

audio that
moves

you



Public Address and Voice Alarm
VAIA Range

VAIA Compact and flexible, the next generation in public address and voice alarm.

NEW



All in one, in 1U

VAIA is a compact all in one public address and voice alarm system. Designed for a wide variety of applications it has built in DSP, controller, message store and a total of 1000W of amplifier power across 4 channels. VAIA delivers performance, reliability, flexibility and simple straight forward installation.

Built to bridge the gap between IP speaker systems and large-scale VA solutions, VAIA ensures that you receive robust, reliable performance without the complexities of larger setups. With its patented amplifier technology, VAIA delivers superior audio quality and lower power consumption, making it an environmentally friendly and high-performing choice.

VAIA is not just a product; it's a long-term investment in your site's safety and communication infrastructure. Built on a hardware foundation that promises to remain relevant and upgradable for years to come. Designed to incorporate new features over time, your system will continue to evolve, ensuring it meets future demands. Whether for a small station or a mid-sized facility, VAIA stands out as the next generation of PA and VA solutions, offering a seamless blend of advanced technology, sustainability, and ease of use.



Compact and Easy to Deploy

VAIA is the most compact PAVA system available, housed in a 1U 19" chassis with integrated signal processing, 1000W amplification, control, reporting, and charging. Its ergonomic design minimizes the need for complex interconnecting cable looms common in traditional rack-based systems, streamlining the entire process from delivery to installation and maintenance.



Built to last

VAIA is engineered to the highest standards, providing reliable performance in diverse and challenging environments. Its robust construction and high MTBF ensure years of dependable service, meeting the rigorous demands of the transportation industry. Built on years of best practice and rigorously tested, VAIA is certified to EN 54-16 and EN 54-4 standards, making it a trusted solution for your public address and voice alarm needs, today and into the future.



Integrated

Connect seamlessly with Zenitel's extensive range of PAVA peripherals, including microphones, loudspeakers, end-of-line devices, and ambient noise sensors. Integrate effortlessly with Zenitel's iVencs control system to centrally manage all Zenitel Audio solutions, including VIPEDIA and IPAMS. VAIA also supports the VIPA-API for integration with third-party control and automation systems offering a straightforward upgrade path.



Available in **three models**

VAIA is offered in three models, each with its own power supply module: VAIA-AC, which operates solely on a universal AC mains supply; VAIA-48V, designed for DC-only operation; and VAIA, which supports both AC and DC power and is fully EN 54 certified for emergency use. This flexibility allows you to choose the most cost-effective model for your application while maintaining consistent configuration and deployment methodologies across all models.

Model	AC	DC	Battery Charger	EN-54 Compliant
VAIA-AC	Yes	No	No	No - EN 54-16 and 4
VAIA-48V	No	Yes (48V DC)	No	No
VAIA	Yes	Yes	Yes	Yes



Secure

In emergencies, VAIA ensures the safety of passengers and staff with clear, reliable broadcasts triggered by local or remote emergency sources. Designed and manufactured to the highest standards and certified to EN 54, VAIA is built for critical moments, enhancing safety and coordination when it's needed most.



Inform

VAIA keeps passengers informed with clear, high-quality announcements, whether automated, live, or pre-recorded. Equipped with internal storage for over 100 messages and multiple players, VAIA can broadcast different content simultaneously to various zones, ensuring targeted communication. From routine updates to urgent alerts, VAIA's superior audio ensures passengers stay well-informed and up-to-date at all times.



Entertain

VAIA elevates the passenger experience with high-quality audio, delivering music, adverts, announcements, and other high-fidelity content, all prioritized and managed seamlessly. Featuring powerful DSP and low-distortion output, VAIA provides diverse entertainment options, creating a pleasant atmosphere in both station and retail environments.

Key Applications

VAIA is the ideal compact solution for smaller installations including transit stops. Despite its compact size, VAIA can scale up for larger single-site applications. Network multiple VAIA units together. A cost-effective and easily deployable solution for medium-sized sites such as metro and rail stations, as well as tunnels.

Small Mainline Station

Typically up to 2 separate zones
Public Address
1x VAIA-AC
Remote announcement via the API



Metro Stations

Typically up to 8 separate zones
Public Address and Voice Alarm
2x VAIA (EN54 certified)
2x Paging Microphone
1x Emergency Microphone
Remote announcement via the API



Bus Terminus

Typically up to 8 separate zones
Public Address
2x VAIA-AC
1x Paging Microphone



Powerful and flexible

VAIA offers a complete paging and voice alarm solution in a compact package and connects into the whole ecosystem of Zenitel products.

With advanced features such as standby amplifiers, built in networking and onboard signal processing, VAIA delivers across a variety of applications.

