

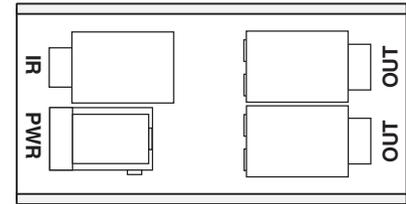
# INSTALLATION INSTRUCTIONS

## CB20 CONNECTING BLOCK

The Model CB20 provides a low cost means of connecting Xantech "Quick Connect" IR Receivers to two single or two dual emitters and a power supply in an infrared repeater system.

### FEATURES AND SPECIFICATIONS

- Inputs: 1 - IR Receiver "IR" 3.5mm stereo mini jack. Accepts any Xantech IR Receiver equipped with a 3.5mm stereo mini plug, such as the 291-00 and 490-30.
- Outputs: 2 - Emitter "OUT" ports (3.5mm mono mini jacks) parallel driven.
- Contains a 470-Ohm resistor in series with each OUT jack.
- Model 282, 283, 284 & 286 Xantech Mini Emitters may be used.
- Power requirements: 12 volts DC. Uses 781RG Power Supply.
- 2.1mm coaxial power jack.
- Dimensions: 2-1/8" x 1-1/4" x 3/4"



CB20 Connecting Block

**CAUTION:** Plug only Xantech IR Receivers equipped with a stereo mini plug into the IR jack. Do not plug emitters or other devices into this jack; to do so will destroy emitters and damage power supplies!

### INSTALLATION

The following diagram illustrates a typical installation using the CB20 in an IR repeater system. In this case a 490-30 Micro Link™ IR Receiver is used to control four pieces of A/V equipment in a cabinet behind closed doors. When connecting a system, follow this diagram carefully:

The OUT ports are driven in parallel with a 470 Ohm resistor connected in series with each port. The resistors ensure proper current sharing to each emitter. Because of this current sharing feature, you may connect any combination of Xantech emitter models in the 282, 283, 284 & 286 series (as well as the 286M shown in Fig.2) to drive the desired number of devices (up to a maximum of 2 dual emitters).

**NOTE:** Be sure the 781RG Power Supply is plugged into an un-switched AC outlet. This maintains the system in "stand-by" operation so that power-ON commands can be sent to the controlled equipment.

