

## GENERAL INSTRUCTIONS

Using the RAP 10 is as easy as it looks. Connect the red outputs of the RAP 10 to the red input jacks on the products to be powered using the supplied 6-wire modular connector cables. The POWER switch controls all units powered from the RAP 10. Power is applied immediately upon power switch closure - there is no time delay power-up sequence.

### MOUNTING THE RAP 10

Normally the RAP 10 is mounted below the Rane equipment, and (better) toward the bottom of the rack. (Alternatively, mount the RAP 10 at the very top of the rack, and leave several blank spaces between it and other units.) This allows sensitive mic level products to be mounted away from the RAP 10 hum field. If there are any blank panels, always locate them between audio equipment (or other hum sensitive units) and the RAP 10 for the most hum-free performance. Additionally, create as much ventilation space around the RAP 10 as possible. This is not critical, it is just good practice. When fully loaded, the RAP 10 requires unrestricted airflow for proper cooling.

### POWER SUPPLY CABLES

Each RAP 10 is shipped with (10) 6-wire modular plug power supply cables. Additional power supply cables are available from the factory or your dealer. Two lengths are offered, either 24 inches (package of 4), or 6 feet (package of 3). Please specify a length when ordering.

### CUSTOMIZING POWER SUPPLY CABLE LENGTHS

Rane makes available a Mod Cable Connector Kit for customizing cable lengths for each installation. This kit consists of a modular connector crimping tool (manufactured by AMP, Inc.), plus (25) 6-pin modular connectors. Cutting and crimping a new mod connector takes about 60 seconds.

*6-wire cable and modular connectors must be used for all interconnection. Common 4-wire cable and connectors will not work. Do not substitute 4-wire for 6-wire cable and connectors.*

### NOT ENOUGH CURRENT

Each output of the RAP 10 is rated for a continuous current output of 650 mA. If more than 650 mA is required, and you have an unused output, the issue of paralleling arises. Paralleling of outputs *is* permitted with the RAP 10. A cute trick that makes this easy is to use a *6-wire* wye-adapter (also called T-connector, duplex jack, dual modular phone coupler, etc.). Plug the single male end into the unit to be powered, and run two *6-wire* cables from the duplex female side into two channels of the RAP 10. This doubles the available output current from 650 mA to 1.3 A.

### TOO MUCH CURRENT

Sometimes you may be tempted to try and power two units from one output of the RAP 10. If the total current demand of both units is less than the 650 mA output current, this daisy chaining (running power out of one unit into another) temptation becomes unbearable. *In general, avoid daisy chaining of power supplies.* Daisy chaining of power *only works between units interconnected by fully balanced techniques* There can be no signal ground connecting daisy chained units. *Failure to follow this rule results in hum due to an unbreakable ground loop caused by the common power supply path.* Life is simpler if you just say no.

### RESETTING TIME

The RAP 10 is protected by solid-state current and temperature sensing devices that reset automatically. This automatic resetting takes approximately 15 minutes depending upon the nature of the overload. *If power is lost on an output, disconnect the power cable and wait at least 15 minutes before reconnecting the cable.* Meanwhile try to find out why the unit demanded excessive current (Cable short? Unit failed? Other?).

**CAUTION: THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED PERSONNEL ONLY. TO AVOID ELECTRIC SHOCK DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO. REFER ALL SERVICING TO QUALIFIED SERVICE PERSONNEL.**