Built in auto switching standby amplifier for guaranteed continuous operation

Listen in loudspeaker for monitoring system operation

Built in EN 54-4 charger and battery supply (EN54-16 version only)

Clear status and amplifier indication to easily see system operation

4 channel 1000W up to 500W per amplifier with 4 isolated, monitored outputs per amplifier (Identify amplifier and loudspeaker line faults)

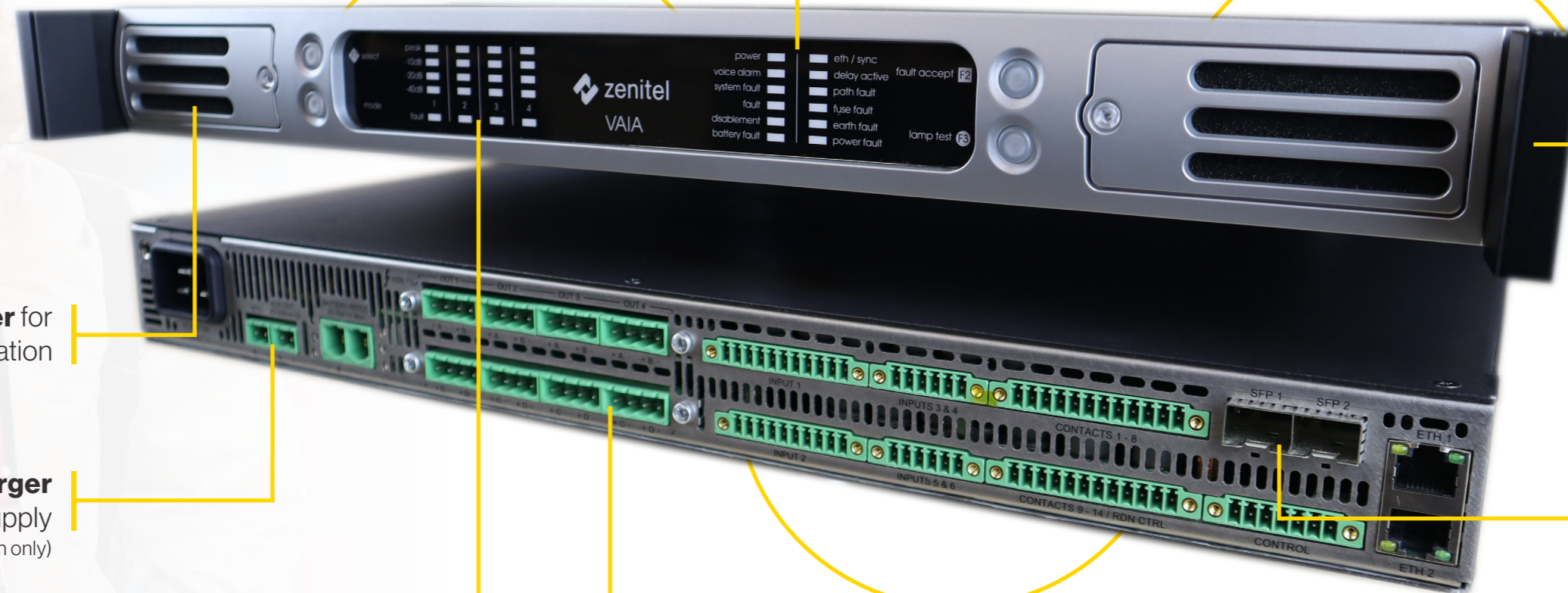
EN 54-16 compliant audible and visual indicators (EN54-16 version only)

Large Internal Message Store replay 100s of messages

Compact all in one 1U 19" enclosure offering everything you need for a complete audio system

RJ45 and SFP Ports for flexible networking

Compatibility with Zenitel peripherals including microphones, IO expanders and speaker line devices allowing you to build your system to your exact requirements



VAIA in detail:

