



KE 7108 Country of origin: GDR

**DATA SUMMARY**

**Organisation:** MfS, HA III, GDR.  
**Design/Manufacturer:** MfS, OTS Abt. 33, GDR.  
**Year of Introduction:** 1983.  
**Purpose:** Scanning receiver for Citizens Band (CB).  
**Receiver:** Double conversion superheterodyne.  
**Frequency range:** 26.005 - 29.995 MHz.  
 10kHz channel spacing. (399 channels).  
 Fine tuning ± 2.5kHz.  
**IF:** 10.7MHz and 455kHz.  
**Sensitivity:** 2µV at 12dB sinad.  
**Operating modes:** AM and FM.  
**Scanning:** 30ms/6s per channel.  
**Aerial:** 50 Ohm BNC socket.  
**Power supply:** 220V AC mains or external  
 12V rechargeable accumulator at 4A.  
**Size (cm):** Height 21, length 46.3, width 47.1  
**Weight:** 25kg.

**Remarks**

Empfangskomplex KE 7108 was developed for automatic surveillance of Citizens Band (CB) radio channels. The self contained receiver was basically a very advanced scanner with a built in automatic cassette tape recorder. A number of features, seen on commercial scanning receivers such as the American Bearcat series, were implemented in its design. Control of the receiver was by a microprocessor with CPU type U 880 (a copy of the Z80). Apart from manual selection of a channel, in automatic mode the scanning speed was fast 30ms, or slow 6s per channel. In fast mode all 399 channels were scanned in 12s. Five primary units were contained in the mounting rack: receiver, microprocessor board, display/buttons, cassette deck and power supply unit. For servicing a number of boards could be turned 90 degrees. The receiver unit was a GDR development fitted in a fully RF screened compartment. Apart from automatic recording, the received signals were made audible by an internal loudspeaker, or via a socket to an external speaker or headphones. When an external 12V accumulator was connected, the receiver functioned uninterrupted during mains cut out.



Top view of KE 7108 with covers detached.



Official ceremony of handing over a batch of KE 7108 receivers to HA III.

**References:**

- Photos and information courtesy Detlev Vreisleben, DC7KG, Germany.
- OTS document: Technische Betriebsanleitung zum Empfangskomplex KE 7108, DDR, 1983.