



VISUAL EDUCATION AIDS

TWO UNITS OF INTEREST

To all teachers of electronics and physics

DISPLAY UNIT

(Triode and Cathode Ray Tube.)

This unit has been designed primarily for use before a class. The Display Unit features the AV25 Demonstration Triode and the AV43 Demonstration Cathode Ray Tube, mounted on a chassis of good appearance housing the circuitry and controls. The control panel is colour-coded to distinguish the triode and cathode ray tube functions.

Qualitative demonstrations of the controlling action of the AV25 Triode Grid, and of the manipulation of an electron beam in the AV43 by electric and magnetic fields, are easily made. Simple semi-quantitative measurements can be made using the calibrated controls and metering points provided with inbuilt metering resistors. The metering points suit a 200-microampere, 1000-ohm meter available as an accessory. The Display Unit and the Experiment Unit use the same meter.

Although intended for teacher use, the safety and simplicity of the unit makes it equally suitable for use by students. The unit requires a 240-volt 50-cycle supply.

Price of Display Unit only, complete with valves, packed: £45, f.o.b. Sydney.

Price of Meter Unit: £6/10/-, f.o.b. Sydney.

AV25

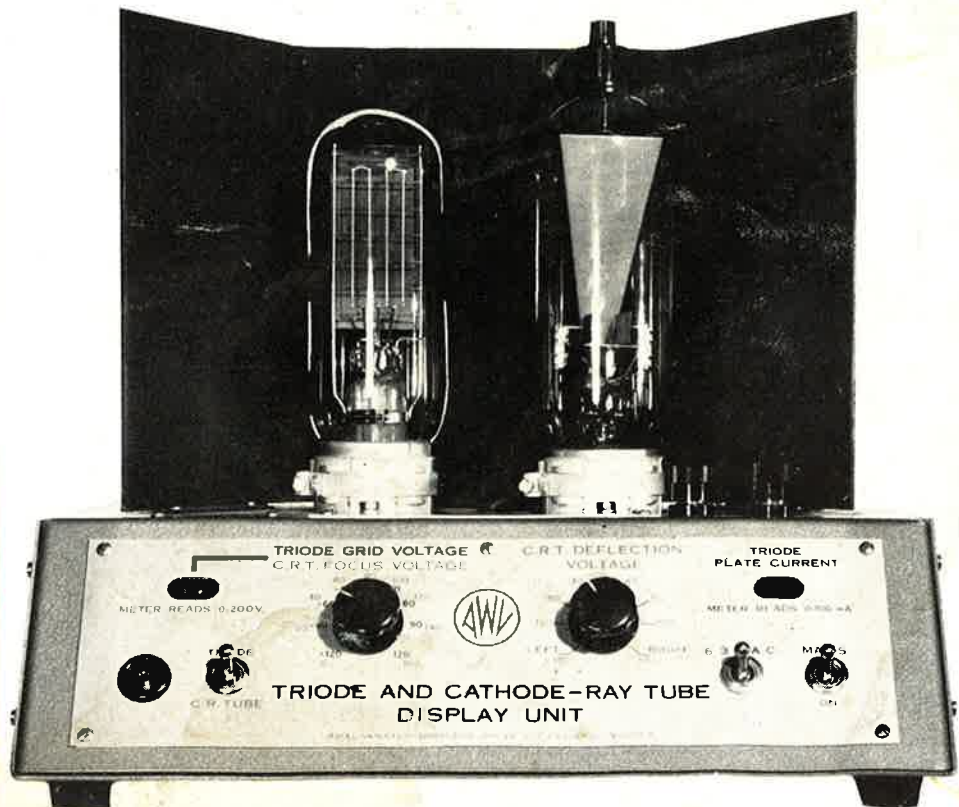
Demonstration Triode

With planar electrodes of open construction, the AV25 has a willemite-coated anode. Current reaching the anode causes a phosphorescent pattern which changes with variation of grid voltage. The pattern is visible through the valve envelope.

