

GENELEC® | Smart IP



One Cable.
Infinite Possibilities.



GENELEC®

Ciccio's Restaurant in Stockholm, Sweden.
Integrator: Hages Radio TV AB.

Installed Sound



An outstanding space deserves premium-quality audio – helping to create an attractive experience that visitors truly enjoy. Genelec offers the highest level of adaptable, powerful, accurate and well designed loudspeaker solutions, making it simple to achieve exceptional results.

Genelec loudspeakers have been chosen for some of the world's most prestigious audio-visual installations and experiences, from premium atmospheres in hospitality, restaurants and hotels, to engaging attractions, museums and exhibition venues, to retail centres and benchmark corporate workspaces.

Genelec loudspeakers are easy to install and are built to provide decades of reliable service. The active design of Genelec loudspeakers means amplifiers, crossover filters and protection circuitry are all integrated into the loudspeaker itself. The electronics and drivers are mutually optimised, reducing the need for external amplifiers and associated cabling.

Genelec Installed premium audio loudspeakers are available globally through a network of professional partners for exquisite audio experiences.

Innovative technology and certified sustainable production from the heart of Iisalmi, Finland.





GENELEC®

Jussi Väisänen, Genelec R&D Acoustic Manager.

Premium

AUDIO QUALITY

With over four decades as the world's leading provider of professional studio monitoring loudspeakers, Genelec is uniquely placed to offer truthful, detailed and rich-sounding loudspeaker solutions for audio-visual installations.

Advanced control of loudspeaker directivity guarantees exceptionally uniform in-room coverage with clarity and speech intelligibility, making high quality installations possible even in acoustically challenging spaces.

Genelec champions controlled directivity for all installed sound systems. To achieve uniform in room coverage Genelec loudspeakers feature our trademark Minimum Diffraction Enclosure™ and Directivity Control Waveguide™ solutions for highly controlled directivity – providing clean, uncoloured audio across the whole listening area.

Smart IP loudspeakers provide precise, clean sound from a compact enclosure, with consistent acoustic power response, impressive sound capacity, low distortion, and high adaptability to different acoustic environments.

To read more about our Key Technologies, visit [genelec.com/key-technologies](https://www.genelec.com/key-technologies)



