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# Get it on



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**make it happen**

# lift off with Celestion



## DITTON 130

Those who take sound seriously would do well to pay close attention to the Ditton 130. A loudspeaker specifically engineered for maximum efficiency, reliability and long term stability.

Its two unit system is cased in a flush fronted cabinet. No upstands or edges to cause diffraction.

The completely new treble unit, a 1" low mass dome, has visco-elastic damping giving excellent control of the high frequency break-up modes.

The magnet front plate is coined to concentrate flux density, and the twin layer coil, wound on a double helical former, has a special lead-out-wire configuration to avoid torsional stress.

The whole diaphragm assembly is mounted on a rigid aluminium support plate, holding the voice coil exactly centred in the magnetic gap.

The bass unit is an 8" long throw cone with good linearity and low distortion. It terminates in a vac-formed PVC roll, damping unwanted radial transmissions. The precision sprayed visco-elastic surface treatment damps out the break-up mode and again the flexible lead out terminations are resilient for lower stress and longer life.

The two way cross-over is mounted on a computer grade fibre glass printed circuit board with a second order bass section and third order treble.

All in all the Ditton 130 has value beyond its price for those who take their sound seriously.

## DITTON 150

All you've wanted from sound has now happened. The formulations, the yardsticks, the application of need and wants have been ascertained and resolved by know-how and capability. A two way system plus ABR, the Ditton 150 utilises the superb new 1" HF 1001 treble unit. The bass section is a long throw visco-elastically damped 6 1/2" cone with a long excursion neoprene roll surround, augmented by an 8" ABR unit.

This gives improved performance at low frequencies and alignment is maintained by a precision moulded piston on the ABR cone.

The cross-over bass section is third order with two series inductors and a reversible electrolytic shunt capacitor. The treble section is also third order with two series reversible capacitors, a shunt inductor and a resistive damping element.

Technically brilliant, engineered with inspiration, the Ditton 150 is an invocation to the degree of natural sound reproduction to which we all aspire.

## DITTON 200

It's no hit and miss affair, all this striving to attain the ultimate in natural sound. The path is marked. The parameters are clear. Expertise and technology are the requirements for success. We possess both. The expertise. And the technology. The Ditton 200 appears to be a conventional three way system with the new HF 1001 treble and separate long throw 8" bass and mid-range units.

The secret lies in the unique crossover design. It cuts in the mid-range unit at normal mid-range frequencies, but also allows the unit to act as an ABR in augmenting the main bass unit at lower frequencies. In addition, by filling the wave front from the three sources, a perfect phase match is ensured.

Both bass and mid-range units are fed from a modified third order low pass network. The treble unit is a third order high pass filter.

This expression of the Supernatural brings you yet closer to the sound you are seeking.

## DITTON 300

Words can only fall short in attempting to describe the superiority of the sound. It's really not possible to express in meaningful terms the performance of this loudspeaker. There's no realistic way to demonstrate its listening values. Specifications and curves (no matter how impressive) are no substitute for five minutes personal evaluation. And when you've reached a peak of attainment as with our Supernatural range, then surely to do it justice, the ear must be the final arbiter of quality and performance. This is the only way to judge the Ditton 300.

Its bass driver is a 10" treated cone with a PVC edge termination and a 1 1/2" high temperature voice coil assembly. The mid-range unit, an isolated enclosure, forms its own transmission line loading and is a 5" treated cone with low mass edge termination. The treble unit is our HF 1001 used throughout this superlative new range. To ensure optimal integration, the three way crossover uses a carefully designed combination of second and third order networks.

By any yardstick, the endeavour to produce sound at its most natural is met to the ultimate degree in the Ditton 300 of the Supernatural range.

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international 

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# Supernaturals

Probably those people most appreciative of really good sound reproduction could be accurately described as being all ears.

Because in the final analysis it's the ear that determines the receptiveness and enjoyment of both enthusiast and casual listener alike to the quality and acceptability of sound from a speaker.

Your perception, your musical sensitivity qualify you to appreciate and enjoy the essence of super natural sound. And that means Celestion Supernatural sound. As near to nature as technology can achieve.

## Without Compromise.

This is what the Supernatural range offers. Competitively priced speakers with the technical edge.

Supernatural, realistic sound in a range of four 2 and 3 way speakers.

At Celestion our standards of craftsmanship permit no compromise on quality. We design, manufacture, laboratory test and assemble every component, every loudspeaker ourselves.

Bench research, evaluation testing, close analysis of components and construction. We do it all ourselves. Our own original input has resulted in the introduction of techniques and components that the industry as a whole have adopted.

