

The background of the entire image is a dark blue gradient. It is decorated with several large, stylized, swirling patterns in a lighter blue and greenish-blue color. These patterns resemble sound waves or abstract organic forms. In the corners, there are partial views of circular, mechanical-looking structures, possibly representing speaker drivers or internal components of a sound system.

Meyer Sound®

EXP

bringing power and clarity to cinema sound

# meyer sound EXP

BRINGING POWER AND CLARITY TO CINEMA SOUND

Introduced in 2009, Meyer Sound's EXP is the first cinema system of its kind, created exclusively for the unique demands of cinema applications from post-production to exhibition.

Meyer Sound's EXP defines rigorous performance levels for cinema sound from the dub stage to exhibition. Built for sonic linearity, EXP systems empower sound designers and mixers to create soundtracks with greater nuance and precision, and give cinema operators the ability to faithfully reproduce these soundtracks without distortion to every seat in the house.

Based around the new Acheron line of self-powered loudspeakers\*, system integration tools, and comprehensive design support, EXP comprises system design and the accurate implementation of performance criteria which comply with SMPTE industry standards.

With greater headroom, lower distortion, flatter frequency and phase response, and superior uniformity, Meyer Sound EXP systems give audiences a movie-going experience that keeps them coming back.

\* EXP systems can utilize other Meyer Sound THX-approved loudspeakers.

## LINEAR SYSTEMS FOR CINEMA SOUND

AN IDEA SO SIMPLE, IT'S BRILLIANT.

The concept is simple. Linear sound systems are built so that the sound you put in is what you get out. For sound engineers, mixers and directors, this is critical in the recording studio, and equally important in theatres where their films are seen. Until now, movie directors could never be sure how their movies sounded to audiences: movie theatre sound systems have traditionally been complicated combinations of loudspeakers that need to be tweaked and adjusted depending on the movie sound track or the time of day the movie is being played. What the audience hears depends on the sound system of the theatre they go to and where they sit in that theatre.

Meyer Sound's EXP systems take the guesswork out of the equation, and ensure that audiences will hear the soundtrack exactly as it was recorded. EXP systems also make it easy to move sound effects around the room to provide audiences with richer, more immersive experiences. And there are no bad seats. Sometimes simple is brilliant.



“THE CLARITY AND  
DYNAMICS OF MEYER  
SYSTEMS DELIGHTFULLY  
ENHANCE THE WHOLE  
EXPERIENCE OF  
WATCHING MOVIES”

**RICHARD KING**  
SUPERVISING SOUND EDITOR  
AND SOUND DESIGNER  
“THE DARK KNIGHT”  
“INCEPTION” (OSCAR WINNER:  
BEST SOUND EDITING)

Meyer Sound  
**EXP**

TODAY'S AUDIENCES BRING A NEW SET OF EXPECTATIONS

EXP'S LINEAR SYSTEMS PRESENT THE

# rich, exciting sound audiences crave

WHETHER IT'S 2-D, 3-D OR SIMULCAST

3-D cinema has radically changed audience expectations for what the visual experience of going to the movies can be like. But few have had the opportunity to experience the difference that faithful reproduction of a movie soundtrack can make. This is because until now, cinema sound capabilities have not kept up with advances in imagery. An audience's expectations of cinema sound has been based on compressed audio, not the full spectrum of detail that is actually built into soundtracks.

Meyer Sound's screen channel loudspeakers, surrounds, subwoofers, and electronics are built on the principles of linear systems—the sound you put in, is the

sound you get out. Manufactured under extremely tight tolerances, the loudspeakers work together to deliver soundtracks as they were recorded—with remarkable clarity, power, and transparency delivered to every seat, without distortion.

Meyer Sound's EXP products were created through close collaboration with technical and creative industry professionals to ensure that they not only exceed audiences' expectations but meet the needs of professionals. Based on the demands of leading movie sound designers, we've drawn on our unparalleled expertise in developing low-distortion horns to design purpose-built horns for cinema. They are

tested in our in-house anechoic chamber, refined, and optimized for performance behind perforated screens.

To ensure accurate performance of Meyer Sound EXP systems, we've created MAPP Online Cinema, a powerful prediction tool that takes the guesswork out of matching the systems to your room.

Together with our measurement and system control electronics, this new scientific approach to achieving optimal sound delivers complete solutions for any sound-for-picture listening environment.



