

31220

(GDR bugs VIII)

Country of origin: GDR

REMARKS

The 31220 was a fully transistorised UHF FM receiver developed and produced in 1967 by PGH Funkmechanik (PGH = Productions genossenschaft des Handwerks), in Freiberg, GDR. It was used for reception of covert wireless bugs operating in the frequency range 360-400MHz. (Band IV). An example of a band IV bug was the 31211, published in Chapter 124.

For covert operations the receiver was carried in a pocket on the body, tuning and on/off switching was by a small remote control unit held in the hand and connected to the receiver via a multi core cable.

Three AF outputs were available: headphones, tape recorder and a 29-35kHz pass-band for an external dual-FM decoder. When stationary, the receiver could operated from another location via the 31212 remote control system, (see Chapter 125) superposed on a standard subscriber telephone line. The 31220 was principally a later produced follow-up of the 31210 (see Chapter 123), physically almost identical and basically differing in the addition of a scanning function board. Both 31210 and 31220 were superseded by 31215 (Chapter 126) operating in band V.

Considering that the 31220 was an update, it can be assumed that the block diagram was similar to that of the 21210 (see Chapter 123), with the exception of the later added scanner board.

DATA SUMMARY

Organisation: MfS, Abt. 26, GDR.

Design and manufacturer: PGH Funkmechanik, Freiberg, GDR. (PGH Frb).

Year of Introduction: Around 1969.

Purpose: Receiver for Band IV bugs.

Receiver: Double conversion superhet, variable tuning by means of varicaps. IF: 36MHz and 10.7MHz. Wideband FM. Scanning function.

Frequency coverage: 355-400MHz. (Band IV which actual range was 360-400MHz).

Aerial: Quarter wave rod or directional aerial.

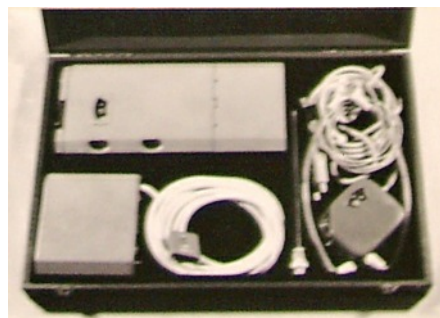
Power Supply: Rechargeable 6V 450mAh NiCad battery. Drain 35-40mA. 220V AC charger/adaptor.

Dimensions (mm):	Height	Length	Width	Weight
Receiver	125	30	100	650g
Battery	35	30	100	200g
Remote control	70	60	30	200g
Battery charger	80	30	100	600g

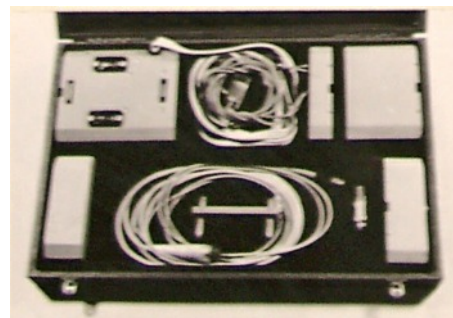
Accessories: Rechargeable batteries, battery charger/AC mains adapter, vehicle adapter, remote control unit, aerial, earphones, tape recorder connector, all carried or stored in two cases. (See illustrations right).

References:

- With thanks to Detlev Vreisleben, DC7KG, Germany for taking excellent photographs and scans, and providing further technical and historical information.



Transport/storage case with basic units: receiver with battery, AC mains battery charger and control unit.



Second transport/storage case containing spare batteries, AC mains power unit, charging adapter and vehicle adapter.