Connectivity and flexibility

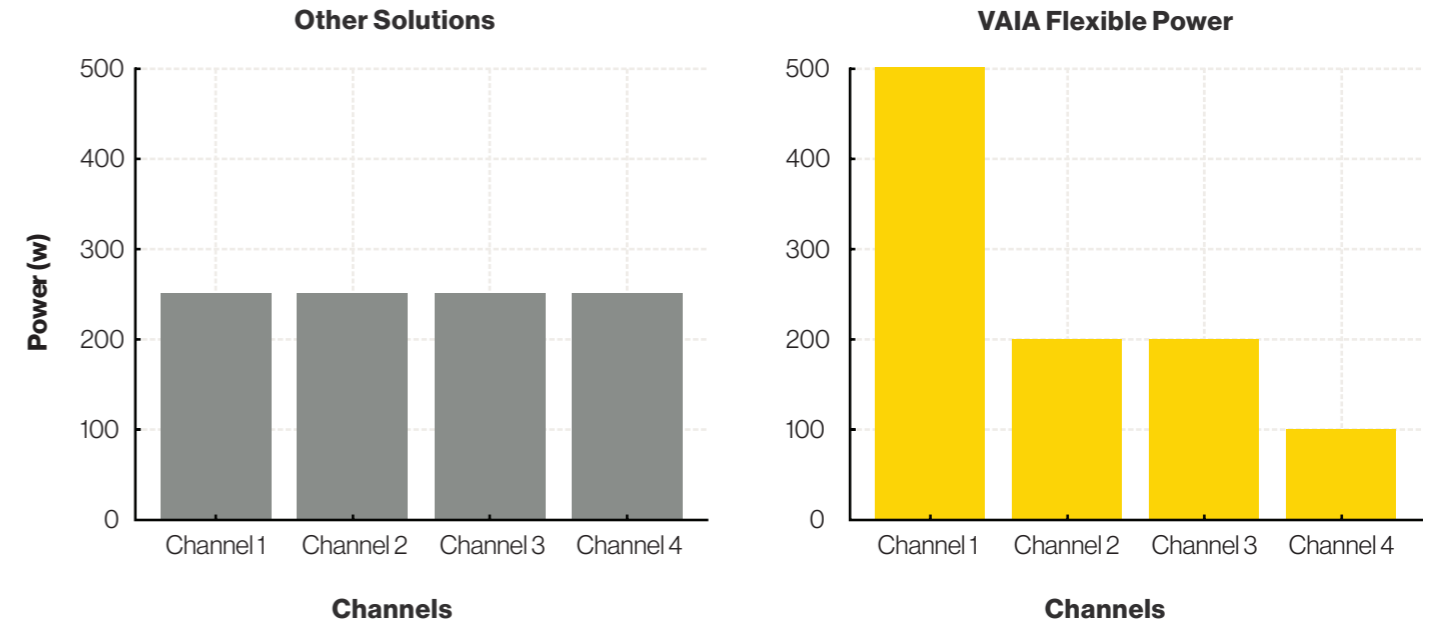
Message Store

With 1GB of onboard storage, VAIA can store over 100 paging messages, ensuring that critical announcements are readily available. The system's advanced design allows up to four messages to be played simultaneously, one per output, providing a flexible and efficient solution for managing communications across various zones.

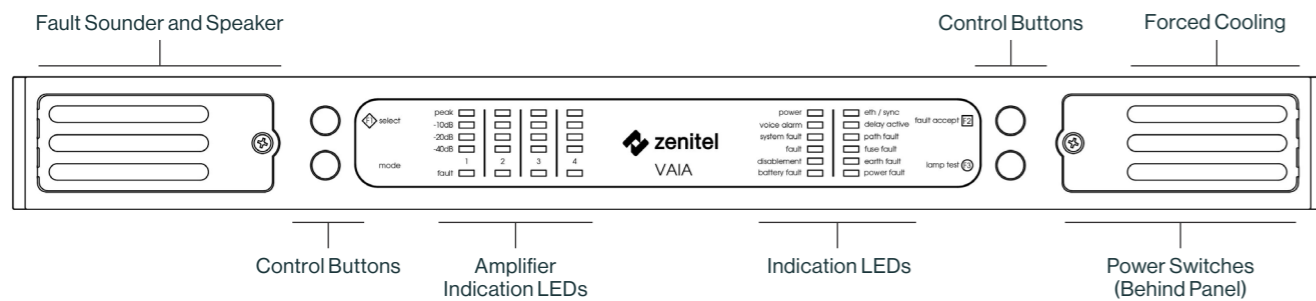


Flexible power

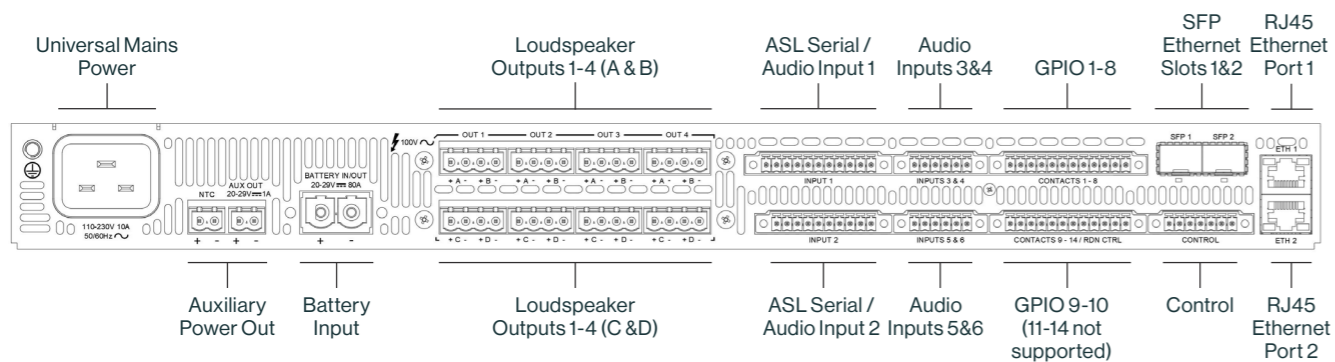
VAIA packs a total of 1000W of amplifier power into 1U. This can be spread across the four channels as required with up to 500W per channel. Dedicated more power on one channel to power some high performance loudspeakers to cover a large open area and less power across three other smaller zones. No need to specify several products with different power ratings.