Active Crossovers



Optimised Amplifiers



Protection Circuitry



Minimum Diffraction Enclosure™



Directivity Control Waveguide™



Optimised Reflex Port



Intelligent Signal Sensing™

Standard CAT cable



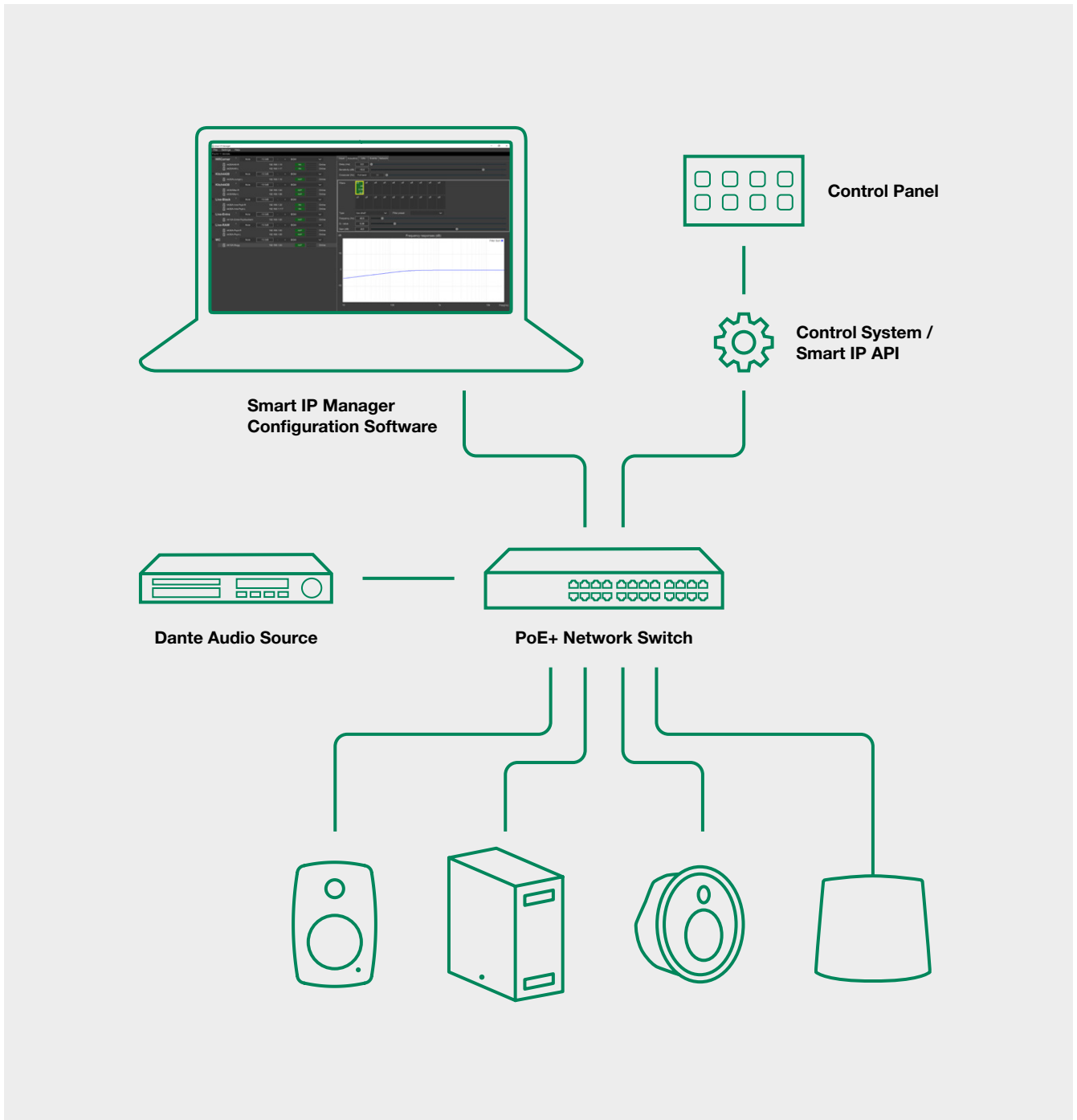
Power
PoE+ and PoE



Management
Smart IP Manager /
Open API



Audio streaming
Dante AES67



IP Connectivity

AND SETUP

The Smart IP range has been developed for discerning professionals who demand premium performance from installed loudspeakers that integrate quickly and seamlessly.

Smart IP single-cable connectivity conveniently utilises a building's existing IT infrastructure, providing profitability and time-saving efficiency. Smart IP is a flexible and scalable open IP networking technology that delivers audio, power and loudspeaker management, including configuration, supervision, and calibration tools – all via a single standard CAT cable.

Smart IP supports uncompressed low-latency audio streaming directly into the loudspeakers, providing sub-microsecond level synchronisation of the audio output, for highly precise acoustic imaging. Smart IP systems are fully compatible with both Dante and AES67 networking, and audio channel routing is easily configured using Dante Controller software. Most Smart IP loudspeakers also support analogue audio via a standard Euroblock (Phoenix) connector.

Designed to work closely with Smart IP loudspeaker systems, Genelec Smart IP Manager configuration software eases deployment by enabling installers to configure an almost unlimited number of loudspeakers, rooms, zones and audio channels, with simple device discovery and professional tools including versatile room-equalisation, system organisation and status monitoring.

The loudspeakers come with an integrated Application Programming Interface (API) supporting integration of third-party hardware, software and house automation systems. Ready-to-go drivers are downloadable from the Genelec website.



Smart IP Manager
install download



Smart IP Manager
documentation



Smart IP
API documentation



Smart IP
API drivers



GENELEC®

Arena Sergel, Vasakronan in Stockholm, Sweden.
Integrators: Efterklang, JML System AB.

Intelligent

POWER

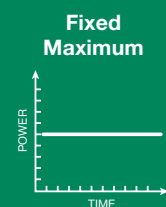
PoE+ or PoE

Smart IP utilises Power-over-Ethernet (PoE) technology. Genelec Smart IP loudspeakers are built to deliver very high SPL using standard PoE technology, making it a truly powerful installation solution. This is achieved through Genelec's proprietary internal power management, which stores energy in anticipation of audio peaks. This works because audio signals are dynamic, with continuously varying demand for power.

Smart IP loudspeakers support the widely used PoE+ and PoE technology standards. IEEE 802.3at (30 W) is recommended, as with IEEE 802.3af (15 W) the time that peak power output can be maintained is reduced.

Intelligent Signal Sensing

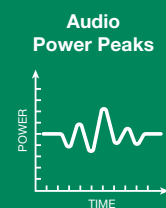
The idle power consumption of Smart IP loudspeakers is very low, around 5 to 6 Watts. The loudspeakers also feature an input signal detection ISS (Intelligent Signal Sensing) function, a low-power sleep state, which automatically activates when no audio signal is detected, reducing overall consumption even further. Additionally, all power management functions can be controlled via the API programming interface of Smart IP.



Time profile of PoE power availability



Power supply inside the loudspeaker



Time profile of power usage

MAAP Cycling Apparel Store in Berlin, Germany.
Integrator: B.I.N.S.S Medientechnik GmbH.



GENELEC®

Exquisite

DESIGN

While sound quality is of the greatest importance, aesthetics and practicality are also carefully considered. Since the company's founding in 1978, Genelec has always recognised and honoured the value of high-quality design.

