


DITTON 11



sound for perfection

Celestion 

Celestion Ditton 11 loudspeaker specification and data

The Ditton 11 is a remarkable and unique loudspeaker system, miniature yet capable of true Hi-Fi reproduction. The 11 has an excellent dynamic characteristic and will handle high power levels when required to do so.

The bass unit employs a small but relatively heavy cone/voice-coil assembly, its mechanical suspension having been carefully designed to allow a long linear movement. An extremely powerful magnet is used to control this assembly. The enclosure is completely airtight, the trapped air acting as a spring and providing a considerable part of the restoring force acting upon the moving mass. The tweeter used in the Ditton 11 is the HD 1000 noted for particularly excellent low-distortion and wide dispersion characteristics and for smooth frequency response along with exceptional response to transients.

The bass and treble units are coupled to the signal source by means of a high precision inductance-capacitance crossover network. The cabinet is filled with the optimum amount of cellular foam acoustic damping material and is immensely strong to ensure that no panel vibration can possibly arise even at high peak sound levels. The cabinet finish is, of course, immaculate and as perfect as the art of cabinet making allows. Ditton 11 loudspeakers are ideal most particularly where space is at a premium and are well suited for use in both stereophonic and quadraphonic installations; they are also frequently specified for quadraphonic rear channels where space and/or cost preclude large speakers for all channels. The Ditton 11 is manufactured and tested to the highest standards and may be relied upon to provide many years of entertainment.

The Celestion reputation for building the finest quality loudspeakers is world-wide and is founded on half-a-century of specialisation in the science of electro-acoustics. All the component units used in Celestion loudspeakers are specially designed in our research and development laboratories to fulfil the precise function for which they will be used.

Great care is taken to ensure that all individual component parts are checked for quality and accuracy before assembly begins; thereafter at each stage of manufacture quality control checks are made, and finally upon completion, a series of stringent tests are carried out to ensure that each individual loudspeaker performs exactly in accordance with its required specification.

Take a look into a Celestion loudspeaker and you will appreciate the skill and care which goes into the design and manufacture of Celestion's marvellous Ditton high fidelity loudspeakers.

Meticulous attention to detail, from the superb furniture finish right through to the precision engineering at the heart, ensure the quality for which Celestion are world renowned.

