



31215

(GDR bugs IV)

Country of origin: GDR

DATA SUMMARY

Organisation: MfS, Abt. 26, GDR.

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

Year of introduction: Around 1978.

Purpose: Reception of wireless 'bugs' operating in band V.

Receiver:

Frequency coverage: 940-980MHz. (Band V).
Wideband FM only. AFC tracking ± 3.5 MHz. AF range 0.15-8kHz. No further technical information known.

Power Supply: Nominal 12V @ 40mA. Normally taken from a battery cassette with 8 AA batteries; 12V vehicle adapter; AC mains power unit.

Size (cm): Height 3, Length 15, Width 10 (An estimate of the main unit dimensions.)

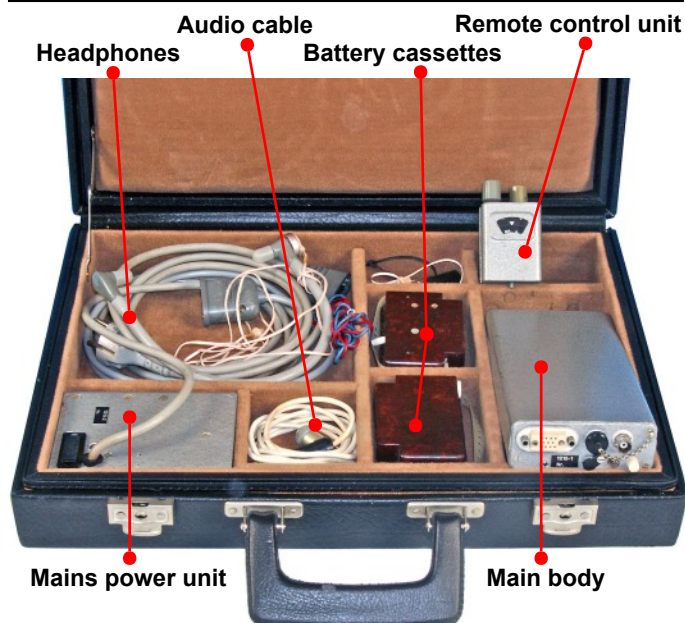
Accessories: Aerial, batteries in cassette, mains power unit, 12V vehicle adapter, headphones, audio connectors. (See below.)

REMARKS

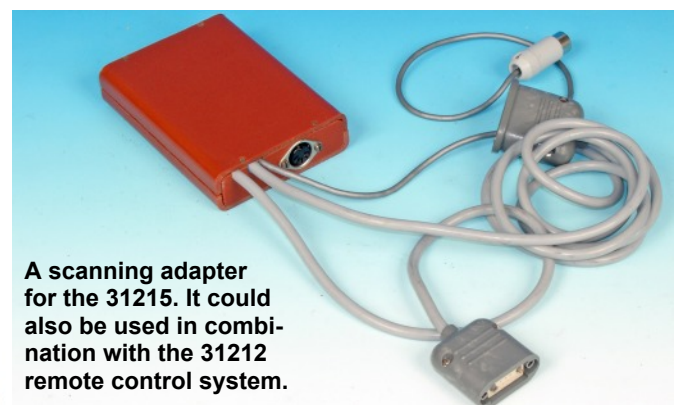
Type 31215 was a UHF FM receiver used by the East German MfS, Abt. 26 for receiving UHF 'bugs' operating between 940 - 980MHz (band V). It was developed and produced by PGH Funkmechanik (PGH = Produktionsgenossenschaft des Handwerks), in Freiberg, GDR.

The receiver had a wide IF band-pass and an AFC with a large tracking range to follow the free running oscillator of a bug.

The main receiver body 31215-1 had a plug-in control unit 31215-4 which was normally plugged into on the front panel, or used as a remote control worn in the hand and connected to the receiver via an extension cable. A battery cassette containing 8 AA batteries was plugged into the back of the main body. Alternative power sources were an AC mains power unit 31215-2, and a 12V vehicle battery adapter. Remote control over a telephone line required additional (e.g. 31212) local and remote equipment. (See Chapter 125). A later variation of the receiver body known as 31215-14 had an extra module 31085-1 to enable reception of bugs where the microphone audio was modulated on a sub carrier of 24 kHz whilst the main carrier was modulated with 25Hz, a system known as 'Andromeda II' which was developed in Bulgaria. This system was primarily used when a bug was placed near the border to deceive reception in West Germany. This module was first added in the 1979 production and known to be fitted as a modification in earlier produced 31215-1 receiver bodies.



Receiver 31215 and accessories in an attache case.



A scanning adapter for the 31215. It could also be used in combination with the 31212 remote control system.

References:

- With thanks to Detlev Vreisleben, DC7KG, Germany for taking excellent photographs and providing all further technical and historical information of the 31215 receiver and accessories.

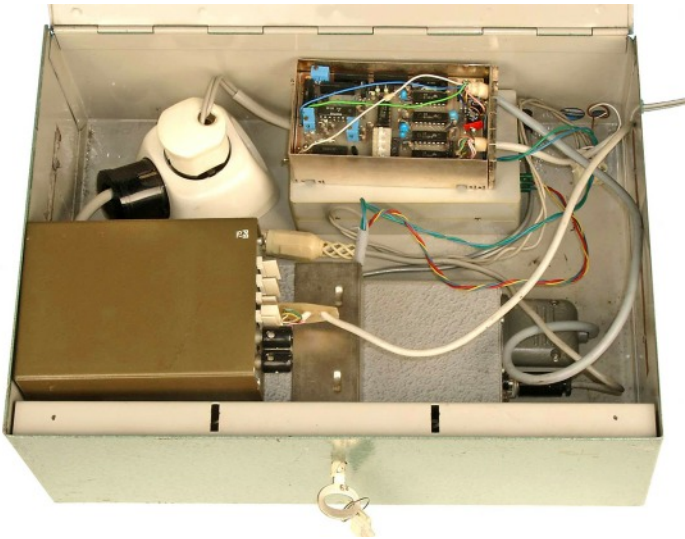


Top view of 31215-1 main receiver body and 31215-4 plug-in remote control unit. (above)

General view of 31215 receiver with battery cassette (in front of receiver) and a 12V vehicle battery adapter (below).



AC mains power unit 31215-2.



31215 receiver main body with interface unit and remote control equipment 31227 (local unit shown left on top of the receiver body), built into a metal cash box. The control line was connected to a standard telephone subscriber line. See also Chapter 125.

