To Hear Is To Believe...
There’s something intensely personal about every speaker Peter Bichel Noerbaek creates. He signs his initials to each one … because he has personally finessed each detail for over a quarter of a century. Where others have compromised with mass-production of their high-end offerings, Noerbaek has innovatively conceived, designed, built and tested every speaker and turntable and their matching components. In an era of rapid turnover and brief shelf life, many PBN models remain in active production for a decade or longer. Our three generations of Super League speakers date back to 1998 – with some first generation editions still in demand.

“Perfect is always what you strive for.” It’s Noerbaek’s simple, direct philosophy, demanding a seemingly impossible standard of performance…

“The truth is always in the experience. To hear is to believe.”

Clockwise from top: Peter B. Noerbaek; Master Reference III speakers; PBN-DP7 GrooveMaster Vintage Direct turntable; PBN-EB-SA amplifier.

NOTE: GrooveMaster turntables, Montana/Innerchoic speakers, and Olympia/EB-SA components are solely created and manufactured by PBN Audio. Full product warranties are valid only when they are purchased through authorized representatives.
How do you describe a vinyl player so advanced, so immaculately engineered that the originals could never be purchased, only leased? When the total production run was limited to little more than 1,650 worldwide? Only a few of the globe’s best radio stations were offered the exclusive contract to play this finely calibrated yet phenomenally durable turntable. Dubbed the DN308, it was created through the unique partnership of Denon and the Nippon Broadcasting Corporation (NHK) – and audio history was made.

PBN Audio has searched out and acquired several of these rare players, and has transformed them from their original commercial console mode into unique works of audio art: The **PBN-DN308 (shown above)**. Key components of the original electronics – most notably the unsurpassed motor – have been refurbished and reconfigured. Details, such as the speed selection switch and power toggle, have been retained. A special LCD display shows the precise rpm, to 1/1000 per revolution, in real time. The start/stop backlit buttons showcase its lightning-quick response. The original model number plate and authenticating documents are provided as well. All Denon parts used in our Vintage Direct Pro models come from the same unit. Each hardwood base is custom-finished to your tastes. This turntable is, we can say unabashedly, without peer.

The **PBN-DP80 (shown below)** is a more compact companion to the PBN-DN308. It boasts the same extraordinary prowess and refined electronics. Both models are recalibrated to the original specifications. Each has its own unique history. We invite you to call and add your name to our waiting list.

**PBN-DP80 (left)**
- Dim: 19.25" W x 15.25" D by 7.75" H (to top of platter)
- Weight Approx. 55 Lbs.
- Speeds 33.333 and 45.000rpm @ 0.002%
- Bi-directional Servo Speed Control System
- 2" Ball Bearing Vibration Control Footers
- Up to two 10" tonearms can be mounted

**PBN-DN308 (above)**
- Dim: 23.5" W x 18.5" D x 9.5" H (to top of platter)
- Weight Approx. 150 Lbs.
- Speeds 33.333 and 45.000rpm @0.002%
- 78.000rpm @0.5%
- Bi-directional Servo Speed Control System
- Up to 2 each 12" tonearms can be mounted
- 2.375" Ball Bearing Vibration Control Footers
GROOVEMASTER

Vintage Direct

Connoisseurs of vinyl recordings appreciate the rich history of the medium, and savor the uniquely warm, lustrous sound the classic turntables provide. The craft that went into creating these players helped define the golden age of vinyl.

PBN Audio, innovator of the original GrooveMaster, has drawn on their deep knowledge of that engineering tradition and transformed the classic Denon DP Series with advanced modern electronics. The magic of the DP line was in its amazingly accurate RPM – revolutions per minute. The turntable, though, was mounted on a metal base that carried a discernable ringing tone. PBN has diligently recovered and painstakingly restored the Direct Drive platforms and motors from these highly desired players and used them as the foundation for the GrooveMaster Vintage Direct Series, adding hand-finished hardwood plinths, steel spiked feet to eliminate vibration, advanced electrolytic capacitors and other electronics. All GrooveMaster Vintage Direct models are created using only the most reliable, proven elements – and should provide decades of trouble-free service. They can be customized with different types of tone arms, even adding, at request, a second arm for both stereo and mono setup. This is a unique hybrid of past and present technologies, blended together for the pure love of music… and performing at a whole new level of sonic brilliance.

