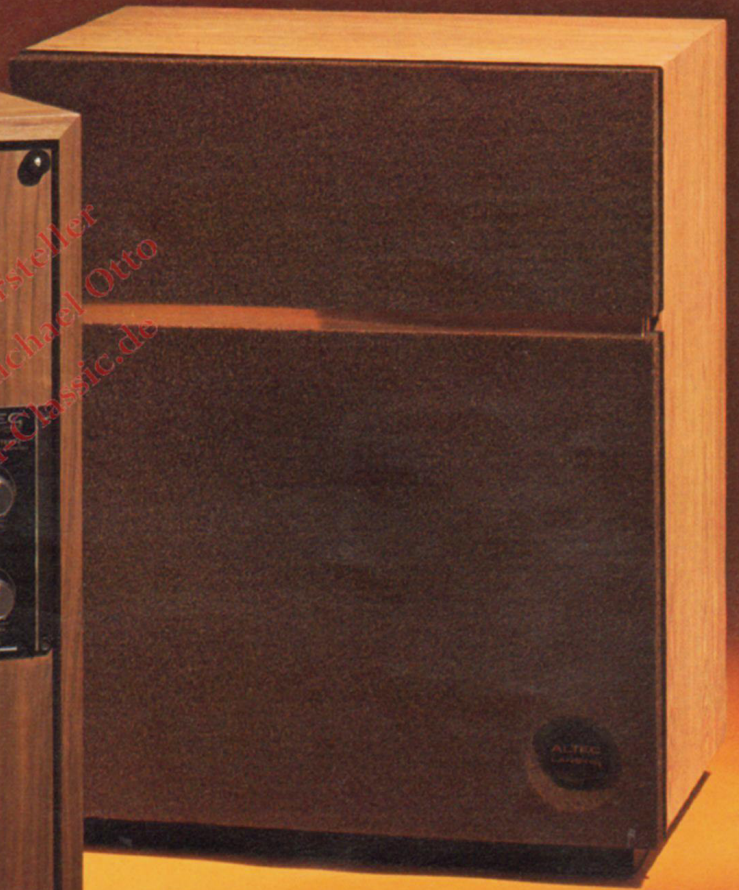




fifteen



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Archiv Michael Otto
HiFi Classic.de

model fifteen

Excellent acoustic output, full range response and extended bandwidth in a two-way system — the Fifteen speaks for itself. It represents a new generation of two-way systems — reaching far beyond the technology employed in previous two-way floor-standing speaker systems.

The innovative radial phase plug*, a result of a year-long Altec Research and Development investigation, is a key element in the Fifteen's extended high frequency response. It is the heart of an all new compression driver developed by Altec to give smooth response to beyond 20 kHz when coupled to the unique curved radial horn that has been adapted for use in the Fifteen.

An exhaustive research program concentrating on low frequency performance has led to a thorough investi-

gation of the enclosure/driver interrelationship. Internal acoustic pressure variations, material energy absorption, and dynamic thermal factors have been examined, analyzed, and controlled to provide an optimum balance of low-frequency band limits and sensitivity. The Fifteen's superb low-frequency performance is the result of this enclosure tuning technology investigation.

Extended low end, extended high end — results of major research and development efforts from Altec. Put these powerful new technologies together in a hand-rubbed, oiled oak or walnut cabinet and you have the Fifteen — an exciting addition to any quality system.

Outstanding response and elegant styling — the Fifteen is equally comfortable in studio or living environment.

SPECIFICATIONS:

SPEAKER

COMPONENTS—

LOW FREQUENCY: 12" bass driver
HIGH FREQUENCY: Radial phase plug* compression driver mounted to curved radial horn.

NOMINAL IMPEDANCE: 8 ohms

CROSSOVER

FREQUENCY: 1700 Hz

ENCLOSURE TYPE: Vented

SENSITIVITY:

Measured at 4 feet, 1 watt input, using pink noise which has been limited to a bandwidth of 500 Hz to 3 kHz.

90 dB SPL⁽¹⁾
94 dB SPL⁽²⁾

FREQUENCY

RESPONSE: 30 Hz to 20 kHz

DISPERSION:

Measured with pink noise limited to a bandwidth of 500 Hz to 8 kHz at a distance of 4 feet.

120° at -6 dB vertical
120° at -6 dB horizontal

* Patent Pending

LONG TERM BROAD BAND MAXIMUM POWER:

60 watts⁽²⁾

Measured with a source of pink noise limited to the frequency response bandwidth of the system, over an extended time period.

OPERATIONAL POWER

RANGE:

12 watts to 250 watts

Recommended for use with amplifiers between these levels.

LONG TERM

MAXIMUM ACOUSTIC OUTPUT:

111 dB SPL at 60 watts⁽²⁾

Measured with a source of pink noise limited to the frequency response bandwidth of the system at a distance of 4 feet.

FINISH:

Hand-rubbed oiled walnut or oak.

GRILLE:

Acoustically transparent foam mounted on removable panel. Black supplied with walnut, brown with oak cabinet.