This over many successful years has won us reputation with enthusiasts on an international scale.

## To Invoke Super Natural Sound.

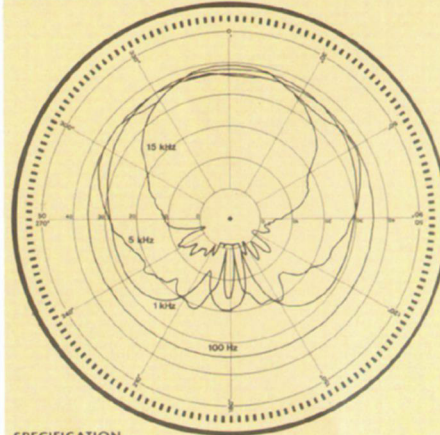
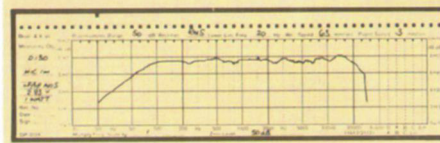
All this effort. All this enterprise. All this tireless delving into acoustics, electronics, materials and technology has been to satisfy one aim. That is to produce sound so close to nature that its effect is nothing short of the Supernatural.

**celestion international**

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DEALER STAMP:

## DITTON 130



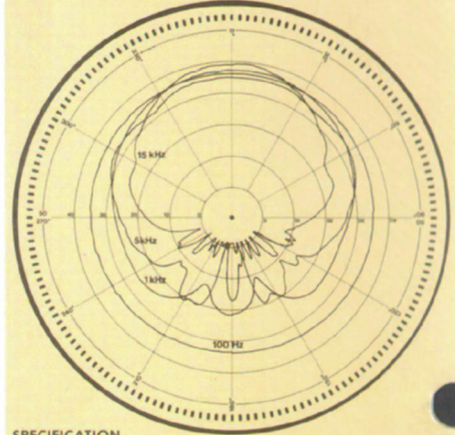
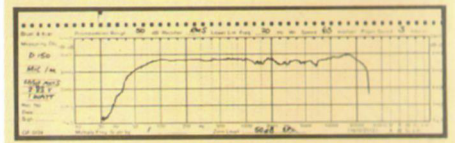
### SPECIFICATION

**Dimensions:** 485mm x 250mm x 240mm (19" x 10" x 9 1/2")  
**Internal Volume:** 19.5 litres (0.69 cu.ft.)  
**Net Weight:** 7.7 kg (17 lbs)  
**Impedance:** 8 ohms  
**Amplifier Requirements:** 10 watts to 50 watts  
**Frequency Response:** 75 Hz - 20 kHz  $\pm$  3dB  
**Crossover Frequencies:** 2.3 kHz

**Power Ratings:** 1) Maximum rated power - 50 watts programme  
 2) Continuous sinewave rating 10 volts rms 40 Hz - 2.3 kHz  
 7 volts rms 2.3 kHz - 20 kHz  
**Sensitivity:** 1.8 watts pink noise input produce 90 dB S.P.L. at one metre on axis anechoic (Equivalent to 87.5 dB for 1 watt @ 1M.)  
**Harmonic Distortion:** at 96 dB S.P.L. 1M on axis anechoic  
 50 Hz - 3.26% 1 kHz - 1.56%  
 100 Hz - 1.43% 5 kHz - 0.67%  
 500 Hz - 0.46% 10 kHz - 1.02%  
 15 kHz - 0.71%



## DITTON 150



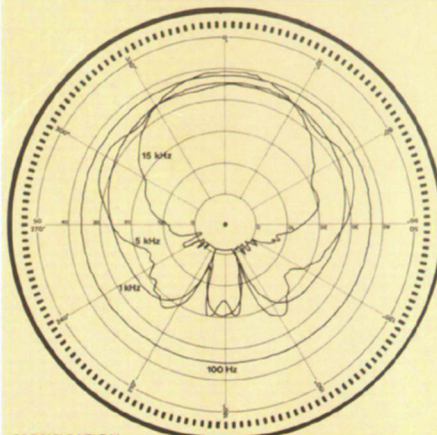
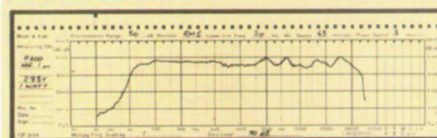
### SPECIFICATION