VAIA Front Panel

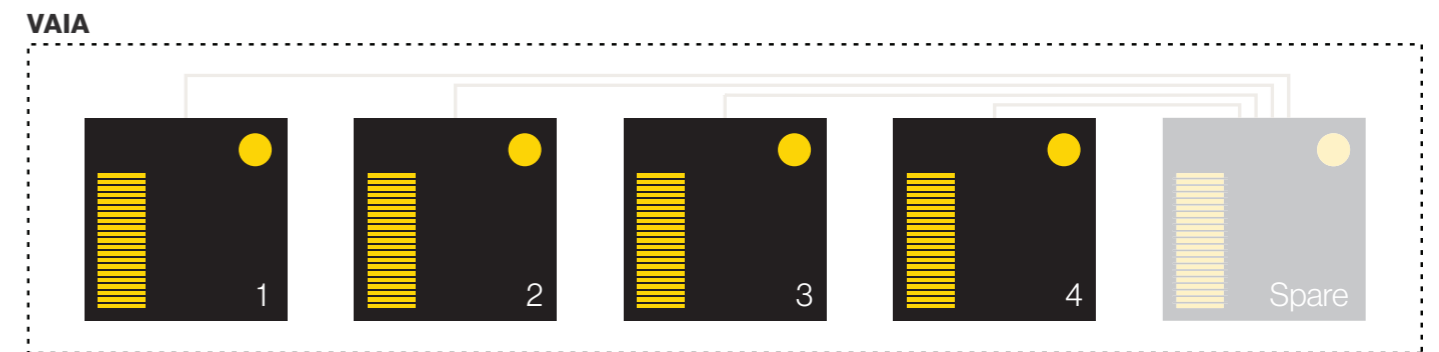


VAIA Rear Panel



Built-in Back Up

To meet the demands for redundancy in typical emergency applications and ensure uninterrupted operation, VAIA includes a built-in spare amplifier. This feature provides an added layer of reliability, guaranteeing performance even in the unlikely event of a failure in any amplifier channel. With its built-in redundancy, VAIA sets a new standard in public address systems, elevating expectations for reliability and performance.



Selected Reference

We understand that no one likes to be the first to install new hardware, especially when it comes critical infrastructure. There's no better reassurance than successful installation, and VAIA has already been successfully deployed and running at numerous sites, including over 60 rail wayside stations and a large tunnel application.

An example is detailed below, additional references available upon request.

Norway | 80 x VAIA-48V

Follo Tunnels

In close collaboration with ASL / Zenitel, Bane NOR successfully installed and handed over an advanced IP-based operational Audio system that met all of the project requirements, ensuring the overall safety and security of both staff and passengers.



| **Follo Tunnel** equipment cabinet

We're global

With installations at more than 3000 stations and central control spanning hundreds of lines, Zenitel has firmly established itself as a global leader in the rail industry.

Network Rail, UK
London Underground, UK
DLR, UK
CrossRail, UK
Bane NOR, Norway
ScotRail, Scotland
Nagpur Metro, India
Klang Valley MRT, Malaysia
Gautrain Line, South Africa
and thousands more...



We're scalable

From the smallest to the largest, Zenitel's flexible and unified PAVA Portfolio can scale to ensure the most cost-effective solution.

Large Sites

Typically 9-3840 zones
Underground / Terminus or
Hub Stations / Depots
VIPEDIA Range

Medium Sites

Typically 3-8 zones
Main line Stations / Metro
VAIA Range

Small Sites

Typically 1-2 zones
Light Rail / Tram / Bus Stops
IP Loudspeaker Range
ENA Range



Contact Zenitel today to
get your best solutions



Why Zenitel?

Zenitel is well positioned to drive the future of intelligent critical-communication solutions. Through our portfolio of IP products & solutions, with built-in intelligence and a focus on cybersecurity, we provide organisations with superior, scalable security and flexibility. Zenitel is the proven, preferred choice for environments requiring crystal-clear audio to ensure the protection of human life, property, assets and the management of critical activities. With interoperability at all levels, we seamlessly integrate with access control, video management and security platforms.