

# Designed to Adapt

Next Steps for Smart Active Monitoring™ Systems

8340 and 8350 Smart Monitors

7360 and 7370 Smart Subwoofers

9301 AES/EBU Multichannel Interface



Smart Active  
Monitoring™  
10 years

**GENELEC®**

# New Genelec Smart Active Monitoring Systems

## Expanding today's range of most advanced and flexible monitoring solutions

Genelec's long-standing commitment to providing state-of-the-art monitoring solutions for professional applications continues. A new generation of high resolution Smart Active Monitoring (SAM™) Systems was introduced with the 8320, 8330 and 7350, and is now expanding, offering a comprehensive range of Smart monitors and subwoofers. The 8340 and 8350 two-way systems and the 7360 and 7370 subwoofers join Genelec's wide range of new SAM Systems which feature our latest technology platform for all applications, whether in the analogue or digital domains. In addition, the 9301 AES/EBU Multichannel interface allows the use of 7.1 digital audio sources with new Smart subwoofers.

## Reference monitoring in any room

The last decade has seen a rapid increase in global media content creation, driving changes in the way audio production facilities operate. Today a growing number of audio productions are done in tighter, more constrained spaces, so the demand for precision monitoring in challenging environments continues to increase. Genelec SAM Systems deliver controlled dispersion and reference monitoring in any rooms of any size.

## Intuitive control with GLM 2.0

The Genelec Loudspeaker Manager software (GLM™ 2.0) is one part of the GLM System, a highly intuitive and powerful monitor control networking system that manages connectivity to all Genelec SAM studio monitors and subwoofers on the Genelec network. The complete GLM control system includes the software, a Genelec measurement microphone and universal microphone holder and a network adapter unit.

## Evolve with GLM AutoCal

SAM Systems' intelligent GLM AutoCal™ technology improves the precision of monitoring by compensating deficiencies in the listening environment. Based on data from hundreds of listening rooms, GLM AutoCal™ is continuously evolving, thereby enabling SAM Systems installed even years ago to provide improved performance.

After automated calibration, based on one or more listening positions, all monitors and subwoofers in a system play back at the same level and timing, with acoustical colorations removed from the monitors' room responses, leaving superb consistency and neutral sound stage imaging.

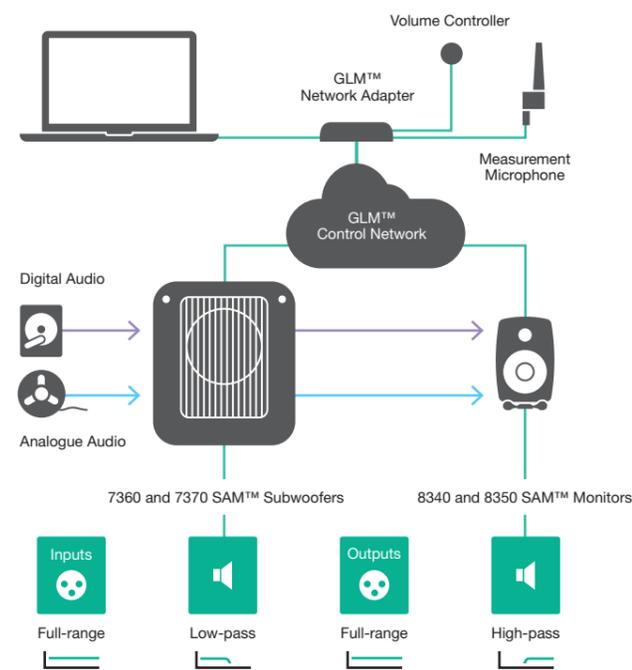
## Outstanding system performance

The Genelec R&D team has a history of ground breaking developments. The combination of 8340 and 8350 monitors with 7360 and 7370 subwoofers offers the highest possible system flexibility for demanding monitoring needs. The new family members include floating point DSP engines, Genelec designed Class D amplifiers, linearized phase response plus even more refined auto-calibration and spectral tuning capability than before. In case you already own a SAM System, the latest GLM 2.0 software is your solution to access the continued evolution of our SAM technology via an easy to use Mac and Windows user interface. These new SAM Systems will make you appreciate the forward thinking and long-lasting support that makes Genelec the benchmark in audio monitoring for broadcast, post-production, film and music facilities.