**Dimensions:** 545mm x 280mm x 218mm (21 1/2" x 11" x 8 3/4")  
**Internal Volume:** 24.2 litres (0.85 cu.ft.)  
**Net Weight:** 9.1 kg (20 lbs)  
**Impedance:** 8 ohms  
**Amplifier Requirements:** 10 watts to 60 watts  
**Frequency Response:** 60 Hz - 20 kHz  $\pm$  3dB  
**Crossover Frequencies:** 2.7 kHz

**Power Ratings:** 1) Maximum rated power 60 watts programme  
 2) Continuous sinewave rating 10 volts rms 45 Hz - 3.5 kHz  
 6.7 volts rms 3.5 kHz - 20 kHz  
**Sensitivity:** 2.6 watts pink noise input produce 90 dB S.P.L. at one metre on axis in anechoic (Equivalent to 86 dB for 1 watt @ 1M.)  
**Harmonic Distortion:** at 90 dB S.P.L. 1M on axis anechoic  
 50 Hz - 4.5% 1 kHz - 1.04%  
 100 Hz - 1.12% 5 kHz - 0.45%  
 500 Hz - 0.36% 10 kHz - 0.57%  
 15 kHz - 1.0%



## DITTON 200



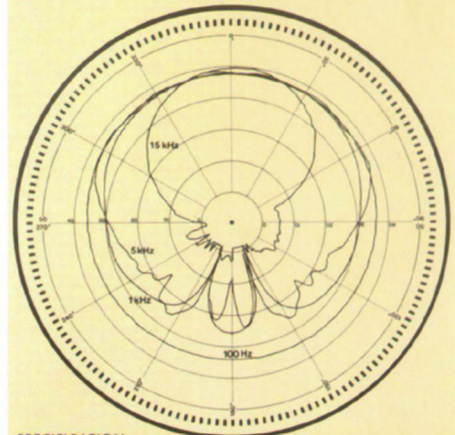
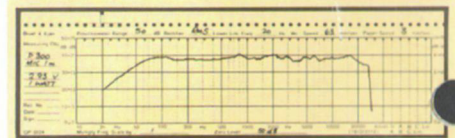
### SPECIFICATION

**Dimensions:** 598mm x 330mm x 266mm (23 1/2" x 13" x 10 1/2")  
**Internal Volume:** 37 litres (1.3 cu.ft.)  
**Net Weight:** 12.7 kg (28 lbs)  
**Impedance:** 8 ohms  
**Amplifier Requirements:** 10 watts to 80 watts  
**Frequency Response:** 57 Hz - 20 kHz  $\pm$  3dB  
**Crossover Frequencies:** 1.7 kHz, 2.3 kHz

**Power Ratings:** 1) Maximum rated power 80 watts programme  
 2) Continuous sinewave rating 11 volts rms 40 Hz - 2.3 kHz  
 7 volts rms 2.3 kHz - 20 kHz  
**Sensitivity:** 2.3 watts pink noise input produce 90 dB S.P.L. at one metre on axis in anechoic (Equivalent to 87.0 dB for 1 watt @ 1M.)  
**Harmonic Distortion:** at 90 dB S.P.L. 1M on axis anechoic  
 50 Hz - 3.57% 1 kHz - 0.53%  
 100 Hz - 1.15% 5 kHz - 0.47%  
 500 Hz - 0.16% 10 kHz - 0.74%  
 15 kHz - 0.79%



## DITTON 300



### SPECIFICATION

**Dimensions:** 630mm x 350mm x 260mm (24 3/4" x 13 3/4" x 10 1/8")  
**Internal Volume:** 37.0 litres (1.3 cu.ft.)  
**Net Weight:** 13.6 kg (30 lbs)  
**Impedance:** 8 ohms  
**Amplifier Requirements:** 10 watts to 100 watts  
**Frequency Response:** 52 Hz - 20 kHz  $\pm$  3dB  
**Crossover Frequencies:** 650 Hz, 4.5 kHz

**Power Ratings:** 1) Maximum rated power - 100 watts programme  
 2) Continuous sinewave rating 13.0 volts 20 Hz - 650 Hz  
 10.0 volts 650 Hz - 4.5 kHz  
 7.0 volts 4.5 kHz - 20 kHz  
**Sensitivity:** 1.8 watts pink noise input produce 90 dB S.P.L. at one metre on axis in anechoic (Equivalent to 87.5 dB for 1 watt @ 1M.)  
**Harmonic Distortion:** at 90 dB S.P.L. 1M on axis anechoic  
 50 Hz - 1.22% 1 kHz - 0.92%  
 100 Hz - 0.64% 5 kHz - 0.42%  
 500 Hz - 0.32% 10 kHz - 0.61%  
 15 kHz - 0.71%



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