The PBN-DP2 is based on the Denon DP2000. This is the second model of the series, and is a masterpiece of design … inside and out. A key advantage over the DP3: greater speed stability, and precision electronic braking when stopping play or during speed changeovers. The DP2 features the amazingly accurate AC servo motor that operates at 99.998% accurate speed – plus Servo-controlled Direct Drive. The turntable comes complete with a Jelco SA750 (B) tone arm.

Every turntable is made to order – The solid hardwood plinth bases are made to your choice of wood, stain and finish. Tone arms can be upgraded to more sophisticated models (shown to right is the stellar Graham Phantom B44).

The PBN-DP3 is based on the Denon DP3000. Though this is the basic model of the series, it is brimming with custom refinements in both engineering and artistry. The DP3 features the amazingly accurate AC servo motor that operates at 99.9% accurate speed – plus Servo-controlled Direct Drive. The turntable comes complete with a Jelco SA750 (B) tone arm. The DP Series are nearly “plug-and-play” ready, with only minor hook-ups required. Though incorporating vintage parts, the GrooveMaster Vintage Direct players are rebuilt from the ground up and should perform brilliantly for decades to come.
This is the most advanced DP model using the basic Denon motor. Based on the Denon DP600, the **PBN-DP6** comes with a larger and heftier platter, giving it outstanding stability and performance. The 10-inch Jelco SA750E (B) tone arm completes the package. The drop-down cap hold LPs in tight alignment with the turntable to eliminate any wobbling. The DP6 is a marvel of blended technologies – and a delight to both the eye and ear of all who experience it.

The **“Master Class”** models, the **PBN-DP7 (below)** and the **PBN-DP8 (right)** are the flagships of PBN’s Vintage Direct line. Based on the Denon DP80, the PBN-DP8 boasts a motor that is larger, more powerful and more advanced than is used in the others in the series. With over-all heftier specs and a larger, dual-layer platter, it gives outstanding stability and flawless performance. The sound you hear is pure, effortless and expressive of every nuance and aural gesture.

The quite rare Denon DP7000 is a true collector’s item, and we’re proud to include the **PBN-DP7** to complete the series. If you’re looking for the best, you’ve found it.

**Magnetic Sensor**, which reads the pulse patterns imbedded in the platter. It compares the imbedded signal with a precisely generated internal pattern and if any deviation is detected, it automatically corrects the platter speed. **PBN-DP8 shown.**

**AC Servo Motors** – The phenomenally accurate heart of the PBN-DP line. The larger motor (left) is the 5” diameter motor exclusive to the DP80. All DP Series motors are controlled by a highly stabilized timing clock which prevents fluctuation in load or supply voltage.

**Form-aged Hardwood Plinths** – The three precision-cut layers are glued together so the grain of each is angled at 120 degrees, providing resonance-free stability and unique grain patterns.

**Copper Platters** significantly enhance the aesthetics of both sight and sound. They are standard with the DP7 and are offered as an upgrade for the DP3, DP2 and DP6.
It all began with the original PBN GrooveMaster: the breakthrough turntable with a two-motor, counter-balanced dual drive rendering an absolute 33.333 rpm, a precision-balanced 17 lb. stainless steel flywheel, four belts and the legendary SME™ 312-S tone arm. The platter is formed from a solid block of black or translucent Delrin® vinyl. The three-layered laminated hardwood base rests on pointed stainless steel risers for critical platform stability.

“There is some indefinable but very real quality about the finest vinyl recordings that CDs can’t quite measure up to,” Noerbaek explains. Perhaps the best analogy is a superb vintage wine. “It’s the warmth…the faint tracking one hears…and, above all, that fuller, more subtle timbre that imparts extra depth and presence to the audio.” And the GrooveMaster and GrooveMaster Vintage Direct Series captures it all.

There is also a secret detail – the tone arm support. For this small but critical element Noerbaek uses a little-known enhancement found only in the world’s finest violins. “The bridge that braces the strings is what gives million-dollar violins their astounding musical depth. I use these same rare woods for the tone arm support…and it makes a difference.”

The newest generation of PBN GrooveMasters, displayed here, features a curvilinear design and a deep liquid finish. Each turntable is custom-made to match the client’s selection of wood, vinyl platter and tone arm. You can even order up to three unique tone arms on one turntable.

Note: The Olympia Pi and PXi are the ideal components to wed to this unique player.