Technical Specification

Dimensions: 35.5 cm × 20.4 cm × 25.4 cm

Overall Frequency Response: 90 Hz–25kHz±3dB

Impedance: 4-8 ohm amplifier matching

Crossover Frequency: 2.5 kHz

Weight Nett: 5.9 kg

Finish: Teak or Walnut

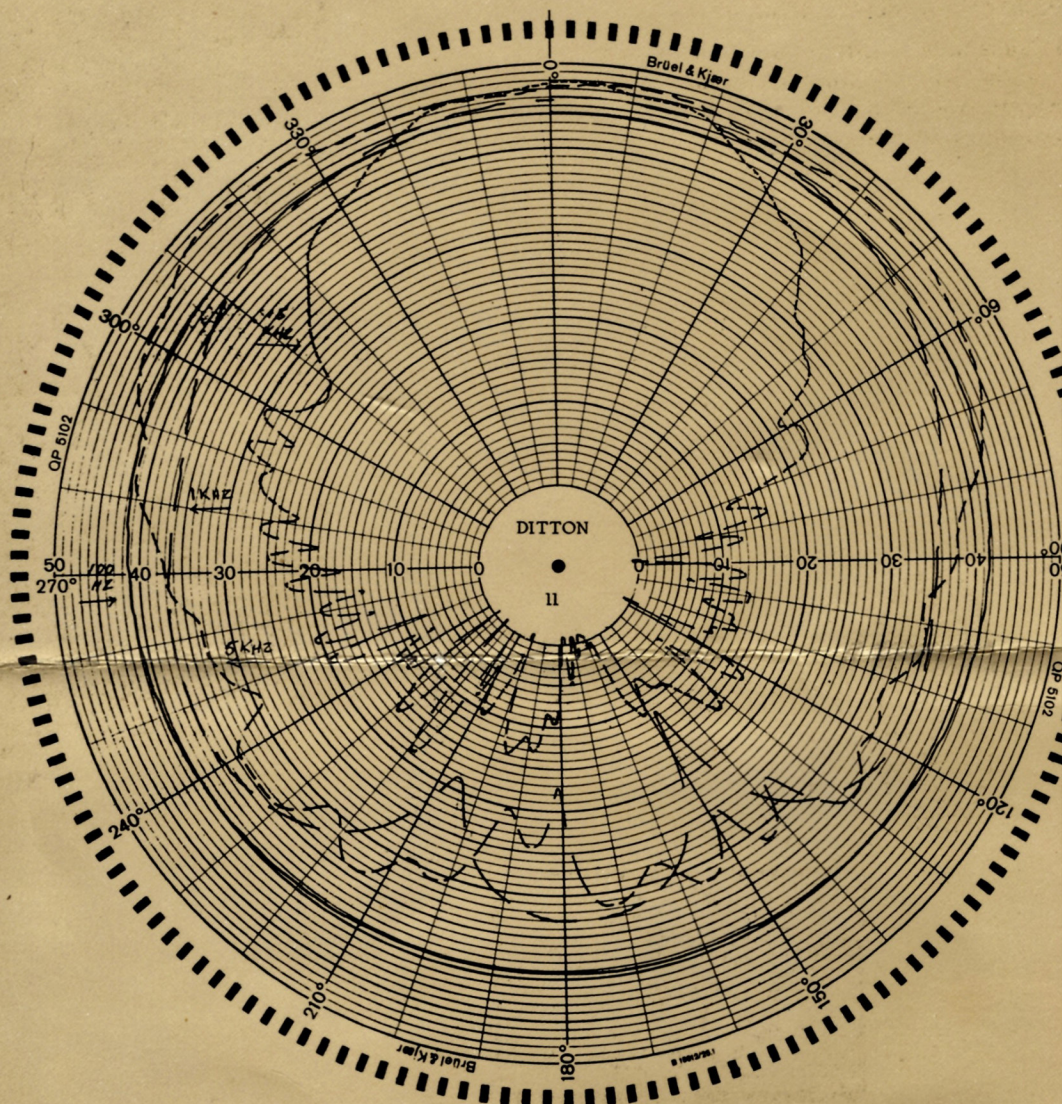
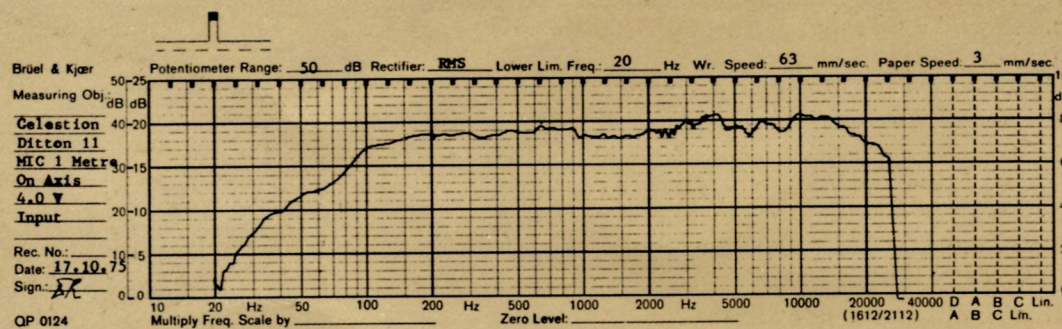
These diagrams are reproduced for the interest of the technically minded; the diagram on the right shows frequency response; the uniformity of this curve speaks volumes for the excellence of the drive units and of the crossover developed by Celestion engineers. It is hardly surprising that Celestion pressure units are specified by the B.B.C. for both studio and domestic monitors and also incorporated by many manufacturers. The polar diagram below depicts the relative response at selected frequencies through a radius of 360°, obtained by rotating the loudspeaker in an anechoic chamber whilst applying precisely regulated input signals and recording the output from the loudspeaker using a fixed calibrated microphone and automatic curve tracing equipment. It will be noticed that even the highest frequencies are well maintained through a very broad arc, ensuring an excellent stereo effect over a wide listening area. Meticulous design of the flush-mounted HD 1000 super tweeter along with precise integration with the FC 6 midrange unit ensures this exceptional performance.

Arranging your loudspeakers for good listening . . .

The optimum placement of your loudspeakers is somewhat dependent upon room acoustics and furniture siting. However, the basic arrangement for stereo reproduction is obtained by having the two speakers about 3 metres apart angled at approximately 45°. There are many alternatives and the Ditton 11 can be placed either vertically or horizontally (the insignia can be turned as required); the most popular setting is on bookshelves or wall brackets. Placing loudspeakers in the corners may cause 'boomy' reproduction by exciting natural room resonances. The Ditton 11 should preferably be placed above floor level, i.e., with the base at least half a metre off the floor. However, the siting of your loudspeakers is a personal matter and the Ditton 11 may be located almost anywhere with excellent results.

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1. The latest type HD 1000 tweeter designed and produced by Celestion to the highest standards. The frequency range of this unit is from 2.5 kHz to 25 kHz. The domed diaphragm ensures good dispersion and low distortion.

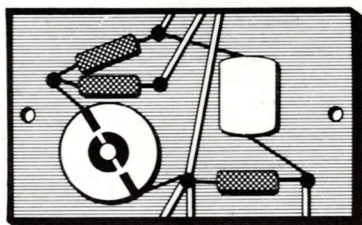
2. The cabinet contains a critical quantity of acoustic grade cellular material which serves to absorb unwanted energy and prevent standing waves occurring within the cabinet thereby preventing colouration.

3. All units are mounted flush with the front face of the cabinet to ensure freedom from refraction which could cause uneven response.

4. Bass unit 15 cm diameter has non-resonant cast chassis. Speaker cone suspended on high compliance, long throw termination. This ensures accurate reproduction of bass notes at ultra low distortion.



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Closer View of Ditton 11 Components Units

1. Soft dome 'pressure' type tweeter (HD 1000).
2. Crossover filter divides treble and bass frequencies.
3. 15 cm 'long throw' bass unit.

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