Meyer Sound  
**EXP**



MAKING THEATRES GREAT PLACES TO SEE MOVIES

# cinema sound for exhibition

## READY TO COMPETE

Today's audiences have many viewing options from home theatres to multiplexes. Presentation quality is critical—but not just for visuals.

Powerful, clear audio where every sound is heard and the bass is felt significantly enhances the audience's perception of a movie. With Meyer Sound's EXP, your audience will be truly immersed in the movie rather than struggling to hear the dialogue.

A cinema equipped with an EXP system gives audiences a decidedly unique and exciting experience they can't get anywhere else—so, they'll keep coming back.

## READY FOR 3-D, ANTICIPATING 4K AND BEYOND

3-D is here to stay but with most cinema sound systems the illusion of depth still falls flat. Meyer Sound EXP provides a complete system for creating the ideal 3-D sound field: self-powered loudspeakers with superior phase coherence, MAPP Online Cinema for matching the system to the room, SIM 3 for fine tuning, and Galileo for zone-by-zone control.

Meyer Sound EXP systems are prepared for the advance of digital cinema into 4K screen resolution and even new technologies beyond that, so investing now in EXP will give cinema owners the edge when it comes to giving audiences crisp, clear audio to match the sophisticated new video technologies that are right around the corner.

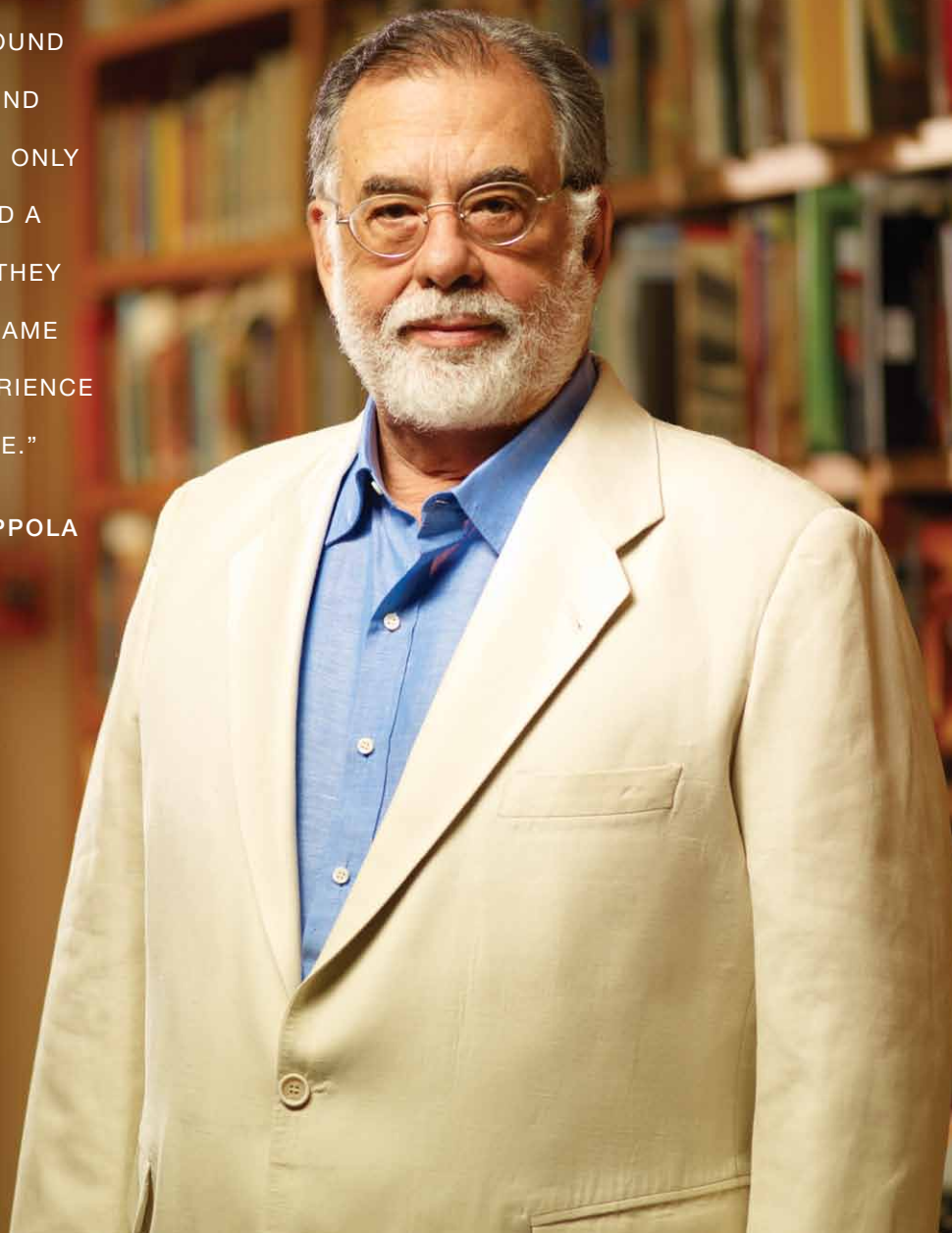
## MAKING CINEMAS TRULY MULTI-PURPOSE

It's one thing to watch a concert or sporting event on screen, and quite another to feel like you're really there. EXP helps transform conventional theatres into dynamic audio/visual environments by bringing the action and sonic detail of live events to every seat. Because Meyer Sound's EXP systems are built with the same technology as loudspeakers for live sound, they can handle the complex demands of live sound and simulcasts without distorting or muffling the sound. Theatres equipped with Meyer Sound EXP now have the opportunity to offer audiences an entirely new type of entertainment experience.

“I’M VERY IMPRESSED WITH  
THE EFFORTLESS POWER  
AND CLARITY OF SOUND  
OF THE MEYER SOUND  
CINEMA SYSTEM. IF ONLY  
EVERY THEATRE HAD A  
SYSTEM LIKE THIS THEY  
WOULD HAVE THE SAME  
REMARKABLE EXPERIENCE  
I HAVE ON MY STAGE.”

FRANCIS FORD COPPOLA  
FILMMAKER

Meyer Sound  
**EXP**



# EXP for audio post

TRANSPARENT, COHERENT SOUND-FOR-PICTURE MONITORING