The Next Generation GrooveMaster incorporates the dual-drive and Delrin vinyl platter of the original. The solid hardwood plinth (walnut in this example) is finished with a mirror-like liquid sheen. Each layer is rotated 120 degrees from the one below for maximum stability. The three steel risers provide perfect balance. Note the dark tone arm support described above – a critical and unique detail. Four precision-fitted bands connect the platter to the counter-balanced flywheel, turning the platter at a precise 33.333 rpm. These advanced features, and more, are carefully designed into a surprising compact player. The GrooveMaster is an award-winning work of art and a masterpiece of audio engineering.
ON CENTER STAGE OR IN A SUPPORTING ROLE... EVERY INCH A PBN SPEAKER

The same unrelenting attention to electronic and cabinet detail embodied in PBN’s newly expanded Innerchoic® line is lavished on these three Personic models. There is no “second tier” in our product line.

These versatile speakers having a smaller footprint ideal for private dens and bedrooms while generating the nuanced, dimensional sound you expect from a PBN speaker. The taller, more assertive Lucille Front Channel Speakers (named in honor of B.B. King’s famous guitar) stand splendidly on their own in basic two-channel set-ups with “A-List” performance. In spacious venues, they are perfectly employed as rear channel speakers in combination with our Super League series.

The reconfigured M2 Monitor and Mini-Monitor Speakers are scaled to sit comfortably on bookshelves or nestle into nooks and corners on stands. Their electronic phasing allows greater flexibility and forgiveness in their placement than PBN’s larger loudspeaker series. They are ideal for rear-channel speakers in a dedicated 5.1 or 7.1 system, but perform effortlessly as two-channel speakers in the personalized rooms they are designed for.

Great sound is always great sound...whether it comes from a small box or a large one; whether it’s coded in a 7.1 Ultra-HD soundtrack or pressed in a vintage mono vinyl recording. PBN always delivers the audio goods – and more than matches the demands of today’s high-tech entertainment modes. But no matter what the current trends may portend, one irreducible premise remains: The ear hears the “truth”...the truth that is revealed in every PBN Audio performance.

M2 MONITOR
This advanced and highly versatile speaker features a 7” Vifa™ coated pulp cone mid-woofer and a 1” SB Acoustics tweeter. Superb bass response. 12"W x 13”D x 18”H. Stand is optional.

MINI-MONITOR
A compact but powerful high-end speaker developed to be driven by almost any amplifier, it is well adapted to smaller-scale listening spaces. Known for its unusually flat frequency response, this speaker is only 10"W x 11”D x 14.5”H. Stand is optional.

LUCILLE FRONT CHANNEL SPEAKERS
High-performance, full-range front speakers designed to satisfy music aficionados as well as devotees of home theater. Its superbly balanced sound heralds PBN’s most compact entry in the floor-standing speaker market. Ideal for two-channel systems or either front or rear channels in large-scale systems. 12"W x 13”D x 41”H.

PERSONIC
SONIC SUBSTANCE: THE DEFINING OF A NEW ERA

“Here’s something greater at work here: SONIC SUBSTANCE.” The praise lauded on our Innerchoic Loudspeakers by Sound Stage’s critic Jeff Fritz is just the start. Reviewer after amazed reviewer cannot believe the audio presence and clarity of these “next generation” speakers “…the purest, most defined and extended sound that is currently available.” Ultimately it’s all about pristine, pure audio, the holy grail of every speaker engineer. This is what your critical ears desire. This is what the Innerchoic® Series delivers.

Each Innerchoic Series cabinet is built with a precision-cut series of layered, ultra-dense MDF Ranger Board™ sections. The proprietary round-ribbed interior pattern functions literally as an internal anechoic chamber. That’s why we’ve named the concept “innerchoic”. It absorbs any distorting, reflective sound waves while channeling a music experience clarion-clear and subtly detailed, yet amazingly substantive. It is a sound unheard…and unheard of…until now.

The Innerchoic adventure began with the Sammy and Liberty, and the breakthrough design led to rest of this versatile series, each based on the same unique internal architecture: the compact but robust Hadley, with twin overlapped pairs of woofers (called isobaric loading) and the unique Hadley Center Channel. The goal was to sound like life, not simply another speaker. Listen for yourself; the tantalizing phrase sonic substance will need no further explanation.

