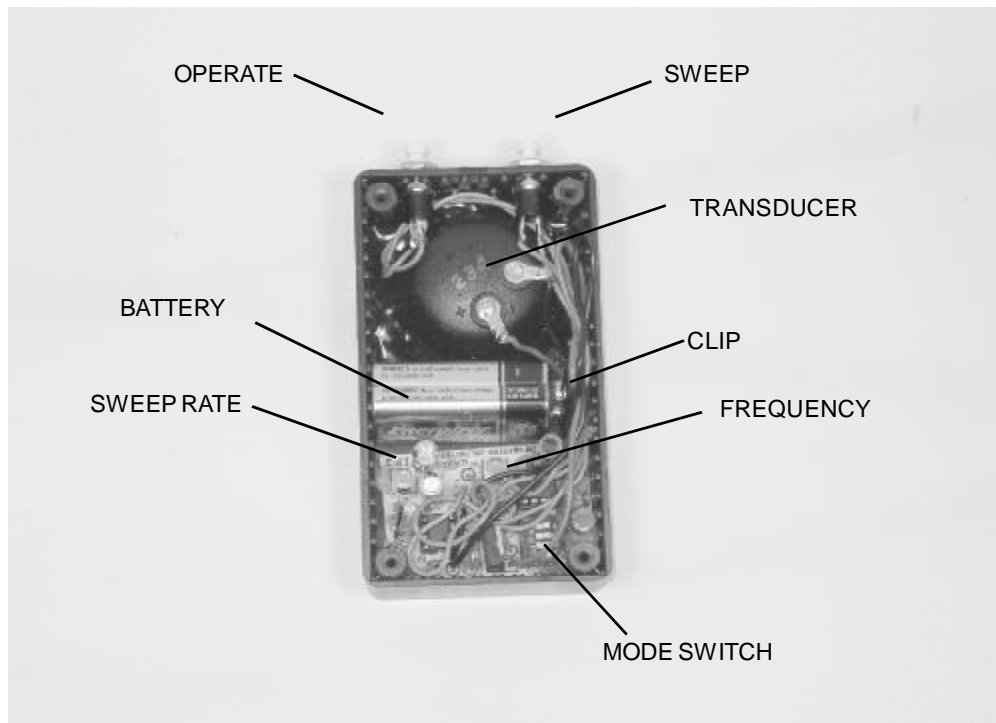


# IPG90/MUT90 Operating Instructions

Operation of this unit involves simply pointing it in the problem area and push the “operate” switch. An immediate effect should be noticed by the target. The range of the unit depends on the acoustical sensitivity of the target. Sonic energy will reflect when used inside of a small room reducing the directional advantage.



Rear view with cover removed

1. Remove rear cover via four screws. Insert a 9 volt alkaline battery into clip and position clip so leads are on top. Dress leads to clear cover.
2. Reinstall cover and verify operation using a test subject. **Verify the sweep switch that when pressed with the operate switch causes the frequency to vary in pitch as long as it is pressed.**

## Notes on internal adjustments:

You will note that there are several adjustment inside of the unit as identified as mode switch, sweep rate and frequency. **The only adjustment recommended by the non qualified user is adjustment of the sweep rate control. Note it is factory set at mid range and is at a medium rate. The range of adjustment is a very fast chirping sound to a slow rise and fall taking 5 seconds.**

Standard factory units for the IPG series are set at 12 kHz center frequency indicated by the mode switch section 2 set to “on” and other sections set to “off”.

Standard factory unit for the MUT dog control series is set to 17 kHz center frequency indicated by the mode switch section 1 “on” and the others “off”

A special requested setting of 25 kHz is available by setting the mode switch sections 1 and 3 “on” and the others “off”. These higher frequencies are often required for insect and small animal research.

Any re-selections of the mode of operation will require a scope to retune the frequency adjustment and must be done by a qualified technician. The frequency adjust is set for a maximum voltage wave form across the transducers terminals at the selected mode.

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