Meyer Sound's full line of EXP products was created with the whole audio chain in mind. Designed for the monitoring needs of sound-for-picture, Acheron systems are based on Meyer Sound's original HD-1 high-definition audio monitor. Known for its transparency, the HD-1 has allowed generations of award-winning sound designers to hear the full detail of their sources. Premixes monitored on an HD-1 translate to the dub stage with only minor tweaking, saving valuable production time. The same is true for Acheron Studio and Acheron Designer, which were designed for the specific needs of post-production. Based on Meyer Sound's devotion to the principles of linear systems, Acheron screen channel loudspeakers allow every nuance of the audio source to come through without misleading coloration or distortion, and without causing fatigue. Soundtracks mixed on Acheron translate smoothly to exhibition.

EXP is fast becoming the monitoring standard for film sound production, with systems in use at California's Skywalker Sound, American Zoetrope, Wildfire Studios, 20th Century Fox, and at De Lane Lea in London.

## EUROPE'S FIRST POST FACILITY WITH MEYER SOUND EXP

DE LANE LEA | LONDON, ENGLAND

London's De Lane Lea specializes in sound post-production for feature films and television including "Fantastic Mr. Fox," "Green Zone," "Wallace and Gromit: A Matter of Loaf and Death," and more. To provide exceptional audio capabilities for mixing feature films that translate smoothly for reproduction in cinemas, De Lane Lea upgraded to Meyer Sound EXP systems in Studios 1, 2 and 3.

De Lane Lea's upgrade included Meyer Sound Acheron 80, Acheron LF, Acheron Studio, HMS-10 full-range two-way loudspeakers, Galileo, SIM, X-800 subwoofers, refurbished consoles, new fabrics and acoustics.

"Switching to Meyer Sound is virtually unprecedented in our industry," says Mike King, general manager. "Yet, it made complete sense. Everyone who has visited the facility can hear the difference."

Considered the leading post-production facility in Europe, De Lane Lea was the one-time recording studio of The Beatles, The Who, Pink Floyd, Deep Purple and Queen.



“THE NEW MEYER SPEAKER  
SYSTEM HAS PROVIDED A  
SIGNIFICANT LEAP FORWARD  
IN ALL ASPECTS OF THE  
AUDIO MONITORING.”

**CHRIS BURDON**  
RESIDENT MIXER  
DE LANE LEA

DE LANE LEA

SETTING NEW STANDARDS IN SCREEN CHANNEL LOUDSPEAKERS, SURROUNDS AND SUBS

# acheron



“ACHERON’S CLARITY AND POWER, ALONG WITH EASE OF SETUP AND EQUALIZATION TRIMMING, MAKES THEM UNIQUE IN MY EXPERIENCE. I’VE NEVER HAD THE PLEASURE OF A WORKING WITH A BETTER MONITORING SETUP.”