All models of PBN’s exclusive Innerchoic Series feature this unique layered pattern of precisely interlocking ribs. Peering down the interior during construction is like watching the emerging layers of CT scan imagery…each layer is individually designed to become part of the brilliantly conceived whole. When assembled, glued and sanded, they form an internal sound chamber without precedent or peer.

NOTE: The Super Sammy is no longer offered. The recommended best match is the WAS III.

The Hadley Center Channel Speaker
41”W x 21”D x 21”D (Stand included)
INNERCHOIC DESIGN BREAKS THE SOUND PURITY BARRIER

**SAMMY**
The former boundaries of sound purity and palpable realism were redrawn with the innovative engineering of the Sammy. Standing 4.5 feet tall, it is head and shoulders above all the competitors.

17”W x 21”D x 54”H

**HADLEY**
The twin 10” aluminum cone woofers are precisely aligned above an identical set... giving the Hadley a robust, crunchy bass that redefines “rolling like thunder.” The 6” Papyrus reed cone mid-range and top-performing Dynaudio tweeter help give this speaker a full-throated sound that pulls you right into the vortex. The Hadley Center Channel features the same drivers and electronics.

16.25”W x 20.5”D x 44.5”H

**LIBERTY**
A mid-sized wunderkind with a truly big sound… superbly defined, fully dimensional, and with a tonal range that extends across the complete spectrum. Features two 8” anodized aluminum cone woofers, one 6” reed-fiber mid-range driver and a 1” gold-plated titanium tweeter.

14”W x 17”D x 43”H
THE SUPER LEAGUE PUSHES THE ENVELOPE FURTHER WITH INNERCHOIC® DESIGN

The amazing success of PBN’s Innerchoic® series has led, quite naturally, to this third generation of our celebrated Super League series – and the most advanced of the Montana line. The power, poise and exhilarating sense of perfection achieved by this trio of über-speakers has been elevated to even higher levels of performance – with an inside-out transformation to our Innerchoic “sound chamber” design.

The original challenge, both met and surpassed by the Super League system, was to deliver impeccably refined audio within the unforgiving realities of spacious venues. The goal was to produce a full and effortlessly powerful dynamic range…while also being capable of capturing each deliciously nuanced detail. They should “go big” without losing the dexterity of “going small” – an accomplishment few others attempted, let alone achieved. Size always needs to justify itself. Every cubic inch had to be there for a reason. Elegant form must always be in natural synchrony with flawless function.

And now, with the full integration of PBN’s patented Innerchoic cabinet architecture, the majestic sweep of the sculpted, balanced sound unique to the classic Super League is rendered with even greater purity.

The reconfigured seven-foot Master Reference III (with 18” subwoofers) remains, even more assertively, the flagship of our line. Likewise the WAS III (15” subwoofers) and the KAS III (12” subwoofers), take the prowess of their predecessors to new levels, creating a seamless progression with the original Innerchoic Series. Each speaker in this line boasts the same mid-woofers, mid-range and tweeter array. The KAS III features a 1200W built-in amp; the WAS III and Master Reference III double that with twin 1200W internal amps.

NOTE: The Compact Reference is no longer being offered. The Sammy is now recommended as the closest match in over-all size and venue preference.
KAS III
With its own 1x1200-watt DSP-based built-in amp driving a twin set of 12” subwoofers, this towering two-channel speaker is designed for the serious audiophile. Each Super League speaker features two 9.5” mid-woofers, two 5” mid-range drivers and a 1” beryllium tweeter. 19”W x 22”D x 70”H

WAS III
Designed for two-channel listening in spacious rooms, each WAS III speaker has two 15” long-throw professional grade subwoofers along with its internal 2x1200-watt DSP-based amps – housed in a stunning custom-made cabinet. 23”W x 25”D x 75”H

MASTER REFERENCE III
THE ULTIMATE PROFESSIONAL-GRADE SPEAKER. Nearly seven feet of breathtaking audio that accurately reproduces every nuance in the sound spectrum. It comes supplied with 2x1200-watt DSP-based built-in amps and 18” subwoofers. 26”W x 29”D x 80”H
When Peter Noerbaek concluded the only way to insure meeting the highest standard for his audio systems was to engineer and build his own amplifiers and pre-amplifiers, he envisioned carefully integrated audio components that would work together seamlessly to create a synergy of excellence. The core, inflexible tenet followed for each element—every diode, every capacitor—was to insist on the best, without exception.

The result: The now complete EB-SA series, a trio of PBN components that redefine the term “amplifier”.

