



### SPECIFICATION

Television Receiver for vision and accompanying sound from London or Midland Transmitter for A.C. mains, 200-250 volts 50 cycles.

### CIRCUITS

A super-heterodyne circuit is used for sound and vision. The circuit arrangement consists of one R.F. stage followed by a triode heptode frequency changer, these two stages being common to both sound and vision. For the sound receiver these are followed by one intermediate frequency amplifier, a double diode used for detection and interference suppression, and a beam power output valve feeding an 8" speaker giving adequate volume and high quality reproduction. After the frequency changer the vision signal is amplified by two intermediate frequency amplifier stages followed by a diode detector and video amplifier. The whole of the vision receiver is carefully designed to reproduce not only the finest detail of the transmitted picture but also the full tonal range, the result being a picture of outstanding quality.

The scanning circuits consist of a double diode synchronising filter, thyatron sawtooth generators and amplifiers for both line and frame scans. These give a picture having a minimum of geometric distortion together with very stable operation. An adjustable limiter is fitted to the vision circuit to enable interference from motor-cars and other sources to be minimised. Focusing is done by a permanent magnet and requires no adjustment by the user. The twelve inch Cathode Ray Tube gives a picture 10" x 8".

### VALVES

**6F12.** R.F. amplifier, Vision I.F. (2), Video amplifier, sound I.F.

**6C9.** Combined frequency changer and oscillator.

**6D1.** Vision detector, vision limiter.

**DD41.** Sync. filter, sound detector and noise suppressor.

**Pen 45.** Sound output, frame scan amplifier.

**T41.** Frame scan generator, line scan generator.

**Pen 46.** Line scan amplifier.

**U403.** Line scan damper.

**UU8.** H.T. rectifier.

**U24.** E.H.T. rectifier.

**CRM 121.** Cathode Ray Tube (12 in.)

### CONTROLS

The three knobs on the front are for—left to right—Brightness, Contrast, Volume ON/OFF.

The six pre-set controls are—left to right—line hold, frame hold, line linearity, frame amplitude, R.F. sensitivity, vision limiter.

**SIZE:** 36" HIGH, 18½" WIDE, 22" DEEP. **CONSUMPTION:** 190 WATTS

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V 120

**murphy television**



## tempering the wind . . .

“**Y**ES your best set is wonderful—wonderful,” people say to us. “But nearly £100—whew! When the income tax people have had their whack from us . . . well, you know what a shorn lamb looks like. Can’t you make a set cheaper, but just as good?” The honest answer is “No, we can’t.” Something will have to be sacrificed to bring price down. But what? The quality of vision or sound? The reliability? Definitely not. The cabinet? Yes, we could do without doors. But we’ll have no truck with cheap woodwork. And . . . and so on. Little economies here and there. Using our experience gained in making the circuits and chassis of other sets to pare down production costs. Adding new things too. Yes! The V120 isn’t the old “works”

in a new suit. It stands on its own, in a class of its own. Not so magnificent as our best set—but extraordinarily good value at the price.

### what is the result?

The V120 has a lot of features you won’t find in other makes of set at a similar or even a far higher price. A large size screen for one thing, 10” wide by 8” deep. Automatic focus for another. Focusing the picture on most sets is a matter of very carefully twiddling a knob until every one agrees it is “just right”—or some one says “Let me do it.” In the V120 a permanent magnet does it for you and keeps the picture in focus *all* the time. Then there is a vision interference limiter. This goes a long way towards eliminating those irritating “snowstorms” caused often by electrical interference from passing cars. What else? Those very important features that make all the difference between a good set and an outstanding set. A picture very sharp in detail and with a full tonal range. A steady picture. The minimum of distortion. And first-class sound reproduction. See for yourself at your Murphy Dealer’s.



**murphy V120 £71-10-8** (including Purchase Tax)

*Weekly or monthly payments arranged*