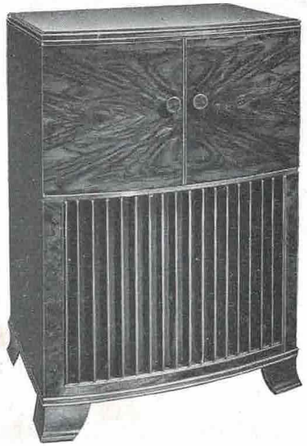
DECCA MODEL 121 PROJECTION TELEVISION RECEIVER

TECHNICAL SPECIFICATION • ALTERNATIVE CABINET-FINISHES • PRICES



Circuit: Single sideband superheterodyne using a common R.F. stage before the frequency changer; two vision, and one sound I.F. stages. Separate models are supplied for each of the B.B.C. television channels, a special double sideband model being available for the London area only.

Three valves are used in the synchronization circuit and a stable picture is assured under varying degrees of signal strength and levels of interference. Interference limiters are incorporated for sound and vision.

Gas-filled triodes are used as timebase oscillators, and a very linear scan is obtained. The miniature cathode-ray tube is provided with a final anode voltage of 25,000 obtained from three high voltage rectifiers in a voltage trebling circuit. Full-wave H.T. rectification is used and the receiver chassis is isolated from the mains, giving the maximum degree of safety in operation.

PRICES

Model 121L	Alexandra Palace
Model 121M	Sutton Coldfield
Model 121N	Holme Moss
Model 121S	Kirk O'Shotts
Model 121W	Wenvoe
Model 121L/DSB	Special high fidelity double sideband model for London area only

Walnut cabinet (as illustrated)	**£205 - 16 - 0**
Mahogany	**£216 - 3 - 10**
Bleached walnut	**£216 - 3 - 10**
Bird's-eye maple	**£226 - 11 - 10**

All inclusive of Purchase Tax

Remote control unit .. .. **£3 - 3 - 0**
(Purchase Tax free)

Valves:

R.F. stage	EF42	Mullard
Frequency Changer	EF42	„
1st I.F. stage	EF42	„
2nd I.F. stage	EF42	„
Video detector and D.C. restorer	EB91	„
Video amplifier	EF42	„
Sound I.F. stage	EF42	„
Sound detector and interference spotter	EB91	„
Cathode follower	6L18	Mazda
Sync. separator	EB91	Mullard
Sync. amplifier	6F14	Mazda
Sync. pulse limiter	6L18	„
Interference limiter and frame pulse separator	EB91	Mullard
Frame oscillator	T41	Mazda
Frame output	Pen45	„
Line oscillator	T41	„
Line output	EL38	Mullard
Tube protection valve	6SN7GT	Brimar
Tube protection and focus valve	6SN7GT	„
Audio amplifier	6L18	Mazda
Audio output	6V6GT	Brimar
H.T. rectifier	GZ32	Mullard
E.H.T. rectifiers (three)	EY51	„
Blocking oscillator	EBC33	„
Pulse generator	EL38	„

Safety Device: Two valves are used to protect the cathode-ray tube in the event of failure of the timebases. Part of one valve is also used to overcome defocussing on highlights caused by a reduction of E.H.T. voltage.

E.H.T. Supply: Pulsed R.F. and voltage tripler. 25KV.

Cathode-ray Tube and Optical System: 2½″ projection tube and Schimdt F62 lens. Picture projected on to plastic screen. Size of picture 12″ × 16″.

Controls: Sound volume and on/off. Brilliance. Focus.

Sound Output: 2.5 watts.

Loudspeaker: 10″ permanent magnet, moving coil. Impedance is 2.8 ohms.

Cabinet: Figured walnut, bow-fronted, with doors opening to disclose screen above loudspeaker grille.

Cabinet Dimensions: Height 37″, width 25½″, depth 19″.

Mains Supply: 200-250 volts A.C. 40/60 cycles/second.

Mains Consumption: 220 watts.

Remote Control Unit: This special unit, comprising 'Contrast' and 'Focus' controls, incorporated in a neat, well finished case, may be added to the receiver to enable adjustments to be made from the viewer's chair

Cover illustration—Alicia Markova in "The Dying Swan". Page 3 illustration—Ralph Richardson and Peggy Ashcroft in "The Heiress".