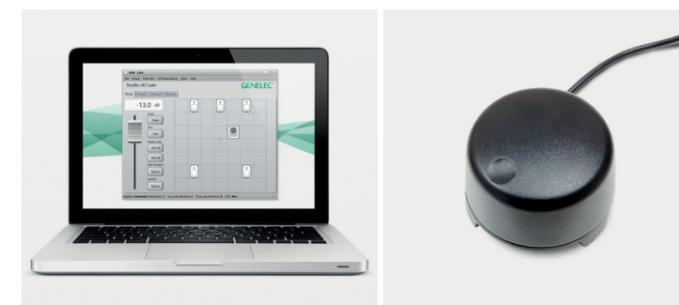
## Pioneering SAM technology made in Finland

Genelec is committed to delivering performance-driven, neutral sounding monitoring systems for the professional audio market. With this addition of new SAM Systems, we offer a comprehensive, solution-oriented, intelligently networked, evolving product range starting with the compact 8320 all the way up to the flagship three-way 8351 and 1236. Amazing acoustical solutions, electronics, amplifier circuitry, drivers, system configuration and software are designed, built and tested at the Genelec factory in Finland. As green as possible, without a single sonic compromise.

# System Architecture and Components



SAM™ System's basic connections and functionalities



GLM 2.0 software

Volume controller



Network adapter and measurement microphone

# 8340 and 8350 Smart Monitors

The new, completely re-designed 8340 and 8350 Smart monitors lift audio monitoring precision and performance to an entirely new level of accuracy. Featuring Genelec 8000 Series Minimum Diffraction Enclosure (MDE™) and Directivity Control Waveguide (DCW™) technologies, a flow optimized reflex port, very high sound pressure level, low colouration and broad bandwidth, the new 8340 and 8350 share all technical attributes and outstanding benefits of all SAM Systems family-members. You can now focus all your creativity in the audio productions with a reliable monitoring tool, anywhere you are.

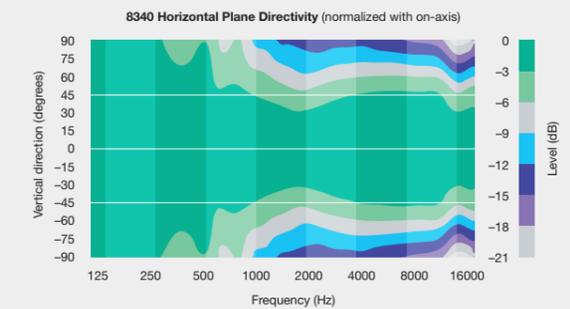
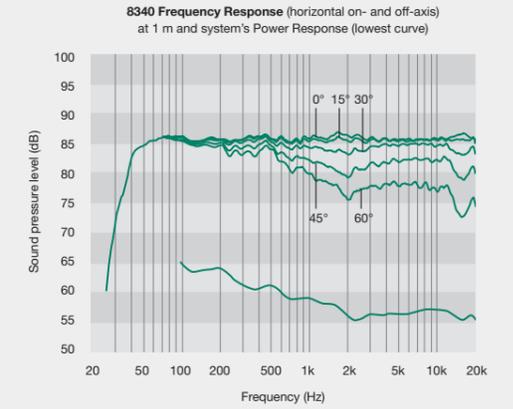


## New Smart Monitors Features and Benefits

- New Smart monitors can be used with Genelec GLM network for full GLM 2.0 software functionalities, including wired volume control. They can also be used without a computer and network control as complete stand-alone systems using either Stored Settings or Manual Settings (DIP switch and rotary controls) for various adjustments and functionalities.
- Genelec GLM AutoCal™ measures the response in the listening area and applies relevant compensation in the low and low-mid frequencies to minimise detrimental room acoustic anomalies as well as differences between various listening positions.
- An extended set of room response compensation filters allow for increased in-room calibration precision and customer-defined specific calibration curves.
- New Smart monitors' connectivity cover all possible analogue or digital audio applications.
- Genelec advanced Minimum Diffraction Enclosure (MDE™) and Directivity Control Waveguide (DCW™) provide a wide, controlled listening area, minimizing early reflections for very accurate sound reproduction on-axis and off-axis.
- Highly efficient Genelec designed Class D amplifiers combined with latest technology drivers allow the 8340 and 8350 to achieve substantially higher sound pressure level than their predecessors with high dynamic range, improved frequency response flatness and very low distortion. This means clean, neutral and fatigue-free audio reproduction at the sound pressure level of your choice, enabling you to work consistently and accurately.
- Highly efficient Class D amplifier technology represents a power-saving, environmentally-friendly solution.
- New Smart monitors feature improved frequency response flatness achieving very neutral sound reproduction.
- Constant latency above 200 Hz means exact time domain translation which contributes to accurate harmonics and sound image reproduction.
- High system reliability thanks to advanced protection circuitry guaranteeing predictable production times.
- Universal mains input voltage allows easy connectivity to any mains power allowing use anywhere in the world.
- Genelec Intelligent Signal Sensing (ISS™) switches the monitor system to standby when no audio input is detected, providing significant power consumption savings.
- All connectors face down for easy cabling and monitor placement against a wall or in a corner.
- New Smart monitors are fully compatible with the wide range of versatile Genelec accessories.
- Every single product is factory calibrated and fully evaluated for acoustic performance guaranteeing perfect similarity between products and consistent high performance.
- Elegant and minimalistic industrial design combining state-of-the-art function with unique aesthetics.
- New SAM Systems are fully backward compatible, allowing easy expansion of an existing monitoring system.
- Genelec quality and reliability make long term investments profitable and ensure outstanding audio quality experience.

