



UHF transceiver Country of origin: England

DATA SUMMARY

Organisation: GCHQ, England.
Design/Manufacturer: Unknown.
Year of Introduction: Estimated late 1950s.
Purpose: Agents communication.
Frequency: Unknown, possibly between 1 and 2GHz.
Power Supply: Separate AC mains power unit.
Size (cm): Height 10, Length 12, Width 17 (An estimate of the transceiver unit dimensions.)
Accessories: Corner reflector aerial assembly, handset, interconnection cables.

References:

- Photograph and information was kindly provided by Detlev Vreisleben, DC7KKG, Germany.
- Photograph S-Phone suitcase courtesy Mike Willenbroek, Holland.

REMARKS

This unknown type point to point agents UHF transmitter-receiver (hence the temporary name 'UHF radio') was captured in the GDR, believed in the late 1950s. Apart from a photo, no further details have been found so far. The caption above the original photo read (in German) 'Sende- und Empfangsgerät im Decimeter-Bereich'. (Transmitter and receiver operating in the UHF band). Considering the choice of components: plugs, sockets and handset, it is obvious that this set was developed and built in England. Looking at the construction of the corner reflector aerial, it most likely comprised two separate dipoles, placed one above another - considering the off centre position of the feed in the photo- with a common reflector. The actual application of this set would be cross border communication with the 'home' set at an elevated point. We can only guess on the operating frequencies of this set, which was possibly in the 1GHz to 2GHz range.

S-Phone suitcase.

It may be speculated that the design of the UHF-transceiver was inspired on the S-Phone Suitcase which operated as a ground to ground station. The non-portable S-Phones had a separate receiver and transmitter aerial and only a receiver tuning control, allowing full duplex communication. For a good ground to ground range, a free line of sight was essential.