AV43

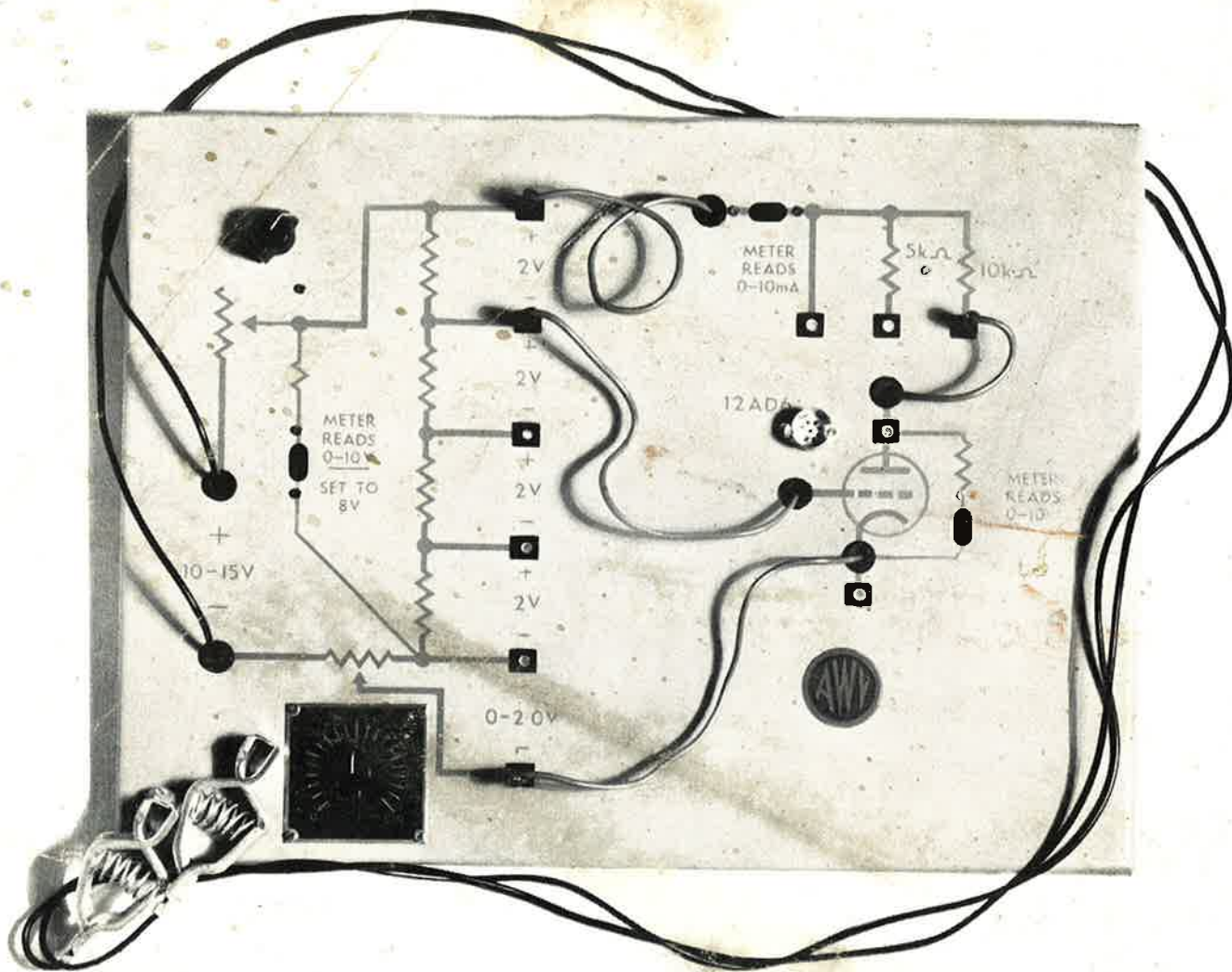
Demonstration Cathode Ray Tube

A simple electron gun produces a ribbon beam, which falls on a willemite-coated display electrode. The effect is as though a two-dimensional beam were made visible. Focusing of the beam can be shown. Deflection of the electron beam can be demonstrated using either the electrostatic deflecting plates in the AV43, or an external permanent or electro-magnet.



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EXPERIMENT UNIT

(Diode and Triode)

The Experiment Unit is designed to enable a student to measure diode and triode characteristics. In the interests of safety, the unit uses only the low voltage obtainable from a battery. The schematic circuit is shown on the front of the unit, and connections are made as required by plugs and wandering leads.

Metering points are provided with built-in metering resistors. The metering points are arranged to suit a 200-microampere, 1000-ohm meter available as an accessory. This meter has been chosen because it could also be used in general laboratory work. Note that both the Experiment Unit and the Display Unit use the same meter. One valve, type 12AD6, connected as a triode, is used in the unit. The valve can be set up as a diode by using the wandering lead facilities.

A 12-15 volts dc, 0.25 ampere supply is required to operate the unit.

Price Experiment Unit only, complete with valve, packed: £16/17/6 f.o.b. Sydney.

Price of Meter Unit: £6/10/-, f.o.b. Sydney.

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