AC-2
Operating/Installation Instructions

The AC-2 provides a 15 amp. switched 110vac outlet. This outlet can be used to provide power to amplifiers, sub-woofers, screens, and many other devices. When the AC-2 in NOT active, there will be no power on the AC-2s switched outlet. **Do not use the AC-2 for equipment which requires power continuously.**

The AC-2 DOES NOT have any surge suppression or EMI/RFI filtering circuits. If surge suppression is required, plug the AC-2 into an approved suppression system.

The AC-2 can be mounted in any position utilizing the four mounting holes.

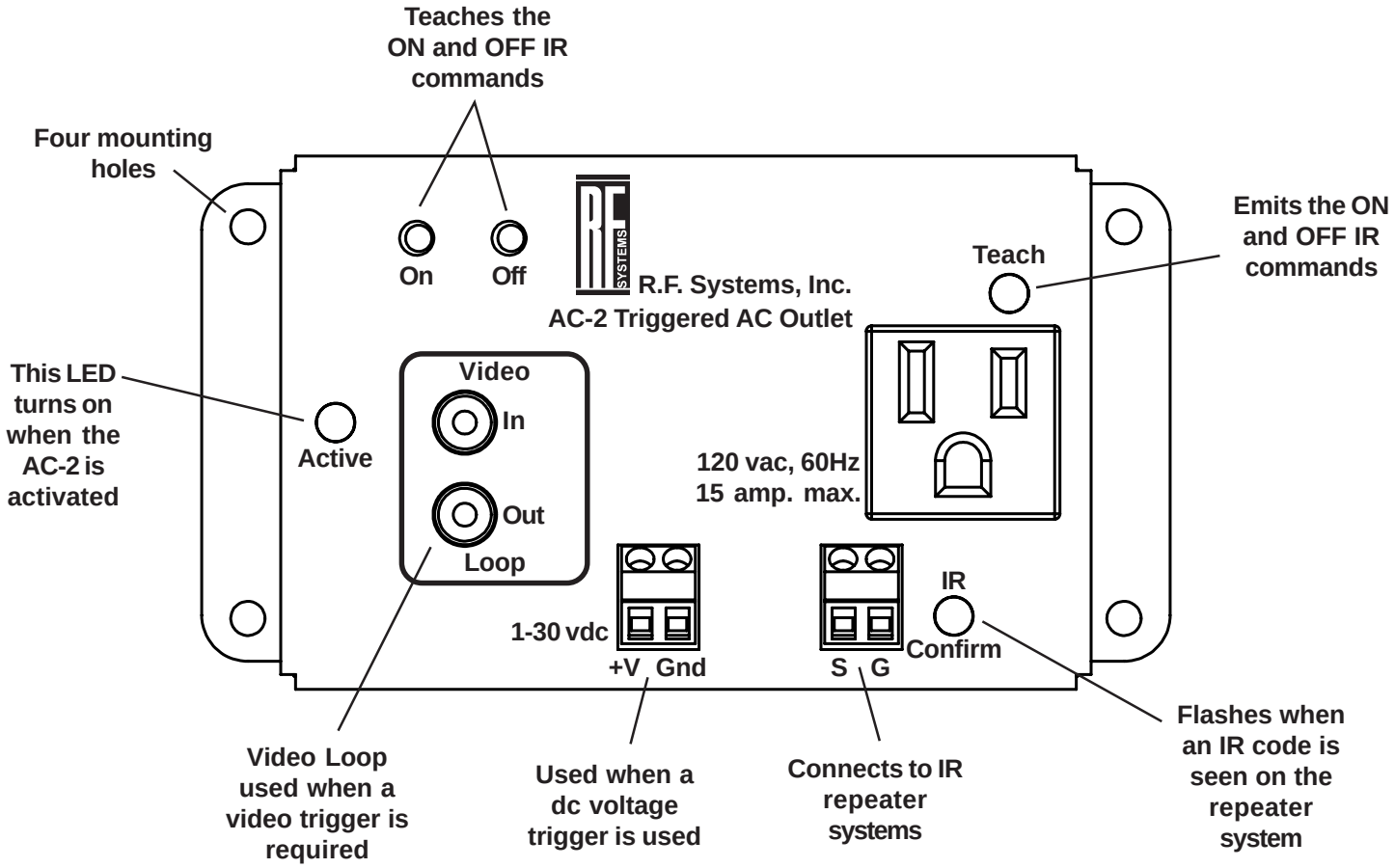
The power cord must be plugged into a grounded outlet for correct operation and safety.

Connections

The AC-2 has two terminal blocks which connect to external trigger sources.

For dc voltage triggers the +V terminal is connected to the positive trigger voltage. The GND terminal is connected to the ground or return of the trigger voltage. The dc trigger has a 10k impedance. At 30vdc the AC-2 will draw 2.5mA. At 12 vdc the AC-2 will draw 0.7mA. The AC-2 does not feature any time delays for the voltage trigger. Turn on and off is within 0.1 seconds of the trigger changing state.

For infrared operation of the AC-2, the S terminal is connected to the signal line of the IR repeater system. The G



terminal is connected to the ground signal of the same IR repeater system. For proper operation, the IR signal must be at least 3 volts when transmitted by the repeater system. If the AC-2 is the only item on the repeater, the included 470 ohm resistor must be placed between the S and G terminals. This will provide proper load for the IR sensors.

The video trigger features a high impedance loop. The AC-2 will have no effect on the video signal passed through and it is un-buffered. The AC-2 looks for valid horizontal sync pulses on the video signal to determine the presence of the signal. As a result the AC-2 will trigger on black burst video signals. To connect the video trigger connect the source video signal to the IN video connector. The OUT video connector is then wired to the equipment requiring the video signal. If the OUT video connector is not to be used, a 75 ohm terminator must be placed on the connector for proper operation of the AC-2. This terminator can be ordered under part number TERM75RCA.

Operation

The AC-2 has four trigger mechanisms. When a particular trigger is used, the other three will be locked out.

As an example, if the AC-2 is triggered by an infrared command, the video and dc voltage triggers become unusable until the AC-2 is turned off by an IR command. If the AC-2 is triggered by a video signal, the IR commands will not operate the unit until the video signal is no longer present.

Both the video trigger and the dc voltage trigger must be off in order for the IR command to operate the AC-2.

Teaching the IR commands

To teach the AC-2s IR commands to a learning device, simply press the ON or OFF buttons while the learning device is placed above the TEACH emitter. Distance from the emitter will range based upon the learning device and experimentation may be required with some learning products. Also orientation of the learning device may require experimentation for optimum response to the AC-2s commands.

Once learned, the AC-2 can be turned ON or OFF with descrete commands.

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