



*Reference Series  
Home Theatre*



The experience of sound



## THE ULTIMATE SOUND FOR HOME THEATRE

DRAWING UPON OVER 30 YEARS OF EXPERIENCE IN THE RESEARCH AND DEVELOPMENT OF HIGH FIDELITY LOUDSPEAKERS, KEF HAS DESIGNED A COMPLETE NEW RANGE OF LOUDSPEAKERS, TO HOME THX® CERTIFICATION STANDARDS, WHICH DELIVER HOME THEATRE SOUND OF UNPARALLELED QUALITY.

THE LUCASFILM THX STANDARDS HAVE SUCCESSFULLY ESTABLISHED IMPORTANT CRITERIA FOR THE TOTAL PERFORMANCE OF MOVIE THEATRE SOUND SYSTEMS THROUGHOUT THE USA AND THE REST OF THE WORLD. TURNING THEIR ATTENTION TO THE DOMESTIC STAGE, LUCASFILM HAVE PRODUCED A SIMILAR SET OF STANDARDS FOR HOME AUDIO SYSTEMS. HOME THX CERTIFICATION IS YOUR GUARANTEE THAT THESE VERY HIGH STANDARDS HAVE BEEN MET AND THAT HIGH QUALITY REPRODUCTION OF MULTI-CHANNEL FILM SOUND IN THE HOME IS ASSURED.

HOWEVER, EXPERIENCED AUDIOPHILES AND PERCEPTIVE MUSIC LOVERS ALIKE, KNOW THAT AUDIO COMPONENTS, ESPECIALLY LOUDSPEAKERS, CAN HAVE NEARLY IDENTICAL SPECIFICATIONS AND YET IN NO WAY SHARE IDENTICAL SOUND QUALITY. IN A DESIRE TO PRODUCE THE MOST SUPERIOR HOME THEATRE SOUND QUALITY AVAILABLE, KEF HAS EMBRACED HOME THX ESTABLISHED PERFORMANCE STANDARDS - AND MORE. TOGETHER THE KEF THX AV1 SUBWOOFER, AV2 SURROUND SPEAKERS AND THE AV3 FRONT LEFT, CENTRE, RIGHT (LCR) SPEAKERS FORM A COMPLETELY INTEGRATED SIX-SPEAKER SYSTEM THAT ACHIEVES HOME THEATRE SOUND QUALITY WHICH OTHER SYSTEMS WOULD FIND DIFFICULT TO EQUAL.



### THE KEF HOME THX SYSTEM

A COMPLETE KEF HOME THX SYSTEM EMPLOYS ONE AV1 SUBWOOFER, THREE AV3 LCR SPEAKERS FOR THE LEFT, CENTRE AND RIGHT POSITIONS IN FRONT, AND TWO AV2 SURROUND SPEAKERS ON THE SIDE WALLS OF THE VIEWING ROOM. THE ASTONISHING BASS OF THE AV1 SUBWOOFER MEANS THAT THE SYSTEM'S OTHER SPEAKERS ARE FREED FROM THE BURDEN OF DEEP BASS REPRODUCTION, ALLOWING THEM TO GENERATE HIGH OUTPUT SOUND OF THE HIGHEST QUALITY FROM COMPACT ENCLOSURES. THE KEF HOME THX SYSTEM UNOBTRUSIVELY AND ELEGANTLY DELIVERS THE ULTIMATE IN HOME THEATRE SOUND QUALITY.

