

Talk, Hear, See on This Phone

(Continued from page 28)

light flickerings in a powerful neon-filled tube.

In front of the neon tube is a disk that duplicates the transmitting scanning disk both in number and arrangement of holes and in speed of rotation. The flickering light beams passing through the holes in the receiving or "scanning" disk build up a complete image eighteen times a second. It is as if a continuous string of rapidly moving pencils passed by the vision screen and each one drew a single horizontal slice of the picture. The detail or sharpness of the image depends on the number of holes that make up the spiral of the disk and the speed at which the disk rotates. In the two-way demonstration the disk rotates rapidly enough to produce a detail about equivalent to that of a rough newspaper picture. The super-sensitive photo-electric cells make it possible to use a relatively weak beam of light for scanning; which is, of course, less annoying to the sitter than the intense light previously used.

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