



VHF transmitter hidden in a radio

Country of origin: Germany W

DATA SUMMARY

Organisation: BND*.

Year of Introduction: Unknown, believed early 1980s.

Purpose: Agents communication to orbiting satellites.

Transmitter:

Circuit features*: Fully transistorised. VHF oscillator with PLL synthesiser circuit, FSK modulator, driver stage and RF power amplifier.

Frequency range*: VHF.

RF output*: 1-3W.

Power Supply: Derived from the existing radio AC mains power unit.

Size (cm)*: Height 10, Length 28, Width 20.

*Not confirmed and only an estimate or suggestion.

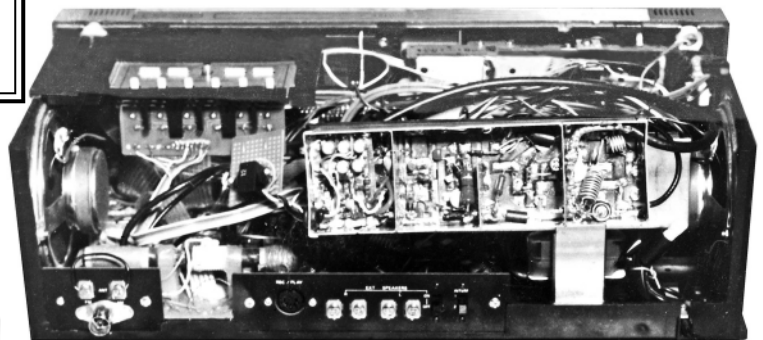
REMARKS

Not very much is known of this VHF transmitter hidden in a Japanese radio cassette player/recorder, used for agent communication to orbiting satellites.

Considering the components in the transmitter unit it is believed that it comprised a VHF oscillator with PLL and synthesiser, FSK modulator, driver and RF power amplifier with an output of a few watts. It was suggested, though not confirmed, that the compact cassette player might have been used as high speed keyer.

Photographs of the hidden VHF transmitter described in this chapter came from the former East German MfS archives. Unfortunately no written information of technical details, country of origin and date of possible capture could be retrieved.

It is believed that the complete set was constructed for the BND in West Germany.



VHF transmitter hidden in a radio-cassette player/recorder with its outer case detached.

Above: metal screen cover of the transmitter removed.

Left: transmitter module (1) and interface unit (2).



References:

- Photographs and information courtesy Detlev Vreisleben, DC7KG, Germany.
- Documents MfS-HA IV-Fo-1193, pictures 0001 to 0003.