### KEF AV1 HOME THX SUBWOOFER

| FEATURE:  | ADVANTAGE:   | BENEFIT:  |
|---|--|---|
| ■ THE KEF DUAL COUPLED CAVITY BASS SYSTEM WITH TWO 10" (250mm) DRIVERS  | ■ DELIVERS TREMENDOUS BASS OUTPUT TO THE LOWEST REGISTERS OF RECORDED MUSIC AND FILM SOUND   | ■ SOUND EFFECTS E.G. HELICOPTERS, EARTHQUAKES REPRODUCED WITH STUNNING REALISM  |
| ■ KEF'S FORCE CANCELLING ROD  | ■ RIGIDLY JOINS THE TWO WOOFER DRIVERS TO SUPPRESS DISTORTION FROM UNWANTED VIBRATION  | ■ PRODUCES A CLEANER SOUND  |
| ■ EXCLUSIVE KEF POWER ACTIVATOR AMPLIFIER SYSTEM SUPPLIES UP TO 200 WATTS TO EACH WOOFER DRIVER FOR 115 dB OUTPUT | ■ COMFORTABLY EXCEEDS THE HOME THX OUTPUT REQUIREMENT USING A SINGLE SUBWOOFER CABINET   | ■ DELIVERS A HUGE AMOUNT OF BASS SOUND FROM A COMPARATIVELY SMALL ENCLOSURE   |
| ■ POWER ACTIVATOR TECHNOLOGY FEATURES PARTIAL CURRENT DRIVE   | ■ REDUCES DISTORTION DUE TO THERMAL COMPRESSION AND IMPEDANCE VARIATIONS IN THE WOOFER DRIVERS   | ■ SUPERB CLARITY AT HIGH LEVELS   |
| ■ SWITCHABLE HOME THX AND STEREO OPERATING MODES  | ■ IN STEREO MODE, RESPONSE EXTENDS DOWN TO 22 Hz, ± 2.5 dB. WHILE THE UPPER CUT-OFF FREQUENCY IS CONTINUOUSLY ADJUSTABLE FROM 50 Hz TO 150 Hz. | ■ PROVIDES FOR OPTIMUM PERFORMANCE FOR FILM SOUND OR MUSIC  |
| ■ BLEND CONTROL   | ■ PROVIDES ADJUSTMENT OF THE RELATIVE PHASE OF THE SUBWOOFER OUTPUT COMPARED TO THE FRONT (SATELLITE) OUTPUTS                                  | ■ ENABLES THE SYSTEM TO BE OPTIMISED FOR THE SMOOTHEST OVERALL RESPONSE AND ACCURATE TRANSIENT ATTACK, REGARDLESS OF ITS POSITION IN THE ROOM |



MODEL AV1



**KEF AV3 HOME THX LCR (LEFT, CENTRE, RIGHT) SPEAKER**

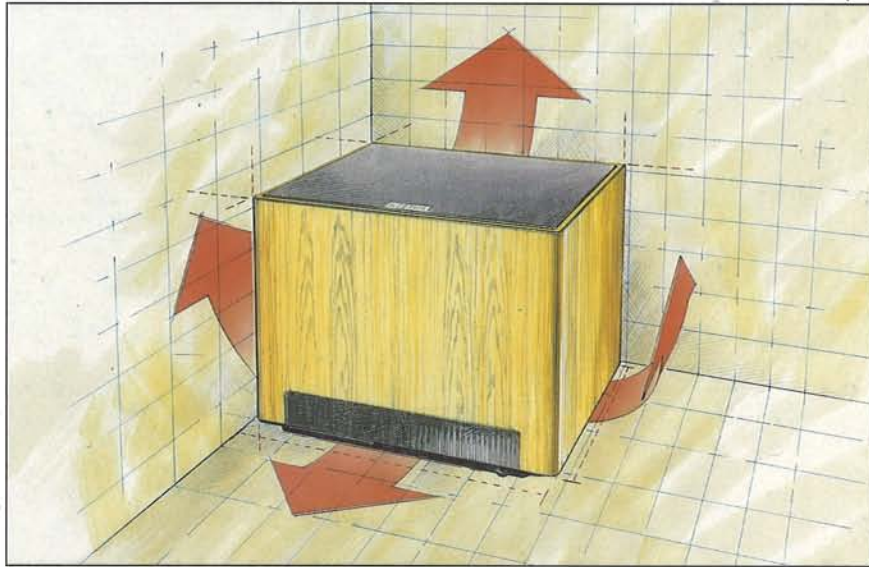
| FEATURE:  | ADVANTAGE:  | BENEFIT:   |
|---|---|--|
| <ul style="list-style-type: none"> <li>■ DESIGNED SPECIFICALLY FOR HIGH ACCURACY MULTI-CHANNEL DIALOGUE AND MUSIC REPRODUCTION</li> </ul> | <ul style="list-style-type: none"> <li>■ MEETS THE CRITERIA FOR FRONT LOUDSPEAKERS IN A THX SYSTEM : IDENTICAL SOUND QUALITY, WIDE HORIZONTAL COVERAGE, CONTROLLED VERTICAL DISPERSION</li> </ul> | <ul style="list-style-type: none"> <li>■ GIVES GREATER CLARITY AND DIFFERENTIATION TO MAIN CHARACTER DIALOGUE</li> </ul>   |
| <ul style="list-style-type: none"> <li>■ WIDE HORIZONTAL COVERAGE PATTERN</li> </ul>  | <ul style="list-style-type: none"> <li>■ DELIVERS SMOOTH, BALANCED SOUND FROM ALL THREE FRONT CHANNELS TO EVERY VIEWING POSITION</li> </ul>   | <ul style="list-style-type: none"> <li>■ WHEREVER YOU SIT THE IMAGING OF ACTION ON THE 'ACOUSTIC' SCREEN ACCURATELY MATCHES THE ACTION ON THE VISUAL SCREEN</li> </ul> |
| <ul style="list-style-type: none"> <li>■ VERTICAL ARRAY OF THREE 1" DOME TWEETERS BETWEEN TWO 8.5" WOOFERS</li> </ul>                     | <ul style="list-style-type: none"> <li>■ PROVIDES FOCUSED VERTICAL DISPERSION TO CONTROL UNWANTED REFLECTIONS FROM FLOOR AND CEILING</li> </ul>   | <ul style="list-style-type: none"> <li>■ THE MAJORITY OF SOUND COMES DIRECTLY TO THE VIEWER IMPROVING IMAGING AND INTELLIGIBILITY</li> </ul>                           |