(The “EB” is an homage to Erno Borbely, the legendary Norwegian-Hungarian sound engineer who collaborated closely with Noerbaek on the earlier forms of the series.) The precisely balanced electronic network of each EB-SA amp provides the right pulse of energy at each point of need. The entire system hovers with nearly unlimited power to breathe life into every sound, no matter how delicate or subdued—or to unleash the full potential of any crescendo. EB-SA soundscapes are unbelievably immaculate; there is no “noise”…only deep, pure, gorgeous sound.

Beginning with the EB-SA1 with over 130W of power per channel, to the EB-SA2 with four times that, and finally to EB-SA3, with a full Farad of combined capacitance, the same uncompromising standard prevails. The canvas of great audio art is silence: Pure, delicious silence—and PBN has mastered it.

And remember, if an amplifier can make the grade with PBN speakers, they can decisively help any other speaker hit their dynamic optimum.
EB-SA1 AMPLIFIER
With over 130 clean watts and outputs that support six pairs of devices per channel, this is a genuinely powerful amp, performing robustly with any of the Personic or Innerchoic series. 19"W x 9.25"H x 15"D.

EB-SA2 AMPLIFIER
The EB-SA2 is a mind-blowing mega-amplifier, achieving four times the sonic power and control of the breakthrough EB-SA1. It features a dual-differential input stage and MOS-FET pre-driver/driver/ lateral output stages. The EB-SA2 carries a massive 4KVA power transformer with quad secondary windings for the output and a second quad set of windings for the front end. With PBN’s proprietary Comb Ground™, it generates an astonishingly noise-free sound environment. 19" W x 15.5" H x 16.25"D.

EB-SA3 AMPLIFIER
This 185-lb. heavyweight establishes a new class in amplifying technology and an exciting benchmark in audiophile excellence. With one full Farad combined capacitance, the distributive node power supply gives 200W per stereo channel with 800W per mono block. Features 40 closely matched MOS FETs with 10 pairs on each side, eliminating the need for source resistors that slow down and muddy the performance. With fully independent positive/negative regulators for each channel and a 4 KVA transformer, plus separate windings for each output stage. 19"W x 13"H x 23"D.
OLYMPIA PREAMPLIFIERS: THE PERFECT SYSTEM STARTS HERE

OLYMPIA Li & LXi PRE-AMPLIFIERS
These new pre-amps are built to drive the most demanding cable/amplifier loads, delivering pristine audio. Both have three balanced inputs and two RCA inputs. The LXi offers more extensive use of Caddock Resistors, two transformers and eight filtering chokes, and uses the CPSi power supply. 19"W x 4.5"H x 15"D.
OLYMPIA Pi & PXi PHONO PRE-AMPLIFIERS

Part of any serious turntable system, including PBN’s own GrooveMaster series, the Olympia Pi and PXi convert the naturally low-output phonograph signal into a fully-developed soundstage that picks up every nuance, sculpts every passage, and delivers the absolute best dynamic range. The PXi offers more extensive use of Caddock Resistors, two transformers and eight filtering chokes. 19”W x 4.5”H x 15”D.

OLYMPIA DX DIGITAL/ANALOG CONVERTER

The Olympia DX builds on two technologies that are the pinnacle of audio engineering: A fully differential Digital to Analog Converter with four BB 1704 K Grade R2R-DACs, feeding our proprietary ALL-FET I/V Converter, second order analog 100Khz Bessel filter and common mode rejection output buffer (in that order). Provides five digital inputs, with three usable at any time. 19”W x 4.5”H x 15”D.

PRE-AMP POWER SUPPLIES

All Olympia pre-amps come with external power supplies that are “over-built” with heavy capacity coils and transformers that will outperform the highest expectations. Each is custom-designed for an ideal match with its corresponding pre-amp.

