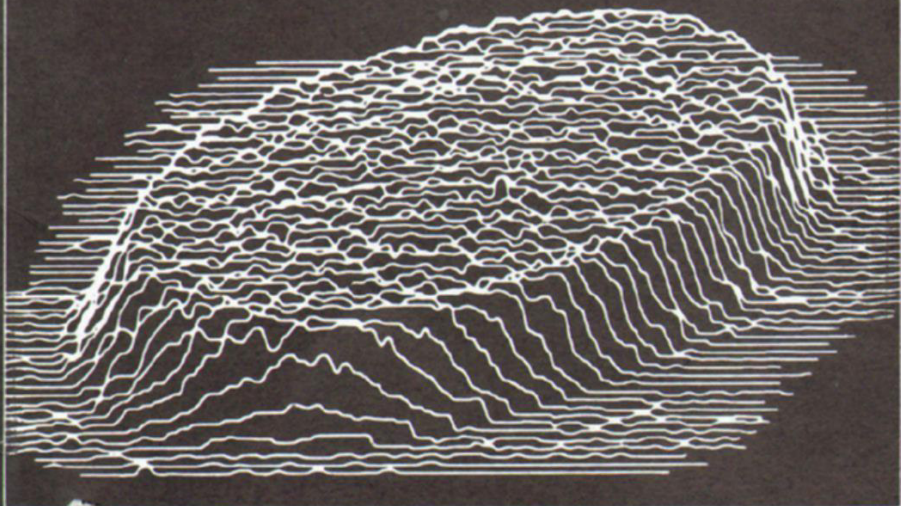


Perfect piston motion. The new HF 1001 Tweeter vibrating at 3kHz.



**WHAT NO  
HUMAN EYE  
HAS EVER  
SEEN BEFORE,  
THE HUMAN  
EAR NOW  
HEARS.**

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Archiv Michael Otto  
HiFi-Classics.de

celestion  
international 

The laser makes the difference

ROLA CELESTION LIMITED DITTON WORKS, Foxhall Road, Ipswich, Suffolk IP3 8JP England  
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 **Celestion  
speakers**

# INTRODUCING SIX REMARKABLE NEW DITTONS. DESIGNED BY THE LIGHT OF THE LASER.

It has always been a speaker designer's dream to view the vibrating surface of a speaker diaphragm as though its microscopic vibrations had been magnified a thousand times and frozen in time.

That dream has now been realized. With Celestion's exclusive technology that marries a laser to an advanced computer.

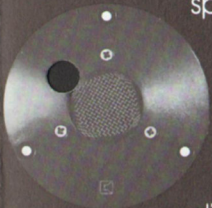
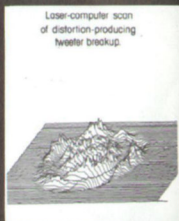
By scanning a laser beam across the surface of a moving diaphragm, and then feeding 36,000 coordinates of position and velocity into a computer, Celestion creates a three-dimensional "topographic" map of driver motion. With each instant frozen and magnified to allow Celestion engineers to see, for the first time ever, the irregularities which are a major cause of speaker distortion.

But beyond diagnosis, Celestion allows engineers to solve speaker problems more effectively than ever before. Because speaker designers can now

see exactly how changes in critical dimensions, materials, mechanical and electrical characteristics—literally thousands of variables—affect the behavior and interaction of drivers, crossovers and enclosures. At different frequencies. At different levels. And even in different acoustic environments.

The result: the six new Ditton speaker systems introduced here, all designed with this remarkable new technology. Loudspeakers that set new standards of clarity, accuracy and detail. Combined with extraordinary efficiency, extremely low distortion, optimum dispersion. And most of all, a degree of musical excellence you simply must experience to appreciate.

That experience now awaits you at your Celestion dealer.

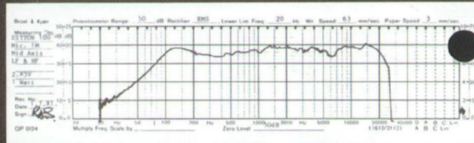


## DITTON 100

Compact Two-way Acoustic Suspension Loudspeaker



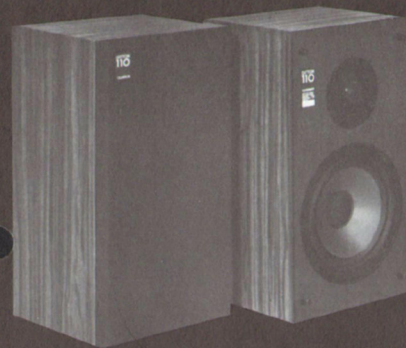
Celestion performance at its most economical and compact. The HF 1001 tweeter, developed and perfected with Celestion's unique laser-computer scanning system, combines with a 6½" low-mass PVC-surround woofer for minimal distortion and increased efficiency. The drivers are vertically aligned and flush-mounted for accurate stereo imaging. The 100 is well-suited to receivers and amplifiers of 10 to 40 watts per channel.