Genelec loudspeakers are built to sound and look exquisite. Functionality, versatility, quality materials and aesthetics are all rooted in the celebrated craftsmanship of Finnish Industrial Designer Harri Koskinen. Beautiful recycled aluminium enclosures, featuring softly curved edges and incredible mechanical strength, are complemented by specialised models, providing many possibilities for installation design.

Genelec's iconic loudspeaker design can be seen in public places throughout the world, representing a signature of the Genelec brand, and offering a strong statement of investment in audio quality – for those providing the most engaging atmospheres and experiences.

Customised Installation

With an extensive range of mounting accessories, Genelec loudspeakers can be installed quickly and conveniently in almost any location. On-wall loudspeaker models are available in standard black or white, plus a selection of 120 RAL colour options. As part of Genelec's commitment to sustainability, on-wall models are also available in RAW, an attractive unpainted aluminium finish.



Accessories
catalogue

Available in
120 RAL colours



RAL selection

MODELS AND TECHNICAL SPECIFICATIONS



	4410A	4420A	4430A
Colours	Black, white, RAW, 120 RAL	Black, white, RAW, 120 RAL	Black, white, RAW, 120 RAL
Connections	RJ45	RJ45, Euroblock	RJ45, Euroblock
Power consumption	ISS \leq 3 W, Idle \leq 4 W, Max 25.5 W	ISS \leq 4 W, Idle \leq 5 W, Max 25.5 W	ISS \leq 4 W, Idle \leq 5 W, Max 25.5 W
Max SPL	96 dB	100 dB	104 dB
Frequency response	67 Hz – 40 kHz	55 Hz – 39 kHz	45 Hz – 39 kHz
Dispersion angle °	H 130° V 110°	H 120° V 100°	H 120° V 100°
Dimensions	H 181 x W 121 x D 115 mm (H 7 1/8 x W 4 3/4 x D 4 1/2 in)	H 226 x W 151 x D 142 mm (H 8 7/8 x W 6 x D 5 5/8 in)	H 285 x W 189 x D 178 mm (H 11 1/4 x W 7 1/2 x D 7 in)
Weight	1.5 kg (3.3 lb)	3.1 kg (6.8 lb)	5.1 kg (11.2 lb)

The growing family of Smart IP loudspeakers offers a compact, aesthetically beautiful solution, ideal for a wide range of commercial and professional installations, various room sizes, and project scales.



	4435A	4436A	3440A
Colours	Grilles: Black, white Square, round	Black, white	Black, white
Connections	RJ45, Euroblock	RJ45, Euroblock	RJ45, Euroblock
Power consumption	ISS ≤4 W, Idle ≤5 W, Max 25.5 W	ISS ≤4 W, Idle ≤5 W, Max 25.5 W	ISS ≤4 W, Idle ≤5 W, Max 25.5 W
Max SPL	104 dB	104 dB	106 dB
Frequency response	58 Hz – 39 kHz	62 Hz – 39 kHz	35 Hz – 120 Hz
Dispersion angle °	H 120° V 100°	H 120° V 100°	360°
Dimensions	Round: Ø 288 x D 165 mm (Ø 11 3/8 x D 6 1/2 in) Square: L 288 x W 288 x D 159 mm (L 11 3/8 x W 11 3/8 x D 6 1/4 in)	Ø 294 x H 237 mm (Ø 11 5/8 x H 9 3/8 in)	H 475 (+15 with pads) x W 475 x D 220 mm (H 18 3/4 (+5/8 with pads) x W 18 3/4 x D 8 5/8 in)
Weight	3.5 kg (7.7 lb)	5.3 kg (11.7 lb)	14.5 kg (32.0 lb)



The Conscious

CHOICE

With the increasing importance of environmental responsibility, the choice of AV equipment for installation projects provides an opportunity to reflect a strong commitment to sustainability.

Genelec loudspeakers are designed with consideration for the environment and manufactured sustainably in Iisalmi, Finland, following the strictest quality standards. Genelec's comprehensive Supplier Code of Conduct ensures ethical and sustainable operation.

Genelec solutions are designed and built to last, and come with unrivalled technical support, product warranties, serviceability and excellent spare part availability. The longevity of Genelec solutions supports a low cost of ownership.

Highly efficient integrated power amplifiers – supported by ISS technology – work to minimise power consumption and heat generation. And Smart IP single-cable technology utilises existing IT infrastructure, reducing the cost of cabling and need for additional equipment.

Genelec's signature aluminium enclosures are lovingly crafted from recycled aluminium, requiring less energy to manufacture and enabling endless future recycling.

To read more about sustainability at Genelec, visit [genelec.com/sustainability](https://www.genelec.com/sustainability)



ISO 9001



ISO 14001



GENELEC® | Installed Sound

[genelec.com/installed-sound](https://www.genelec.com/installed-sound)

Detailed Datasheets of all Genelec models, Quick Setup & other useful information can be downloaded at www.genelec.com.
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