

UK/PRC350 Clansman VHF/FM Manpack

The UK/PRC350 can operate on any one of 841 channels spaced at 25 kHz intervals in the 36 to 57 MHz band. The desired frequency is set by four knobs on the side of the case which can be operated even while the operator is wearing Arctic mittens, or in the dark by counting clicks from the end-stops.

Having set the four frequency control knobs the operator has then to set the only remaining control, the system switch, to one of its four positions: off/whisper/loud/noise-on. In the whisper position the audio output to the phones is reduced by a factor of about 10 and the microphone sensitivity is increased by about the same amount. This position is used in situations close to the enemy where a minimum amount of noise is desirable. The loud position enables the set to be used in conditions of high ambient noise levels, such as may be encountered in active service. Noise-cancelling microphones can be supplied for use in these conditions. In the noise-on position the squelch or muting circuit is disabled and receiver noise is heard in the absence of a signal. This means that the position can be used to confirm that the receiver is still operating if a message has not been received for some time.

The ancillaries include a terylene harness for carrying the set on the hip or back, manganese-alkaline batteries capable of operating for up to 12 hours or rechargeable Ni/Cd batteries with a life of

9 hours (at a 1:9 transmit/receive ratio), and selected battle antennas. Normally the .2 m whip antenna is used and a rotating mounting socket on the set enables the rod to be rotated through 90° when the operator is lying down. The headset and handset provided with a complete station can be connected to the set at the same time to enable an officer or second operator to monitor the circuit.

Status

Part of the Clansman programme and in service with the British Army. Also sold to a number of other armed forces.

Technical Specification

Mode: F3E, narrowband FM at 5 kHz deviation

Service: single-frequency simplex

Power output: 2 W

Power supply: 15 V primary battery 12 h life at 1:9 TX:RX. Alternative rechargeable battery available

Temperature range: -40 to +55°C (plus temperature rise due to solar radiation falling directly on equipment for 6 h/24 h equivalent to 1130 W/m² when perpendicular)

INCL BATTERY

Height: 267 mm

Width: 142 mm

Depth: 70 mm

Weight

incl whip antenna: 3.1 kg

Operational Specification

Complies with relevant clauses of DEF-133, L3

Manufacturer

Racal Radio Ltd, Reading.