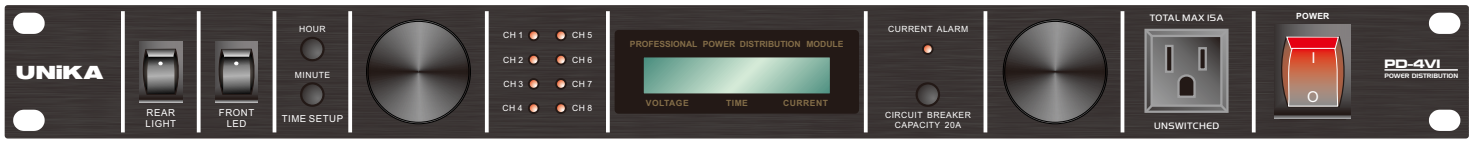
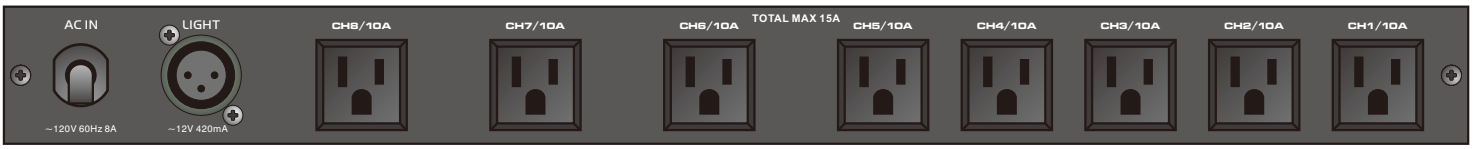
UNiKA
PROFESSIONAL AUDIO

PD-4VI OPERATIONS MANUAL





INTRODUCTION

The PD-4VI provides controlled power sequencing to 8 rear AC outlets. This allows you to control the power up and down sequence in a system to minimize turn-on transients and the damage that they may cause. Sequencing power on also smooths out inrush currents.

The PD-4VI is also a full-featured power conditioner with Advanced Power Filtering, fast acting breaker, as well as surge and spike protection to protect your system. Additionally, a front panel LCD display gives you a constant read of AC line voltage and load current as well as a built in system clock. The PD-4VI is designed to sequence and protect a wide range of equipment from sensitive tube preamps to powered speakers, large displays, or digital systems. Your equipment will sound and work better and live longer.

- 8 individually sequenced outputs with front panel LED indicators for each
- LCD display of AC line voltage, total load current and time (clock)
- Front panel unswitched output
- 1800 Watt total power capacity
- Front panel master breaker and power switch
- Surge and Spike Protection
- 44mm(high) x 482mm(wide) x 284mm(deep)
- 4.8kg

OPERATION

POWER SWITCH

The PD-4VI has a master POWER switch for the rear outlets. This switch glows when the unit is enabled, turning on this switch initiates a power on sequence for the rear outlets. Turning off the switch initiates a power off sequence and the rear outlets are then sequenced off.

CH1-CH8 LED INDICATORS

The CH1-CH8 LED indicators, on the front panel, indicate the current power (on/off) status. If power is available at a rear outlet then it's corresponding front panel indicator will be lit.

LCD

The LCD display on the front panel indicates current AC line voltage and the total load current that the PD-4VI is supplying. It also indicates time of day (in 24 hour format) as set by the hour and minute switches. The clock draws power from an internal battery whenever power is not available.

MAXIMUM LOAD

The eight circuit breaker protected outlets are rated at 15 amps total, which is equivalent to 1800 watts at 110 volts. If the total load on the PD-4VI exceeds 15 amps, the circuit breaker on the front panel will trip, cutting off power to all outlets. If this happens, reduce the overall load by unplugging one or more units from the PD-4VI, then push the circuit breaker button in to reset it.

ADVANCED POWER FILTERING

The PD-4VI has specialized internal circuitry to filter out digital and dimmer hash as well as any high frequency noise that is above the audio range.

By using both Common Mode and Differential Mode topologies in series for the filter design we are able to block virtually all of the unwanted noise that is between the AC line and ground, and also the two sides of the AC line. This has the additional benefit of reducing ground loop problems in your system.

High frequency noise currents in particular are highly attenuated in both directions so that any line noise that could be generated by one of your components is not allowed to get back into your main AC wiring, so if you use a PD-4VI in your setup, you can distribute and isolate the noisy components from the sensitive components in your system. Additionally, any signals above 10kHz are filtered from the line with typically 40dB of attenuation above 100kHz.

The PD-4VI also protects your delicate electronic equipment with high voltage varistor (MOV) surge and transient suppressors. The fast-acting suppression circuit responds in less than a nanosecond, clamping transient voltages to safe levels.

⚠ WARNINGS

All operating instructions should be read before using this equipment. To prevent the risk of electrical shock, do not remove the cover or the back. There are no user-serviceable parts inside. Please refer servicing to a qualified service technician. Do not expose this unit to rain or moisture or to heat sources such as radiators, stoves, or other items that generate excessive heat. This unit should be cleaned only with a damp cloth. Do not get moisture inside the unit. When moving this equipment, it should be placed in its original carton and packing, to reduce the risk of damage in transit.