**KEF AV2 HOME THX SURROUND SPEAKER**

| FEATURE:  | ADVANTAGE:  | BENEFIT:  |
|---|---|---|
| <ul style="list-style-type: none"> <li>■ ENCLOSURE DESIGN PRECISELY ANGLES THE OUT-OF-PHASE PAIRS OF 4" MIDRANGES AND 1" DOME TWEETERS</li> </ul> | <ul style="list-style-type: none"> <li>■ DELIVERS OPTIMUM FREQUENCY RESPONSE AND COVERAGE PATTERN FROM HOME THX SPECIFIED DIFFUSE SURROUND CHARACTERISTICS</li> </ul> | <ul style="list-style-type: none"> <li>■ CREATES AN OPTIMALLY ENVELOPING DIFFUSE SOUND FIELD FOR AMBIENT AND OFF-SCREEN SOUNDS</li> </ul> |
| <ul style="list-style-type: none"> <li>■ HIGH PERFORMANCE 5" WOOFER IS REFLEX-LOADED</li> </ul>   | <ul style="list-style-type: none"> <li>■ ALLOWS FOR HIGH OUTPUT, HIGH POWER HANDLING (100 WATTS) AND LOW DISTORTION</li> </ul>  | <ul style="list-style-type: none"> <li>■ DELIVERS EXCEPTIONALLY GOOD BASS FOR A SURROUND SPEAKER</li> </ul>                               |
| <ul style="list-style-type: none"> <li>■ EXTREMELY COMPACT DIMENSIONS</li> </ul>  | <ul style="list-style-type: none"> <li>■ EASY TO POSITION</li> </ul>  | <ul style="list-style-type: none"> <li>■ COMPLETELY UNOBTRUSIVE - DISAPPEARS VISUALLY AS WELL AS AUDIBLY</li> </ul>                       |