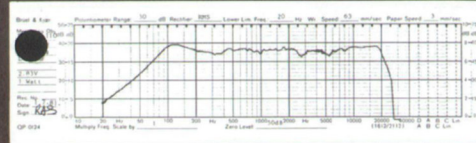
Drivers:	HF 1001 1" dome tweeter, 6½" PVC-surround woofer
Frequency Response:	78 Hz - 20 kHz*
Crossover Frequency:	2.3 kHz
Impedance:	8 ohms
Amplifier Requirements:	10 to 40 watts per channel
Sensitivity:	87 dB spl, one watt in at one meter
Weight:	9.75 lbs (4.41 kg)
Dimensions:	13"H x 8.25"W x 7.75"D (330 mm x 210 mm x 197 mm) (with grille)
Finish:	Walnut vinyl with acoustically transparent black grille cloth
Recommended Placement:	On shelf, stand, or wall-mounted

## DITTON 110

Two-way Acoustic Suspension Loudspeaker



Standards of performance rare in a loudspeaker in this price range. A newly designed 8" cone woofer is aligned vertically with the HF 1001 1" dome tweeter for precise stereo imaging. The flush-fronted cabinet design and the woofer's PVC surround contribute to smooth dispersion, while Celestion's unique laser-computer technology has resulted in the ability to reproduce high peak power levels cleanly.

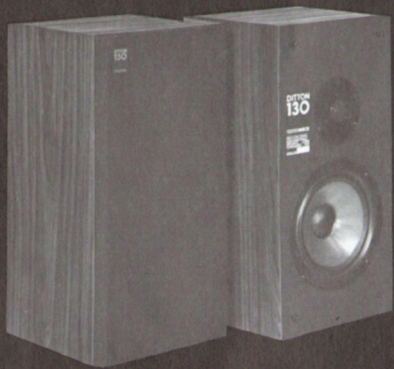


Drivers:	HF 1001 1" dome tweeter and 8" PVC-surround woofer
Frequency Response:	72 Hz - 20 kHz*
Crossover Frequency:	2.3 kHz
Impedance:	8 ohms
Amplifier Requirements:	10 to 50 watts per channel
Sensitivity:	87 dB spl, one watt in at one meter
Weight:	12 lbs (5.5 kg)
Dimensions:	16.75"H x 9.5"W x 8.75"D (425 mm x 240 mm x 212 mm)
Finish:	Walnut vinyl with acoustically transparent black grille cloth
Recommended Placement:	On shelf, stand, or wall-mounted

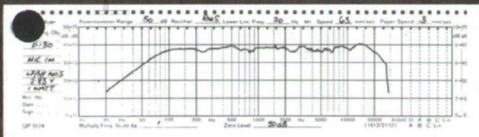
\* For a realistic measurement of the usable frequency response in an actual listening room, all low frequencies are specified at 6dB down.

## DITTON 130

Two-way Acoustic  
Suspension Loudspeaker



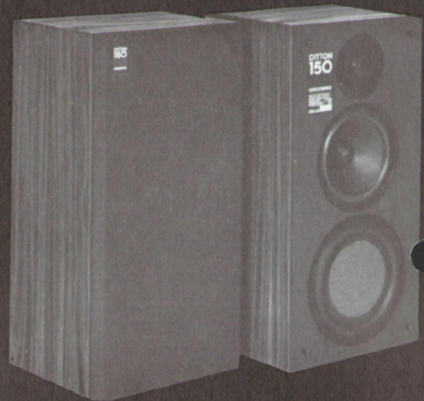
Highly acclaimed by reviewers on both sides of the Atlantic. Good power handling at a moderate price. The HF 1001 tweeter, developed and perfected with Celestion's unique laser-computer scanning system, joins with an 8" long-throw PVC-surround woofer for maximum efficiency, reliability and long-term stability. Both drivers are flush-mounted and vertically aligned for accurate stereo imaging.