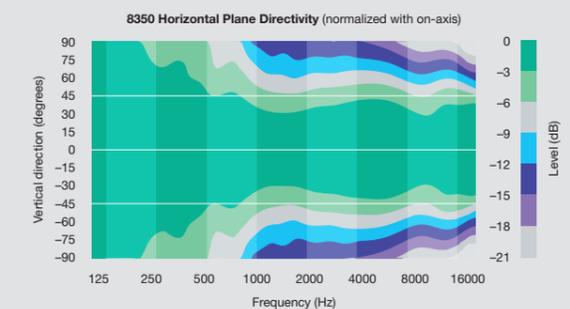
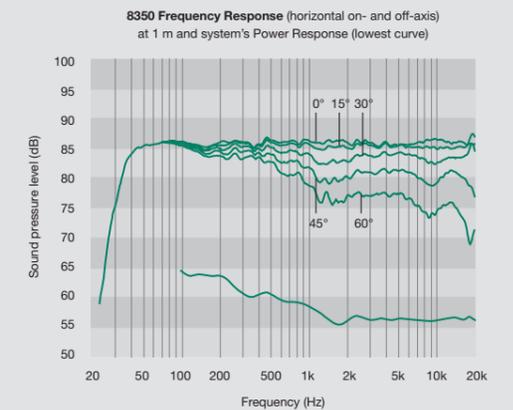
## Technical specifications 8340

Maximum sound pressure level <sup>1</sup>	110 dB
Free field frequency response	38 Hz – 22 kHz (-6 dB)
Accuracy of frequency response	± 1.5 dB (44 Hz – 20 kHz)
Crossover	2.6 kHz
Drivers	Woofer 6 1/2 inch Tweeter 3/4 inch metal dome and DCW™
Amplifier power per channel	Woofer 150 W Tweeter 150 W (Class D)
Dimensions H x W x D	365 x 237 x 223 mm 14 3/8 x 9 3/8 x 8 13/16 inch with Iso-Pod™
Weight	8.5 kg / 18.7 lb
Connectors	1 x XLR analog input 1 x input / 1 x output XLR digital AES/EBU 2 x RJ45 control network



## Technical specifications 8350

Maximum sound pressure level <sup>1</sup>	112 dB
Free field frequency response	33 Hz – 22 kHz (-6 dB)
Accuracy of frequency response	± 1.5 dB (38 Hz – 20 kHz)
Crossover	1.8 kHz
Drivers	Woofer 8 inch Tweeter 1 inch metal dome and DCW™
Amplifier power per channel	Woofer 200 W Tweeter 150 W (Class D)
Dimensions H x W x D	452 x 286 x 278 mm 17 13/16 x 11 1/4 x 10 15/16 inch with Iso-Pod™
Weight	12.8 kg / 28.2 lb
Connectors	1 x XLR analog input 1 x input / 1 x output XLR digital AES/EBU 2 x RJ45 control network



<sup>1</sup> Maximum short term sine wave sound pressure level averaged from 100 Hz to 3 kHz, measured in half space, on-axis, at 1 meter.

# 7360 and 7370 Smart Subwoofers

Genelec's new Smart subwoofers complement any Smart monitor in the most demanding professional monitoring applications. Smart subwoofers are built upon proven 7000 Series Laminar Spiral Enclosure (LSE™) technology. Smart subwoofers deliver articulate, precise low frequency reproduction with high dynamic capability. Both 7360 and 7370 Smart subwoofers include a comprehensive multichannel bass-management system, offering adjustable crossover frequency to the main monitor system and much more.

Acoustically adaptable to every environment, Smart subwoofers provide outstanding sound clarity, definition and neutrality you can trust. Offering comfort, flexibility and unlimited configuration possibilities, you can now only focus on your creative work.