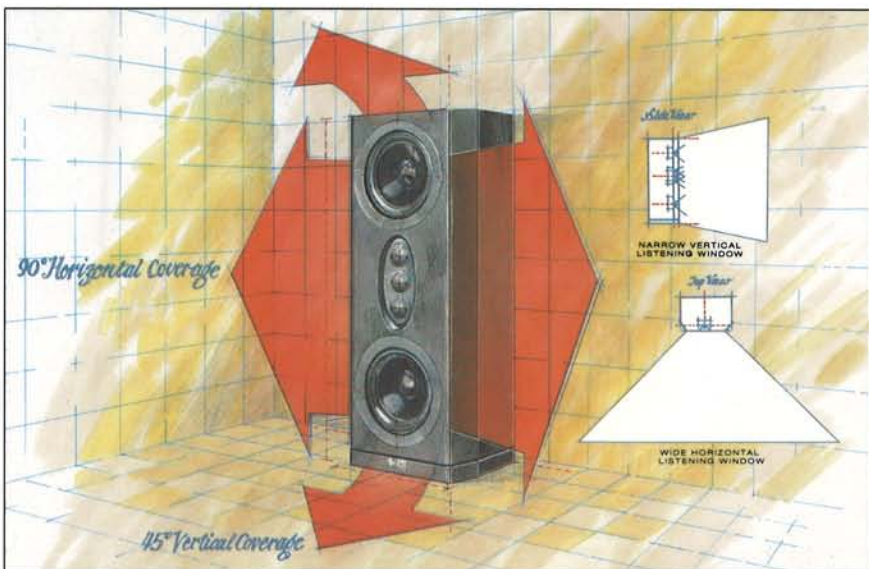




**KEF AV1 SUBWOOFER SOUND PATH CHART:** THE HEART OF THE KEF HOME THX SYSTEM, THE POWERFUL, COMPACT AV1 EASILY SUPPLIES ALL OF THE DEEP BASS NEEDED FOR STUNNING FILM SOUND OR MUSIC REPRODUCTION. THE AV1'S OMNIDIRECTIONAL COVERAGE AND ITS REMARKABLE BLEND CONTROL TECHNOLOGY ALLOWS IT TO BE PLACED WHEREVER IT FITS BEST IN THE VIEWING ROOM, YET MESH SEAMLESSLY AND UNDETECTABLY WITH OTHER SPEAKERS.



**KEF AV2 SURROUND SPEAKERS SOUND PATH CHART:** THX SURROUND SPEAKERS MUST GENERATE DIFFUSE SOUNDS, WITHOUT ALLOWING MID OR HIGH FREQUENCIES TO REACH THE VIEWERS DIRECTLY. WHEN MOUNTED ON THE VIEWING ROOM'S SIDE WALLS (OR ON THE CEILING TO THE SIDES OF THE LISTENER), THE AV2'S PRECISION COVERAGE CHARACTERISTICS ALLOW THEM TO PRODUCE THE DIFFUSE OFF-SCREEN AND AMBIENT SOUNDS WHICH ARE VITAL TO THE REALISM AND 'ATMOSPHERE' OF SURROUND-ENCODED BROADCASTS AND VIDEO FILMS.



**KEF AV3 LCR SPEAKERS SOUND PATH CHART:** FOR THE ULTIMATE IN HOME THEATRE SOUND, THE THREE FRONT SPEAKERS MUST BE IDENTICAL, ENSURING THAT EACH ON-SCREEN SOUND REMAINS ABSOLUTELY CONSISTENT IN QUALITY, DESPITE ITS APPARENT LOCATION, MOTION OR CHANGE IN PERSPECTIVE. THE CAREFULLY DESIGNED COVERAGE PATTERNS OF THE AV3 MEAN THAT EACH FRONT SPEAKER DELIVERS ACCURATE SOUND TO EVERY VIEWER, WHILE CONTROLLING UNWANTED REFLECTIONS FROM ROOM BOUNDARIES THAT CAN DEGRADE THE OVERALL SOUND QUALITY.



