

# **PANTHER FIRE C.A.T. SYSTEM**

## **PORTABLE IN BAND REPEATER**



The Panther Fire C.A.T. System is the ultimate Portable In Band Repeater. It features ICOM 2-way Radios that are configured as a full duplex Repeater.

A unique ventilating system allows the repeater to be operated with the case cover closed. The air intake is located under the Receiver Radio. The exhaust vent is located in the case cover over the final amplifier cooling fins; this opening is protected by a louvered ventilator. The cooling fan is mounted directly under the Final Amplifier Cooling Fins of the Transmitter Radio to provide airflow during the operation of the Repeater. This fan is activated when the Repeater Enable Button is depressed and runs continuously until the Repeater is de-activated. A built-in Battery Condition Indicator continuously monitors the level of charge 15 Amp Hour Internal Battery. When the Internal Battery reaches 66% discharged, a graphic indicator display indicates this with an audio beeper signal and flashing L.E.D. The Beeper can be silenced, but the flashing L.E.D. cannot be turned off. When the repeater is powered on an alternate power source the flashing L.E.D will extinguish indicating, that the Fire C.A.T. System is on auxiliary power

and the internal battery is being charged. The Fire C.A.T. System can be carried using an optional shoulder strap or a carrying handle. The cover provides an efficient ground plain and the ability to use ¼ Wave Antenna or Heliac Antenna (Portable Radio Antennas). Removing the Antennas will allow the connection of Coaxial Cable to the system with a conventional PL-259 Connector. The case cover is very unique since it has a detent that opens to 20 degrees allowing access to the radios while being carried. When the case is closed the Antenna is again placed in a vertical position.

A six-cavity duplexer is located in the Water Resistant Case providing self-contained operation at remote locations. If the repeater is to be used as an emergency back up to a disabled repeater the duplexer can easily be disconnected and the antenna combining system can be connected in it's place.

Auxiliary power can be provided to the Repeater from an external 12 Volt source or a 120 Volt source which will power an external 12 Volt power supply to operate the Repeater and charge the battery. A cigar lighter cable will allow the repeater to be powered from a 12 Volt vehicle.

The ICOM Radios are available in Low power VHF- 35 watts and UHF 25 watts with up to 32 Channel capacity or High Power VHF 50 watts and UHF 45 watts with up to 256-channel capacity.

Specifications subject to change without notice 06-20-03

Patent applied for



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