**WALTER MURCH**

ACADEMY AWARD-WINNING FILM EDITOR  
AND RE-RECORDING MIXER

“APOCALYPSE NOW”

“THE ENGLISH PATIENT”

“THE CONVERSATION”



## ACHERON 100/80

At the heart of Meyer Sound’s EXP cinema line of loudspeakers is the high-performance Acheron screen channel loudspeaker.

Optimized for installation behind perforated screens, the two-way loudspeaker combines the advantages of self-powered technology and innovative horn design to deliver precise coverage for cinema screen sound channels. Acheron 100 and 80 are identical except for horizontal coverage.

### SPECIFICATIONS:

#### **Operating**

**Frequency Range:** 37 Hz—18 kHz

**Maximum Peak SPL:** 139 dB

**Horizontal Coverage:** 100° (Acheron 100);  
80° (Acheron 80)

**Vertical Coverage:** 50°

**Crossover:** 580 Hz



### ACHERON LF

Designed to augment the Acheron 80 and 100 screen channel loudspeakers in larger venues, the Acheron LF low frequency extension loudspeaker exhibits extraordinarily flat amplitude and phase response for tonal accuracy, exceptional clarity and extended headroom, and its self-powered design provides ease of installation and reliability.

#### SPECIFICATIONS:

##### Operating

**Frequency Range:** 37 Hz—370 Hz

**Maximum Peak SPL:** 136 dB

**Crossover:** 200 Hz



### ACHERON STUDIO

Designed for smaller theatres and postproduction facilities, the Acheron Studio offers the same exceptional fidelity and extended high-frequency performance as the Acheron with a convection-cooled amplifier for very quiet rooms. Seamless integration with the HMS-10 surround loudspeakers and the X-800C subwoofer create a complete system for smaller venues.

#### SPECIFICATIONS:

##### Operating

**Frequency Range:** 37 Hz—18 kHz

**Maximum Peak SPL:** 134 dB

**Coverage:** 80° horizontal x 50° vertical



### ACHERON DESIGNER

Acheron Designer is an excellent choice for sound designers, screening rooms, small commercial movie theatres, and private theatres. Offering the same operating frequency range as other Acheron models, and the same patent-pending horn technology and high-frequency compression driver, Acheron Designer ensures seamless translation to larger theatre screen channel systems.

#### PRELIMINARY SPECIFICATIONS:

##### Operating

**Frequency Range:** 37 Hz—18 kHz

**Maximum Peak SPL:** 130 dB

**Coverage:** 80° horizontal x 50° vertical

CLARITY AND DETAIL AT EVERY SEAT

# surrounds and subwoofers



## X-800C

X-800C is a linear, powerful subwoofer for cinema that features two Meyer Sound long-excursion 18-inch drivers in a tuned, vented, self-powered cabinet. Offering excellent phase coherence for smooth transitioning from screen channels to LFE, the X-800C delivers extended low frequency response with ample headroom for clear, punchy transients even at very high levels. The X-800C is THX-approved.

### SPECIFICATIONS:

#### Operating

**Frequency Range:** 20 Hz—200 Hz

**Maximum Peak SPL:** 136 dB



## HMS-10

HMS-10 is a full-range two-way loudspeaker optimized for surround channels in theatres and dub stages. Designed for a new era of coherent surround sound in theatres, HMS-10 delivers surround information with remarkable clarity and detail, producing a robust peak power output of 126 dB SPL at 1 meter. HMS-10 also offers the exceptional phase coherence that is crucial for accurate reproduction of spatial cues, which makes them particularly well suited for theatres screening in 3-D.

The compact and lightweight HMS-10 is specifically designed for surround installations. A 15-degree front side slant

keeps the sound directed at the audience when the back of the enclosure is flush-mounted, and an 80-by-80-degree horn provides wide coverage. The 48-volt remote powering for the HMS-10 built-in amplifiers provides the advantages of self-powered loudspeakers but simplifies installation by allowing connection via low-voltage wire run outside of conduit (subject to local codes). The HMS-10 is THX-approved.