DIMENSIONS:

22"W x 27"H x 15½"D with base and grille.

SHIPPING WEIGHT:

84 lbs. — 38.1 kg

NET WEIGHT:

76 lbs. — 34.5 kg

(1) Measured with shelving controls set at optimum.
(2) Measured with shelving controls fully clockwise.

ALTEC

SOUND PRODUCTS DIVISION
1515 SOUTH MANCHESTER
ANAHEIM, CALIF. 92803 U.S.A.

ALTEC CORPORATION
Printed in U.S.A. 676 AL 6049

Model FIFTEEN



model fifteen

Not too long ago the ultimate sound in audio came from a two-way speaker system. It was soon discovered, however, that the two-way system didn't reproduce all of the audio spectrum evenly. And so the great speaker race began.

Systems began to appear with three-way configurations. Then came the four-ways. Today the speaker and driver combinations are staggering.

Amid all the confusion, Altec Lansing would like to introduce you to one of its newest discoveries — the two-way system.

This is no ordinary two-way system however. Turn it up and feel the superb low-frequency response. Listen to the midrange punch and the smoothest high end that you've ever heard. The Fifteen reaches far beyond previous two-way speaker systems.

At the heart of the Fifteen's impressive performance is an all new compression driver featuring Altec Lansing's innovative radial phase plug.* Nicknamed the "Tangerine," the new plug is a radical departure from the old circumferential phase plugs which tended to restrict some of the higher frequencies. The "Tangerine's" radial slot design, on the other hand, allows a free flow of high-frequency energy and results in smooth response to beyond 20 kHz.

Complementing the Fifteen's extended high-frequency response is a remarkable low-frequency enclosure that is the result of Altec Lansing's many years of enclosure tuning research. Coupled with a legendary Altec Lansing 12-inch bass driver, this enclosure delivers an optimum balance of low-frequency band limits and sensitivity.

The innovations don't end here, however. The Fifteen also features a built-in dual equalizer combined into the dividing network. It provides smooth, gradual equalization without affecting crossover frequency and allows the listener to tailor the sound to the room acoustics or to personal taste. You retain the advantages and flexibility of a three-way system without the inherent design problems.

Extended low end and extended high end in a two-way speaker. Unusual? Yes, but Altec Lansing has been doing the unusual for over forty years.

The Model Fifteen. Because sometimes you have to go back to go forward.

*U.S. Patent #4,050,541; Foreign patents pending.

Specifications:

Speaker Components—

Low Frequency: 12" bass driver

High Frequency: Radial phase plug* compression driver mounted to curved radial horn.

Nominal Impedance: 8 ohms

Crossover Frequency: 1700 Hz

Enclosure Type: Vented

Sensitivity: 90 dB SPL⁽¹⁾

Measured at 4 feet, 1 watt input, using pink noise which has been limited to a bandwidth of 500 Hz to 3 kHz.

94 dB SPL⁽²⁾

Frequency Response: 30 Hz to 20 kHz

Dispersion: 120° at -6 dB vertical
120° at -6 dB horizontal

Measured with pink noise limited to a bandwidth of 500 Hz to 8 kHz at a distance of 4 feet.

Long Term Broad Band

Maximum Power: 60 watts⁽²⁾

Measured with a source of pink noise limited to the frequency response bandwidth of the system, over an extended time period.

Amplifier Operating Range: 12 watts to 250 watts

Recommended maximum and minimum amplifier power⁽³⁾

Long Term Maximum

Acoustic Output: 111 dB SPL at 60 watts⁽²⁾

Measured with a source of pink noise limited to the frequency response bandwidth of the system at a distance of 4 feet.

Finish: Hand-rubbed oiled walnut or oak.

Grille: Acoustically transparent foam mounted on removable panel. Black supplied with walnut, brown with oak cabinet.

Dimensions: 22" W x 27" H x 15½" D with base and grille.

Shipping Weight: 84 lbs.—38.1 kg

Net Weight: 76 lbs.—34.5 kg

*Patent Pending

(1) Measured with shelving controls set at optimum.

(2) Measured with shelving controls fully clockwise.

(3) Amplifier operating range is for amplifier selection guidance only. Do not mistake it for the speaker's power capacity. Refer to full line catalog for clarification.



ALTEC LANSING INTERNATIONAL
1515 S. Manchester Ave., Anaheim, CA 92803 U.S.A.

Printed in U.S.A. 478 AL-6049-1



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COMPONENTS—

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120° at -6 dB vertical

120° at -6 dB horizontal

*Patent Pending

LONG TERM BROAD BAND MAXIMUM

POWER: 60 watts⁽²⁾

Measured with a source of pink noise limited to the frequency response bandwidth of the system, over an extended time period.

OPERATIONAL POWER

RANGE: 12 watts to 250 watts

Recommended for use with amplifiers between these levels.

LONG TERM

MAXIMUM ACOUSTIC OUTPUT:

111 dB SPL at 60 watts⁽²⁾

Measured with a source of pink noise limited to the frequency response bandwidth of the system at a distance of 4 feet.

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