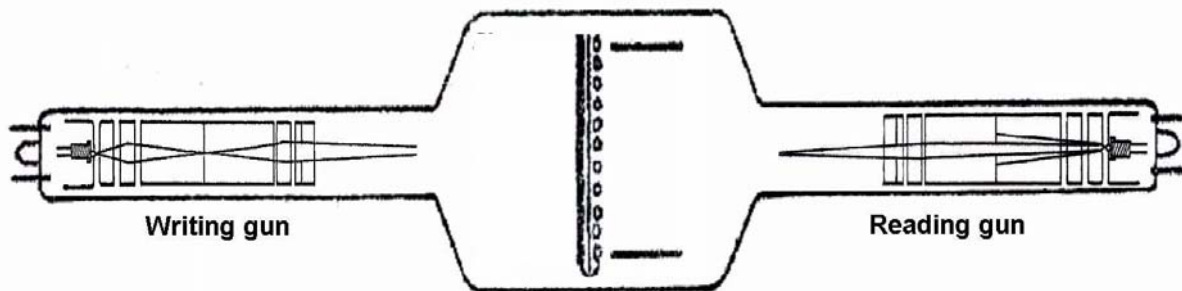


## TM8804 / TMA506 - Scan Converter



Scan converter tubes were widely used in radar display systems, to convert the PPI presentation into a TV raster, so to transfer images to standard TV monitors and tape recorders. The scan converter consisted of a CRT and a camera tube mounted in the same glass bulb, the target on which the image was formed being placed in the center. Of course there were two electron guns, two focusing systems and also two deflection systems totally independent from each other. For each gun deflection could be magnetic or electrostatic or even magnetic at one side and electrostatic at the opposite side, depending upon the specific application.



- The above drawing represents the internal arrangement of the two electron guns, with the memory target in the middle. The TM8804 / TMA506 operates with deflection coil assemblies on both necks.

This sample is compact and lightweight, probably intended for airborne applications. No data available for the specific type, but other tubes of the same size and from the same manufacturer were rated for a resolution of 140 to 180 PPI range rings, about 1.000 TV lines. Storage time of some tens of seconds could be expected.