## Technical specifications 7360

Maximum sound pressure level <sup>2</sup>	109 dB
Free field frequency response	Main channels: 19 Hz – 100 Hz (-6 dB) LFE channel: 19 Hz – 150 Hz (-6 dB)
Accuracy of frequency response	± 3 dB (19 Hz – 150 Hz)
Drivers	10 inch
Amplifier power	300 W (Class D)
Dimensions H x W x D	527 x 462 x 363 mm 20 3/4 x 18 3/16 x 14 5/16 inch
Weight	27 kg / 59 lb
Connectors	7.1 analog XLR inputs / outputs 1 x input / 1 x output XLR digital AES/EBU 2 x RJ45 control network

## Technical specifications 7370

Maximum sound pressure level <sup>2</sup>	113 dB
Free field frequency response	Main channels: 19 Hz – 100 Hz (-6 dB) LFE channel: 19 Hz – 150 Hz (-6 dB)
Accuracy of frequency response	± 3 dB (19 Hz – 150 Hz)
Drivers	12 inch
Amplifier power	400 W (Class D)
Dimensions H x W x D	625 x 555 x 490 mm 24 5/8 x 21 7/8 x 19 5/16 inch
Weight	48 kg / 106 lb
Connectors	7.1 analog XLR inputs / outputs 1 x input / 1 x output XLR digital AES/EBU 2 x RJ45 control network

<sup>2</sup> Maximum short term sine wave sound pressure level averaged from 30 Hz to 85 Hz, measured in half space, on-axis, at 1 meter.

# 9301 AES/EBU Multichannel Interface

The new 9301 AES/EBU Multichannel Interface has been designed to expand the 7360 and 7370 AES stereo inputs and outputs to 8 channels of AES I/O. With the 9301 in the signal path, all configurations of 7.1 or 8 channel AES multichannel monitor setups become possible. With its 7.1 digital audio input and its subwoofer output link, all possible digital audio source, be it stereo or multichannel, can be seamlessly connected to Genelec new Smart subwoofers.



## New Smart Subwoofers Features and Benefits

- New Smart subwoofers can be used with Genelec GLM network for full GLM 2.0 software functionalities, including wired volume control. They can also be used without a computer and network control as complete stand-alone systems using either Stored Settings or Manual Settings (DIP switch and rotary controls) for various adjustments and functionalities.
- Genelec GLM AutoCal™ measures the response in the listening area and applies relevant compensation in the subwoofer frequencies to minimise room acoustic resonance effects.
- An extended set of room response compensation filters allow for increased in-room calibration precision and customer-defined specific calibration curves.
- The Laminar Spiral Enclosure (LSE™) design provides extended low frequency performance, accurate tonal characteristics reproduction and high dynamic capabilities.
- New Smart subwoofers support both the traditional analogue bass management where the subwoofer handles both high- and low-pass filtering and a distributed bass management architecture, where subwoofer outputs are un-filtered and main Smart monitors apply the necessary high-pass filtering locally.
- A cost-effective package offering 7.1 analogue XLR inputs and outputs together with stereo AES/EBU XLR inputs and outputs without the need for additional external A/D converters.
- The 9301 AES/EBU Multichannel Interface allows 7.1-channel digital audio sources to be connected to new Smart subwoofers via a single XLR subwoofer output link to cover all possible professional digital audio applications.
- Highly efficient Genelec designed Class D amplifiers combined with latest technology drivers allow the 7360 and 7370 to achieve substantially higher sound pressure level than their predecessors with high dynamic range, improved frequency response flatness and very low distortion. This means clean, neutral and fatigue-free audio reproduction at the sound pressure level of your choice, enabling you to work consistently and accurately.
- Highly efficient Class D amplifier technology represents a power-saving, environmentally-friendly solution.
- High system reliability thanks to advanced protection circuitry guaranteeing predictable production times.
- Universal mains input voltage allows easy connectivity to any mains power allowing use anywhere in the world.
- Genelec Intelligent Signal Sensing (ISS™) switches the system to standby when no audio input is detected, providing significant power consumption savings.
- New Smart subwoofers feature a hardware bypass for simple monitoring check without subwoofer frequency response extension.
- Every single product is factory calibrated and fully evaluated for acoustic performance guaranteeing perfect similarity between products and consistent high performance.
- Elegant and minimalistic industrial design combining state-of-the-art function with aesthetics.
- New SAM systems are fully backward compatible, allowing easy expansion of an existing monitoring system.
- Genelec quality and reliability makes long term investments profitable and ensure outstanding audio quality experience.

# Key Technologies



Networked Smart Active Monitor (SAM™) systems feature automatic calibration to the acoustic environment.



Directivity Control Waveguide (DCW™) for flat on- and off-axis response.



Minimum Diffraction Enclosure (MDE™) for uncoloured sound reproduction.



Each transducer is driven by its own optimized amplifier.



Active crossover operating at low signal levels.



Sophisticated drive unit protection circuitry for safe operation.



Advanced reflex port design for extended low frequency response.



Highly efficient Laminar Spiral Enclosure (LSE™) provides accurate low frequency reproduction.



Bass Management System handles multichannel low frequency content.



Versatile mounting options for all installation needs.



Vibration decoupling Iso-Pod™ stand improves sound image definition.



Intelligent Signal Sensing (ISS™) for power consumption reduction in stand-by mode.

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