### SPECIFICATIONS:

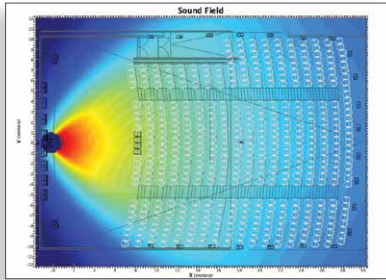
#### Operating

**Frequency Range:** 55 Hz—18 kHz

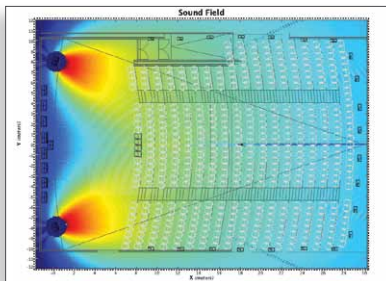
**Maximum Peak SPL:** 126 dB

**Coverage:** 80° symmetrical

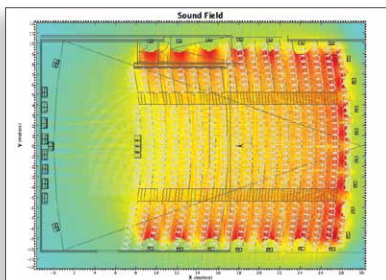
# integration tools for EXP



Acheron 100 Center Plan at 4 kHz



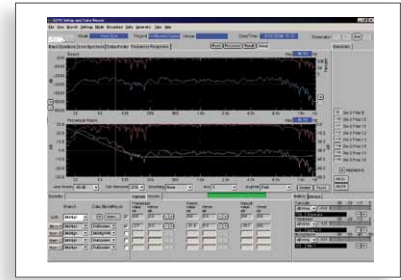
Acheron 80 Left/Right Plan at 4 kHz



Surround Plan at 4 kHz

## MAPP ONLINE CINEMA

The patented MAPP Online Cinema is a powerful software application for accurately predicting the coverage pattern, frequency response, impulse response, and maximum SPL output of the EXP system's screen channel loudspeakers, surrounds, and subwoofers. Designers can configure the environment in which they will operate, including air temperature, pressure and humidity, as well as the location and composition of surfaces. Multiple "what if" scenarios can be run in minutes to refine the system design for best coverage of the intended audience area, ensuring a system that will deliver the rich, exciting sound that today's audiences demand.



## SIM 3

Built on over 20 years of research and development and ongoing worldwide field testing, the award-winning SIM 3 audio analyzer gives audio practitioners the ability to test entire acoustical/electronic systems or individual electronic components with unprecedented power and speed: more than 2,000 FFTs per second with results at high resolution in less than one second. With SIM 3, cinema owners can be assured that each of their patrons enjoys the same high-quality sonic experience.

**Meyer Sound**  
**EXP**



# EXP worldwide

REDEFINING CINEMA AT COMMERCIAL CINEMAS IN NORTH AMERICA, EUROPE, ASIA AND INDIA

## “MAXXIMUM SOUND” MAXIMIZES AUDIENCES

### **CinemaxX AG**

Germany and Denmark

The Hamburg, Germany-based CinemaxX AG is a publicly traded chain of cinemas in Germany and Denmark with a total of 34 cinemas, and approximately 300 screens and 80,000 seats. In 2010, they began a major retrofit with Meyer Sound EXP in 60 theatres in Hamburg, Copenhagen, Berlin and Munich. The project is targeted to be completed in 2013.

Theatres equipped with EXP are advertised as offering a “MaxXimum Sound” experience.

The self-powered EXP systems encompass Acheron screen channel loudspeakers, coupled with Acheron LF low frequency screen channel loudspeakers. Also included are X-800C cinema subwoofers and HMS-10 surround loudspeakers, with precise digital optimization by the Galileo loudspeaker management system.

## ASIA'S FIRST EXP SYSTEM

### **Megabox KINTEX**

Seoul, South Korea

Asia's first Meyer Sound EXP cinema system is installed at the premium “M” screen at Megabox's KINTEX near Seoul. This 200-seat luxury theatre features a 19-meter-wide screen, and Sony 4K digital projection. The EXP system comprises Acheron 80 and Acheron 100 screen channel loudspeakers, each supplemented by Acheron LF low frequency screen channel loudspeakers. Sub-bass X-800C subwoofers supply convincing LFE, while HMS-10 surround loudspeakers immerse patrons with stunning sonic realism.

“The film exhibition market in Korea is fast-growing and extremely competitive,” says Brooke Lee of Kinton Korea, the system supplier and integrator. “The dynamic power and accuracy of EXP proved a perfect match for the upscale ‘M’ concept.”

“WITH MEYER SOUND EXP, WE HAVE AN AUDIO COMPONENT THAT IS FULLY EQUAL TO THE 4K DIGITAL IMAGE. SINCE INSTALLING OUR EXP SYSTEMS, OUR AUDIENCES HAVE NOTICED THE AMAZING DIFFERENCE.”