## SPECIFICATIONS



|                                      | <b>MODEL AV1</b>                          | <b>MODEL AV2</b>    | <b>MODEL AV3</b>   |
|--------------------------------------|---|---------------------|--------------------|
| <b>FREQUENCY RANGE: ±3dB</b>         | ■ 35Hz-80Hz (THX),<br>22Hz-150Hz (STEREO) | ■ 125Hz-8kHz        | ■ 80Hz - 20kHz     |
| <b>-6dB POINT</b>                    | ■ 29Hz (THX), 18Hz (STEREO)               |                     |                    |
| <b>CROSSOVER POINT</b>               | ■ 80Hz (THX), 80-150Hz (STEREO)           | ■ 400Hz, 3kHz       | ■ 3kHz             |
| <b>MAXIMUM OUTPUT CHARACTERISTIC</b> | ■ 115dB                                   | ■ 110dB             | ■ 112dB            |
| <b>SENSITIVITY LEVEL</b>             | ■ ACTIVE SYSTEM                           | ■ 89dB              | ■ 90dB             |
| <b>AMPLIFIER REQUIREMENTS</b>        | ■ ACTIVE SYSTEM                           | ■ 10-100W           | ■ 10-150W          |
| <b>NOMINAL IMPEDANCE</b>             | ■ ACTIVE SYSTEM                           | ■ 4 OHMS            | ■ 4 OHMS           |
| <b>ENCLOSURE TYPE</b>                | ■ COUPLED CAVITY                          | ■ REFLEX            | ■ CLOSED BOX       |
| <b>INTERNAL VOLUME</b>               | ■ 70 LITRES                               | ■ 3.2 LITRES        | ■ 9.2 LITRES       |
| <b>NET WEIGHT</b>                    | ■ 49.75KG (109.5LBS)                      | ■ 6KG (13.2LBS)     | ■ 12.7KG (28LBS)   |
| <b>DIMENSIONS (H X W X D)MM</b>      | ■ 428 X 560 X 500 (EXC. FEET)             | ■ 260 X 310 X 130   | ■ 570 X 240 X 190  |
| <b>INS</b>                           | ■ 16.8 X 22.0 X 19.7                      | ■ 10.2 X 12.2 X 5.1 | ■ 22.4 X 9.4 X 7.5 |

### MODEL AV1 'ACTIVATOR' ADDITIONAL DATA

|                                     |   |
|-------------------------------------|---|
| <b>BALANCED SIGNAL INPUTS</b>       | ■ XLR/BINDING POSTS   |
| <b>UNBALANCED SIGNAL INPUTS</b>     | ■ RCA PHONO SOCKETS   |
| <b>INPUT SENSITIVITY</b>            | ■ 0 dBm (775mV)   |
| <b>INPUT IMPEDENCE</b>              | ■ 22 kOHMS (UNBALANCED)<br>■ 100 kOHMS (BALANCED)   |
| <b>BLEND CONTROL</b>                | ■ COMPENSATES FOR THE PHASE DIFFERENCE IN EFFECT, DUE TO THE PHYSICAL POSITION OF THE SUBWOOFER, RELATIVE TO THE SATELLITE SPEAKERS                             |
| <b>TWO LOW LEVEL SIGNAL OUTPUTS</b> | ■ 1. FILTERED OUTPUT FEEDS ONLY FREQUENCIES ABOVE 100 Hz TO THE SATELLITE OUTPUT SOCKETS<br>■ 2. UNFILTERED OUTPUT IS DIRECTLY FED FROM UNBALANCED PHONO INPUTS |
| <b>POWER REQUIREMENTS</b>           | ■ 110-120V OR 220-240V, 50-60Hz   |
| <b>POWER CONSUMPTION</b>            | ■ 500 VA BOTH CHANNELS DRIVEN AT FULL OUTPUT  |

KEF HOME THX SPEAKERS ARE AVAILABLE IN THE FOLLOWING FINISHES:  
**MODEL AV1** ROSEWOOD OR BLACK ASH, **MODEL AV2** AND **MODEL AV3** VIDEO GREY.

ALTERNATIVE ROSEWOOD FINISH FOR AV1



**The experience of sound**

KEF AUDIO (UK) LTD, ECCLESTON ROAD, TOVIL, MAIDSTONE, KENT ME15 6QP UK  
KEF ELECTRONICS OF AMERICA, INC 89 DOUG BROWN WAY, HOLLISTON, MA 01746 USA

KEF IS A REGISTERED TRADEMARK  
THX AND LUCASFILM ARE REGISTERED TRADEMARKS OF LUCASFILM LTD  
DOLBY SURROUND IS A TRADEMARK OF DOLBY LABORATORIES LICENSING CORPORATION LTD. PL923EN  
KEF AUDIO RESERVE THE RIGHT, IN LINE WITH CONTINUING RESEARCH AND DEVELOPMENT, TO AMEND OR CHANGE SPECIFICATIONS