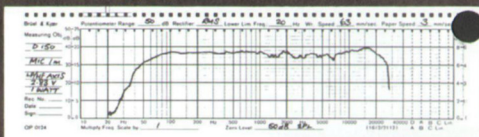
**Drivers:** HF 1001 1" dome tweeter, 8" PVC-surround woofer  
**Frequency Response:** 60 Hz - 20 kHz\*  
**Crossover Frequency:** 3 kHz  
**Impedance:** 8 ohms  
**Amplifier Requirements:** 10 to 55 watts per channel  
**Sensitivity:** 86 dB spl, one watt in at one meter  
**Weight:** 17.2 lbs (7.7 kg)  
**Dimensions:** 19"H x 10"W x 9.5"D (485 mm x 250 mm x 240 mm)  
**Finish:** Walnut vinyl with acoustically transparent black grille cloth

## DITTON 150

Two-and-a-half way  
Passive Radiator Loudspeaker



Richer, more linear bass response thanks to Celestion-originated passive radiator technique. The new HF 1001 1" dome tweeter is complemented by a 6 1/2" woofer designed for realistic vocals in the critical midrange frequencies, and an 8" Auxiliary Bass Radiator which extends the 150's usable low frequency response. Visco-elastic damping heightens efficiency, reliability and stability.



**Drivers:** HF 1001 1" dome tweeter, PVC-surround woofer, and 8" passive radiator  
**Frequency Response:** 55 Hz - 20 kHz\*  
**Crossover Frequency:** 2.7 kHz  
**Impedance:** 8 ohms  
**Amplifier Requirements:** 20 to 60 watts per channel  
**Sensitivity:** 86 dB spl, one watt in at one meter  
**Weight:** 20 lbs (9.1 kg)  
**Dimensions:** 21.5"H x 11"W x 8.6"D (545 mm x 280 mm x 218 mm)  
**Finish:** Walnut vinyl with acoustically transparent black grille cloth

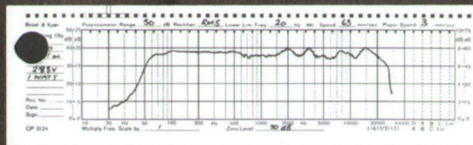
## DITTON 200

Four-way, Three-driver  
Passive Radiator Loudspeaker



Original\*\* design with upper 8" driver functioning as a woofer and lower 8" driver serving dual functions as midrange and passive radiator. This unique configuration eliminates the 3 dB "hump" typical in conventional two-woofer systems, yielding instead a well-damped low end with solid, extended bass response.

\*\*Pat. applied for



**Drivers:** HF 1001 1" dome tweeter, 8" PVC-surround woofer, 8" midrange/passive radiator  
**Frequency Response:** 52 Hz - 20 kHz\*  
**Crossover Frequency:** 1.7 kHz, 2.3 kHz  
**Impedance:** 8 ohms  
**Amplifier Requirements:** 10 to 80 watts per channel  
**Sensitivity:** 87 dB spl, one watt in at one meter  
**Weight:** 28 lbs (12.7 kg)  
**Dimensions:** 23.5"H x 13"W x 10.5"D (598 mm x 330 mm x 266 mm)  
**Finish:** Walnut vinyl with acoustically transparent black grille cloth

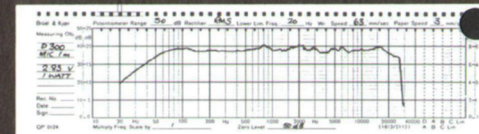
## DITTON 300

Three-way Acoustic  
Suspension Loudspeaker



Exceptional frequency response, high efficiency and high power-handling capabilities for optimum performance with a wide range of components. Outstanding linearity and superb stereo imaging yield sound rivalling that of far more costly speakers.

The benefits of HF 1001 1" dome tweeter are enhanced by flush mounting as are the two other vertically-aligned drivers, for lowest distortion and maximum imaging precision.



**Drivers:** HF 1001 1" dome tweeter, 5" midrange, 10" PVC-surround woofer  
**Frequency Response:** 48 Hz - 20 kHz\*  
**Crossover Frequencies:** 650 Hz, 4.5 kHz  
**Impedance:** 8 ohms  
**Amplifier Requirements:** 20 to 100 watts per channel  
**Sensitivity:** 87.5 dB spl, one watt in at one meter  
**Weight:** 30 lbs (13.6 kg)  
**Dimensions:** 24.8"H x 13.8"W x 10.2"D (630 mm x 350 mm x 260 mm)  
**Finish:** Walnut vinyl with acoustically transparent black grille cloth

\* For a realistic measurement of the usable frequency response in an actual listening room, all low frequencies are specified at 6dB down.