CHRISTIAN GISY  
CEO  
CINEMAXX



Meyer Sound  
**EXP**

# EXP worldwide cont'd

## FOR THE PREMIUM CINEMA EXPERIENCE, EXHIBITION OWNERS TURN TO MEYER SOUND EXP

### **Cinetopia**

Oregon and Washington, USA

Expanding throughout the Portland, Oregon metro area, the Cinetopia entertainment concept seamlessly integrates film screenings with on-site fine dining, live music, wine tasting and art exhibition.

Cinetopia's two newest cineplex sites take the concept a step further with the debut of "Grand XL", a premium wide-screen experience featuring Meyer Sound EXP.

"With 'Cinetopia 2.0' we are redefining the entire film exhibition model," says Cinetopia owner Rudyard Coltman, "Meyer Sound is an integral part of our branding strategy."

### **Solaris Kino and Cinema Artis**

Solaris Centre, Tallinn, Estonia


The Solaris Kino commercial cinema complex offers seven screening rooms, varying in capacity from 80 to 525 seats. Each room is equipped with an appropriately scaled EXP cinema sound system based on Acheron screen loudspeakers, X-800C subwoofers and HMS-10 surround loudspeakers. Situated on the third level of the Solaris Centre, Cinema Artis caters to connoisseurs of art film genres. The Meyer Sound EXP systems here are identical to those in equivalent rooms at Solaris Kino.

### **Urvashi Digital Cinema**

Bangalore, India

Urvashi Digital Cinema in Bangalore is the first and largest venue in India to install a permanent Meyer Sound EXP system. Originally built more than 50 years ago, Urvashi Digital Cinema seats nearly 1,200. It has flourished as a large single-screen operation by offering the latest exhibition technologies.

"We wanted sound that was not only better than what we had before, but also far better than what is heard in other cinemas in India. By matching our dual 4K 3-D projection with the Meyer Sound EXP system, Urvashi can now offer the ultimate movie-going experience," says Amit Gowda, Urvashi Digital Cinema's owner.



“EXP IS THE BEST CINEMA  
SOUND SYSTEM AVAILABLE.  
WITH THE ADVENT OF  
DIGITAL CINEMA AND  
UNCOMPRESSED SOUND  
TRACKS, MANY CINEMAS  
WILL HAVE TO UPGRADE  
TO MEET THOSE DEMANDS,  
BUT WE ARE FUTURE-PROOF  
WITH EXP.”

**PRIIT REBANE**  
BALTIC DEVELOPMENT GROUP  
MANAGING PARTNER  
SOLARIS CENTER

Meyer Sound  
**EXP**



MANUFACTURING WITHOUT COMPROMISE

# the art and science of sound reproduction

WITH A 30+ YEAR TRACK-RECORD OF TECHNOLOGY INNOVATION, MEYER SOUND OFFERS A FULL RANGE OF PROFESSIONAL AUDIO PRODUCTS FOR LIVE SOUND, CLASSICAL MUSIC, THEATRE, CORPORATE AV AND CINEMA, INCLUDING LOUDSPEAKERS, DIGITAL AUDIO PROCESSING SYSTEMS, AND ELECTRO-ACOUSTIC MODELING AND MEASUREMENT SYSTEMS.

Family-owned and operated since 1979, Meyer Sound is devoted to manufacturing the finest professional audio products for the world's leading entertainers, sound designers, concert halls, and cinemas. Artists that have toured with Meyer Sound loudspeaker systems include Norah Jones, Michael Bublé, Metallica, Céline Dion, Leonard Cohen, and many more.

All Meyer Sound products are manufactured at our headquarters in Berkeley, California, where every aspect of manufacturing is directly overseen by senior engineering and production staff.

Our exhaustive quality control process, including thorough and repeated testing

of everything from incoming parts and assembled components, to complete systems – guarantees unparalleled consistency, reliability and quality. Every unit is individually tested against the reference unit to guarantee performance and match precise design specifications.

But meticulously crafted products are only part of the picture. Meyer Sound provides customers with the most extensive and knowledgeable customer support and service in the industry, including a worldwide education program so customers not only have premium audio equipment but the resources to use it. All Meyer Sound products, including EXP systems, carry a three-year warranty.







visit [meyersound.com/exp](http://meyersound.com/exp)  
or send an email to  
[exp@meyersound.com](mailto:exp@meyersound.com)



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