cords (surge protector and connected equipment) through the hasp.
2. Close the lock around the power cords. Your equipment is now locked to the MAX® ImagePro™.



MAX® ImagePRO-EX PRODUCT SPECIFICATIONS

AC SURGE PROTECTION		TELEPHONE PROTECTION	
Line Voltage.....	120VAC, 50/60Hz	Pins Protected.....	RJ-11/45, pins 4,5
Maximum Current Rating		Protection Modes.....	Metallic & Longitudinal
MIP15.....	15A	Clamping Level.....	260V
MIP20.....	20A	Capacitance.....	30pf (approx.)
EMI/RFI Noise Filtration.....	65 dB (100KHz - 1 MHz)	10/100 Base-T LAN PROTECTION	
Thermal Fusing.....	Yes	Pins Protected.....	RJ-11/45, pins 1,2,3,6
SurgeGate™ Circuitry.....	Yes	Protection Modes.....	All pins to ground
Overvoltage Shutoff.....	146V ± 8V	Clamping Level.....	7V
Protect or Disconnect™ Circuitry.....	Yes		
Single Pulse Energy Dissipation.....	1650 Joules		
Peak Impulse Current.....	52,000 Amps		
Voltage Protection Rating (UL1449 3rd Edition, 3,000A).....	500V		
Protection Modes.....	L-N, L-G, N-G		
Initial Clamping Level.....	200 Volts		
Surge Response Time.....	<1 nanosecond		

CONTACTING PANAMAX

For product and warranty information or other general information, please contact PANAMAX Customer Relations at:

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