

**lumen**white

aquila

### new light on sound

loudspeakers continue to be the weakest link in today's high end sound systems, underperforming current state of the art electronics by significant margins due to their complex electro mechanical nature.

lumen white precision monitors are cost-no-objective developments aimed at closing this performance gap and advancing the state of art in dynamic transducer design towards a more realistic reproduction of the original music event.

from their introduction in 1999, our loudspeakers have shaken up the audio industry by delivering instantly obvious, magnitude superior performance, earning them an unprecedented string of superlative reviews, expert endorsements and prestigious industry rewards around the globe.

holding ultimate reference nominations for nearly a decade now, they have seen uncoupled competitors come and go, providing our clients with unsurpassed performance, timeless decor and superior ownership value.

testimony to their technological leadership, repeated attempts have been undertaken to emulate our designs, with none achieving even a minute portion of the industry acclaim of the originals, critics and astute music lovers worldwide voting instead for genuine expertise and true excellence.

### pure silence - magic sound

lumen white speakers incorporate musical instrument design, artisan craftsmanship and edge-of-the-art technologies. they offer superlative low noise and ambient retrieval, transient speed and resolution, ultra wide bandwidth, vanishing passband ripple and outstanding spectral purity, combined with octave to octave energy equilibrium and freedom from compression and energy storage effects.

engineered to be time, phase and resonance coherent, they reproduce music as a completely natural gestalt, from the most subtle details to the most complex crescendos, against a background of magically pure silence.

unprecedented precision and freedom from parasitic resonance and masking effects let our loudspeakers vanish completely behind the music, connecting the listener closer to the original event than ever before.

### musical truth - sonic beauty

our speakers are designed to complement high quality front end equipment, being fully transparent to the upstream chain. adequately driven, their truthful nature portrays music with such naturalness, depth, purity and ease, that renowned reviewers have lauded them as "most probably impossible to surpass", and "the best speakers which we have ever heard".

## state-of-the-art

lumen white loudspeakers amalgamate the century old arts of master musical instrument design with edge-of-the-art acoustical research and technologies to advance driver and cabinet performance by a magnitude degree, enabling superlative sonic realism and purity.

on the basis of proprietary psychoacoustical research we employ and develop visionary drivers, cabinets and custom components, featuring some of the world's most advanced materials, technologies and designs.

these costly and difficult to produce components stand at the very edge of the art when compared to the best transducers of all times, from the fabled legends of the past to the present.

## instrument grade cabinets

the superlative performance of our driver arrays is supported by highly advanced cabinet acoustics .

as traditional damping technologies cause a clearly audible loss of musical information, we have developed new, signal-preserving alternatives. the same applies to the majority of fiber boards, industrial composites and bonding technologies which dominate today's speaker manufacturing. the majority of these act as absorbers, cause transient time smear and a loss of musical information or feature a psycho acoustically unnatural spectral signature, ultimately leading to perceptual stress, listening fatigue and ownership dismay.

## cost-no-objective materials and construction

our cabinets are instrument grade, cost-no-objective constructions, made from proprietary formula plywoods and solids of several centimeters strength, based on comprehensive research into the spectral signatures, resonance properties and energy storage effects of multiple woods, metals, composites, bonding technologies and geometries.

their naturally curved shapes follows function, fusing century old instrument building expertise with cutting edge airflow, pressure- and wave propagation research.

our proprietary designs allow for a dramatic reduction of parasitic resonances and detrimental pressure effects, yielding enhanced driver precision, superior rise- and settling times and resonance patterns which are both minimal, natural and coherent, rendering them psycho acoustically "inaudible".

as a result, our speakers are free of conventional euphonic masking effects and vanish more completely from the perceptual domain, making way for a breathtaking new level of wholeness and realism of the musical presentation itself.

### minimalist crossover design

lumen white loudspeakers employ highly minimalist, phase- and time domain optimized crossovers, engineered for maximum spectral- and time domain integrity of the signal. they take into account widely ignored energy storage, field cross coupling and resonance interference effects in their component design and layout.

### art, science and beauty

development and production of lumen white audio products follow the traditions of the master instrument makers of yore.

combining avantgarde acoustic research, state of the art materials and technologies, they liberate music further from the boundaries of technology and let its true beauty shine.





# aquila

limited production, superlative,  
time coherent, phase coherent, resonance coherent  
5 driver, 3 way reference monitors

frequency response 30 hz - 47 khz / -3db  
sensitivity 92 db (1w @1 meter), impedance 6 ohm  
recommended amplification 20 - 200 watt

## driver array

1" custom ring radiator tweeter  
6.5" custom ceramic inverted dome midrange  
3 x 7" custom ceramic inverted dome woofers  
precision matched and resonance tuned

## cabinet design

instrument grade, flow and pressure dynamically optimized.  
separate, driver-specific internal midrange enclosure.

tone wood based, resonance-unified materials, bonding and construction.  
advanced self damping geometry with integrated resonance grounding path.

sound dispersion and reflection optimized, time aligned, baffle design.

## cabinet finish

figuered maple, macassar ebony, indian cherry or piano black  
multi layer, high gloss, lacquer finish.

additional veneer, finish and color options  
available on request

## signal path

single wire, tone wood terminals, wbt hardware

wire directivity oriented internal cable routing

single crystal wire, application specific variable size conductors.

micro distortion free, electrostatics resistant, insulation technology,  
prevents micro-discharge and eletrostatics driven electro chemical  
cable performance degeneration.

proprietary "harmonic lengths" cable technology:  
all conductors, independent of their technology, perform best  
at a specific, tightly defined length.

## product dimensions

height 124.5 cm, width 32.5 cm, depth 56 cm, weight 72 kg each

shipping dimensions, crated

height 140 cm, width 70 cm, depth 44 cm, weight 90 kg each

we reserve the right to change product specifications without  
prior notice if we believe it will serve their quality and performance.

lumen white products are designed by lumen white research group  
in switzerland and gb. manufactured in austria.

[www.lumenwhite.com](http://www.lumenwhite.com)