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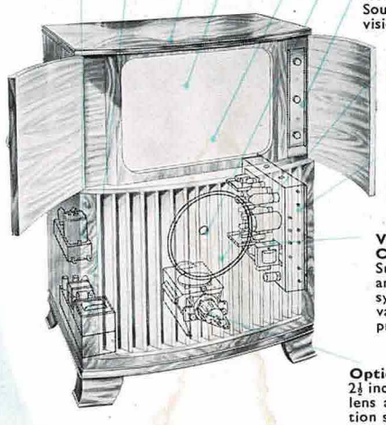
Crystalate (Printing) Ltd., Tonbridge, Kent

PROJECTION TELEVISION

by DECCA

QUICK GLANCE SPECIFICATION DIAGRAM



E.H.T. Unit
25 Kc/s. oscillations, pulsed at 1,000 c/s. Voltage tripled to 25 kV..

Mains Power Chassis
Supplies current to vision and sound receiver and E.H.T. unit.

Cabinet
Hand-polished, bow-fronted, walnut. Doors hide screen and controls when not in use.

45° Reflecting Mirror
Situated behind screen. Front surfaced to eliminate distortion and loss of brilliance.

Viewing Screen
Size 16 by 12 inches, made of plastic, with microgrooved surface.

Loudspeaker
10" permanent magnet type.

Television Controls
Sound and vision, with provision for remote control.

Sound Diffusing Grille
Even diffusion of sound and elimination of high-frequency beam effects.

Installation Controls
Accessible by removing a portion of the loudspeaker grille.

Vision and Sound Chassis
Superheterodyne sound and vision. Efficient sync. separation. Soft valve timebases of proved design.

Optical Unit
2½ inch tube and Schmidt lens and mirror projection system.

(For full specification please see page 4)

Pros and cons to help you in your choice of a television receiver.

Which will you have, a small picture on a curved screen—the television of yesterday—or a large picture on a flat screen—the television of today *and* tomorrow ?

The small picture and curved screen are inherent to direct viewing, in which the curved face of the cathode-ray tube acts as a viewing screen. Try it, and see whether you and the family *really* like it.

Now for the big 16 by 12-inch picture on a flat screen. This is Decca projection television. It works like this. A small picture of microscopic detail and high light intensity is composed on the face of a *miniature* cathode-ray tube. This picture is magnified by a special large aperture lens system, and by reflection, is projected on to the flat 16 by 12-inch viewing screen, the surface of which is microgrooved to prevent halation and maintain detail. Try *this* system, and see which of the two the family likes best,

Now there's the question of cost, and whether you will buy for today or—today *and* tomorrow. Obviously you want a big, family-size picture on a flat screen, and a receiver that is technically up-to-date, and will be so for a long time to come. And the cabinet must, of course, be well-proportioned, solid, finely finished, and preferably fitted with doors to enclose the screen and controls when not in use. Now, a television receiver as good as this will cost you more than an ordinary one, so maybe you will wish to regard your purchase of a television receiver as a long term investment. In the case of the Decca Projection Model 121 you will be fully justified in doing so. Furthermore, there will be no heart-aches in the family because you didn't get the best first time.

Price in standard walnut cabinet **£205. 16. 0.** *incl. P.T.*

(For prices of alternative cabinet finishes, please see back page)

. . . . a picture 16 inches wide by 12 inches deep that can be enjoyed in comfort by the whole family . . . a rich cinema-like picture, pin-sharp and full of detail, free from halation and with brilliant highlights . . . . a picture optically projected on to a flat screen that can be viewed for long periods without eyestrain.

This is television as it *should* be . . . . television at its very best . . . . *as you can have it now* . . . . a brilliant picture with studio quality sound, the result of skilfully combining and turning into practical fact the most up-to-date theories of the world's leading electronic, optical and sound research engineers.

In presentation the Model 121 is a true Decca instrument, designed, built, and finished with great care—a beautiful piece of furniture to grace your home for many years.

A brilliant 16 by 12 - inch picture with studio quality sound and . . . .

. . . . a gracefully proportioned bow-fronted cabinet with doors that hide the screen and controls when they are not in use. The standard cabinet is made of choice walnut with expertly matched grain patterns which, with a hand-polish finish, makes the Decca Television Receiver Model 121 a dignified, handsome piece of furniture. Alternative finishes include Bleached Walnut, Mahogany and Bird's-eye Maple.

MODEL 121