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<th>PRE-AMP</th>
<th>POWER SUPPLY</th>
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<td>LXi</td>
<td>CPSi</td>
<td>CPS: 19”W x 4.5”H x 15”D</td>
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<td>Li</td>
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Far from an afterthought or a redundancy, a high-capacity preamplifier captures the initial signal – which in the case of an older phonograph recording can be quite thin – and gives it volume and clarity while eliminating electronic noise. It is the critical start of the transformation from inert “information,” either digital or analog, to a fully dimensional soundscape that gives “truth in the hearing.” PBN preamplifiers are hand-built, with every resistor, choke or transformer precisely wired and soldered, tested and re-tested, and finally signed and shipped.
PETER NOERBAEK’S HOME THEATER AND LISTENING ROOM WAS THE SETTING, AND ONE OF AMERICA’S MOST DISCERNING AND TECHNICALLY PROFICIENT EXPERTS IN SOUND REPRODUCTION WAS THE AUDITIONER. NOERBAEK WAS PROVIDING A UNIQUE FIRST-LISTEN TO HIS NEW M2!5 SPEAKERS, AND THE ANTICIPATION LEVEL WAS PALPABLE.

WITHIN MOMENTS OF THE OPENING VINYL TRACK, PLAYED THROUGH PETER’S MASTERFULLY PRECISE PBN GROOVEMASTER VINTAGE DIRECT PROFESSIONAL DN308 TURNTABLE AND TWIN PBN EB-SA3 AMPLIFIERS, THE LISTENER NODDED AND SMILED. THIS WAS IT. BUT WHAT WAS “IT” THAT THE BEST SOUND ENGINEERS SEEK?

DISTILLED TO A SINGLE WORD, WE COMMONLY HEAR “PRESENCE” OR “WEIGHT.” PERHAPS, THOUGH, THIS SUMS IT UP BEST: “THERENESS.” AN EXTRA DIMENSION EMERGES THAT CAPTURES THE UNCAPTURABLE – THE ELECTRICITY OF A LIVE PERFORMANCE WHERE THE EQUIPMENT AND ROOM SETTING FADE AWAY. YOU ARE NO LONGER “PLAYING” A “RECORDING”. SIMPLY, YOU ARE THERE.

OF ALL THE SUPERB SYSTEMS NOERBAEK HAS DEVELOPED OVER DECADES OF INTENSELY FOCUSED CREATIVITY, THIS IS THE ONE HE NOW POINTS TO AS THE NEW BENCHMARK. IN THE PBN TRADITION, EACH ELEMENT AND EVERY COMPONENT ARE THE HIGHEST AVAILABLE QUALITY, AND ENGINEERED WITH A CAPACITY THAT EXCEEDS ANY REALISTIC DEMAND. THIS TRIO OF PBN PRODUCTS – SPEAKERS, TURNTABLE AND AMPS – REPRESENTS THE ULTIMATE HI-RES AUDIO SYSTEM, WITH DEEP RANGE, IMMEDIATE RESPONSIVENESS AND AN UNPRECEDEDNT CAPACITY TO DEFINE MICRO-DETAIL, HOWEVER FLEETING.

IF YOU ARE EVER AFFORDED AN OPPORTUNITY TO HEAR THIS SYSTEM IN PERFORMANCE, DO NOT PASS IT UP.

THE ESSENCE OF “THERENESS”

PRECISION-MADE CABINET WITH A FACEPLATE OF 1.75 IN. LAYERED MDF. HIGHLY ENGINEERED INNER CHAMBERS ARE DESIGNED TO PRODUCE THE MOST ACCURATE MEASURABLE AUDIO REPRODUCTION IN THE WORLD.

FEATURES TWIN JBL 2235H 15” WOOFERS WITH A LOW-LOSS MAGNETIC STRUCTURE AND SYMMETRICAL FIELD GEOMETRY MATCHED TO INTERNAL ENCLOSURES FOR PRODUCING ACCURATE MID-BASS. THE JBL D2430H MID-RANGE/TWEETER COMPRESSION DRIVER WITH DUAL-DIAPHRAGMS COMES MOUNTED ON WAVEGUIDE “HORNS”. THE DRIVERS ARE ALIGNED “IN TIME” VIA THEIR AMAZING 900 Hz CHARGE-COUPLED CROSSTERS, PROFILING THE EXQUISITE PRECISION OF THEIR DESIGN.

THE M2!5 COMES COMPLETE WITH PBN’S PROPRIETARY 30 db PER OCTAVE ACOUSTICAL CROSSOVER SLOPES. PLUS, THERE ARE FIVE PRECISION HAND-WOUND INDUCTORS AND 12 HIGH-VOLTAGE METALIZED POLYPROPYLENE CAPACITORS. 53”H x 18”W x 23”D

THE ELECTRICAL COMPONENTS ARE DISPLAYED IN A PLEXIGLASS-FRONTED PANEL INSET IN THE BACK OF EACH SPEAKER.