



**BAIRD**

**TELEVISION**

MODEL **T5C**

A PRODUCT OF BAIRD TELEVISION LTD

# BAIRD

has been synonymous with Television at its best, since his first demonstration in 1926, and Baird Television Ltd., with their vast experience and unequalled research facilities have produced the finest Receivers for public use. Every Baird Television Receiver provides a brilliant black-and-white picture, which is produced on the "Cathovisor" Cathode Ray Tube—itsself a Baird product of unique design and guaranteed long life. Coupled with this is the excellent picture detail, high fidelity sound reproduction, adequate angle of vision and—what is of paramount importance—**GREAT RELIABILITY.** The excellent over-all performance of every "BAIRD" model has earned for Television's pioneer Company a reputation which is second-to-none.

**First in 1926, finest in 1937**



BAIRD

TELEVISION RECEIVER

MODEL T5C

**SIZE OF PICTURE.**

This receiver gives a picture 12 ins. wide by 9 ins. high, which is seen in an inclined mirror mounted at an angle of 45 degrees to the top of the Cathode Ray Tube.

**"CATHOVISOR" CATHODE RAY TUBE.**

This is mounted vertically in the cabinet, the tube being covered by a window of safety glass, set flush in the deck of the receiver. It has a guaranteed long life, and is perfectly safe in operation.

**VALVES, POWER CONSUMPTION.**

Five separate chassis units are mounted in the cabinet, and these together employ 19 valves, including two mains rectifiers. The power consumption is 200 watts.

**CONTROLS.**

The T.5.c has the following main controls: On-Off (a recessed switch on the left-hand side of cabinet), Picture Focus—Sound Volume—Picture Brightness—Vision Control—Picture Contrast—Tuning.

**SPEAKER.**

A High Fidelity Energised Moving Coil speaker is mounted immediately below the mains controls.

**CABINET.**

The cabinet, as illustrated, is in Walnut, a sub-panel being covered by a small door forming part of the cabinet front. The dimensions are: height (closed) 43 ins.; height (open), 53½ ins.; width, 23 ins.; depth 19 ins.

**RELIABILITY.**

As in the case of all Baird products the greatest care has been taken in the production of Model T.5.c to ensure maximum RELIABILITY.

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## TECHNICAL DATA.

The incoming sound and vision signals are picked up by the ultra-short-wave aerial, and fed to the receiver through a low impedance feeder cable. This is link coupled to a system of tuned circuits incorporated in the vision and sound chassis.

The vision receiver circuits are designed to pass a band width suitable for the present B.B.C. standard, and the video frequency component of the signal is fed from the output stage to the control electrode of the "Cathovisor" cathode ray tube. This modulates the electron beam, whose trace on the fluorescent screen is governed by the time base generator, in conjunction with the line and frame deflector equipment. The dual synchronising pulses included in the radiated television signal, are selected at the appropriate stage in the vision set, and fed to the time base generator to ensure that the resultant picture is correctly synchronised.

Both the scanning and focusing of the "Cathovisor" cathode ray beam are effected electromagnetically.

The vision, sound and time base generator chassis are mounted on a removable shelf above the H.T. and power units, which are fitted at the base of the cabinet.

At the top front of the cabinet are located six controls on a sloping panel. These are fitted so as to permit adjustments to be made to suit local conditions of reception, and individual tastes.

They comprise—

- (1) **Tuning.** In effect, the detail in the picture is adjusted by this Control.
- (2) **Focus.** This adjusts the sharpness of the picture.
- (3) **Contrast.** This is for varying the relative gradation between light and shade.
- (4) **Brightness.** The overall light intensity of the screen is controlled by this knob.
- (5) **Sound Volume.** Adjusts the degree of sound desired.
- (6) **Vision Control.** Adjusts the overall gain of the vision set.

The power supply for the vision, sound, and time base generator chassis is fed from a separate power unit. The main input is adjustable for voltages from 200 to 250 volts A.C., 50 cycles, or 100 to 110 volts, by means of an additional transformer. A fifth unit supplies the H.T. voltage for the "Cathovisor" cathode ray tube. Appropriate resistor tapings in the latter unit furnish a variable voltage bias for controlling picture brightness, the unit being fitted with heat coil protection in the transformer circuit. The mains supply is disconnected automatically upon the removal of the cabinet back. The receiver will also operate on D.C. Mains by means of a suitable converter.

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